COMMITTENTE

RFI RETE FERROVIARIA ITALIANA
GRUPPO FERROVIE DELLO STATO ITALIANE

PROGETTAZIONE:

ITALFERR
GRUPPO FERROVIE DELLO STATO ITALIANE

DIREZIONE TECNICA

U.O. INFRASTRUTTURE CENTRO

PROGETTO DI FATTIBILITA' TECNICA ECONOMICA

VELOCIZZAZIONE DELLA LINEA ROMA – PESCARA

RADDOPPIO FERROVIARIO TRATTA PESCARA PORTA NUOVA – CHIETI

LOTTO 1 - TRATTA PESCARA PORTA NUOVA - PM SAN GIOVANNI TEATINO

GEOTECNICA

Relazione di calcolo – Comportamento delle fondazioni profonde

SCALA: -

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1. INTRODUZIONE

Il presente documento riporta lo studio del comportamento, ai sensi della Normativa vigente (Doc. Rif.[7] e [8]), dei pali di fondazioni delle opere d'arte previste nell'ambito del PROGETTO DI FATTIBILITA' TECNICA ECONOMICA della "*Velocizzazione della Linea Roma-Pescara – Raddoppio ferroviario tratta Pescara Porta Nuova – Chieti (Lotto 1) - Tratta Pescara Porta Nuova – Pm San Giovanni Teatino*"..

Il documento è così articolato:

Nel Cap. 2 si riportano i documenti di riferimento e la normativa citati nel testo.

Nel Cap. 3 si descrivono i criteri generali di progettazione in accordo alla Normativa vigente (Doc. Rif.[7] e [8]) sulla base dei quali viene calcolata la resistenza di progetto del palo singolo;

Nel Cap. 4 si riportano i criteri per la valutazione della resistenza di progetto del palo singolo;

Nel Cap. 5, dopo l'elenco delle opere ubicate nei diversi tratti di viabilità ferroviaria e stradale per le quali sono stati definiti i pali di fondazione, si riportano le curve di resistenza di progetto e di spostamento del palo singolo per le diverse opere.

2. DOCUMENTI DI RIFERIMENTO

2.1 Documentazione di progetto

[1] PROGETTO DI FATTIBILITA' TECNICA ECONOMICA - Relazione geotecnica generale - (Doc. rif. IA4S01D29F6GE0006001B)

[2] PROGETTO DI FATTIBILITA' TECNICA ECONOMICA – Plano-profilo geotecnico - Tav. 1 - (Doc. rif. IA4S01D29F6GE0006001A)

[3] PROGETTO DI FATTIBILITA' TECNICA ECONOMICA - Plano-profilo geotecnico - Tav. 2 - (Doc. rif. IA4S01D29F6GE0006002A)

[4] PROGETTO DI FATTIBILITA' TECNICA ECONOMICA - Plano-profilo geotecnico - Tav. 3 - (Doc. rif. IA4S01D29F6GE0006003A)

[5] PROGETTO DI FATTIBILITA' TECNICA ECONOMICA - Plano-profilo geotecnico - Tav. 4 - (Doc. rif. IA4S01D29F6GE0006004A)

[6] PROGETTO DI FATTIBILITA' TECNICA ECONOMICA - Plano-profilo geotecnico - Tav. 5 - (Doc. rif. IA4S01D29F6GE0006005A)

2.2 Normativa e standard di riferimento

[7] Decreto Ministeriale del 17 gennaio 2018: "Approvazione delle Nuove Norme Tecniche per le Costruzioni", G.U. n.29 del 20.2.2018, Supplemento Ordinario n.30.

[8] Circolare del Ministero delle infrastrutture e dei trasporti 21 gennaio 2019, n. 7 del Consiglio superiore del Lavori Pubblici recante "Istruzioni per l'applicazione dell'«Aggiornamento delle "Norme tecniche per le costruzioni"» di cui al decreto ministeriale 17 gennaio 2018"

[9] UNI EN 1997-1 : Eurocodice 7 – Progettazione geotecnica – Parte 1: Regole generali

[10] UNI EN 1998-5 : Eurocodice 8 – Progettazione delle strutture per la resistenza sismica – Parte 5: Fondazioni, strutture di contenimento ed aspetti geotecnici

[11] RFI DTC INC PO SP IFS 001 A del 21.12.2011- Specifica per la progettazione e l'esecuzione dei ponti ferroviari e di altre opere minori sotto binario;

[12] RFI DTC INC CS SP IFS 001 A del 21.12.2011 - Specifica per la progettazione geotecnica delle opere civili ferroviarie;

[13] RFI DTC SICS SP IFS 001 A del 30.06.2014 - Capitolato generale tecnico di appalto delle opere civili – Parte II – Sezione 5 – "Opere in terra e scavi"– RFI.

[14] 2008/217/CE - "Specifiche tecniche di interoperabilità per il sottosistema «infrastruttura» del sistema ferroviario transeuropeo ad alta velocità (20/12/2007)".

[15] 2011/275/CE - "Specifiche tecniche di interoperabilità per il sottosistema «infrastruttura» del sistema ferroviario transeuropeo convenzionale (26/04/2011)".

2.3 Software

[1] TZPile Version 2014.3.2, 1985-2014, Ensoft Inc.

[2] LPile 2016.9.09, 2016 by Ensoft Inc.

2.4 Bibliografia

[3] Bowles J.E. (1988) "Foundation Analysis and Design", 4TH Edition, Mc Graw Hill

[4] Chen Y.J., Kulhawy F.H. (1994) "Case history evaluation of the behaviour of drilled shafts under axial and lateral loading" EPRI TR-104601, Research Project 1493-04, Palo Alto.

[5] Elson W.K. (1984) "Design of laterally loaded piles" CIRIA Report n°103.

[6] Fleming W.G.K., Weltman A.J., Randolph M.F., Elson W.K. (1985) "Piling Engineering" Surrey University Press, Glasgow and London, Halsted Press, a division of John Wiley & Sons, New York.

[7] Gwizdala K. (1984) "Large bored piles in non cohesive soils" Swedish Geotechnical Institute, Report n° 26.

[8] Jamiolkowski M. (2000) "Axial load capacity of bored piles in sand and gravel" 3rd Symposium on Deep Foundations, Mexico City.

[9] Matsui T. (1993) "Case studies on cast-in-place bored piles and some considerations for design" Proc. 2nd Int. Seminar on Deep Foundations on Bored and Auger Piles, Ghent.

[10] Meyerhof G.G. (1976) "Bearing capacity and settlement of pile foundation" Journal of Geotechnical Engineering Division, ASCE, vol.102, March.

[11] O'Neill M.W, Hassan K.M. (1994) "Drilled shaft: effects of construction on performance and design criteria" Proc. Int. Conference on Design and Construction of Deep Foundations, Orlando, Florida, U.S., F.H.W.A., vol.I.

[12] Poulos H.G. (1989) "Program PIES – Axial response of piles in expansive soils" Centre for Geotechnical Research. University of Sydney.

[13] Poulos H.G. (1990) "Program DEFPIG – Deformation analysis of pile groups" Centre for Geotechnical Research. University of Sydney.

[14] Poulos H.G. e Davis E.H. (1980), "Pile foundation analysis and design", John Wiley and Sons.

[15] Reese L.C., O'Neill M.W. (1988) "Drilled shaft: construction procedures and design methods" Publication N.FHWA-HI-88-042, Federal Highway Administration, Washington, D.C..

[16] Reese L.C., Wang S.T. (1990) "Analysis of load versus settlement for an axially loaded deep foundation" Documentation of Computer Program APILE2, Ensoft Inc., Austin, Texas.

Reese L.C., Wright S.J. (1977) "Drilled shaft manual" U.S. Department of Transportation, Office of Research and Development, Div. HDV 2, Washington.

3. CRITERI DI PROGETTAZIONE IN ACCORDO ALLE NTC2018

3.1 Generale

In accordo con quanto definito nel paragrafo 6.2.4 delle NTC2018 (Doc.Rif. [7]), devono essere svolte le seguenti verifiche di sicurezza e delle prestazioni attese:

- Verifiche agli Stati Limite Ultimi (SLU)
- Verifiche agli Stati Limite d'Esercizio (SLE)

3.1.1 Stati Limite Ultimi (SLU)

Per ogni Stato Limite Ultimo (SLU) la verifica è considerata soddisfatta se vale la seguente disuguaglianza:

$E_d \leq R_d$

dove

E_d valore di progetto dell'azione o dell'effetto dell'azione;

R_d valore di progetto della resistenza.

L'azione e la corrispondente resistenza di progetto vanno determinate in accordo alle NTC2018 per gli approcci previsti al paragrafo 6.4.3.1. Sono previsti coefficienti parziali da applicarsi rispettivamente alle azioni (A1), ai parametri del terreno (M1) ed alle resistenze caratteristiche di calcolo (R3).

In particolare per tutte le verifiche, con la sola esclusione delle verifiche di stabilità non oggetto del presente documento, le NTC2018 indicano di adottare l'approccio progettuale DA2.
Nel secondo approccio progettuale, **Approccio 2**, è prevista una sola combinazione di gruppi di coefficienti (A1+M1+R3) da adottarsi sia nelle verifiche strutturali sia nelle verifiche geotecniche, con la sola esclusione delle verifiche di stabilità, non oggetto nel presente documento, per le quali si deve seguire l'Approccio 1 Combinazione 2 (A2+M2+R2).

Per le verifiche in condizioni sismiche è previsto l'utilizzo della medesima combinazione in cui siano posti pari ad 1 i coefficienti parziali sulle azioni e sui parametri geotecnici (già pari ad 1

secondo il set M1) ed adottando i coefficienti parziali sulle resistenze come indicato per le combinazioni statiche laddove non diversamente specificato nel capitolo 7 sulla sismica. In particolare per le fondazioni profonde il capitolo 7.11.5.3.2 non indica coefficienti parziali sulle resistenze diversi da quelli per le verifiche in campo statico ma indica di valutare opportunamente le eventuali riduzioni di resistenza dei terreni per effetto dell'azione sismica.

I valori assunti dai coefficienti di sicurezza parziali di ciascun gruppo, "Azioni – Parametri geotecnici del terreno – Resistenze", sono riportati all'interno delle NTC2018 (Doc. Rif. [7] e Doc. Rif. [8]), rispettivamente alle tabelle:

A Tabella 6.2.I

M Tabella 6.2.II

R Tabella 6.4.II

3.1.2 Stati Limite di Esercizio (SLE)

Per ogni Stato Limite d'Esercizio (SLE) la verifica è considerata soddisfatta se vale la seguente disuguaglianza:

$E_d \leq C_d$

dove

E_d valore di progetto dell'effetto dell'azione;

C_d valore limite prescritto dell'effetto delle azioni.

All'interno del progetto devono essere quindi definite le prescrizioni relative agli spostamenti compatibili per l'opera e le prestazioni attese.

3.2 Verifiche statiche

Come riportato al paragrafo 6.4.3 delle NTC2018, le verifiche delle fondazioni su pali devono essere effettuate con riferimento almeno ai seguenti stati limite, quando pertinenti:

- Stato limite ultimo di tipo Geotecnico (SLU GEO)
- Stato limite ultimo di tipo Strutturale (SLU STR) (non oggetto del presente documento)
- Stato limite di esercizio (SLE)

Le verifiche statiche GEO e STR devono essere svolte secondo l'**Approccio 2** indicato al paragrafo 3.1, ossia:

- Combinazione A1+M1+R3 (SLU STR e SLU GEO)

Con la sola esclusione delle verifiche di stabilità, non oggetto nel presente documento, per le quali si deve seguire l'Approccio 1 Combinazione 2 (A2+M2+R2).

3.2.1 Verifiche agli stati limite ultimi di tipo Geotecnico (SLU GEO)

Le verifiche di sicurezza agli SLU di tipo geotecnico sono:

- collasso per carico limite della palificata nei riguardi dei carichi assiali di compressione e di trazione;
- collasso per carico limite della palificata nei riguardi dei carichi orizzontali;
- stabilità globale.

Collasso per carico limite della palificata nei riguardi dei carichi assiali di compressione e di trazione

Ai fini della verifica nei confronti dei carichi assiali nel presente documento viene determinata la curva di resistenza di progetto del palo singolo, mediante l'utilizzo delle combinazioni di carico previste dalla Normativa, ed in particolare utilizzando l'approccio 2 (A1+M1+R3).

Tale azione dovrà poi essere confrontata dal progettista della fondazione con il valore dell'azione assiale massima (di compressione e di trazione) sul singolo palo, valutata mediante un'analisi che tanga anche conto dell'effetto gruppo, in modo da definire la lunghezza di progetto del palo.

Collasso per carico limite della palificata nei riguardi dei carichi orizzontali

Per quanto concerne le verifiche geotecniche nei confronti dei carichi orizzontali le NTC2018 indicano di eseguire una verifica confrontando l'azione applicata al palo con il valore di progetto della resistenza dei pali soggetti ai carichi trasversali $R_{tr,d}$ e adottando un coefficiente parziale da applicare alla disuguaglianza γ_r pari a 1.3 (si veda tab 6.4.VI al paragrafo 6.4.3.1.2 delle NTC2018).

Tuttavia in merito a tali verifiche si ritiene, in virtù della flessibilità dei pali sottoposti a tali carichi, che tale meccanismo di rottura non sia possibile, e che le problematiche progettuali della palificata sottoposta ai carichi di progetto orizzontali afferiscano piuttosto nei seguenti aspetti:

- limitazione degli spostamenti orizzontali entro i limiti accettabili, imposti dal progettista strutturale (nella valutazione del campo di spostamento indotto si terrà conto anche delle rotazioni);
- limitazione dei carichi orizzontali e dei relativi momenti di incastro per limiti strutturali.

Stabilità globale

La stabilità globale non viene qui considerata in quanto la geometria del problema non rende possibili fenomeni di instabilità globale della fondazione.

Altre verifiche

Oltre alle verifiche di cui sopra, per la combinazione A1+M1+R3 deve essere condotta anche la verifica strutturale nei confronti dei carichi orizzontali (azioni di taglio e di momento flettente), determinando il dominio di rottura nel piano M-N per la sezione del palo considerata e verificando che le sollecitazioni calcolate sul singolo palo dal Progettista Strutturale, a partire dai carichi relativi alla combinazione di carico assunta, siano interne a tale dominio. Per permettere al Progettista Strutturale di valutare tali sollecitazioni, si forniscono al progettista in allegato, per ciascuna tipologia di palo analizzato, le curve p-y che permettono di valutare gli andamenti delle azioni di taglio e di momento flettente lungo il fusto del palo, tenendo conto dell'interazione del palo con il terreno circostante, per le diverse condizioni di carico a testa palo.

3.2.2 Verifiche agli stati limite di esercizio (SLE)

Gli stati limite di esercizio sono:

- eccessivi cedimenti o sollevamenti;
- eccessivi spostamenti trasversali;
- eccessive rotazioni.

Nello specifico, ai fini della valutazione da parte del Progettista Strutturale della compatibilità degli spostamenti e delle distorsioni con i requisiti prestazionali della struttura in elevazione, si forniscono le curve carico – cedimento e carico – spostamento orizzontale del palo singolo.

Sarà cura del progettista della palificata nel suo insieme valutare, in funzione delle effettive distanze e posizioni dei singoli pali all'interno della palificata, gli eventuali coefficienti correttivi da applicare per tenere conto dell'effetto gruppo

3.3 Verifiche sismiche

La Normativa, come definito nei Doc. Rif. [7] e Doc. Rif. [8], stabilisce differenti Stati Limite (sia d'esercizio che ultimi) in funzione:

- dell'importanza dell'opera, mediante l'identificazione della Classe d'Uso;
- del danno conseguente ad un certo Stato Limite.

In particolare si definiscono i seguenti Stati Limite di esercizio e ultimi:

- <u>SLU:</u>
  - Stato Limite di Salvaguardia della Vita umana, **SLV,** definito come lo stato limite in cui la struttura subisce una significativa perdita della rigidezza nei confronti dei carichi orizzontali ma non nei confronti dei carichi verticali. Permane un margine di sicurezza nei confronti del collasso per azioni sismiche orizzontali.
  - Stato Limite di Prevenzione del Collasso, **SLC**, stato limite nel quale la struttura subisce gravi danni strutturali, mantenendo comunque un margine di sicurezza per azioni verticali ed un esiguo margine di sicurezza a collasso per carichi orizzontali.
- <u>SLE</u>:
  - Stato Limite di immediata Operatività **SLO** per le strutture ed apparecchiature che debbono restare operative a seguito dell'evento sismico. Tale stato limite non si applica per l'opera in oggetto.
  - Stato Limite di Danno **SLD** definito come lo stato limite da rispettare per garantire la sostanziale integrità dell'opera ed il suo immediato utilizzo.

Con riferimento all'opera in oggetto, e considerando quanto riportato al punto C7.1 del Doc. Rif. [8], le verifiche geotecniche in presenza di un evento sismico richiedono la verifica ai seguenti stati limite:

- Stato Limite Ultimo: **SLV** – Stato Limite di Salvaguardia della Vita (cui corrisponde una probabilità di superamento P_{vr} =10% nel periodo V_R);
- Stato Limite Esercizio: **SLD** – Stato Limite di Danno (cui corrisponde una probabilità di superamento P_{vr} =63% nel periodo V_R).

Le suddette probabilità, valutate nel periodo di riferimento V_R per l'azione sismica, consentono di determinare, per ciascuno stato limite, il tempo di ritorno del terremoto di progetto corrispondente.
Stabiliti i criteri di determinazione degli Stati Limite, le verifiche di sicurezza in campo sismico devono contemplare almeno le medesime verifiche definite in campo statico. In più sono da prevedersi le verifiche di liquefazione del terreno in caso di evento sismico; per queste ultime si rimanda alla Relazione geotecnica generale di Lotto (Doc. Rif. [1]).
Si precisa che le verifiche di collasso per carico limite della palificata nei riguardi dei carichi verticali e trasversali, come definito al paragrafo 7.11.5.3.2 delle NTC2018, dovranno essere svolte secondo quanto riportato al punto 7.11.1 secondo cui si deve adottare il medesimo approccio di verifica adottato per le condizioni statiche (DA2), utilizzando coefficienti parziali sulle azioni e sui materiali pari ad 1, mentre restano invariati i fattori parziali sulle resistenze.

Di fatto si tratta di utilizzare, sia per le verifiche geotecniche che per quelle strutturali, la seguente combinazione di carico:

- SISMA+M1+R3

Per le procedure di verifica si faccia quindi riferimento a quelle definite nel paragrafo 3.2 considerando la medesima curva di resistenza del palo singolo calcolata per le condizioni statiche.

4. METODI DI CALCOLO ADOTTATI PER LA VALUTAZIONE DEL COMPORTAMENTO DEL PALO SINGOLO

4.1 Curve di resistenza del palo singolo

Le curve di resistenza di progetto a compressione (o trazione) del palo singolo $R_{c,d}$ (o $R_{t,d}$), da confrontare con la massima azione di compressione (o trazione) agente in testa al palo E_d, sono date dalle seguenti espressioni:

$$R_{c,d} = \frac{R_{c,k}}{\gamma_R} = \min\left\{\frac{\left(R_{c;cal}\right)_{media}}{\xi_3};\frac{\left(R_{c;cal}\right)_{\min}}{\xi_4}\right\}/\gamma_R$$ <u>Resistenza di progetto a compressione</u>

$$R_{t,d} = \frac{R_{t,k}}{\gamma_R} = \min\left\{\frac{\left(R_{t;cal}\right)_{media}}{\xi_3};\frac{\left(R_{t;cal}\right)_{\min}}{\xi_4}\right\}/\gamma_R$$ <u>Resistenza di progetto a trazione</u>

dove

$R_{c,cal}$ e $R_{t,cal}$ resistenza di calcolo del palo singolo, rispettivamente a compressione e a trazione, determinate ad una data profondità secondo quanto descritto al paragrafo 4.1.1;

ξ_3, ξ_4 fattori di correlazione per la determinazione della resistenza caratteristica del palo in funzione del numero di verticali indagate, valutati secondo quanto indicato al paragrafo 4.1.2;

$R_{c,k}$ e $R_{t,k}$ resistenza caratteristica del palo singolo rispettivamente a compressione e a trazione ad una data profondità, calcolate secondo quanto descritto al paragrafo 4.1.2;

γ_R coefficienti parziali da applicarsi alle resistenze caratteristiche in funzione dell'approccio considerato, valutati secondo quanto indicato al paragrafo 4.1.3.

4.1.1 Resistenza di calcolo dei pali trivellati da parametri geotecnici

La resistenza di calcolo $R_{c,cal}$ a compressione del palo viene definita come capacità portante totale data dalla somma dei contributi della resistenza laterale e della resistenza di base, mentre la resistenza di calcolo $R_{t,cal}$ a trazione del palo viene valutata come sola portata limite per attrito laterale. Di seguito si riportano entrambe le espressioni di calcolo:

$$R_{c,cal} = Q_{ult_comp} = Q_{lat_ult} + Q_{base_ult} - (W_p - W_s)$$

$$R_{c,traz} = Q_{ult_traz} = Q_{lat_ult} + (W_p - W_s)$$

dove:

Q_{ult_comp} Resistenza di calcolo a compressione;

Q_{ult_traz} Resistenza di calcolo a trazione;

$Q_{lat_ult} = \pi \cdot D \cdot \int_{zt}^{zb} \tau_{us} \cdot dz$ Portata limite per attrito laterale

con:

τ_{us} = tensione tangenziale ultima lungo il fusto del palo, calcolata come riportato nel paragrafo 4.1.1.1;

z_b = profondità della base del palo dal p.c. originario;

z_t = profondità della testa del palo dal p.c. originario.

$Q_{base_ult} = \frac{\pi \cdot D^2}{4} \cdot q_{ub}$ Portata limite di base

con:

q_{ub} = pressione limite alla base del palo calcolata come riportato nel paragrafo 4.1.1.2;

W_p Peso del palo;

W_s Peso del terreno sostituito dal palo.

I contributi di resistenza laterale e di base sono stati calcolati come descritto nei paragrafi 4.1.1.1 e 4.1.1.2 in funzione del tipo di terreno attraversato e della tipologia e dimensione del palo da realizzare.

Il peso del palo, in accordo con quanto riportato al paragrafo 6.4.3 delle NTC2018, Doc. Rif. [7], deve essere incluso tra le azioni permanenti di cui alla Tabella 6.2.I delle stesse NTC2018. Nella condizione di resistenza a compressione è stato assunto come carico permanente svaforevole, mentre nella condizione di calcolo di resistenza a trazione è stato assunto come azione permanente favorevole.

4.1.1.1 Resistenza laterale di calcolo

La resistenza laterale di calcolo è stata determinata, in base al tipo di terreno attraversato, come segue:

Terreni a grana grossa (sabbie)

$$\tau_{u,s}(kPa) = k \cdot \sigma'_{vo} \cdot \tan\phi' \leq \tau_{u,s\max}(kPa)$$

dove:

k coefficiente empirico variabile con la profondità tra 0.4 e 0.7, assunto in questa sede pari a 0.6;

σ'_{vo} tensione verticale efficace geostatica calcolata, a partire dal p.c. originario, alla quota di riferimento;

ϕ' angolo di resistenza al taglio del terreno.

Il valore di $\tau_{us,max}$ è assunto nei calcoli pari a 120 kPa.

Terreni a grana fine (limi e argille)

τ_{ult} (kPa) = $\alpha \cdot c_u \leq 120$ kPa

dove:

c_u resistenza a taglio non drenata;

α coefficiente adimensionale variabile col valore di cu secondo quanto indicato in Tabella 4.1.

Tabella 4.1: valori indicativi di α per pali trivellati in terreni coesivi (AGI, 1984)

c_U (kPa)	α (-)
≤ 25	0.9
25÷50	0.8
50÷75	0.6
≥ 75	0.4

Terreni stratificati

Nel caso di terreni stratificati, costituiti da alternanze di strati di limi e argille sature e di sabbie e ghiaie, i criteri di valutazione delle portate laterali limite rimangono analoghi a quelli sopra descritti.

Attrito negativo

In presenza di attrito negativo il contributo di resistenza laterale offerto dal terreno che cede rispetto al palo, non viene considerato e l'integrale di tali resistenze non considerate costituisce l'azione da Attrito Negativo che deve essere utilizzata come carico nelle diverse verifiche. Pertanto operativamente nella valutazione delle curve di capacità portante dei pali per cui è prevista la presenza dell'attrito negativo si procede nel seguente modo:

- valutazione del profilo di cedimento del terreno
- individuazione della profondità sino alla quale il terreno cede rispetto al palo
- annullamento dei contributi di resistenza laterale sino alla profondità sopra definita
- calcolo della forza aggiuntiva dovuta all'attrito negativo da considerare come carico esterno aggiuntivo nelle diverse verifiche; tale azione è calcolata come integrale dei contributi di resistenza laterale annullati nella valutazione della capacità portante.

4.1.1.2 Resistenza di base di calcolo

La resistenza di base di calcolo è stata determinata, in base al tipo di terreno alla base del palo, come segue (AGI, 1984):

Terreni a grana grossa (sabbie)

$$\left(q_{u,b}\right)_{\frac{s}{D}=0.1}(kPa) = N_q^* \cdot \sigma'_{vo} \leq q_{u,b,\max}(kPa)$$

dove:

$(q_{u,b})_{\frac{s}{D}=0.1}$ pressione limite alla base associabile a cedimenti pari al 10% del diametro del palo;

N_q^* parametro che può essere valutato mediante la Figura 4.1;

σ'_{vo} tensione verticale efficace calcolata dal p.c. originario.

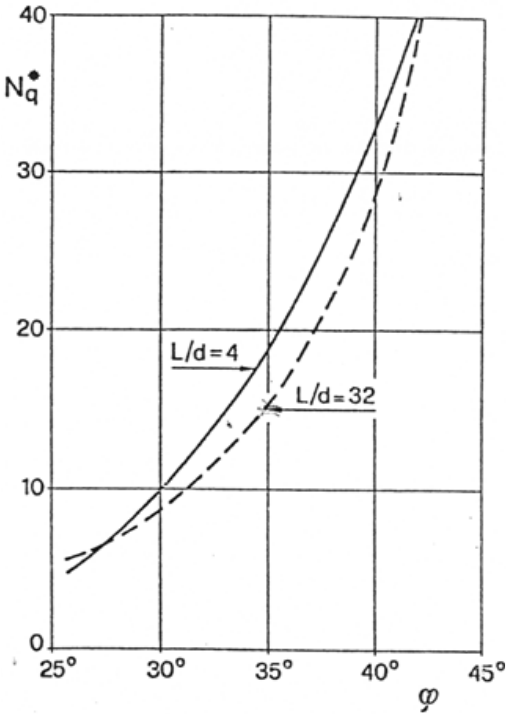


Figura 4.1: Coefficienti N_q^* (Berezantzev, 1965)

Il valore di $q_{ub,max}$ è stato valutato in accordo a quanto riportato nella successiva Tabella 4.2 ed assunto conservativamente nei calcoli per i terreni in esame pari a 4000 kPa.

Tabella 4.2: valori di $(q_{u,b})$max per terreni grana grossa, Gwizdala, 1984

	$(q_{u,b})_{max}$
GHIAIE	7500
GHIAIE SABBIOSE	5800
SABBIE	5800
SABBIE LIMOSE	4300

Terreni a grana fine (limi e argille)

$$q_{ult} = 9 \cdot c_u + \sigma_{v0} \leq q_{ub,max}$$

dove:

c_u resistenza a taglio non drenata del terreno alla base del palo.

s_{v0} tensione totale alla quota della base del palo

Il valore di $q_{ub,max}$ è stato assunto conservativamente nei calcoli per i terreni in esame pari a 3000 kPa.

Terreni stratificati

Nel caso di terreni stratificati, costituiti da alternanze di strati di limi e argille sature e di sabbie e ghiaie, la portata di base negli strati sabbioso-ghiaiosi andrà abbattuta rispetto a quella caratteristica dello strato supposto omogeneo in accordo allo schema riportato in Figura 4.2.

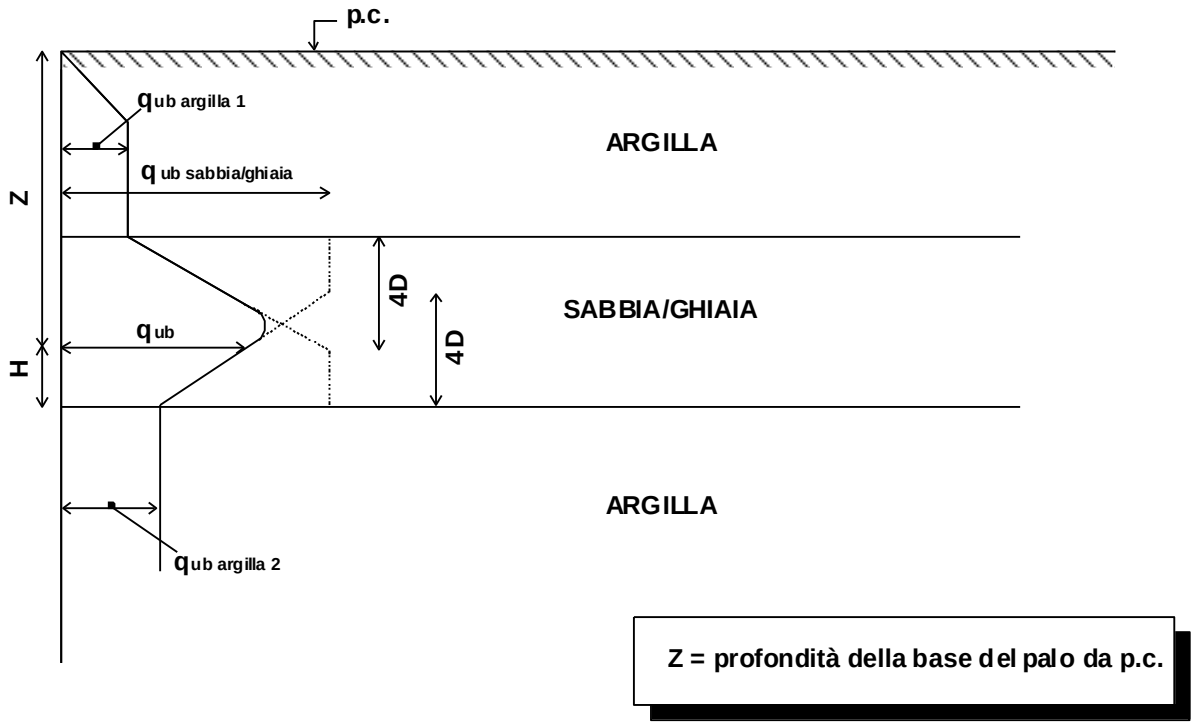


Figura 4.2: Criterio di valutazione dellla pressione ultima di base (q_{ub}) in terreni stratificati (modificata da Meyerhof, 1976)

4.1.2 Resistenza caratteristica

La resistenza caratteristica a compressione $R_{c,k}$ e la resistenza caratteristica a trazione $R_{t,k}$ del palo singolo sono state determinate a partire dalle resistenze di calcolo ottenute con metodi che utilizzano i parametri geotecnici; in accordo con quanto definito nel paragrafo 6.4.3.1.1 delle NTC2018 risulta pertanto:

$$R_{c,k} = Min\left\{\frac{\left(R_{c,cal}\right)_{media}}{\xi_3};\frac{\left(R_{c,cal}\right)_{\min}}{\xi_4}\right\}$$

$$R_{t,k} = Min\left\{\frac{\left(R_{t,cal}\right)_{media}}{\xi_3};\frac{\left(R_{t,cal}\right)_{\min}}{\xi_4}\right\}$$

essendo:

$R_{c,k}$ e $R_{t,k}$	resistenza caratteristica rispettivamente a compressione e a trazione del palo singolo ad una data profondità;
$R_{c,cal}$ e $R_{t,cal}$	resistenza di calcolo rispettivamente a compressione e a trazione determinate ad una data profondità;
$\left(R_{c,cal}\right)_{media}$ e $\left(R_{t,cal}\right)_{media}$	resistenza di calcolo media ad una data profondità;
$\left(R_{c,cal}\right)_{\min}$ e $\left(R_{t,cal}\right)_{\min}$	resistenza di calcolo minima ad una data profondità;
ξ_3, ξ_4	fattori di correlazione in funzione del numero di verticali indagate, in accordo a quanto indicato nel paragrafo 6.4.3.1 delle NTC2018, Tab. 6.4.IV.

Nel caso in esame si è assunto: ξ_3, =1.7 e ξ_4 = 1.7.

4.1.3 Resistenza di progetto

I valori della resistenza di progetto a compressione $R_{c,d}$ e della resistenza di progetto a trazione $R_{t,d}$ sono determinati applicando al valore caratteristico della resistenza i coefficienti parziali γ_R secondo le seguenti espressioni:

$$R_{c,d} = \frac{R_{c,k}}{\gamma_R}$$

$$R_{t,d} = \frac{R_{t,k}}{\gamma_R}$$

essendo:

$R_{c,d}$ e $R_{t,d}$ resistenza di progetto del palo singolo, rispettivamente a compressione e a trazione;

$R_{c,k}$ e $R_{t,k}$ resistenza caratteristica del palo singolo, rispettivamente a compressione e a trazione;

γ_R coefficienti parziali da applicarsi alle resistenze caratteristiche in funzione dell'approccio considerato e della tipologia esecutiva del palo (vedi la Tabella 4.3 in cui sono riportati i fattori parziali relativi a pali trivellati).

Tabella 4.3: Coefficienti parziali alle resistenze caratteristiche

	Pali trivellati
Resistenza \ γ_R	**R_3 [-]**
Base	1.35
Laterale - compressione	1.15
Laterale - trazione	1.25

4.2 Curve carico-cedimento del palo singolo

4.2.1 Curva carico-cedimento in assenza di attrito negativo

La valutazione della curva carico-cedimento del palo singolo è stata effettuata con il metodo delle curve di trasferimento (τ-s e q-s) mediante l'ausilio del codice di calcolo TZ-Pile ver. 2014.3.2 che opera come segue:

1. Il palo è schematizzato con un elemento cilindrico, suddiviso in conci, caratterizzato da un modulo elastico E_p.
2. Il trasferimento degli sforzi dal palo al terreno avviene tramite molle (una per concio) caratterizzate da leggi non lineari (si veda la Figura 4.3). L'ordinata delle molle rappresenta la tensione tangenziale sviluppabile lungo il fusto (τ) o la portata di base (q); le ascisse

rappresentano lo spostamento locale verso il basso del concio generico (s_v). Lo spostamento verso il basso del generico concio viene a dipendere dal carico applicato alla testa del palo (Q_t), dalla sua posizione lungo il palo, dal modulo elastico del palo e dalle curve di trasferimento (τ-s_v e q-s_v) lungo il fusto e alla base.

3. La determinazione dell'andamento dei carichi e degli spostamenti lungo il fusto e alla base, per un dato carico applicato in testa, viene effettuata risolvendo l'equazione differenziale:

$$\frac{dQ_z}{dz} = E_p \cdot A_p \cdot \frac{d^2 s_{vz}}{dz^2}$$

essendo:

z = coordinata generica lungo il palo con origine alla testa palo

A_p = area della sezione del palo

Q_z = carico assiale agente nella sezione di palo di coordinata z

s_{vz} = spostamento assiale nella sezione di palo di coordinata z.

La soluzione dell'equazione differenziale viene fatta con metodi numerici in accordo alla seguente procedura:

a. si assume un movimento verso il basso della base del palo e, con riferimento alla curva di trasferimento della base (q-s), si ottiene il corrispondente carico applicato alla base;
b. si usa la curva di trasferimento (τ-s) relativa al concio sopra la base e si ottiene il carico di attrito laterale associabile allo spostamento di cui al punto a);
c. si valuta il carico agente alla sommità del concio come somma del carico applicato alla base (punto a) e del carico di attrito laterale (punto b);
d. si calcola l'accorciamento elastico del concio di palo in funzione dei carichi agenti a testa concio (punto c) e base concio (punto a);
e. si calcola lo spostamento alla testa del concio come somma di quello imposto alla base (punto a) più quello elastico del concio (punto d).

4. Si ripete la procedura per ciascun concio soprastante quello di base, fino ad arrivare alla testa del palo; il carico e lo spostamento della testa rappresentano un punto della curva carico-cedimento del palo.

3. Si assumono altri valori dello spostamento della base e per ciascun valore si ripetono i calcoli fino ad ottenere la curva carico-cedimento completa del palo.

I risultati del calcolo, per ogni valore di carico assiale applicato in testa, sono:

- lo spostamento verticale della testa del palo;
- l'andamento dei carichi assiali lungo il fusto;
- le azioni esercitate tra palo e terreno.

Sono state adottate le curve di trasferimento implementate internamente al codice di calcolo (Reese & O'Neill, 1988).

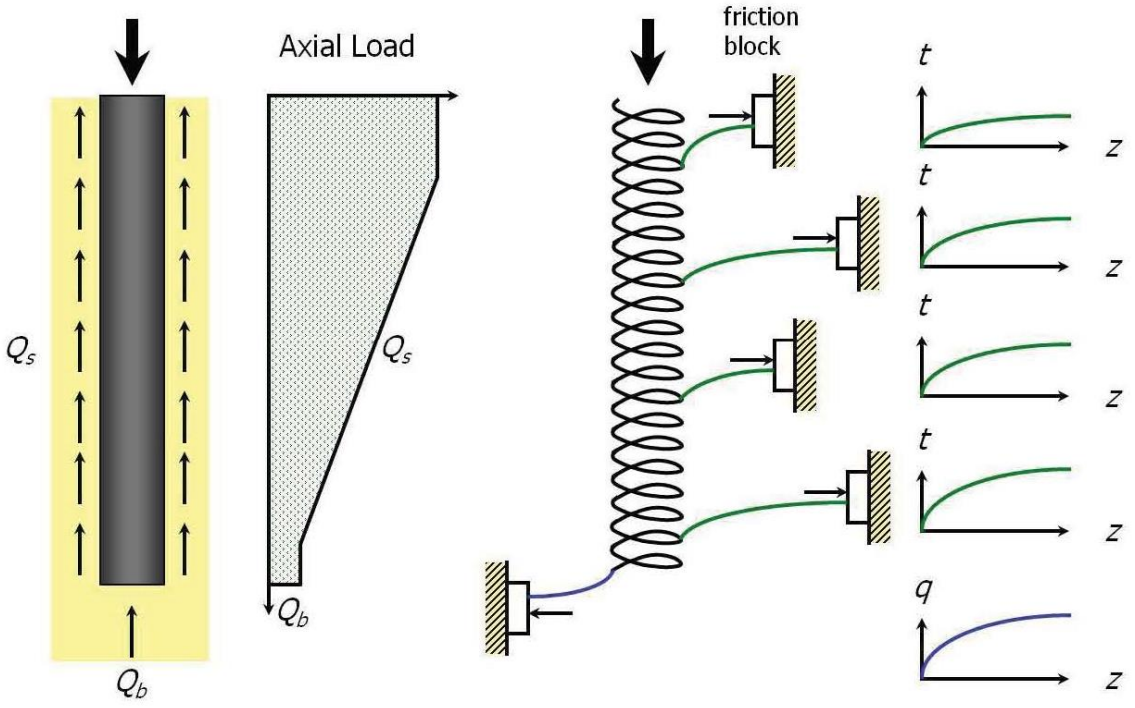


Figura 4.3: Schema di calcolo del palo singolocaricato assialmente (TZPILE Technical Manual)

4.2.2 Curva carico-cedimento in presenza di attrito negativo

La valutazione della curva carico-cedimento del palo singolo in presenza di attrito negativo è stata effettuata con il metodo delle curve di trasferimento (τ-s e q-s) sempre mediante l'ausilio del codice di calcolo TZ-Pile ver. 2014.3.2 che opera come indicato al paragrafo 4.2.1, con la differenza che in presenza di attrito negativo si tiene conto, concio per concio, dell'entità del cedimento differenziale tra quello relativo al concio e quello relativo al terreno circostante il palo.

4.3 Comportamento del palo singolo soggetto a carico orizzontale

Lo studio dell'interazione palo-terreno sotto carichi orizzontali, e quindi la valutazione della curva carico-spostamento orizzontale del palo singolo, è stata effettuata con il metodo delle curve di trasferimento p-y) mediante l'ausilio del codice di calcolo L-Pile ver. 2016.9.09.
La procedura di calcolo implementata in LPile è del tutto analoga a quella del codice TZ-Pile con curve di trasferimento diverse a seconda dei materiali che permettono di riprodurre con un legame non lineare l'interazione tra palo e terreno circostante nei confronti dei carichi orizzontali.

Come detto in precedenza al paragrafo 3.2.1, da un punto di vista puramente geotecnico si ritiene pertanto non significativa una valutazione della resistenza di progetto per il palo soggetto a carichi orizzontali. Tuttavia si fornisce comunque un valore di riferimento calcolato, con il codice di calcolo L-Pile, come massima azione orizzontale applicabile in testa al palo in corrispondenza della quale avviene la prima insorgenza di plasticizzazione nel terreno circostante e dividendo tale valore per il coefficiente parziale indicato da normativa γ_r pari a 1.3.

5. CURVE DI RESISTENZA E COMPORTAMENTO DEFORMATIVO DEI PALI DI FONDAZIONE

5.1 Elenco delle opere per cui sono previste fondazioni profonde

Lungo il tracciato del Lotto 1 dei lavori di velocizzazione della linea Roma – Pescara, nella tratta tra Pescara e Chieti, il corpo stradale ferroviario si sviluppa per la gran parte in rilevato o a raso ed in parte minore in trincea. I rilevati sono nei primi 1.5 km circa di altezza da 2.5 e 5.5 m di altezza, mentre nella restante parte di tracciato le altezze sono molto modeste e la linea corre pressoché a raso.

Oggetto della presente relazione sono le valutazioni delle resistenze e del comportamento dei pali di fondazione delle opere d'arte sia in linea che di attraversamento relative al tratto in oggetto.

In particolare nel seguito si riportano le valutazioni relative alle seguenti opere:

- VI02 – Ponte su Via San Donato 1 – km 0+105 (viadotto ferroviario in linea). L'opera prevede tre appoggi: due spalle ed una pila centrale;
- VI03 – Ponte su Via San Donato 2 – km 0+458 (viadotto ferroviario in linea). L'opera prevede tre appoggi: due spalle ed una pila centrale;
- VI04 – Ponte su Via Rio Sparto 2 – km 0+733 (viadotto ferroviario in linea). L'opera prevede tre appoggi: due spalle ed una pila centrale;
- IV01 – Cavalcaferrovia su Via Tiburtina SS5 – km 5+639 (opera stradale di attraversamento). L'opera prevede per le rampe di approccio delle strutture scatolari fondate su pali e per l'attraversamento un'opera con due spalle e due appoggi.

5.2 VI02 – Ponte su Via San Donato 1 – km 0+105

5.2.1 Inquadramento geotecnico

In accordo a quanto riportato nella Relazione Geotecnica (Doc. rif. [1]), nella successiva Tabella 5.1 è riportata la stratigrafia di riferimento utilizzata per la definizione delle curve di resistenza.

Nella successiva Tabella 5.2 sono invece riportati i parametri geotecnici di calcolo associati alla suddetta stratigrafia.

La stratigrafia è derivata dai profili geotecnici della linea ferroviaria e delle viabilità stradali a cui si rimanda per i dettagli (da doc [2] a doc [6]).

Tabella 5.1: Stratigrafia di calcolo VI02

Strato	Profondità media da [m s.l.m.]	Profondità media a [m s.l.m.]
Riporto antr.	2.0	0.8
A,L1	0.8	-4.6
A,L2	-4.6	-13.3
L,A2	-13.3	-28.4
L,A1	-28.4	-36
G,S	-36	-39.5
M	-39.5	

Tabella 5.2: Parametri geotecnici di calcolo VI02 – Materiali in sito

UNITA'		Parametri di resistenza		
	γ_v	φ'	c'	c_u
	[kN/m^3]	[°]	[kPa]	[kPa]
A,L1	18	22	10	80-100
A,L2	17.5	20.5	5	30-40
L,A2	19	27	0	30-60
L,A1	18.5	23.5	12	60
G,S	19	36	0	-
M	21	26	20	150-400

Nelle valutazioni è stata considerata una quota testa palo a -0.30 m s.l.m. e una quota della falda a +0.70 m s.l.m..

Nel calcolo si è tenuto conto anche del riempimento (riporto antropico) che dagli elaborati di progetto sarà presente nella configurazione definitiva. Tale materiale è stato inserito come peso aggiuntivo, al di sopra del terreno naturale, nelle valutazioni di capacità portante in modo da considerare lo stato tensionale corretto alle diverse profondità.

5.2.2 Curve di portanza palo singolo

Il VI02 è ubicato lungo linea in corrispondenza di un rilevato di altezza significativa per il quale, vista la valutazione di cedimenti attesi, è stato previsto un trattamento con colonne in deep mixing con funzione di riduzione dei cedimenti. In particolare le colonne, che per il trattamento corrente al di sotto del rilevato hanno una lunghezza di circa 6.5 m, all'approssimarsi del viadotto verranno approfonditi fino a circa 10 m in modo da trattare tutto lo spessore più cedevole e da poter escludere completamente effetti da attrito negativo nel dimensionamento dei pali delle spalle. In questo modo la progettazione dei pali delle spalle e della pila può essere uniformato.

Nelle successive Figura 5.1 e Figura 5.2, in accordo ai criteri descritti al precedente punto 4, sono riportate rispettivamente le curve di capacità portante a compressione e a trazione secondo l'Approccio 2, valide anche per le condizioni sismiche, in Figura 5.3 e Figura 5.4 sono riportati separatamente i contributi di resistenza laterale e di portata di base, sempre in accordo al DA2, e in Figura 5.5 sono riportate le curve di resistenza laterale caratteristica.

Nelle seguenti curve il peso del palo non è stato considerato e deve essere tenuto in conto come carico esterno considerando la differenza tra W_p (Peso del palo) e W_s (Peso del terreno sostituito dal palo), utilizzando sempre il valore del peso di terreno saturo anche sotto falda e non quello sommerso.

I calcoli sono stati condotti per pali di diametro:

- D = 800 mm;
- D = 1000 mm;
- D = 1200 mm;
- D = 1500 mm.

VELOCIZZAZIONE DELLA LINEA ROMA-PESCARA – RADDOPPIO PESCARA PORTA NUOVA – CHIETI – LOTTO 1

Capacità portante a compressione (SLU) [kN]

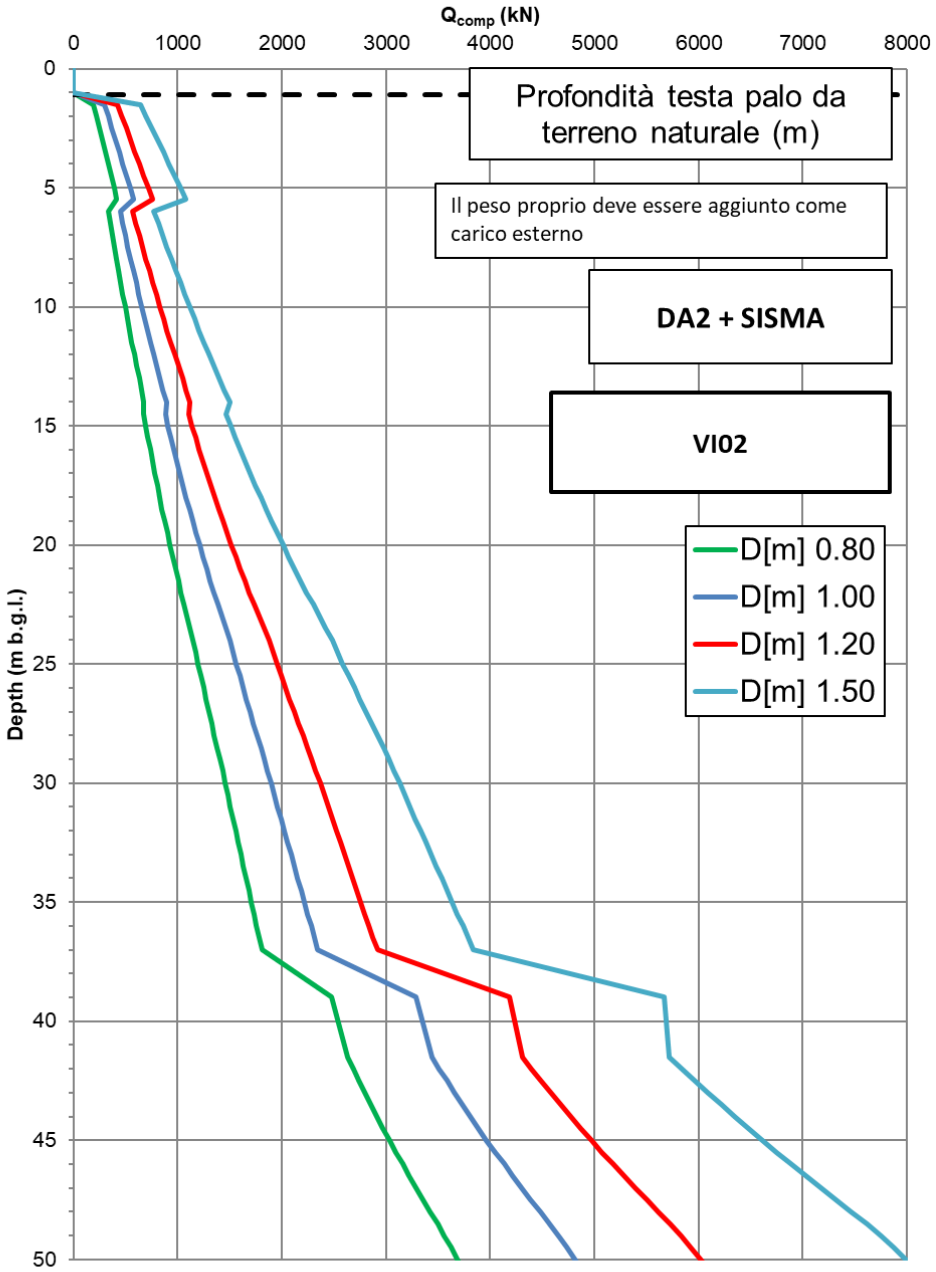


Figura 5.1: VI02 - Curve di capacità portante a compressione (SLU) DA2 + SISMA

VELOCIZZAZIONE DELLA LINEA ROMA-PESCARA – RADDOPPIO PESCARA PORTA NUOVA – CHIETI – LOTTO 1

Capacità portante a trazione (SLU) [kN]

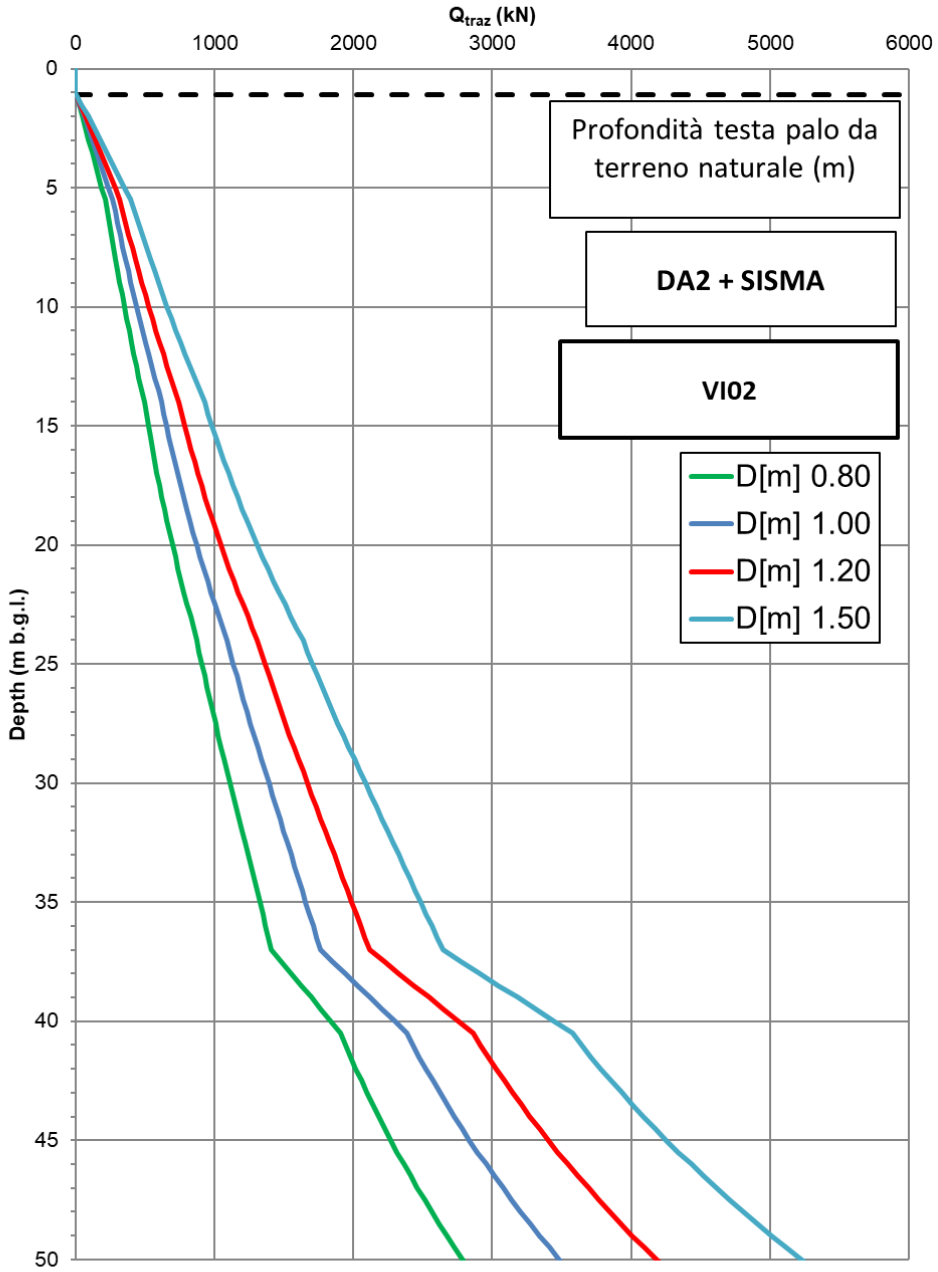


Figura 5.2: VI02 - Curve di capacità portante a trazione (SLU) DA2 + SISMA

VELOCIZZAZIONE DELLA LINEA ROMA-PESCARA – RADDOPPIO PESCARA PORTA NUOVA – CHIETI – LOTTO 1

Capacità portante laterale

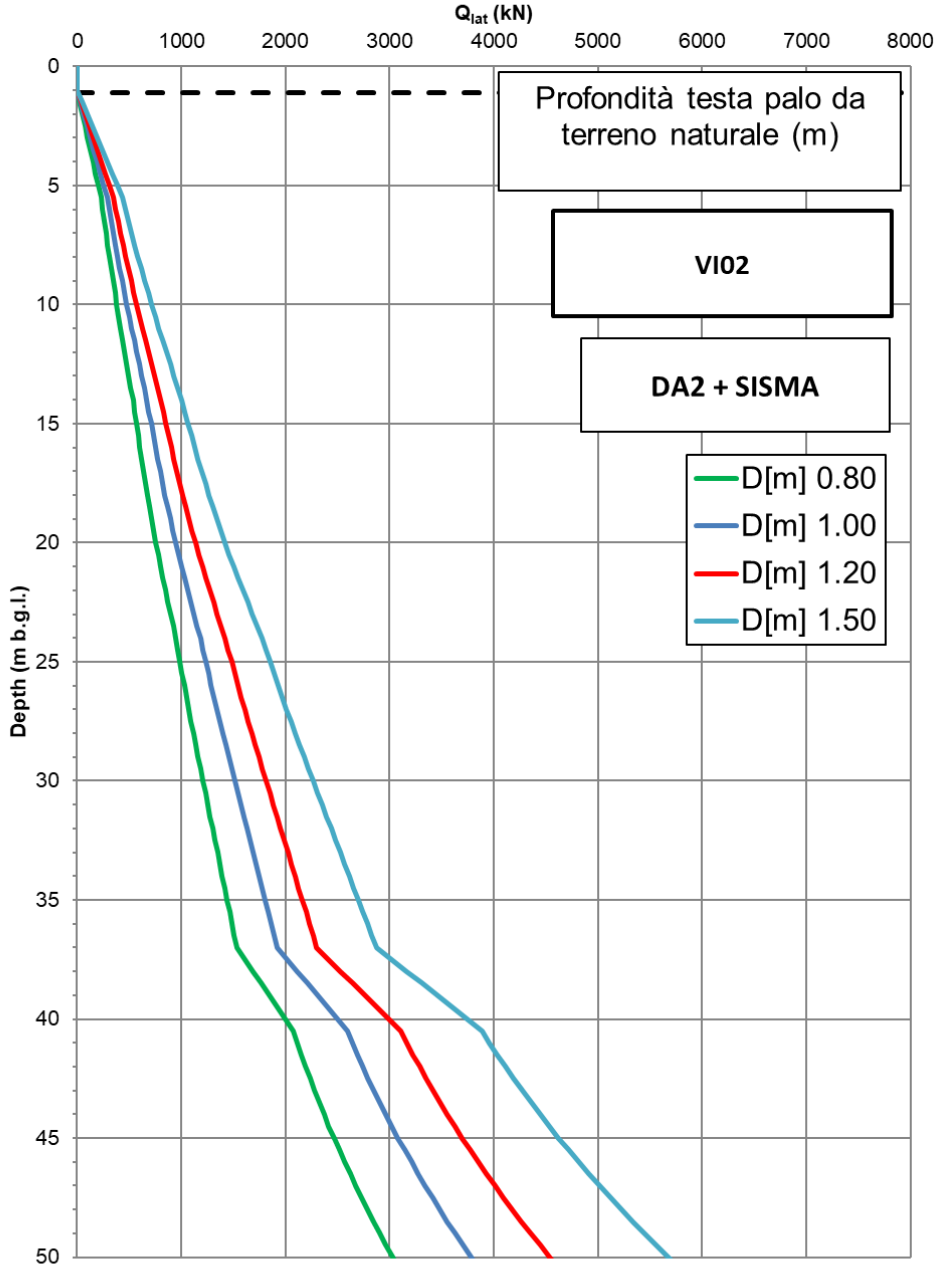


Figura 5.3: VI02 - Contributo di resistenza laterale (SLU) DA2 + SISMA

VELOCIZZAZIONE DELLA LINEA ROMA-PESCARA – RADDOPPIO PESCARA PORTA NUOVA – CHIETI – LOTTO 1

Capacità portante di base

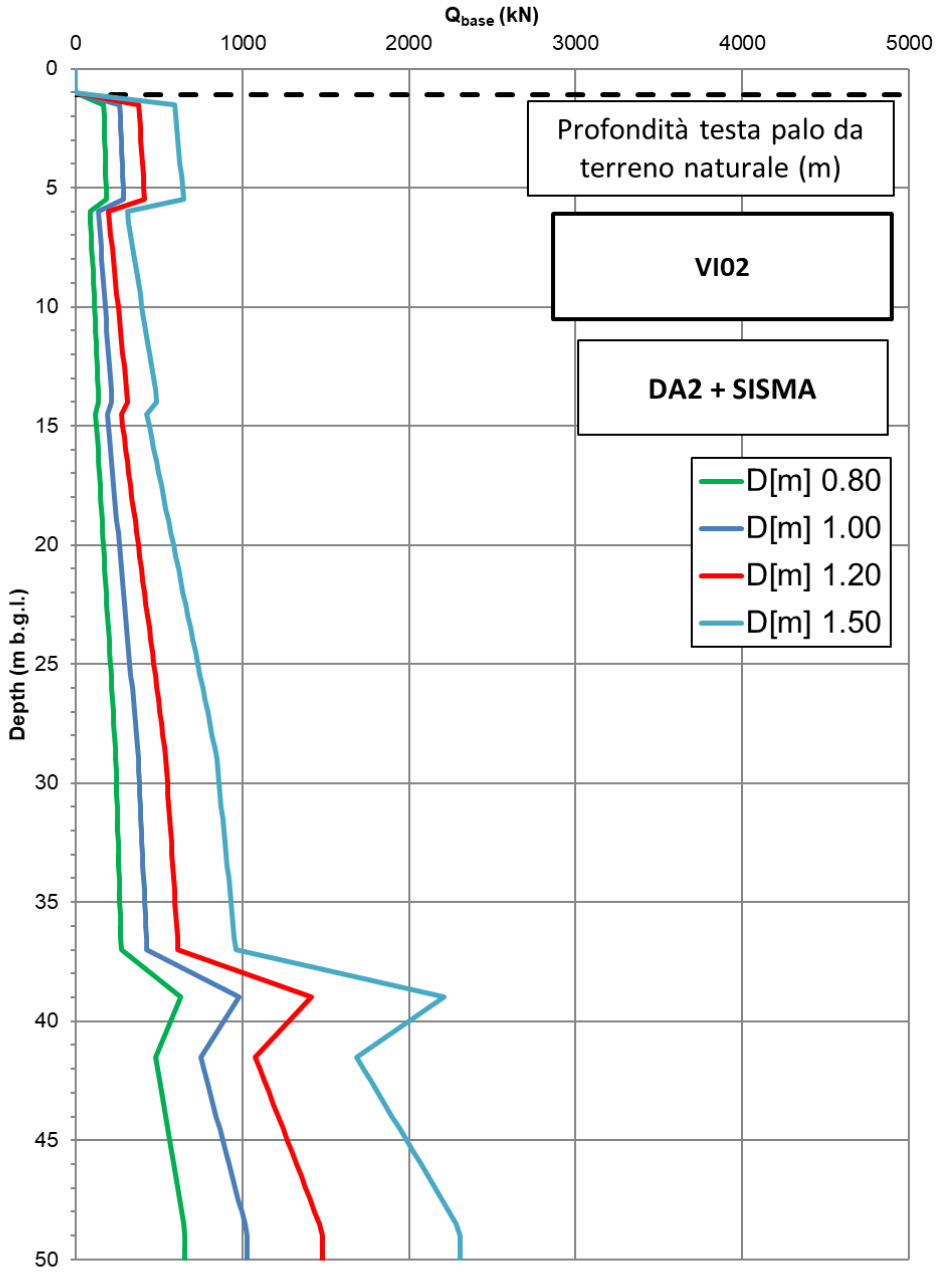


Figura 5.4: VI02 - Contributo di portata di base (SLU) DA2 + SISMA

VELOCIZZAZIONE DELLA LINEA ROMA-PESCARA – RADDOPPIO PESCARA PORTA NUOVA – CHIETI – LOTTO 1

Capacità portante laterale caratteristica

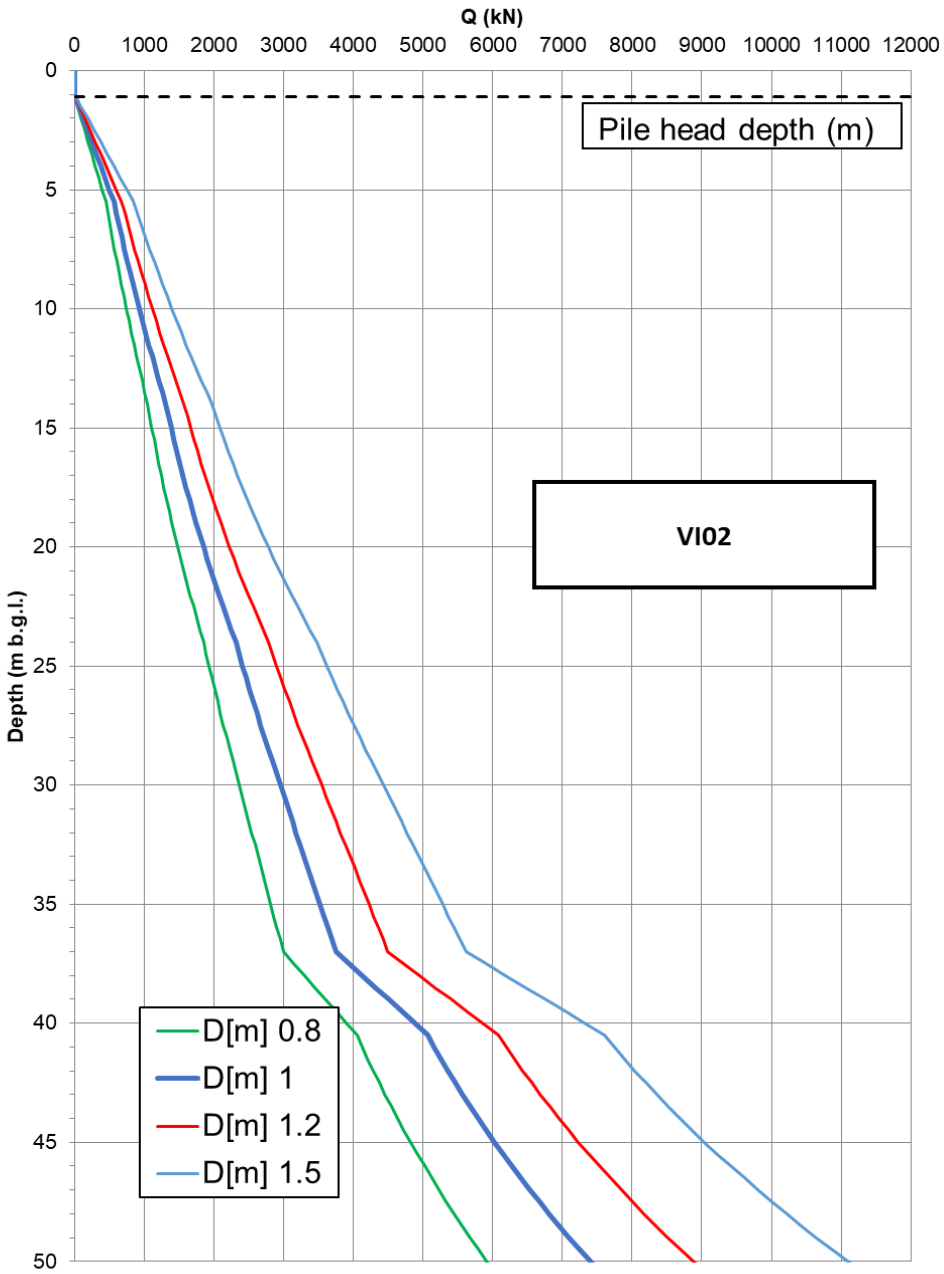


Figura 5.5: VI02 - Curve di resistenza laterale caratteristica

5.2.3 Curve carico-cedimento palo singolo

In accordo alla procedura descritta al precedente punto 4.2.1, utilizzando il metodo delle curve di trasferimento mediante l'ausilio del codice di calcolo TZ-Pile ver. 2014.3.2, si è calcolata la curva carico-cedimento per i pali del VI02. Nelle valutazioni sono state considerate, per ciascun diametro di palo, tre lunghezze di riferimento pari a 20 m, 25 m e 35 m.

Nella Figura 5.6 si riporta la curva carico-cedimento calcolata per il palo di diametro 800 mm, nella Figura 5.7 per il palo di diametro 1000 mm, nella Figura 5.8 per il palo di diametro 1200 mm e nella Figura 5.9 per il palo di diametro 1500 mm.

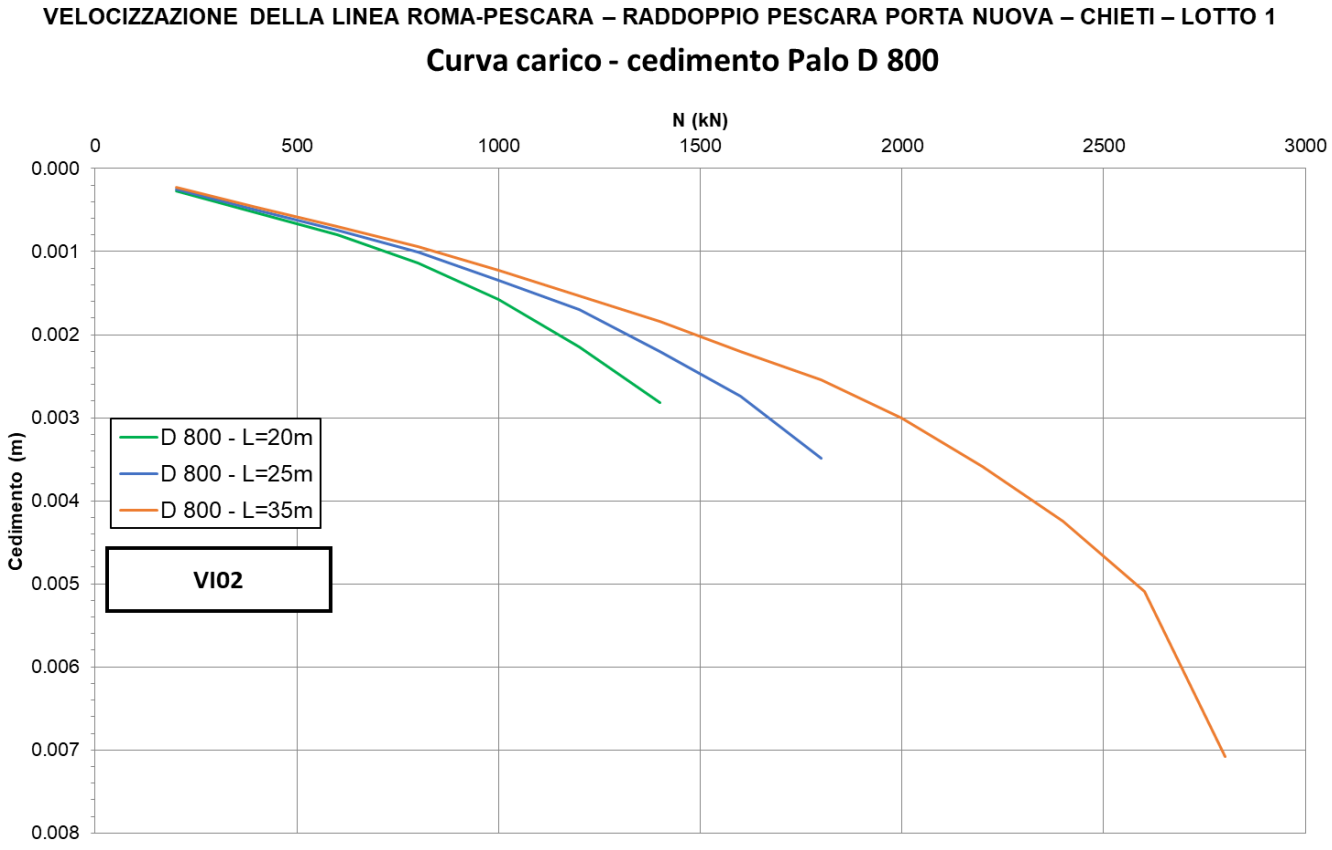


Figura 5.6: VI02 - Curva carico cedimento – D800

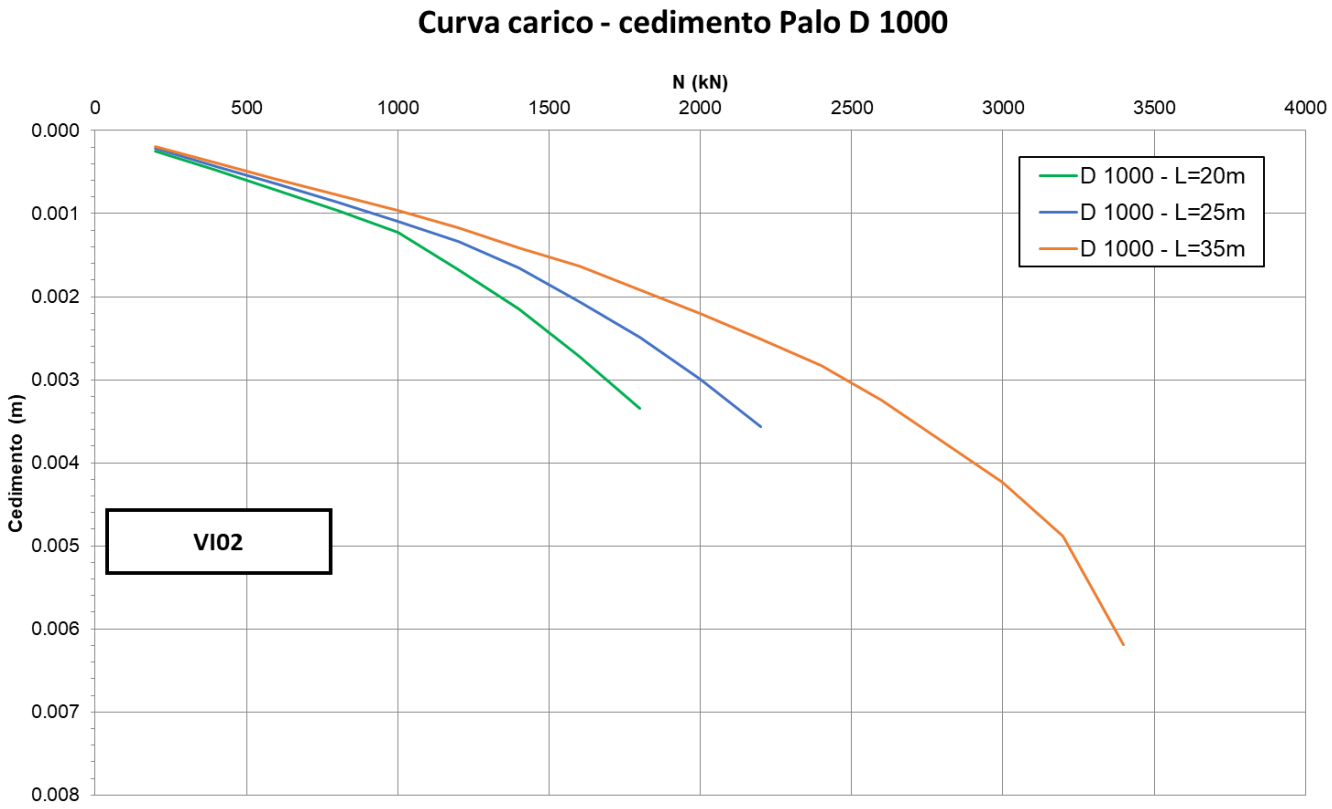


Figura 5.7: VI02 - Curva carico cedimento – D1000

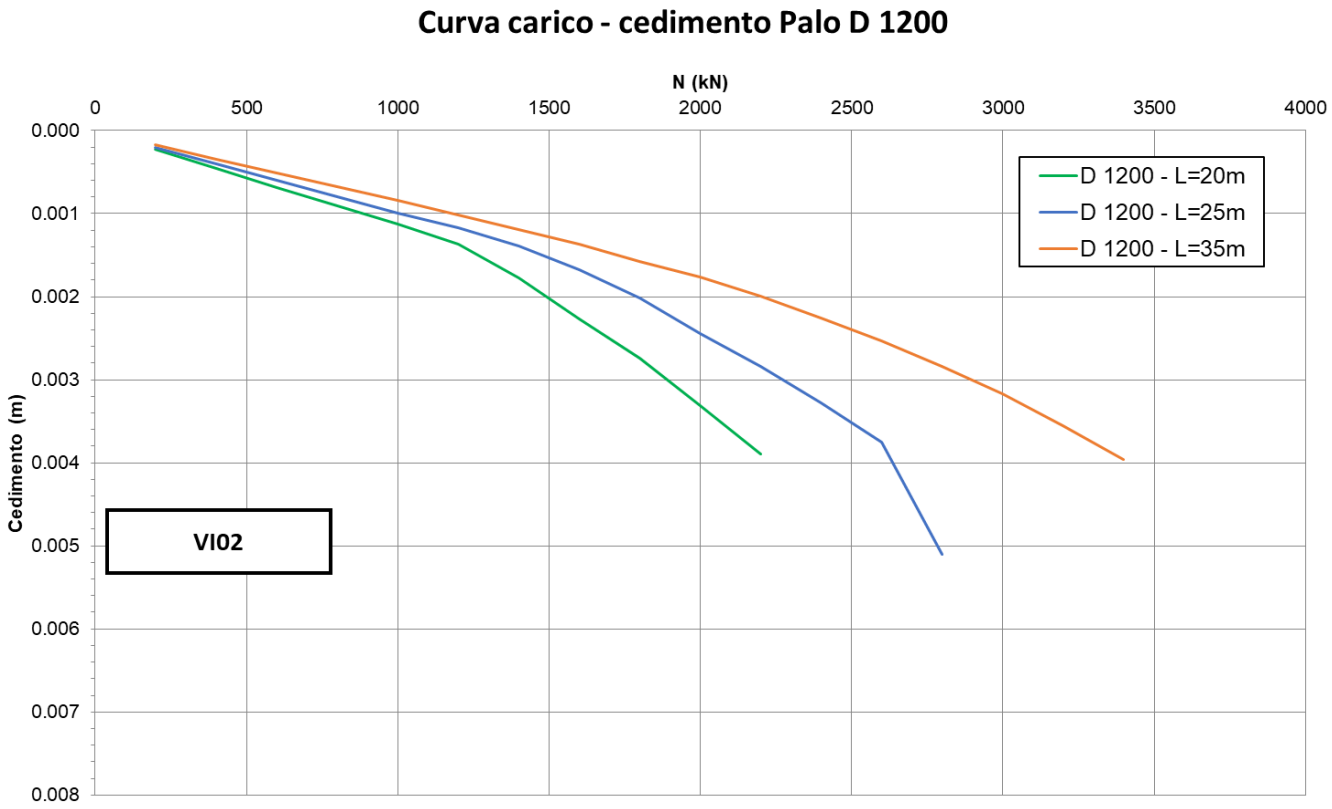


Figura 5.8: VI02 - Curva carico cedimento – D1200

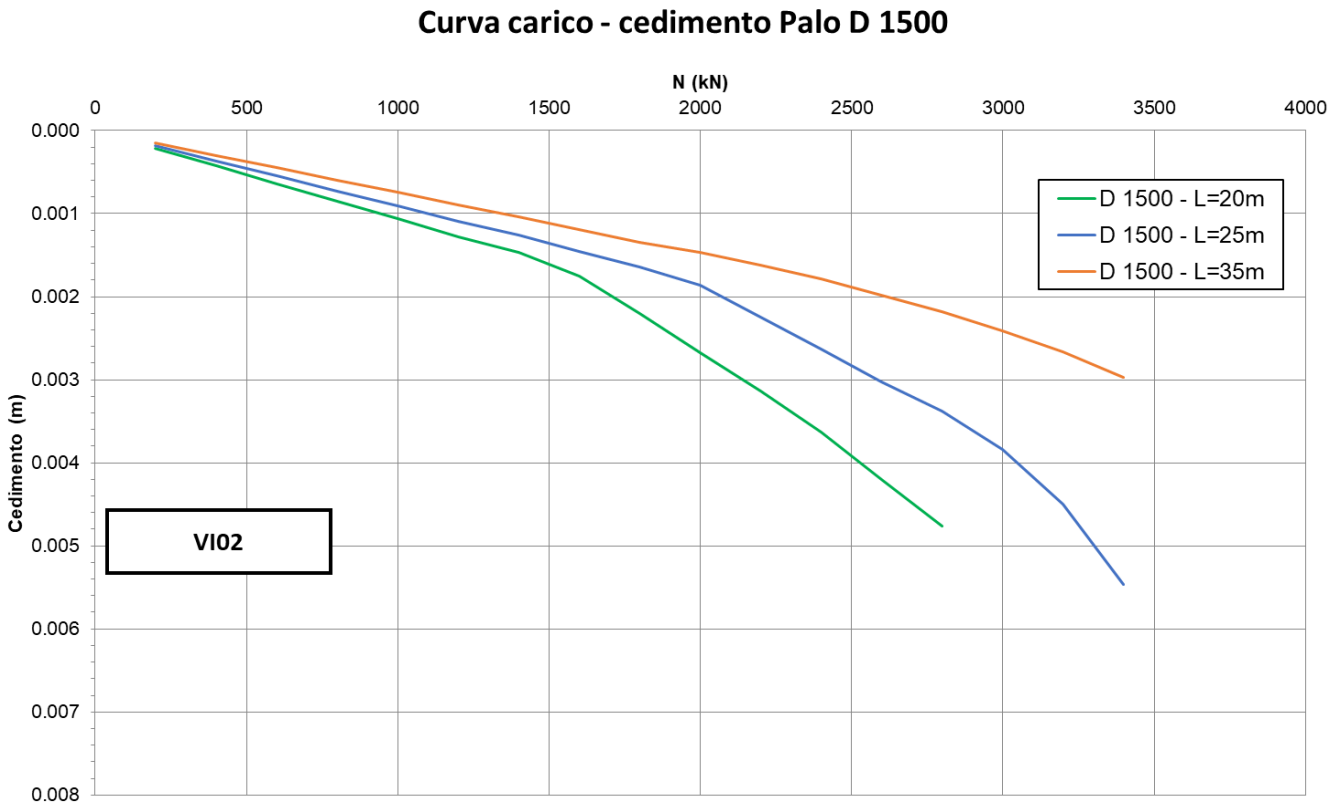


Figura 5.9: VI02 - Curva carico cedimento – D1500

5.2.4 Comportamento del palo singolo soggetto a carico orizzontale

Come meglio specificato al precedente capitolo 4.3, lo studio dell'interazione palo-terreno sotto carichi orizzontali è stata condotta utilizzando il metodo delle curve di trasferimento mediante l'ausilio del codice di calcolo L-Pile ver. 2016.9.09.

In particolare, i calcoli sono stati eseguiti considerando, per tutti i diametri di palo selezionati, una lunghezza di palo pari a 20 m. Tuttavia considerato che il comportamento del palo soggetto a carichi orizzontali dipende solamente dalle caratteristiche degli strati di terreno fino a profondità pari a 10÷12 volte il diametro del palo stesso, i risultati possono essere estesi a lunghezze di palo maggiori di quelle analizzate.

Nelle analisi la connessione della testa palo alla fondazione è stata considerata a "testa incernierata".

Nella Figura 5.10 si riporta la curva carico-cedimento calcolata per i pali di diametro 800 mm, 1000 mm, 1200 mm e 1500 mm.

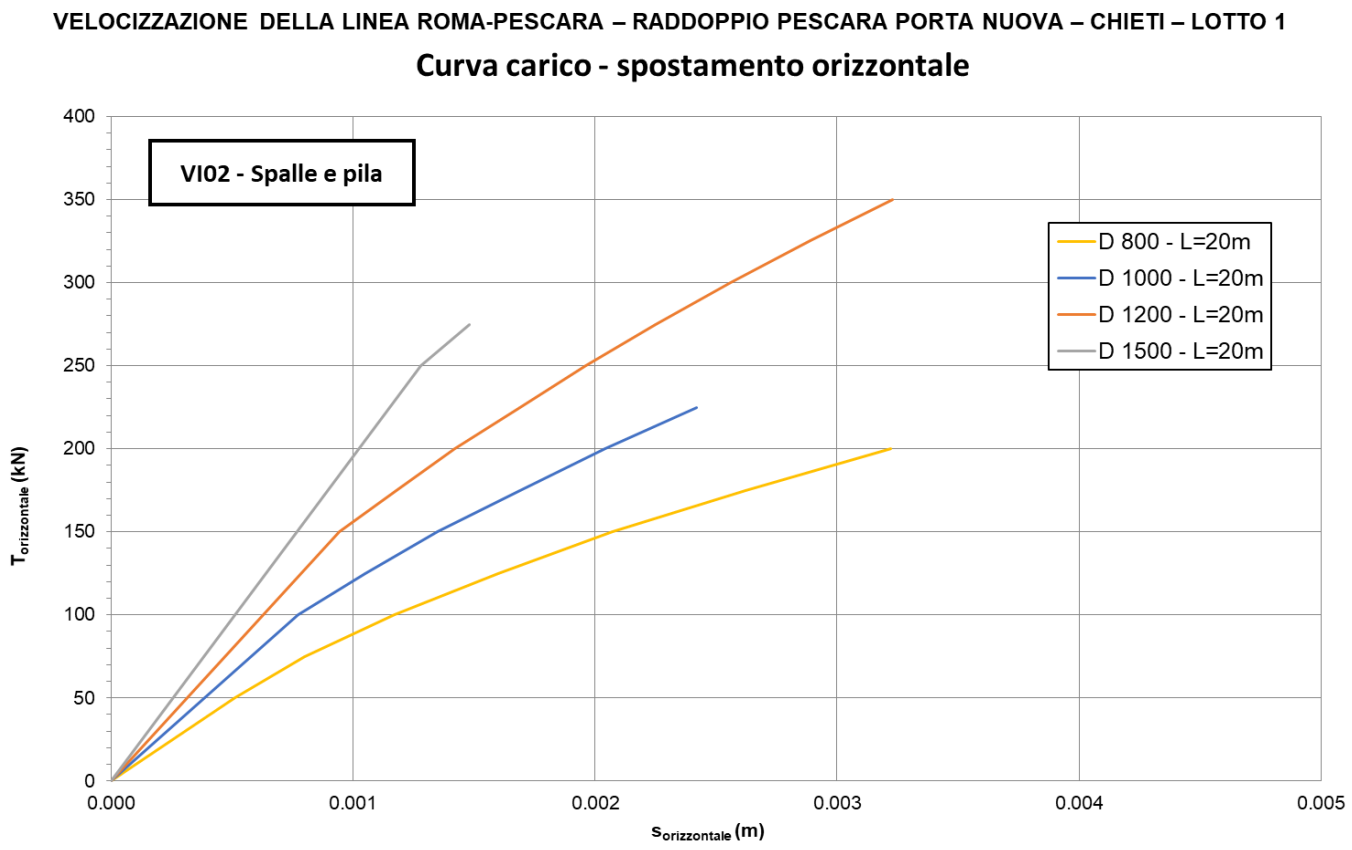


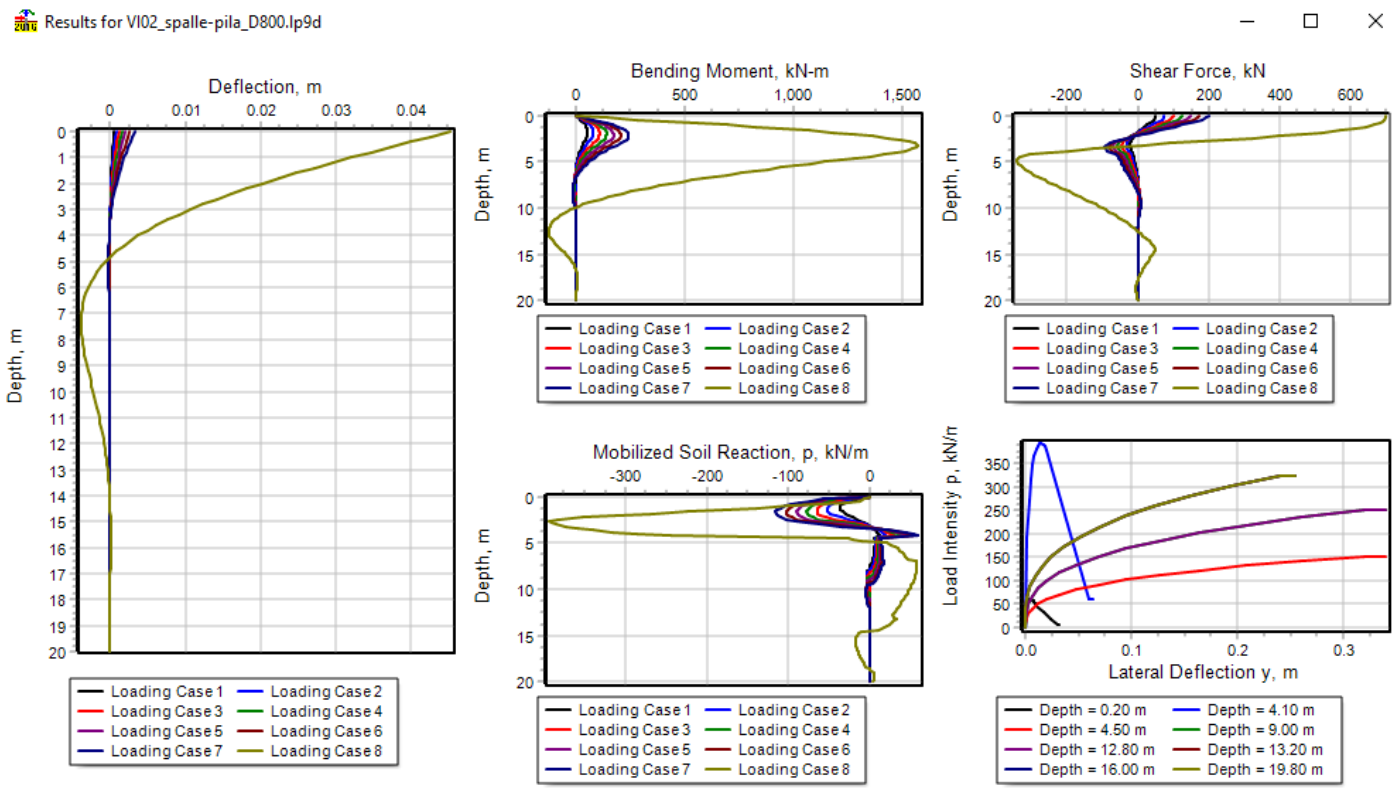
Figura 5.10: VI02 - Curva carico – spostamento orizzontale

Nell'Allegato A sono riportati i dati delle curve p-y selezionate per modellare l'interazione palo-terreno rispetto ai carichi orizzontali.

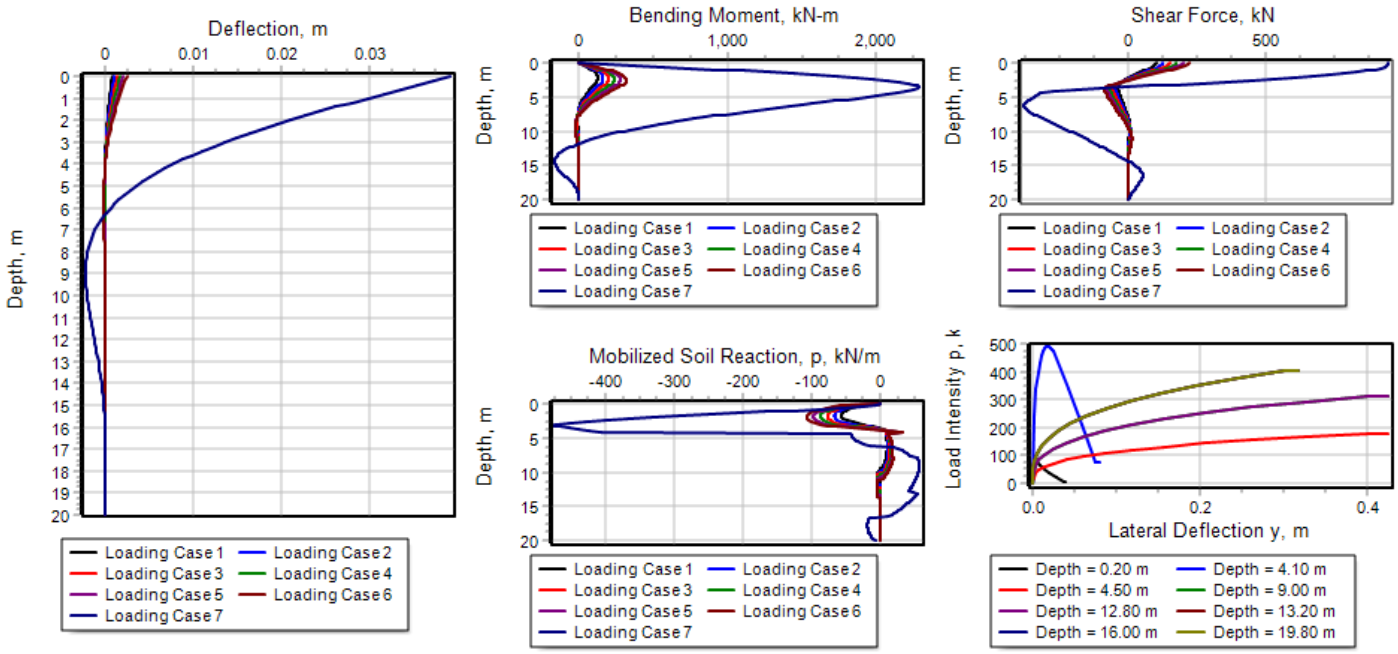
Per quanto riguarda la resistenza di progetto ai carichi orizzontali è stato valutato di adottare conservativamente il valore del carico trasversale, definito con il codice di calcolo L-Pile, in

corrispondenza del quale si ha la prima insorgenza di plasticizzazione nel terreno circostante il palo o comunque uno spostamento rilevante della testa palo, come si può vedere dai grafici sotto riportati nella parte dedicata alla resistenza del terreno mobilitata. I valori ottenuti per i diversi diametri sono i seguenti:

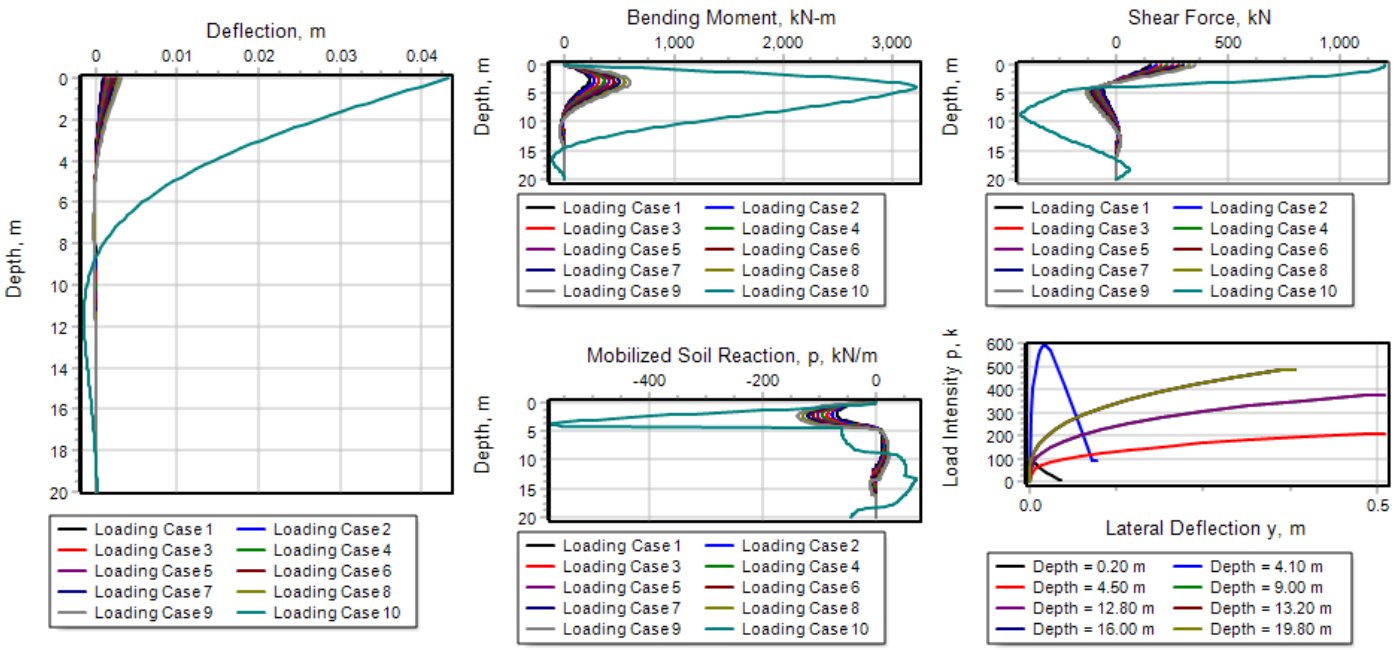
- D800 mm – T = 700 kN
- D1000 mm – T = 950 kN
- D1200 mm – T = 1200 kN
- D1500 mm – T = 1500 kN

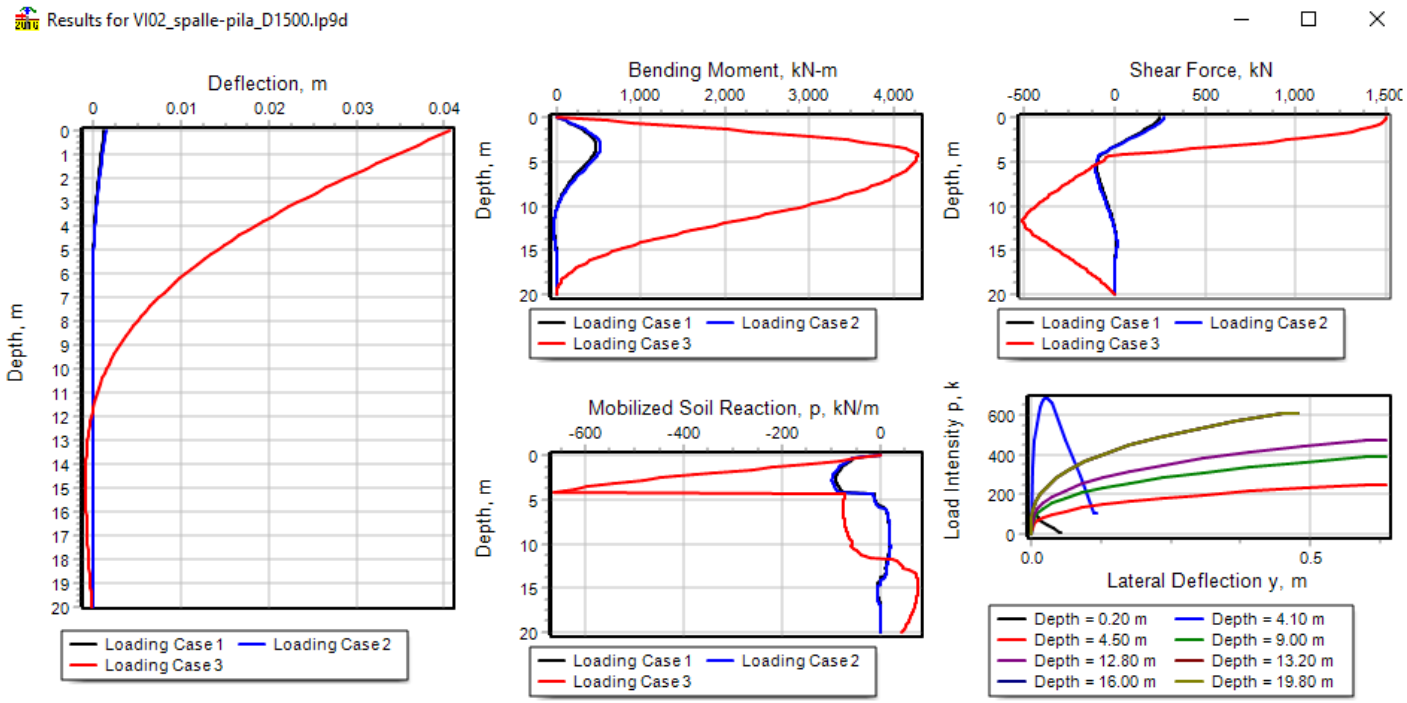


Results for VI02_spalle-pila_D1000.lp9d



Results for VI02_spalle-pila_D1200.lp9d





Da cui, applicando il fattore parziale γ_r = 1.3 si ottengono i seguenti valori di $R_{tr,d}$:

- D800 mm – $R_{tr,d}$ = 538 kN
- D1000 mm – $R_{tr,d}$ = 730 kN
- D1200 mm – $R_{tr,d}$ = 923 kN
- D1500 mm – $R_{tr,d}$ = 1153 kN

5.3 VI03 – Ponte su Via San Donato 2 – km 0+458

5.3.1 Inquadramento geotecnico

In accordo a quanto riportato nella Relazione Geotecnica (Doc. rif. [1]), nella successiva Tabella 5.3 è riportata la stratigrafia di riferimento utilizzata per la definizione delle curve di resistenza. Nella successiva Tabella 5.4 sono invece riportati i parametri geotecnici di calcolo associati alla suddetta stratigrafia.

La stratigrafia è derivata dai profili geotecnici della linea ferroviaria e delle viabilità stradali a cui si rimanda per i dettagli (da doc [2] a doc [6]).

Tabella 5.3: Stratigrafia di calcolo VI03

Strato	Profondità media da [m s.l.m.]	Profondità media a [m s.l.m.]
Riporto antr.	2.4	1.1
A,L1	1.1	-3.5
A,L2	-3.5	-11.1
L,A2	-11.1	-23.8
L,A1	-23.8	-36.5
G,S	-36.5	-40
M	-40	

Tabella 5.4: Parametri geotecnici di calcolo VI03 – Materiali in sito

UNITA'		Parametri di resistenza		
	γ_v	φ'	c'	c_u
	[kN/m^3]	[°]	[kPa]	[kPa]
A,L1	18	22	10	80-100
A,L2	17.5	20.5	5	30-40
L,A2	19	27	0	30-60
L,A1	18.5	23.5	12	60
G,S	19	36	0	-
M	21	26	20	150-400

Nelle valutazioni è stata considerata una quota testa palo a 0.10 m s.l.m. e una quota della falda a +0.80 m s.l.m..

Nel calcolo si è tenuto conto anche del riempimento (riporto antropico) che dagli elaborati di progetto sarà presente nella configurazione definitiva. Tale materiale è stato inserito come peso aggiuntivo, al di sopra del terreno naturale, nelle valutazioni di capacità portante in modo da considerare lo stato tensionale corretto alle diverse profondità.

5.3.2 Curve di portanza palo singolo

Il VI03 è ubicato lungo linea in corrispondenza di un rilevato di altezza significativa per il quale, vista la valutazione di cedimenti attesi, è stato previsto un trattamento con colonne in deep mixing

con funzione di riduzione dei cedimenti. In particolare le colonne, che per il trattamento corrente al di sotto del rilevato hanno una lunghezza di circa 6.5 m, all'approssimarsi del viadotto verranno approfonditi fino a circa 10 m in modo da trattare tutto lo spessore più cedevole e da poter escludere completamente effetti da attrito negativo nel dimensionamento dei pali delle spalle. In questo modo la progettazione dei pali delle spalle e della pila può essere uniformato.

Nelle successive Figura 5.11 e Figura 5.12, in accordo ai criteri descritti al precedente punto 4, sono riportate rispettivamente le curve di capacità portante a compressione e a trazione secondo l'Approccio 2, valide anche per le condizioni sismiche, in Figura 5.13 e Figura 5.14 sono riportati separatamente i contributi di resistenza laterale e di portata di base, sempre in accordo al DA2, e in Figura 5.15 sono riportate le curve di resistenza laterale caratteristica.

Nelle seguenti curve il peso del palo non è stato considerato e deve essere tenuto in conto come carico esterno considerando la differenza tra W_p (Peso del palo) e W_s (Peso del terreno sostituito dal palo), utilizzando sempre il valore del peso di terreno saturo anche sotto falda e non quello sommerso.

I calcoli sono stati condotti per pali di diametro:

- D = 800 mm;
- D = 1000 mm;
- D = 1200 mm;
- D = 1500 mm.

VELOCIZZAZIONE DELLA LINEA ROMA-PESCARA – RADDOPPIO PESCARA PORTA NUOVA – CHIETI – LOTTO 1

Capacità portante a compressione (SLU) [kN]

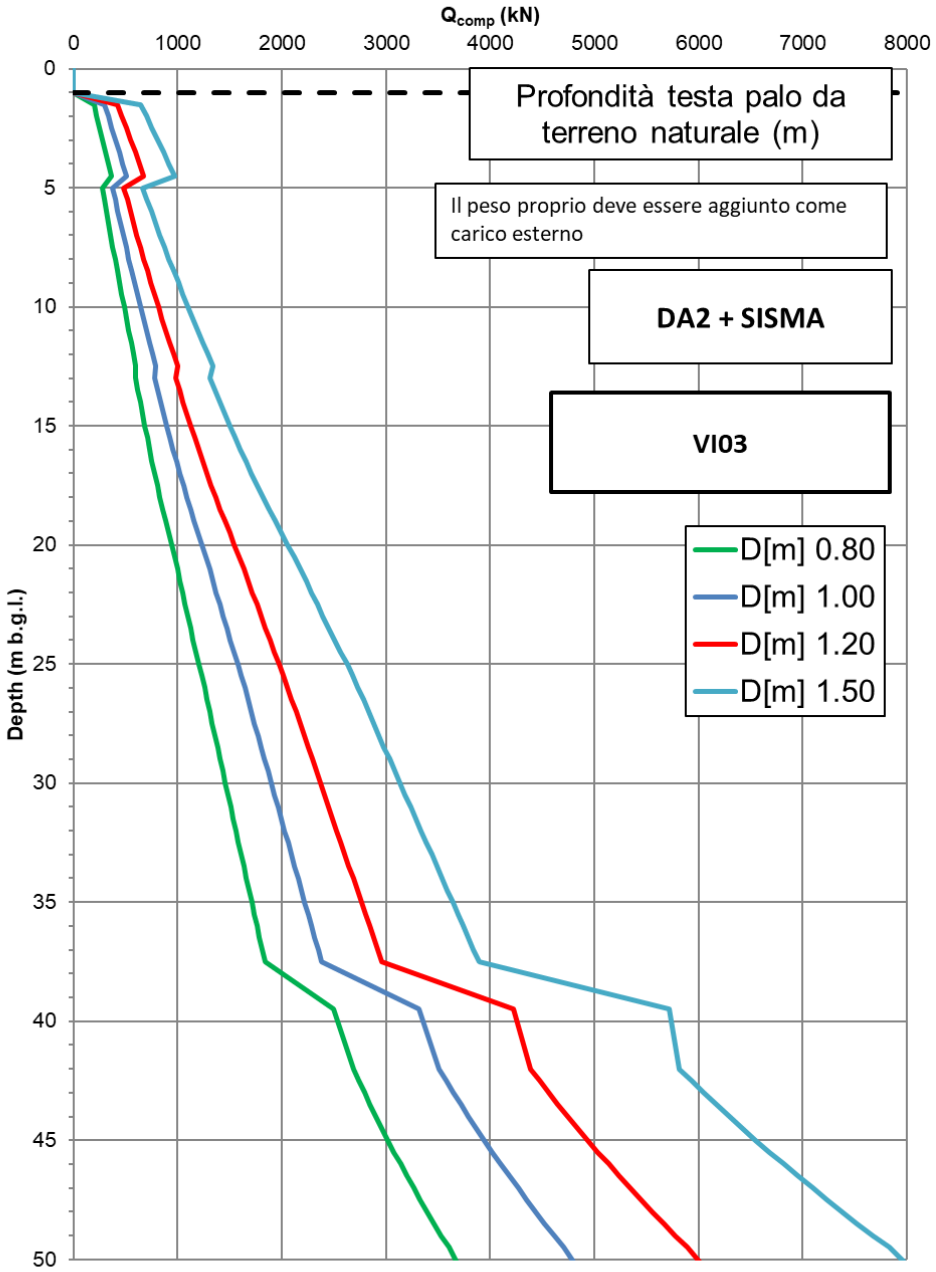


Figura 5.11: VI03 - Curve di capacità portante a compressione (SLU) DA2 + SISMA

VELOCIZZAZIONE DELLA LINEA ROMA-PESCARA – RADDOPPIO PESCARA PORTA NUOVA – CHIETI – LOTTO 1

Capacità portante a trazione (SLU) [kN]

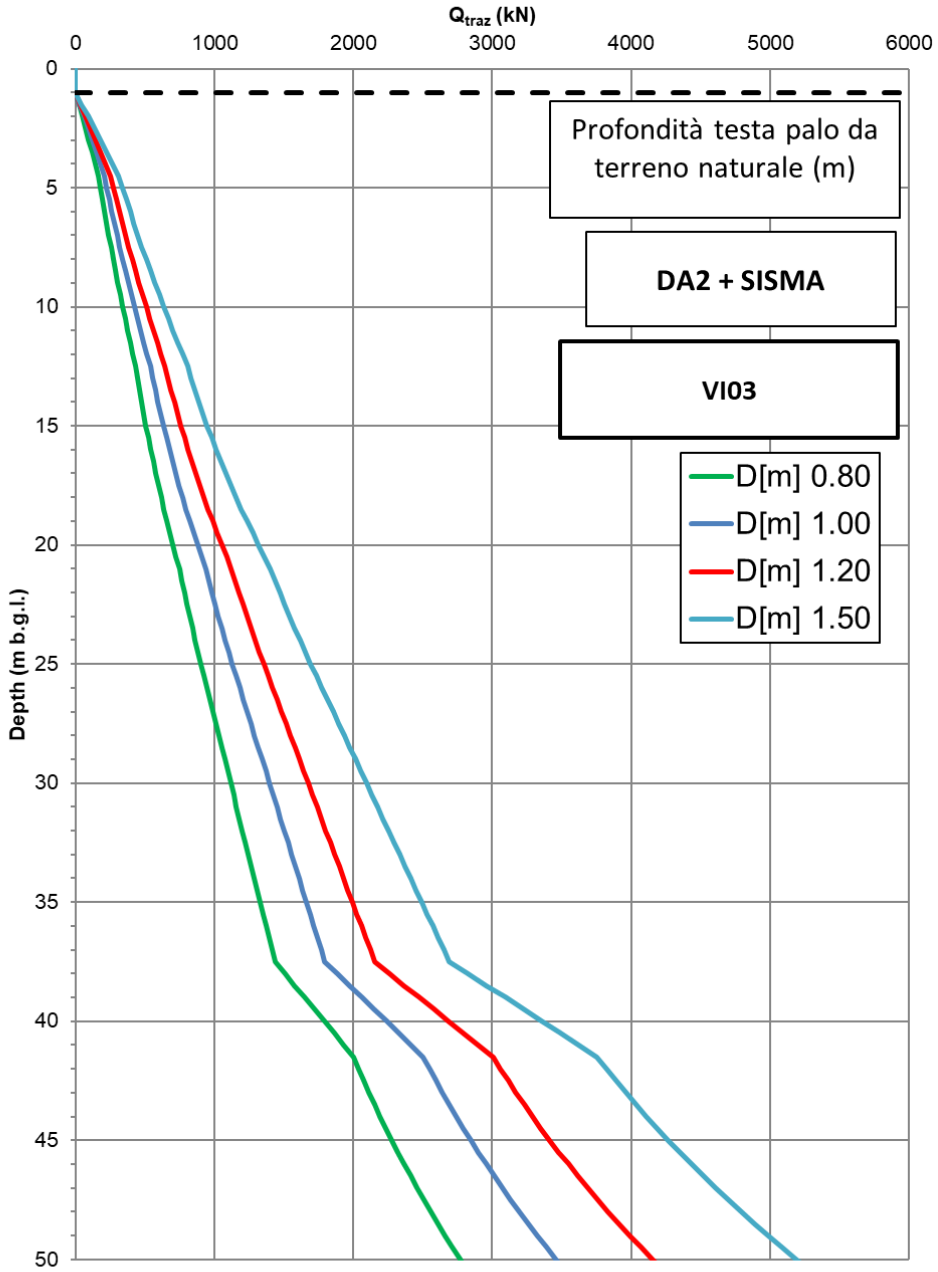


Figura 5.12: VI03 - Curve di capacità portante a trazione (SLU) DA2 + SISMA

VELOCIZZAZIONE DELLA LINEA ROMA-PESCARA – RADDOPPIO PESCARA PORTA NUOVA – CHIETI – LOTTO 1

Capacità portante laterale

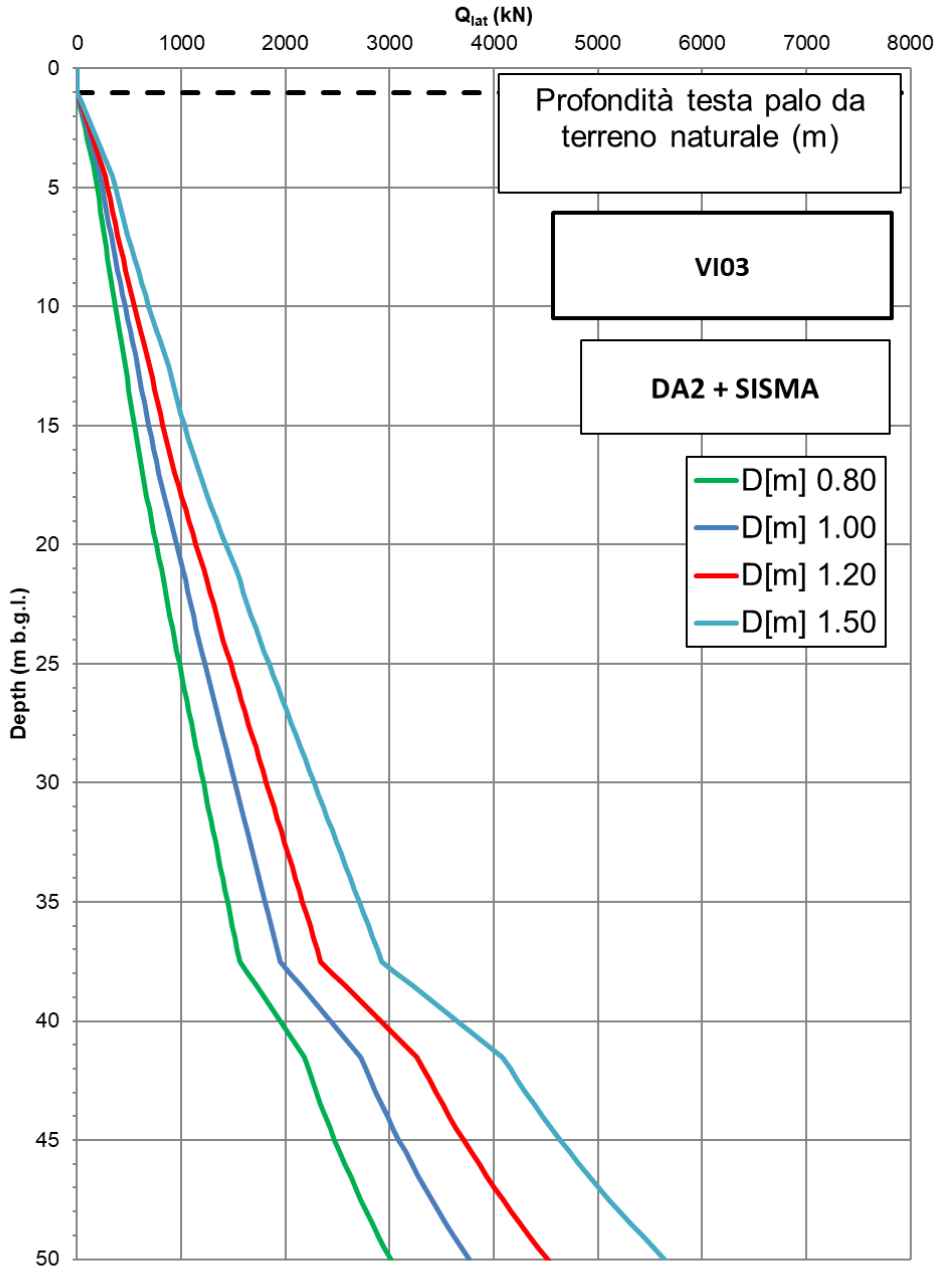


Figura 5.13: VI03 - Contributo di resistenza laterale (SLU) DA2 + SISMA

VELOCIZZAZIONE DELLA LINEA ROMA-PESCARA – RADDOPPIO PESCARA PORTA NUOVA – CHIETI – LOTTO 1

Capacità portante di base

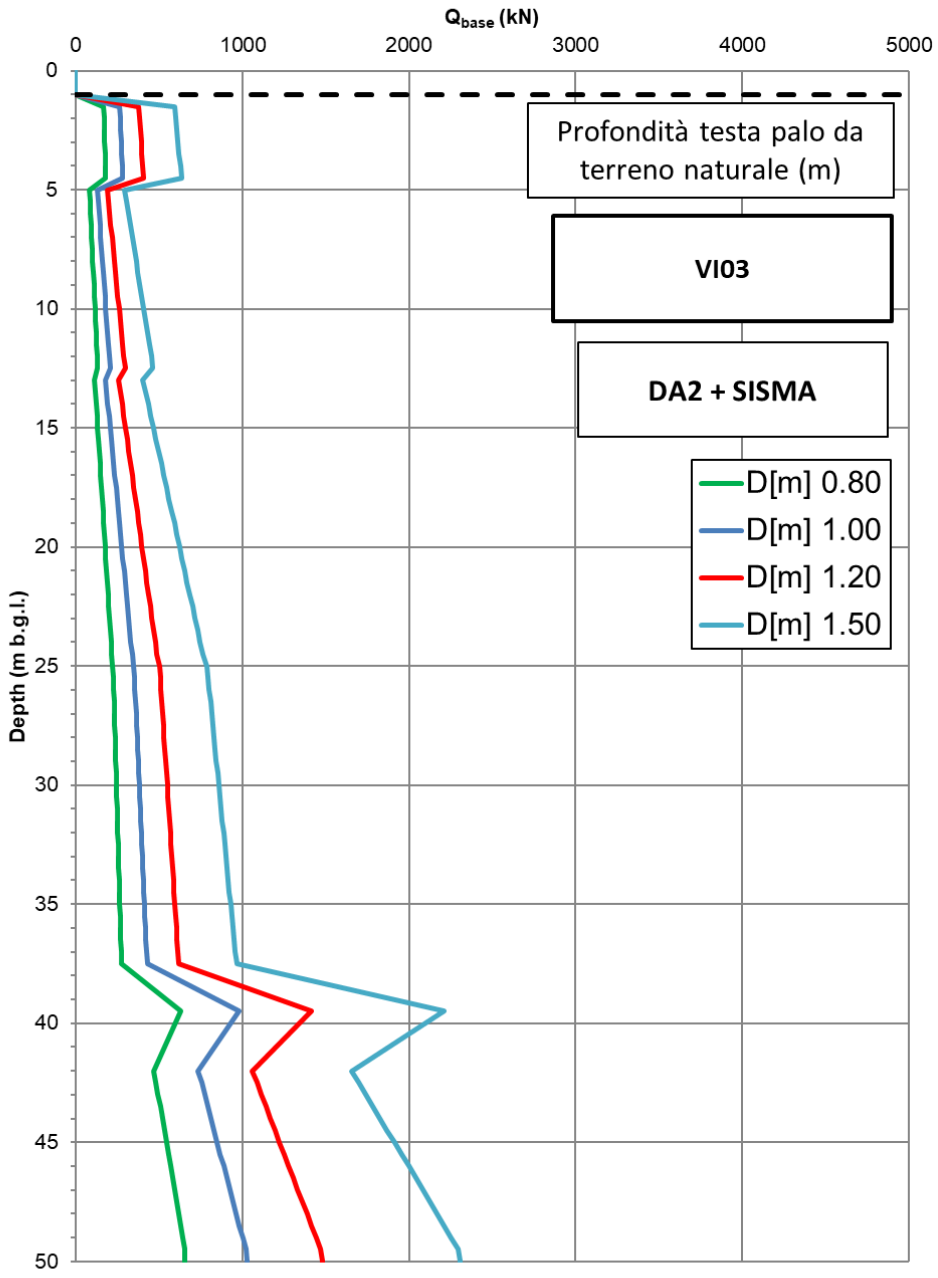


Figura 5.14: VI03 - Contributo di portata di base (SLU) DA2 + SISMA

VELOCIZZAZIONE DELLA LINEA ROMA-PESCARA – RADDOPPIO PESCARA PORTA NUOVA – CHIETI – LOTTO 1

Capacità portante laterale caratteristica

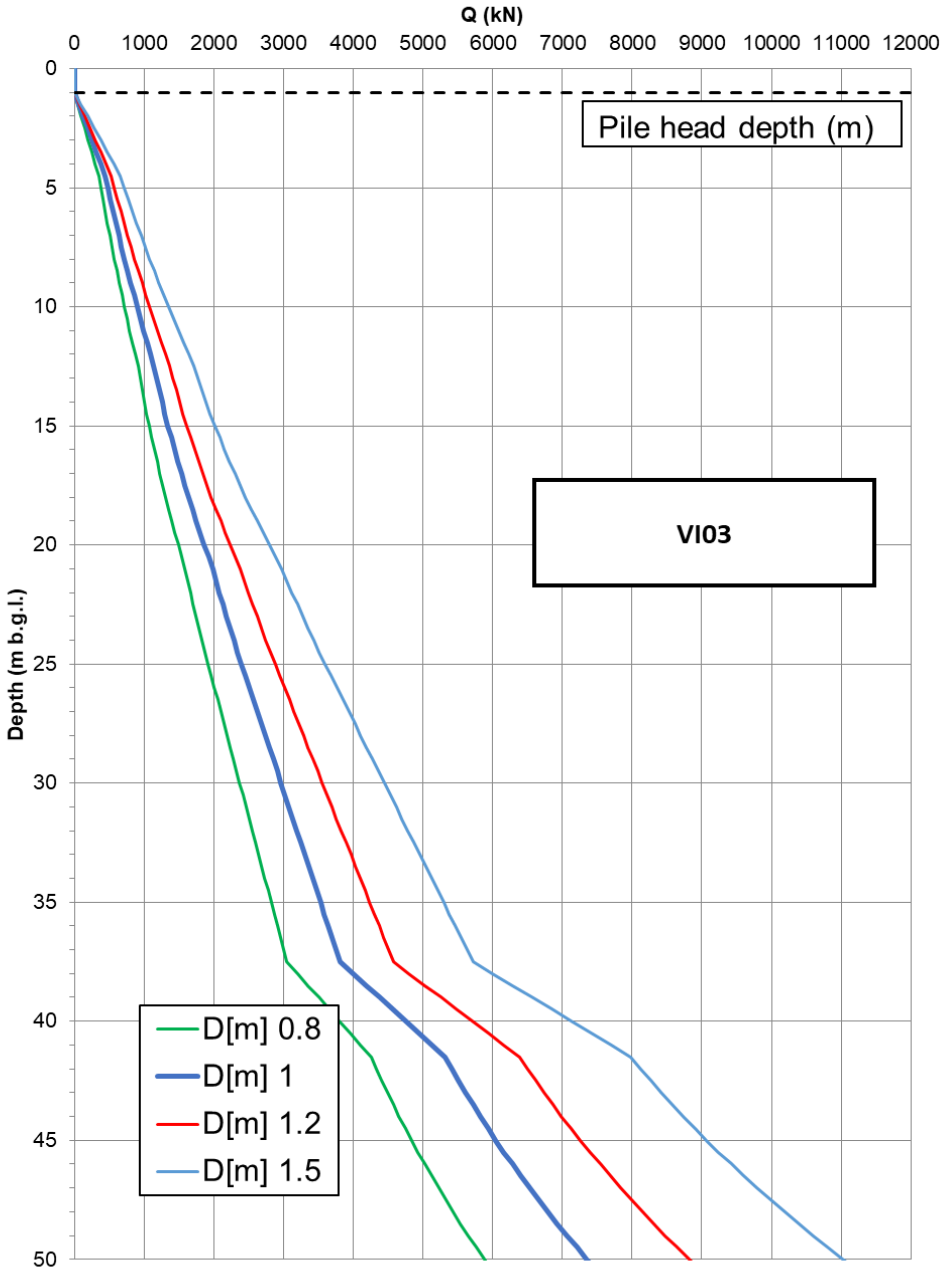


Figura 5.15: VI03 - Curve di resistenza laterale caratteristica

5.3.3 Curve carico-cedimento palo singolo

In accordo alla procedura descritta al precedente punto 4.2.1, utilizzando il metodo delle curve di trasferimento mediante l'ausilio del codice di calcolo TZ-Pile ver. 2014.3.2, si è calcolata la curva carico-cedimento per i pali del VI03. Nelle valutazioni sono state considerate, per ciascun diametro di palo, tre lunghezze di riferimento pari a 20 m, 25 m e 35 m.

Nella Figura 5.16 si riporta la curva carico-cedimento calcolata per il palo di diametro 800 mm, nella Figura 5.17 per il palo di diametro 1000 mm, nella Figura 5.18 per il palo di diametro 1200 mm e nella Figura 5.19 per il palo di diametro 1500 mm.

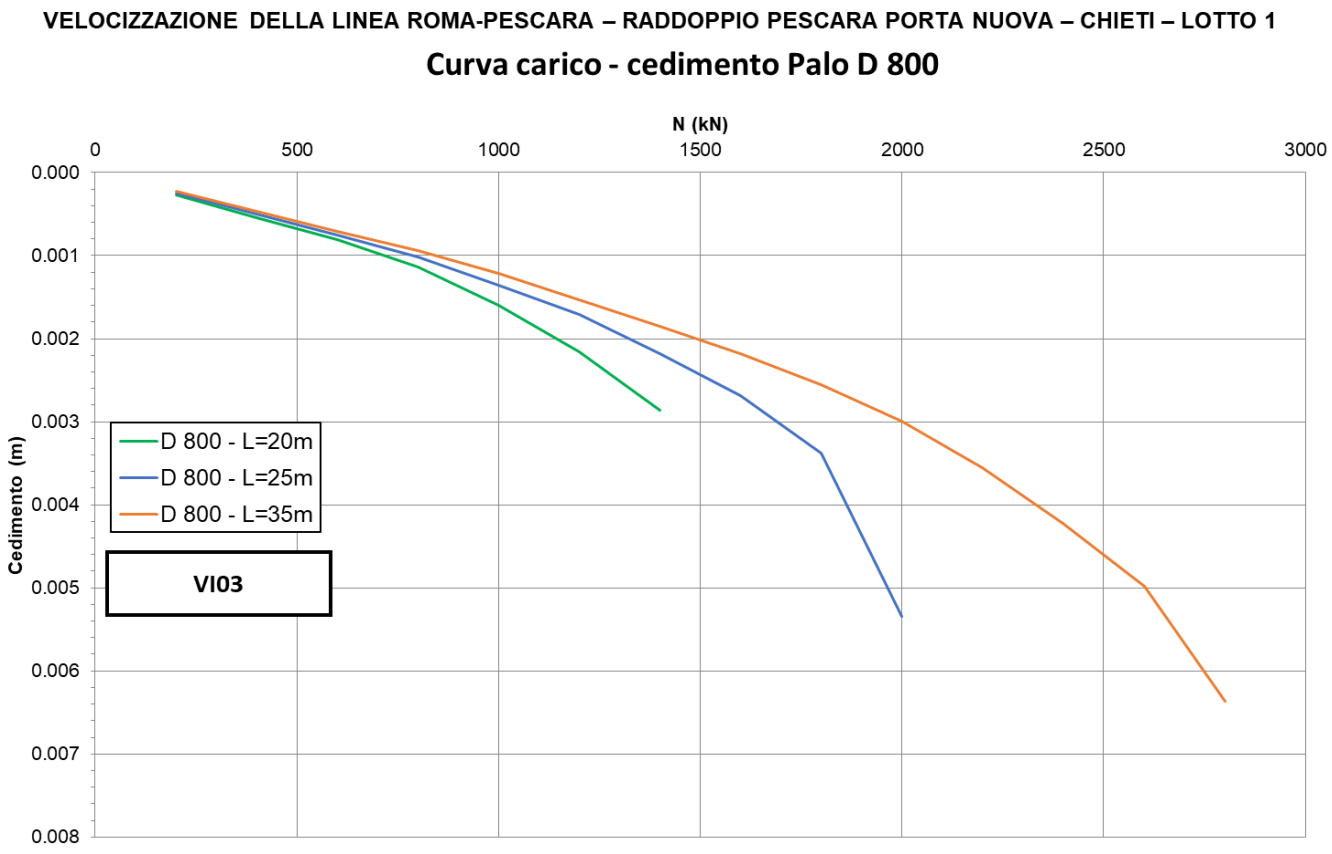


Figura 5.16: VI03 - Curva carico cedimento – D800

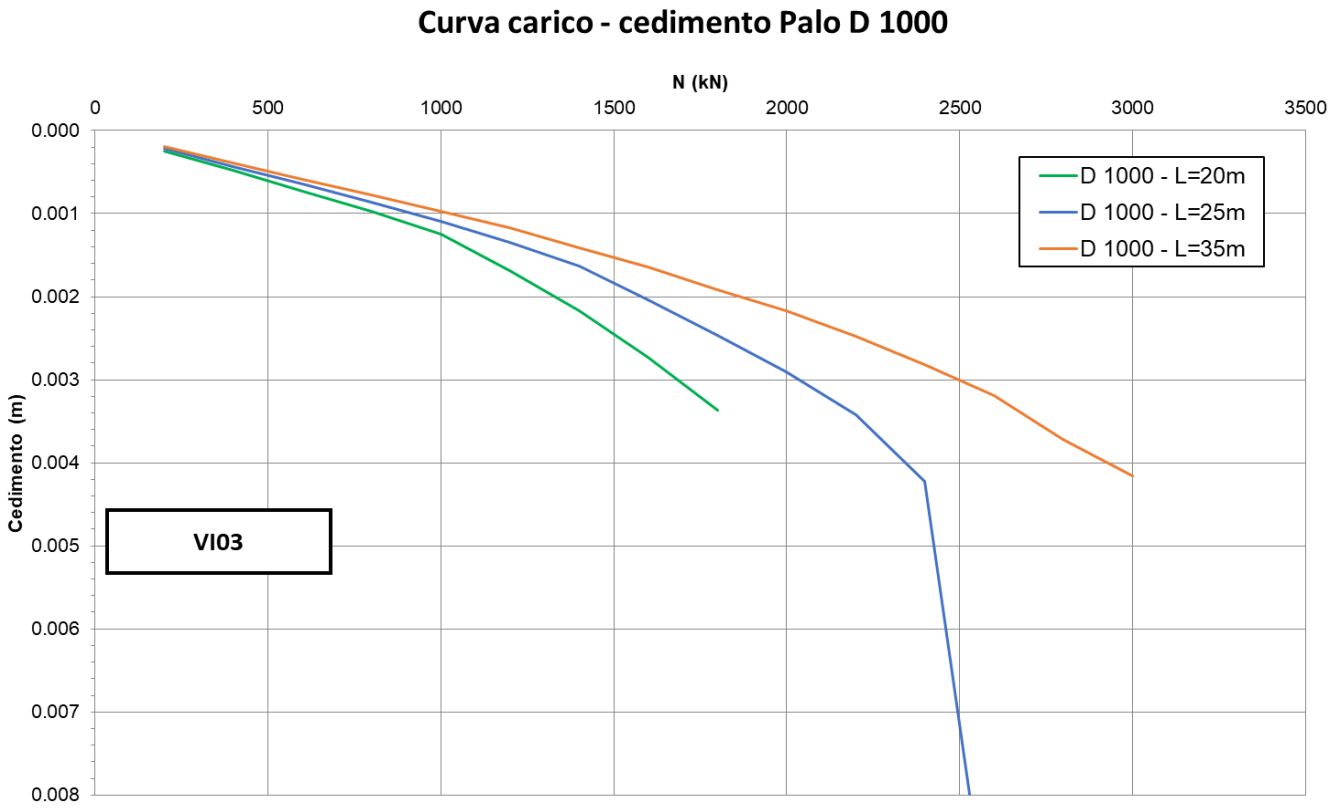


Figura 5.17: VI03 - Curva carico cedimento – D1000

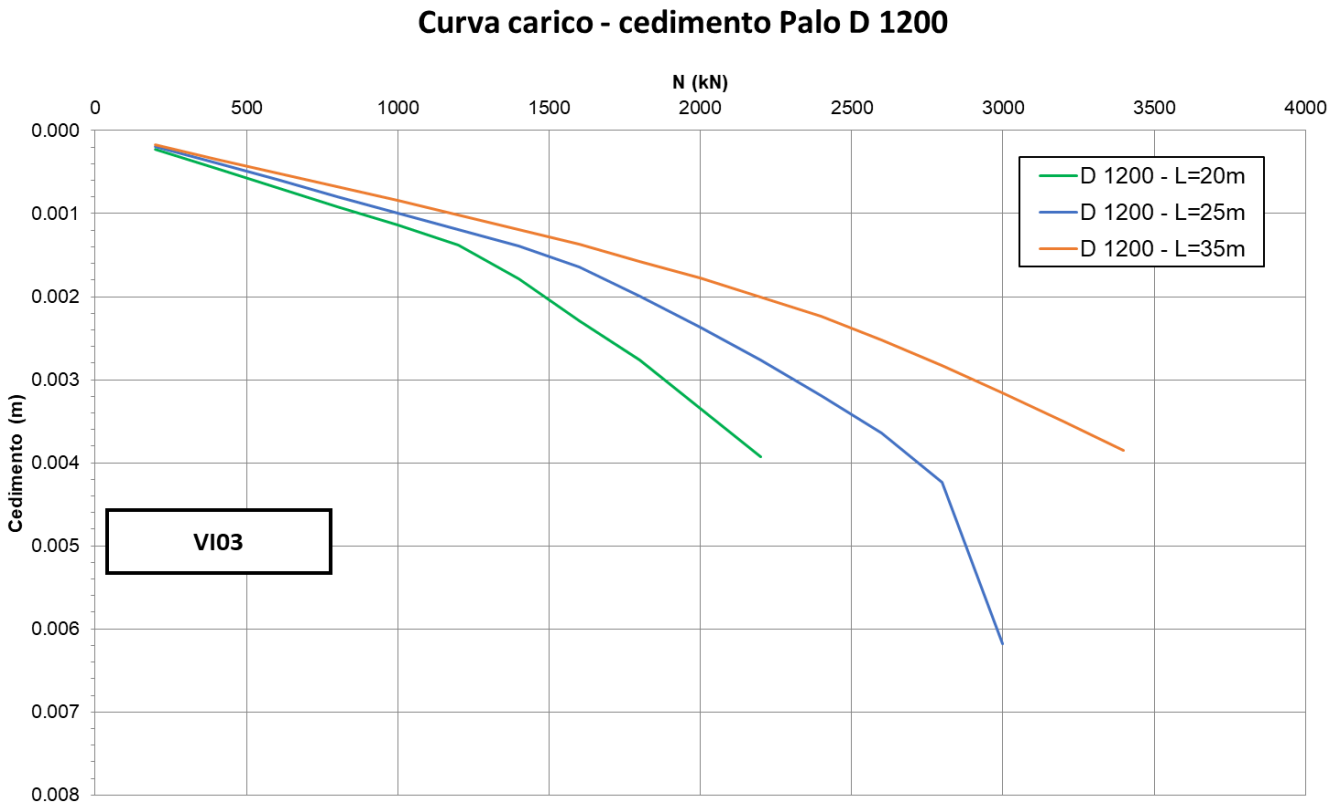


Figura 5.18: VI03 - Curva carico cedimento – D1200

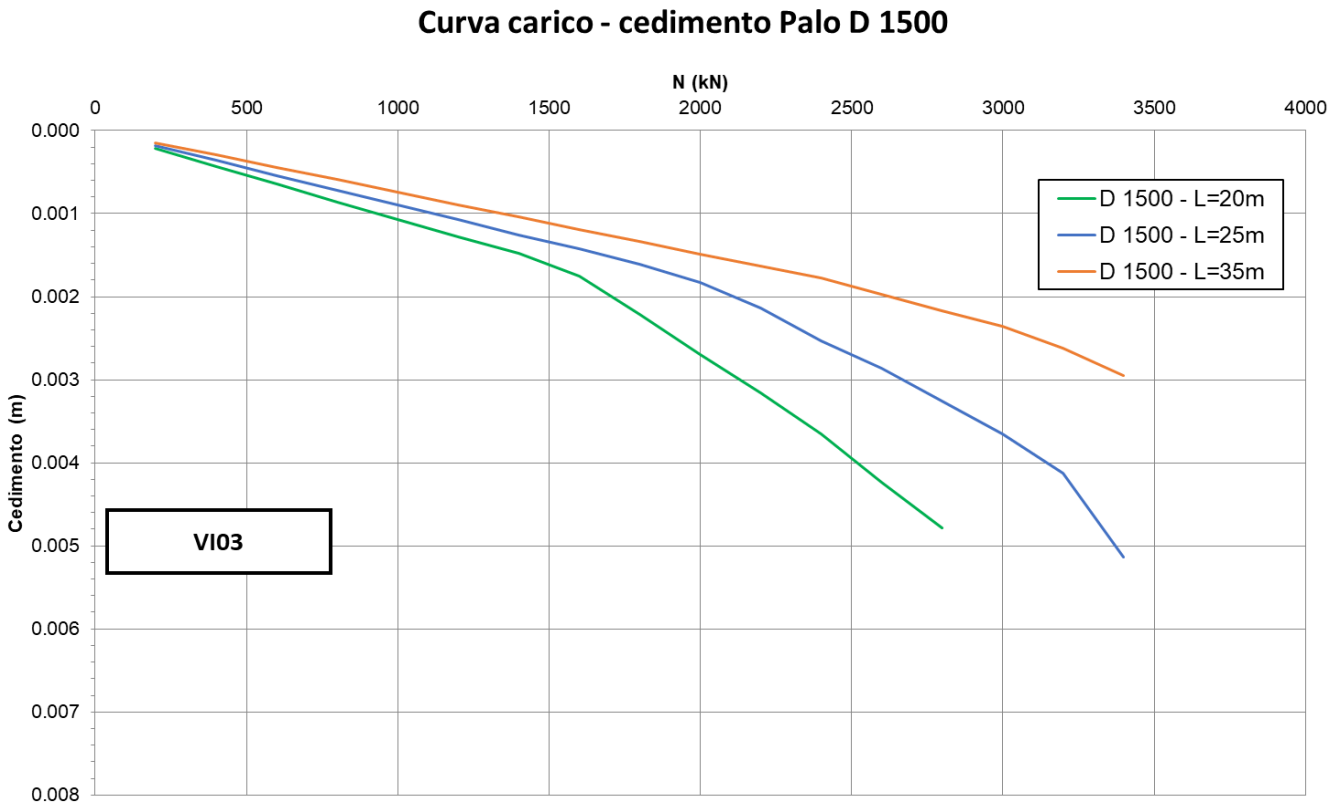


Figura 5.19: VI03 - Curva carico cedimento – D1500

5.3.4 Comportamento del palo singolo soggetto a carico orizzontale

Come meglio specificato al precedente capitolo 4.3, lo studio dell'interazione palo-terreno sotto carichi orizzontali è stata condotta utilizzando il metodo delle curve di trasferimento mediante l'ausilio del codice di calcolo L-Pile ver. 2016.9.09.

In particolare, i calcoli sono stati eseguiti considerando, per tutti i diametri di palo selezionati, una lunghezza di palo pari a 20 m. Tuttavia considerato che il comportamento del palo soggetto a carichi orizzontali dipende solamente dalle caratteristiche degli strati di terreno fino a profondità pari a 10÷12 volte il diametro del palo stesso, i risultati possono essere estesi a lunghezze di palo maggiori di quelle analizzate.

Nelle analisi la connessione della testa palo alla fondazione è stata considerata a "testa incernierata".

Nella Figura 5.20 si riporta la curva carico-cedimento calcolata per i pali di diametro 800 mm, 1000 mm, 1200 mm e 1500 mm.

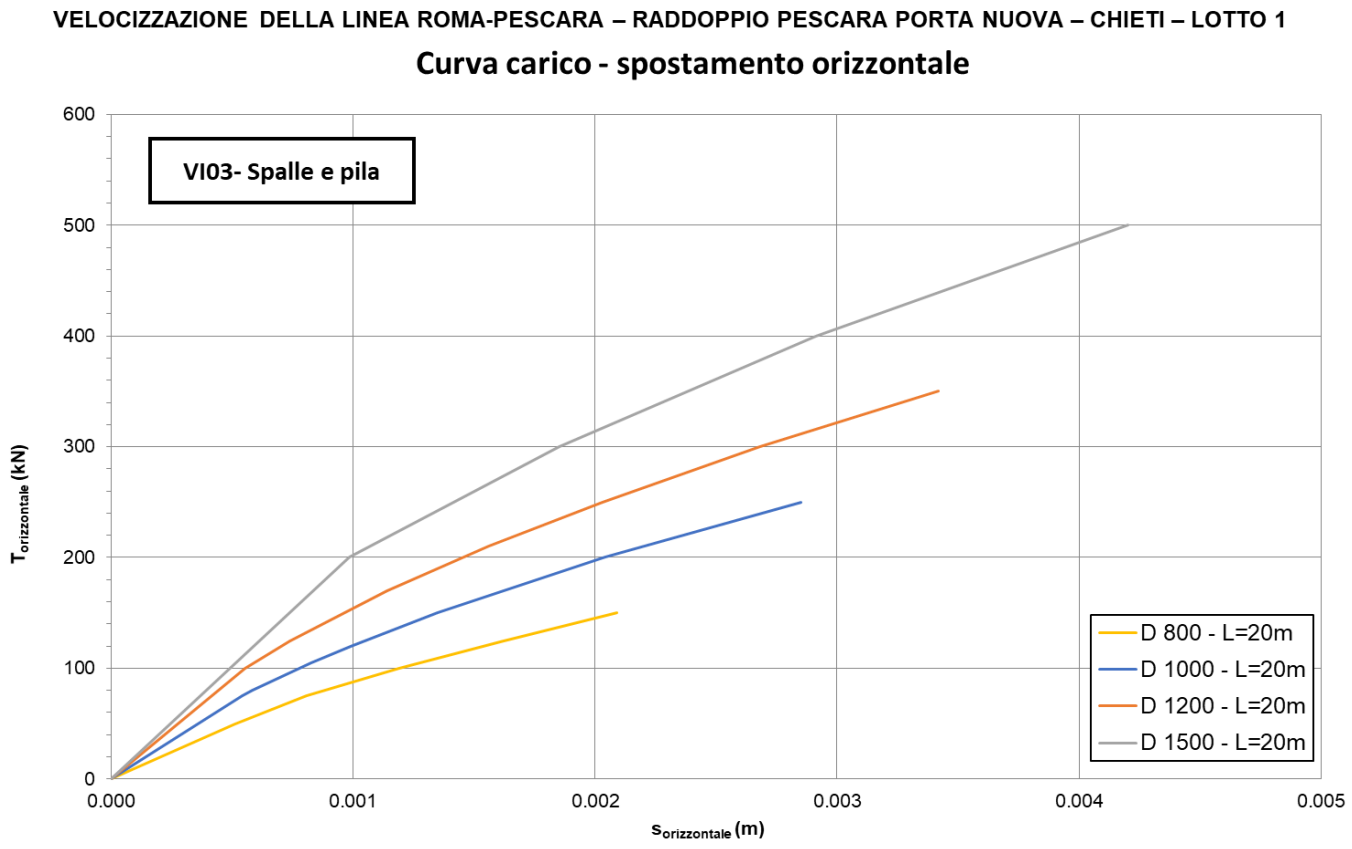
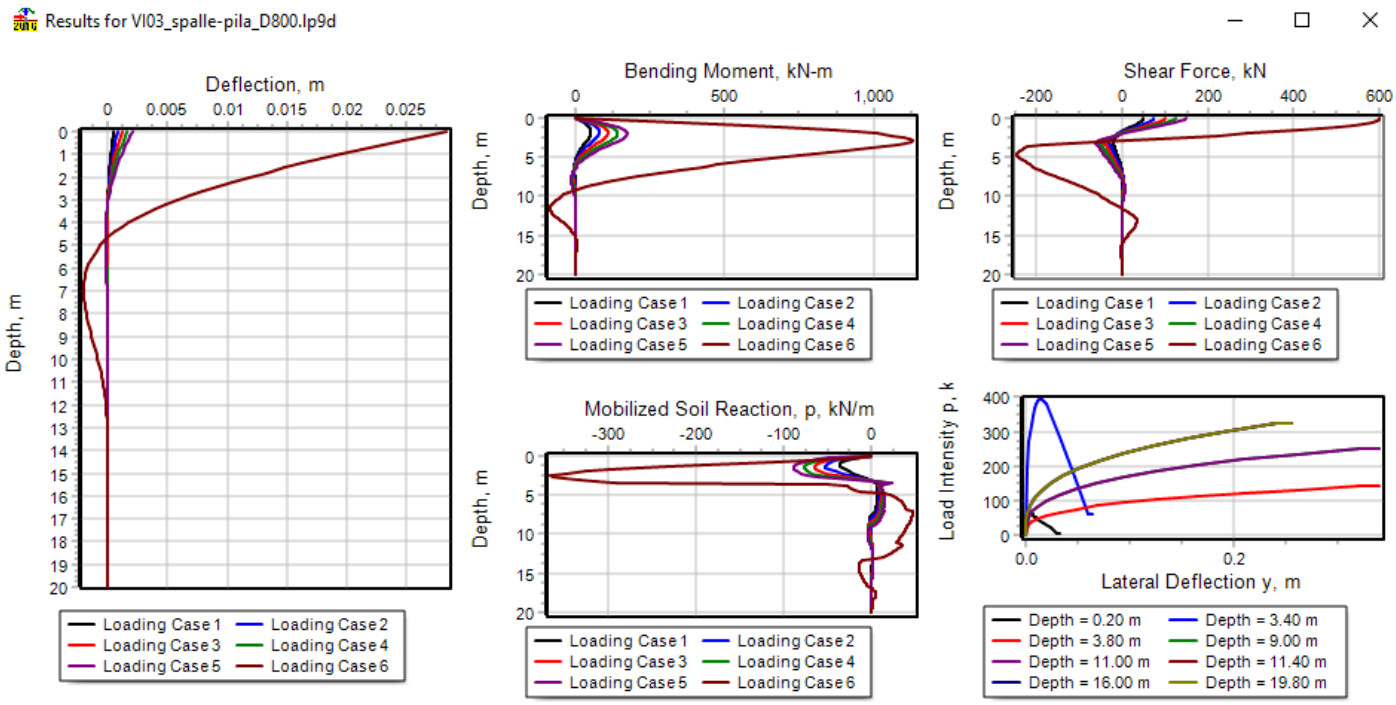


Figura 5.20: VI03 - Curva carico – spostamento orizzontale

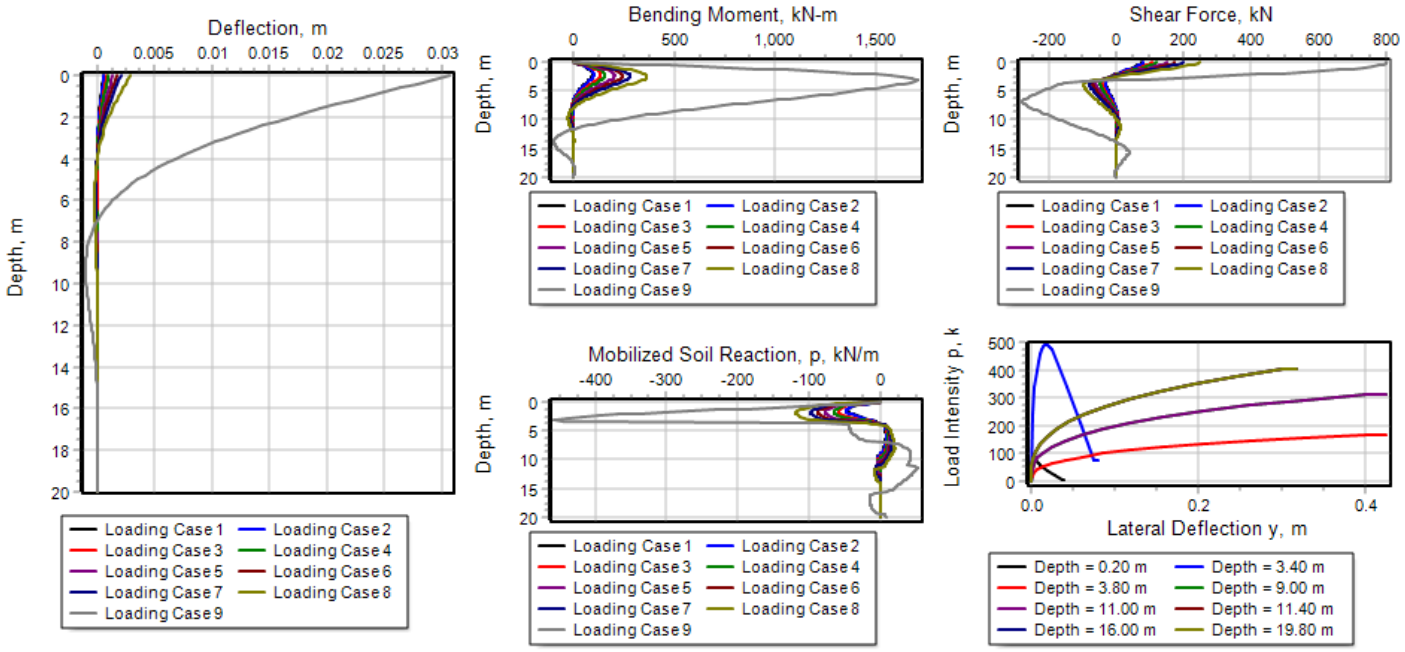
Nell'Allegato A sono riportati i dati delle curve p-y selezionate per modellare l'interazione palo-terreno rispetto ai carichi orizzontali.

Per quanto riguarda la resistenza di progetto ai carichi orizzontali è stato valutato di adottare conservativamente il valore del carico trasversale, definito con il codice di calcolo L-Pile, in corrispondenza del quale si ha la prima insorgenza di plasticizzazione nel terreno circostante il palo o comunque uno spostamento rilevante della testa palo, come si può vedere dai grafici sotto riportati nella parte dedicata alla resistenza del terreno mobilitata. I valori ottenuti per i diversi diametri sono i seguenti:

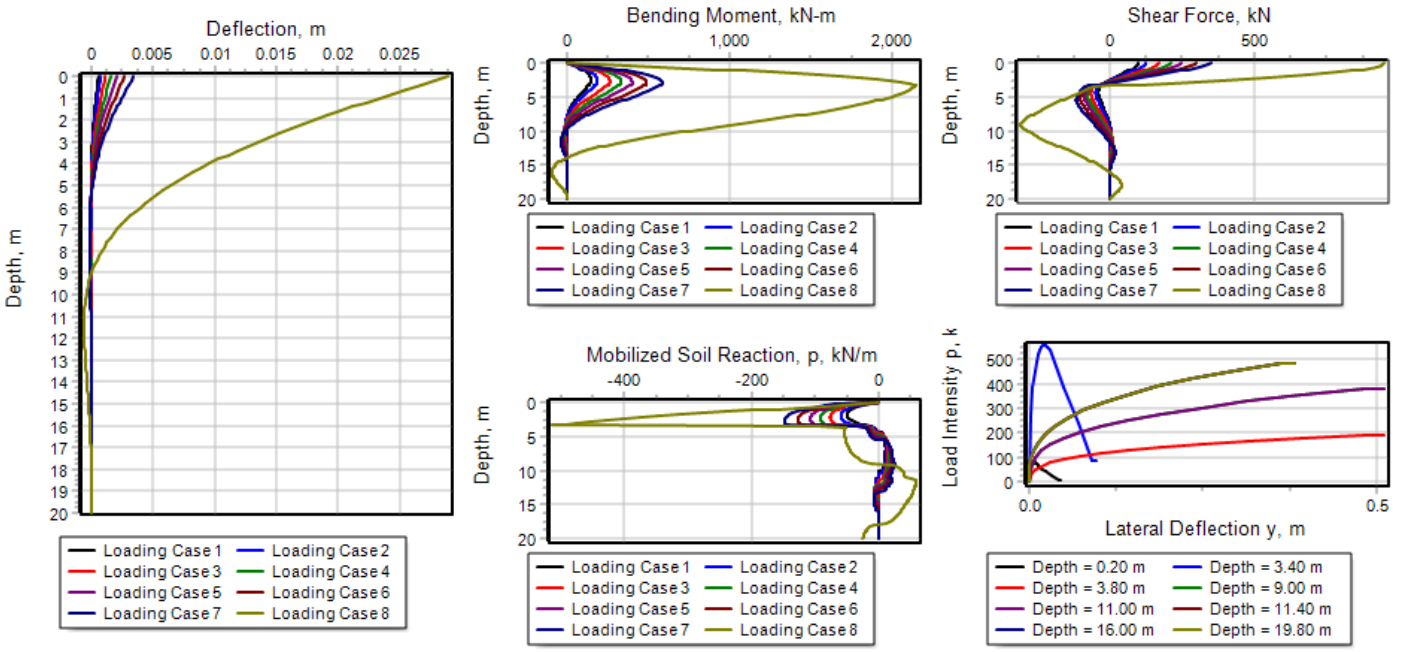
- D800 mm – T = 600 kN
- D1000 mm – T = 800 kN
- D1200 mm – T = 950 kN
- D1500 mm – T = 1200 kN

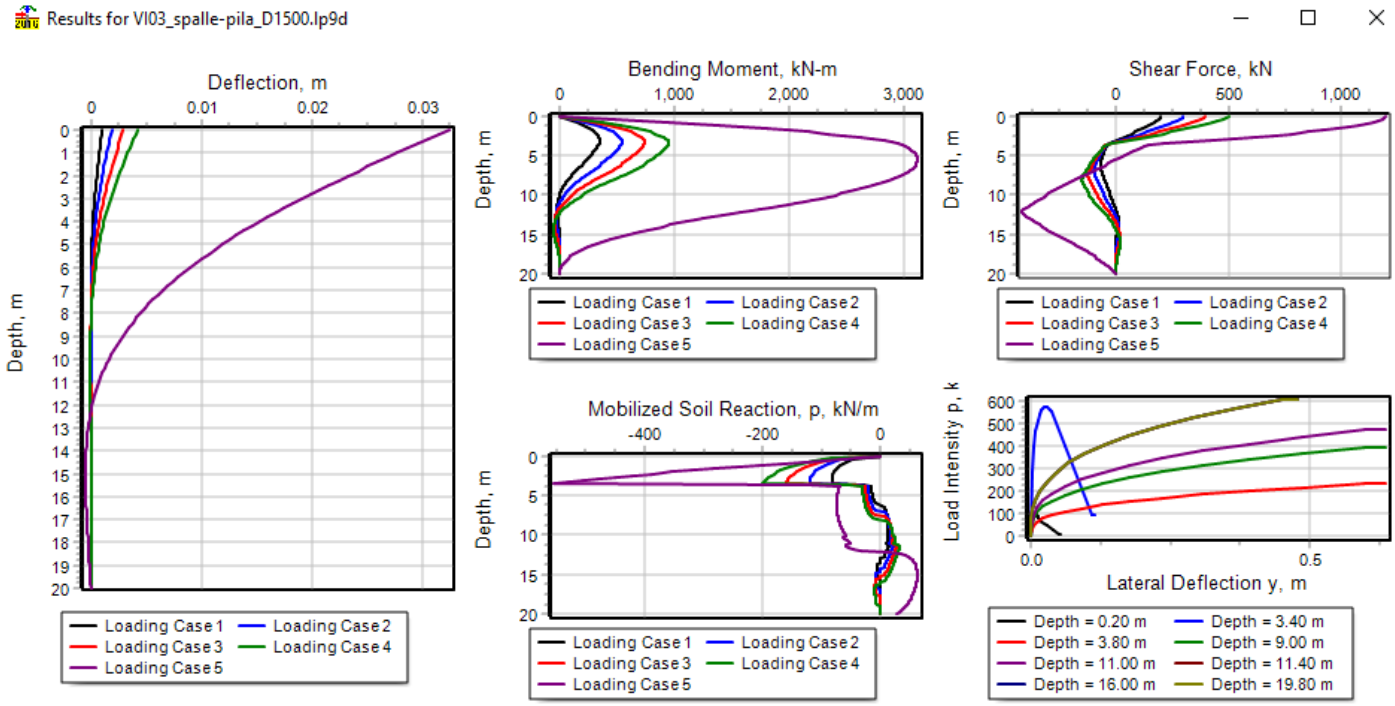


Results for VI03_spalle-pila_D1000.lp9d



Results for VI03_spalle-pila_D1200.lp9d





Da cui, applicando il fattore parziale γ_r = 1.3 si ottengono i seguenti valori di $R_{tr,d}$:

- D800 mm – $R_{tr,d}$ = 461 kN
- D1000 mm – $R_{tr,d}$ = 615 kN
- D1200 mm – $R_{tr,d}$ = 730 kN
- D1500 mm – $R_{tr,d}$ = 923 kN

5.4 VI04 – Ponte su Via Rio Sparto 2 – km 0+733

5.4.1 Inquadramento geotecnico

In accordo a quanto riportato nella Relazione Geotecnica (Doc. rif. [1]), nella successiva Tabella 5.5 è riportata la stratigrafia di riferimento utilizzata per la definizione delle curve di resistenza. Nella successiva Tabella 5.6 sono invece riportati i parametri geotecnici di calcolo associati alla suddetta stratigrafia.

La stratigrafia è derivata dai profili geotecnici della linea ferroviaria e delle viabilità stradali a cui si rimanda per i dettagli (da doc [2] a doc [6]).

Tabella 5.5: Stratigrafia di calcolo VI04

Strato	Profondità media da [m s.l.m.]	Profondità media a [m s.l.m.]
Riporto antr.	2.5	0.7
A,L1	0.7	-4
A,L2	-4	-11.7
L,A2	-11.7	-21.7
L,A1	-21.7	-33.7
G,S	-33.7	-42.5
M	-42.5	

Tabella 5.6: Parametri geotecnici di calcolo VI04 – Materiali in sito

UNITA'		Parametri di resistenza		
	γ_v	φ'	c'	c_u
	[kN/m^3]	[°]	[kPa]	[kPa]
A,L1	18	22	10	80-100
A,L2	17.5	20.5	5	30-40
L,A2	19	27	0	30-60
L,A1	18.5	23.5	12	60
G,S	19	36	0	-
M	21	26	20	150-400

Nelle valutazioni è stata considerata una quota testa palo a 0.30 m s.l.m. e una quota della falda a +1.50 m s.l.m..

Nel calcolo si è tenuto conto anche del riempimento (riporto antropico) che dagli elaborati di progetto sarà presente nella configurazione definitiva. Tale materiale è stato inserito come peso aggiuntivo, al di sopra del terreno naturale, nelle valutazioni di capacità portante in modo da considerare lo stato tensionale corretto alle diverse profondità.

5.4.2 Curve di portanza palo singolo

Il VI04 è ubicato lungo linea in corrispondenza del quale è stata rilevata la presenza di terreni potenzialmente liquefacibili per cui è stato previsto un trattamento con colonne in deep mixing con

funzione di stabilizzazione ed eliminazione del rischio liquefazione. Vista poi anche l'altezza significativa del rilevato in questa tratta, tale intervento ha anche la funzione di riduzione dei cedimenti. In particolare verranno realizzati due tipi di trattamento:

- al di sotto del rilevato si realizzano delle colonne secondo una distribuzione a setti che, per il trattamento corrente hanno una lunghezza efficace di circa 6.5 m, ma che all'approssimarsi del viadotto verranno approfonditi fino a circa 10 m di lunghezza efficace in modo da trattare tutto lo spessore più cedevole e da poter escludere completamente effetti da attrito negativo dovuto sia alla liquefazione sia al cedimento del rilevato retrostante nel dimensionamento dei pali delle spalle.
- intorno ai pali di fondazione di spalle e pila, si realizzeranno ulteriori trattamenti colonnari sempre secondo una distribuzione a setti, di lunghezza efficace pari a circa 10 m, in modo da raggiungere la base del terreno potenzialmente liquefacibile, uniformare il trattamento al tratto immediatamente precedente di approccio al viadotto ed eliminare completamente il rischio liquefazione e conseguentemente da poter escludere completamente effetti da attrito negativo dovuto al cedimento post-sisma a seguito di liquefazione nel dimensionamento dei pali, sia della pila che delle spalle.

In questo modo la progettazione dei pali delle spalle e della pila può essere uniformato.

Si sottolinea che nella valutazione delle curve di capacità portante dei pali, pur essendo presente un trattamento mirato alla mitigazione della liquefazione tra i pali stessi, non si è tenuto in conto alcun tipo di miglioramento delle caratteristiche del terreno, in ragione anche del fatto che un trattamento con colonne in deep-mixing, non addensando il materiale tra i pali, non induce alcun miglioramento su di esso.

Nelle successive Figura 5.21 e Figura 5.22, in accordo ai criteri descritti al precedente punto 4, sono riportate rispettivamente le curve di capacità portante a compressione e a trazione secondo l'Approccio 2, valide anche per le condizioni sismiche, in Figura 5.23 e Figura 5.24 sono riportati separatamente i contributi di resistenza laterale e di portata di base, sempre in accordo al DA2, e in Figura 5.25 sono riportate le curve di resistenza laterale caratteristica.

Nelle seguenti curve il peso del palo non è stato considerato e deve essere tenuto in conto come carico esterno considerando la differenza tra W_p (Peso del palo) e W_s (Peso del terreno sostituito dal palo), utilizzando sempre il valore del peso di terreno saturo anche sotto falda e non quello sommerso.

I calcoli sono stati condotti per pali di diametro:

- D = 800 mm;
- D = 1000 mm;
- D = 1200 mm;
- D = 1500 mm.

VELOCIZZAZIONE DELLA LINEA ROMA-PESCARA – RADDOPPIO PESCARA PORTA NUOVA – CHIETI – LOTTO 1

Capacità portante a compressione (SLU) [kN]

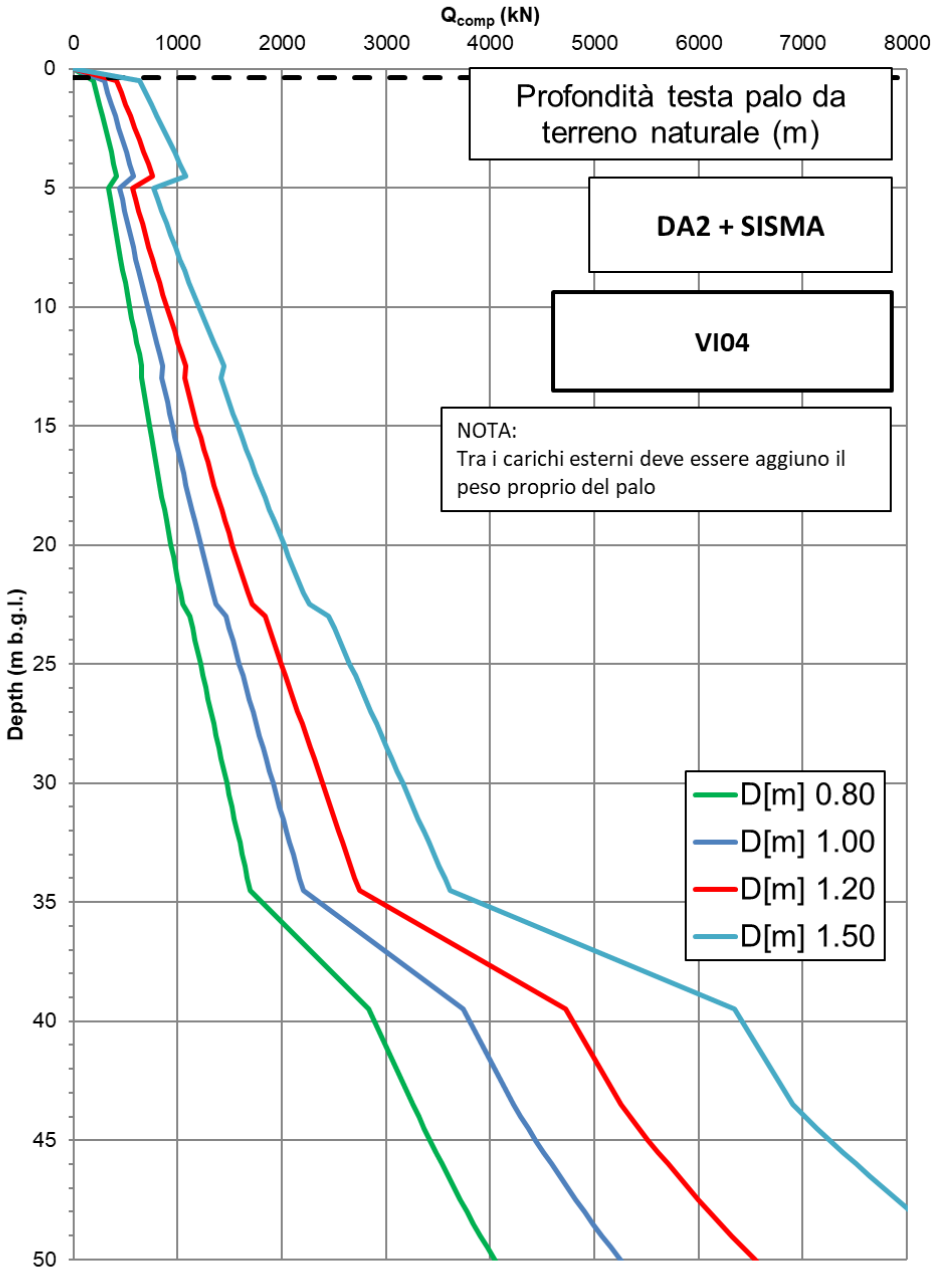


Figura 5.21: VI04 - Curve di capacità portante a compressione (SLU) DA2 + SISMA

VELOCIZZAZIONE DELLA LINEA ROMA-PESCARA – RADDOPPIO PESCARA PORTA NUOVA – CHIETI – LOTTO 1

Capacità portante a trazione (SLU) [kN]

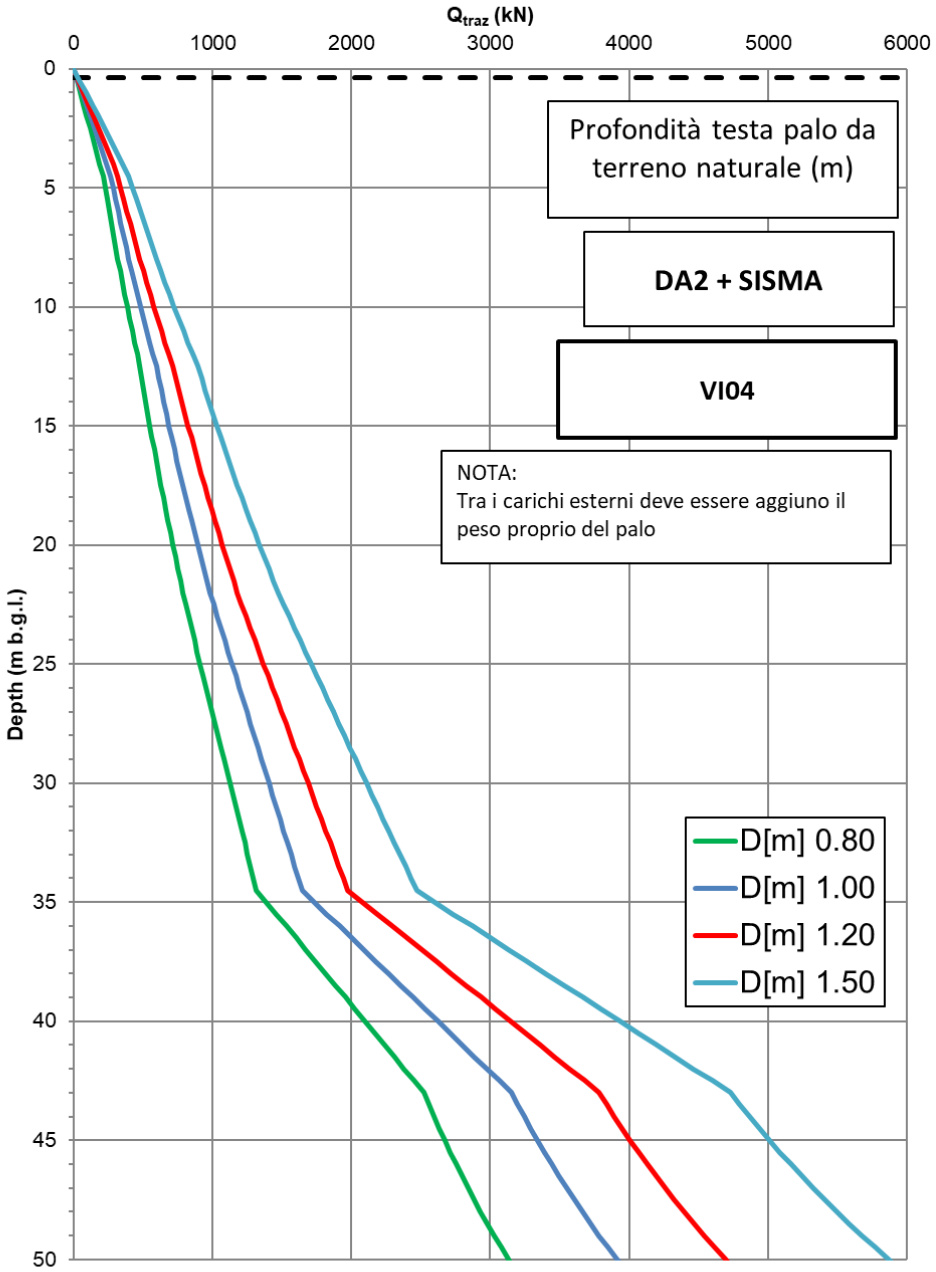


Figura 5.22: VI04 - Curve di capacità portante a trazione (SLU) DA2 + SISMA

VELOCIZZAZIONE DELLA LINEA ROMA-PESCARA – RADDOPPIO PESCARA PORTA NUOVA – CHIETI – LOTTO 1

Capacità portante laterale

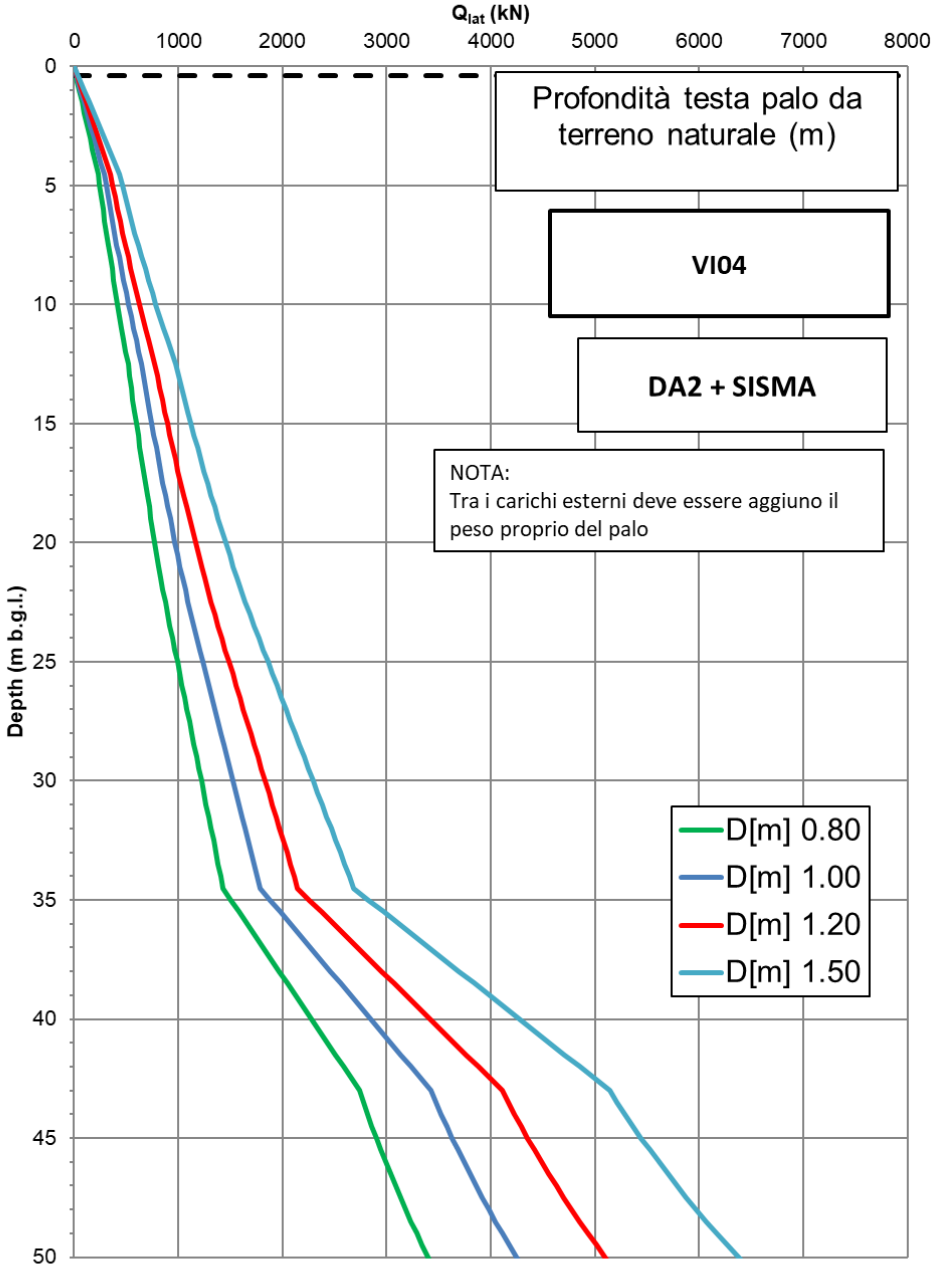


Figura 5.23: VI04 - Contributo di resistenza laterale (SLU) DA2 + SISMA

VELOCIZZAZIONE DELLA LINEA ROMA-PESCARA – RADDOPPIO PESCARA PORTA NUOVA – CHIETI – LOTTO 1

Capacità portante di base

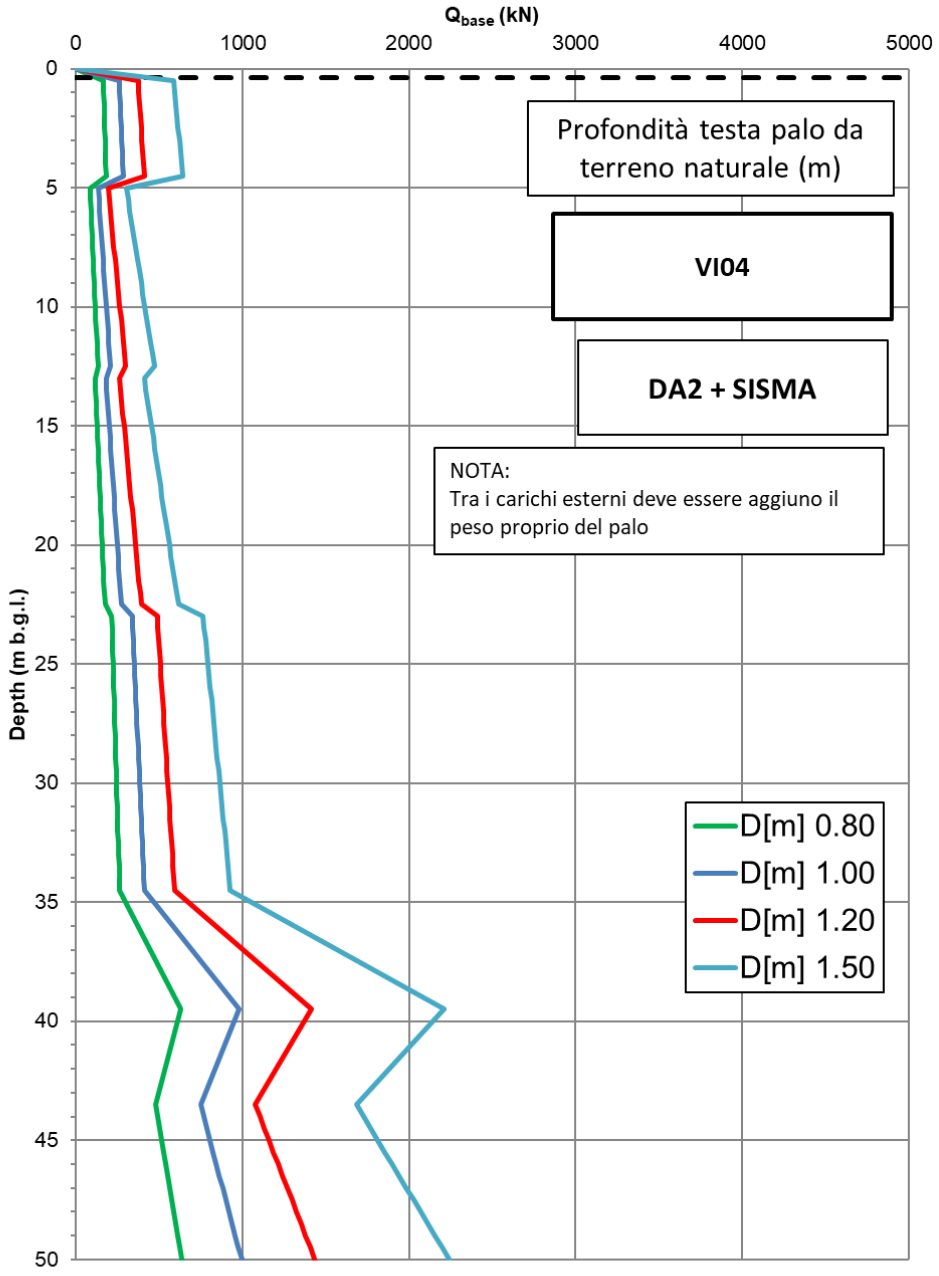


Figura 5.24: VI04 - Contributo di portata di base (SLU) DA2 + SISMA

VELOCIZZAZIONE DELLA LINEA ROMA-PESCARA – RADDOPPIO PESCARA PORTA NUOVA – CHIETI – LOTTO 1

Capacità portante laterale caratteristica

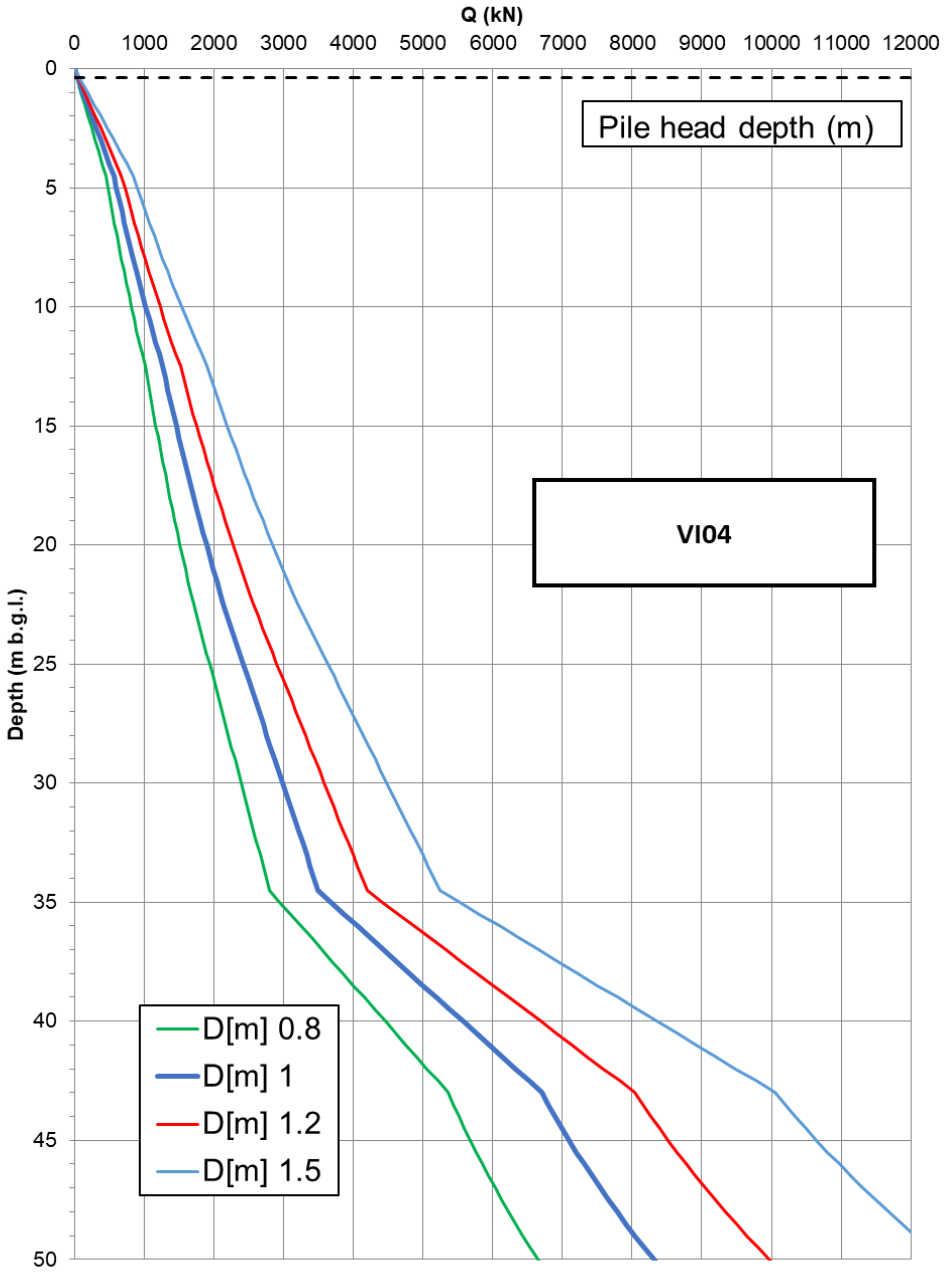


Figura 5.25: VI04 - Curve di resistenza laterale caratteristica

5.4.3 Curve carico-cedimento palo singolo

In accordo alla procedura descritta al precedente punto 4.2.1, utilizzando il metodo delle curve di trasferimento mediante l'ausilio del codice di calcolo TZ-Pile ver. 2014.3.2, si è calcolata la curva carico-cedimento per i pali del VI03. Nelle valutazioni sono state considerate, per ciascun diametro di palo, tre lunghezze di riferimento pari a 20 m, 25 m e 35 m.

Nella Figura 5.26 si riporta la curva carico-cedimento calcolata per il palo di diametro 800 mm, nella Figura 5.27 per il palo di diametro 1000 mm, nella Figura 5.28 per il palo di diametro 1200 mm e nella Figura 5.29 per il palo di diametro 1500 mm.

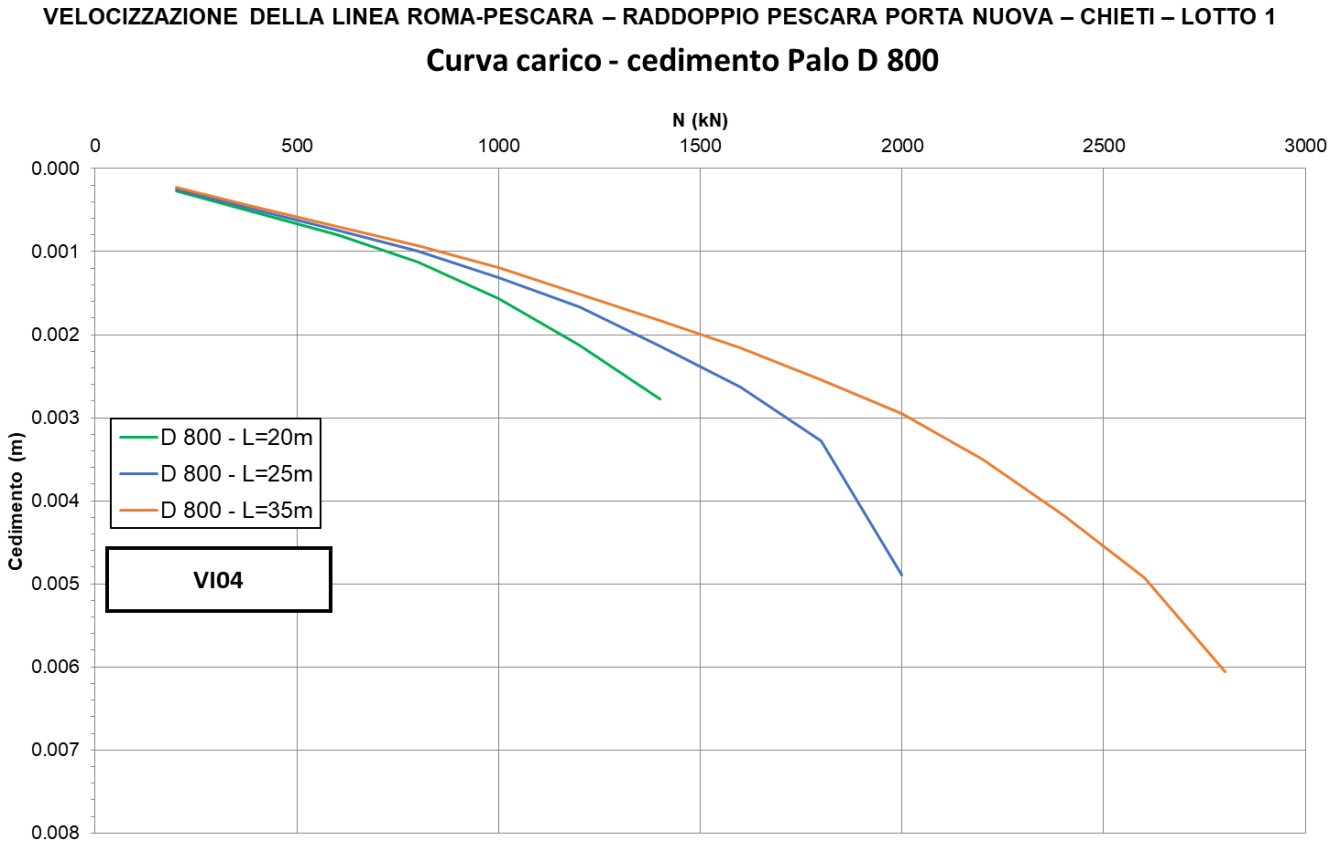


Figura 5.26: VI04 - Curva carico cedimento – D800

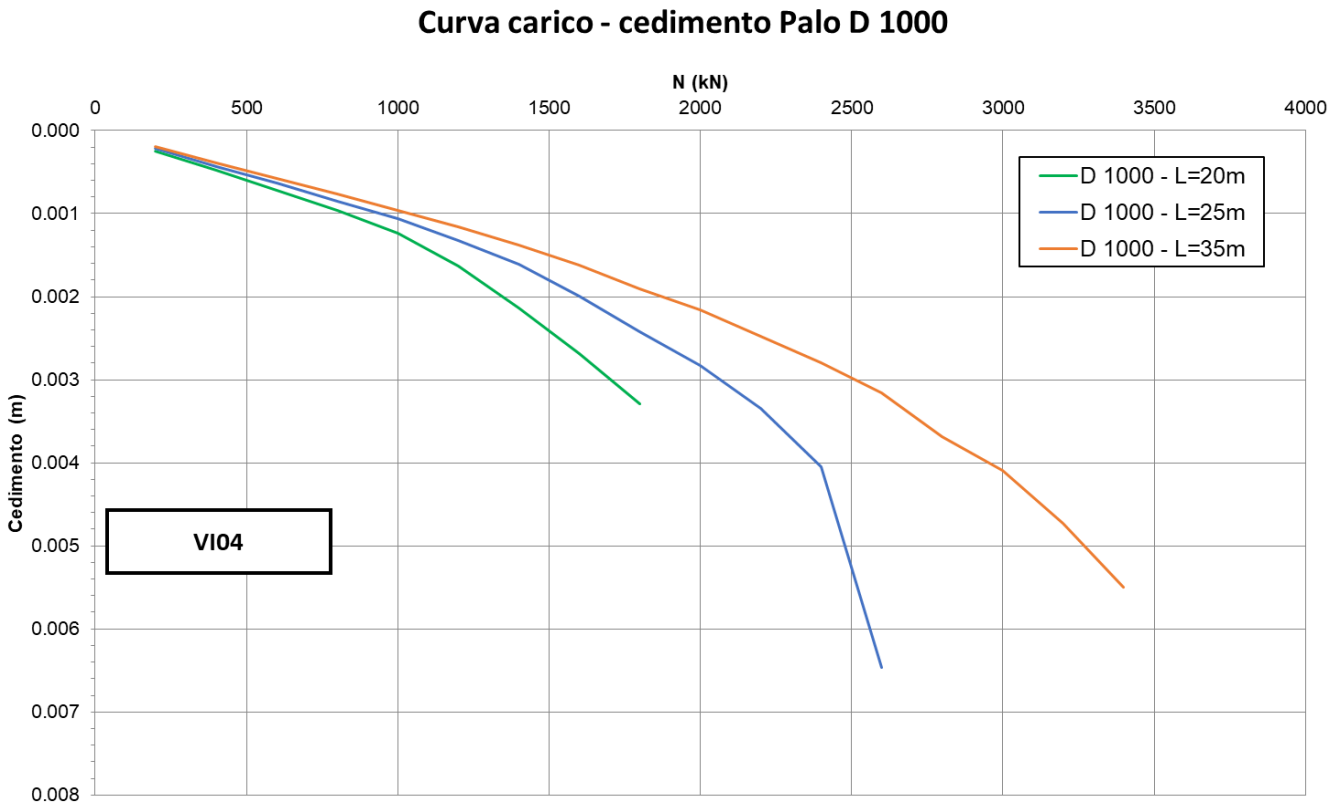


Figura 5.27: VI04 - Curva carico cedimento – D1000

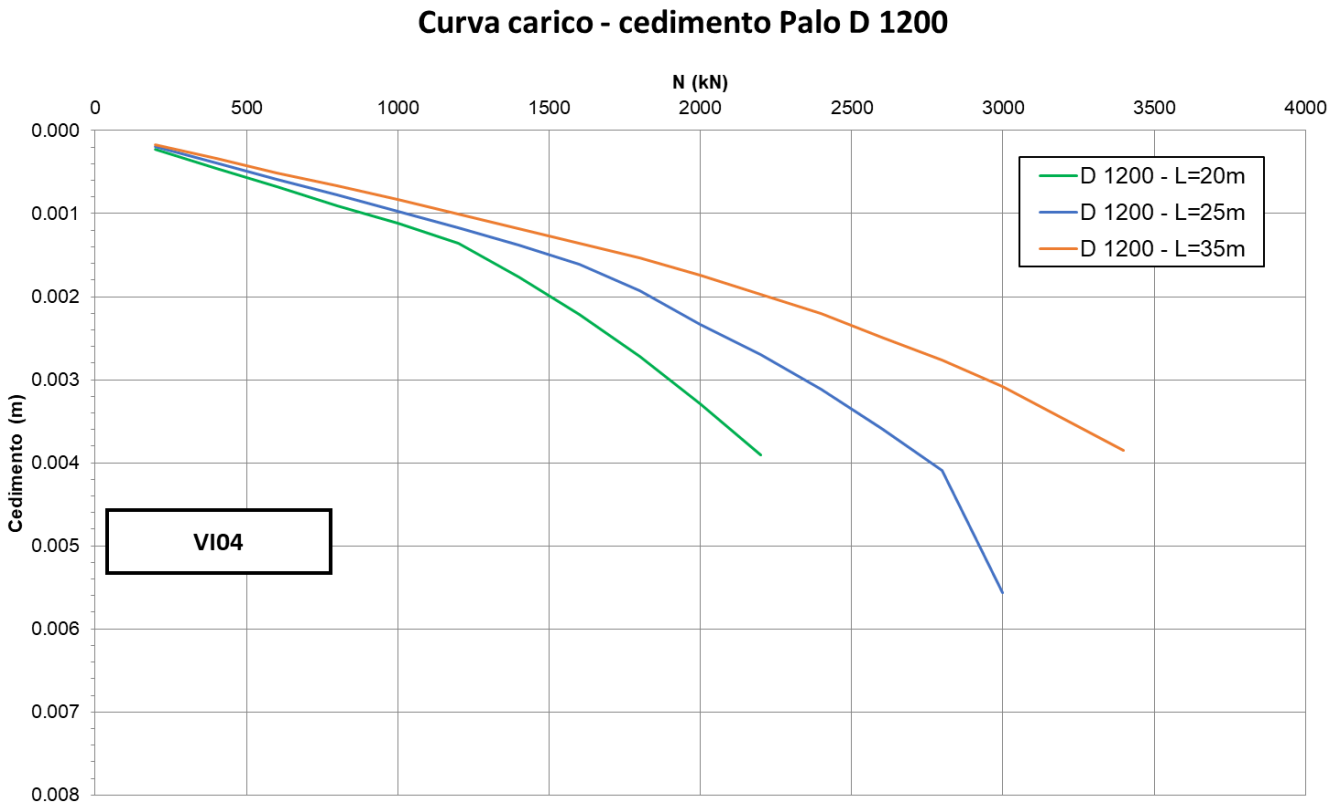


Figura 5.28: VI04 - Curva carico cedimento – D1200

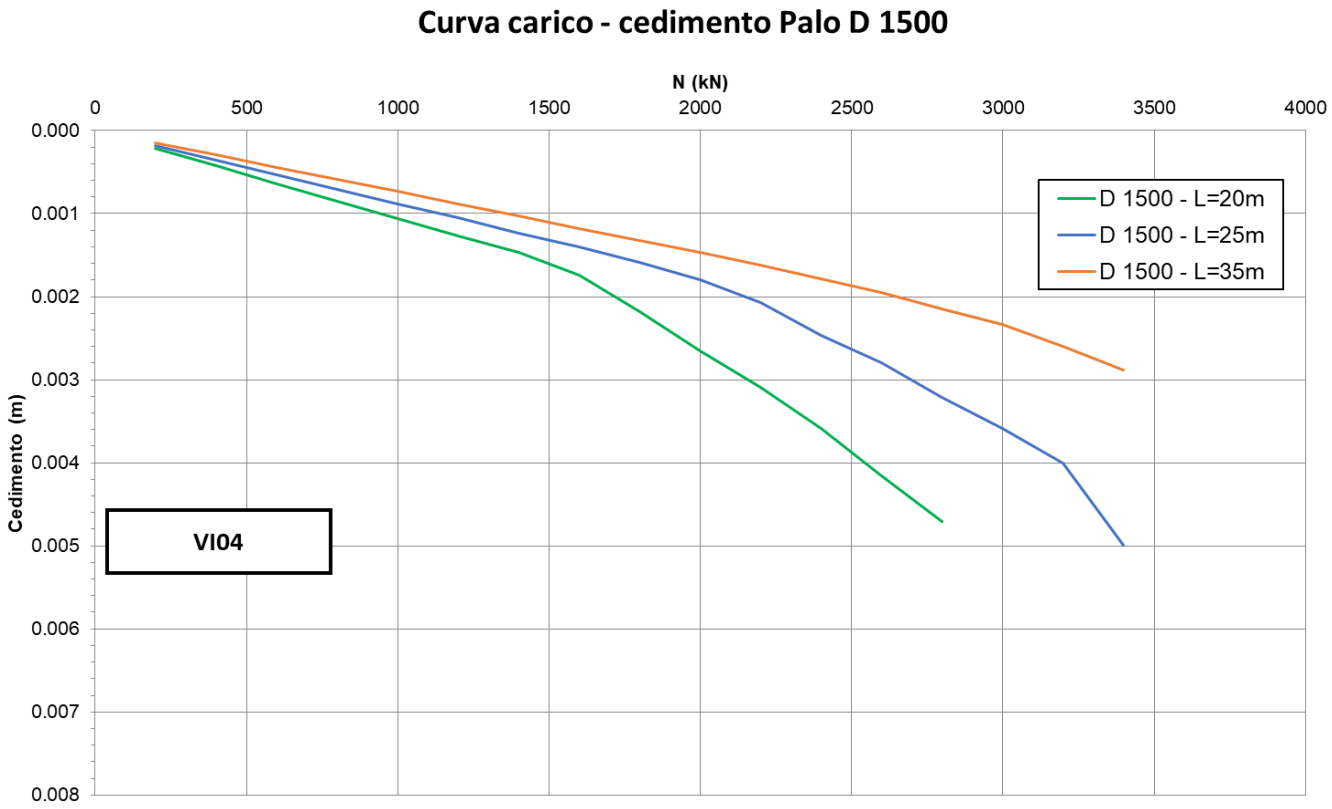


Figura 5.29: VI04 - Curva carico cedimento – D1500

5.4.4 Comportamento del palo singolo soggetto a carico orizzontale

Come meglio specificato al precedente capitolo 4.3, lo studio dell'interazione palo-terreno sotto carichi orizzontali è stata condotta utilizzando il metodo delle curve di trasferimento mediante l'ausilio del codice di calcolo L-Pile ver. 2016.9.09.

In particolare, i calcoli sono stati eseguiti considerando, per tutti i diametri di palo selezionati, una lunghezza di palo pari a 20 m. Tuttavia considerato che il comportamento del palo soggetto a carichi orizzontali dipende solamente dalle caratteristiche degli strati di terreno fino a profondità pari a 10÷12 volte il diametro del palo stesso, i risultati possono essere estesi a lunghezze di palo maggiori di quelle analizzate.

Nelle analisi la connessione della testa palo alla fondazione è stata considerata a "testa incernierata".

Nella Figura 5.30 si riporta la curva carico-cedimento calcolata per i pali di diametro 800 mm, 1000 mm, 1200 mm e 1500 mm.

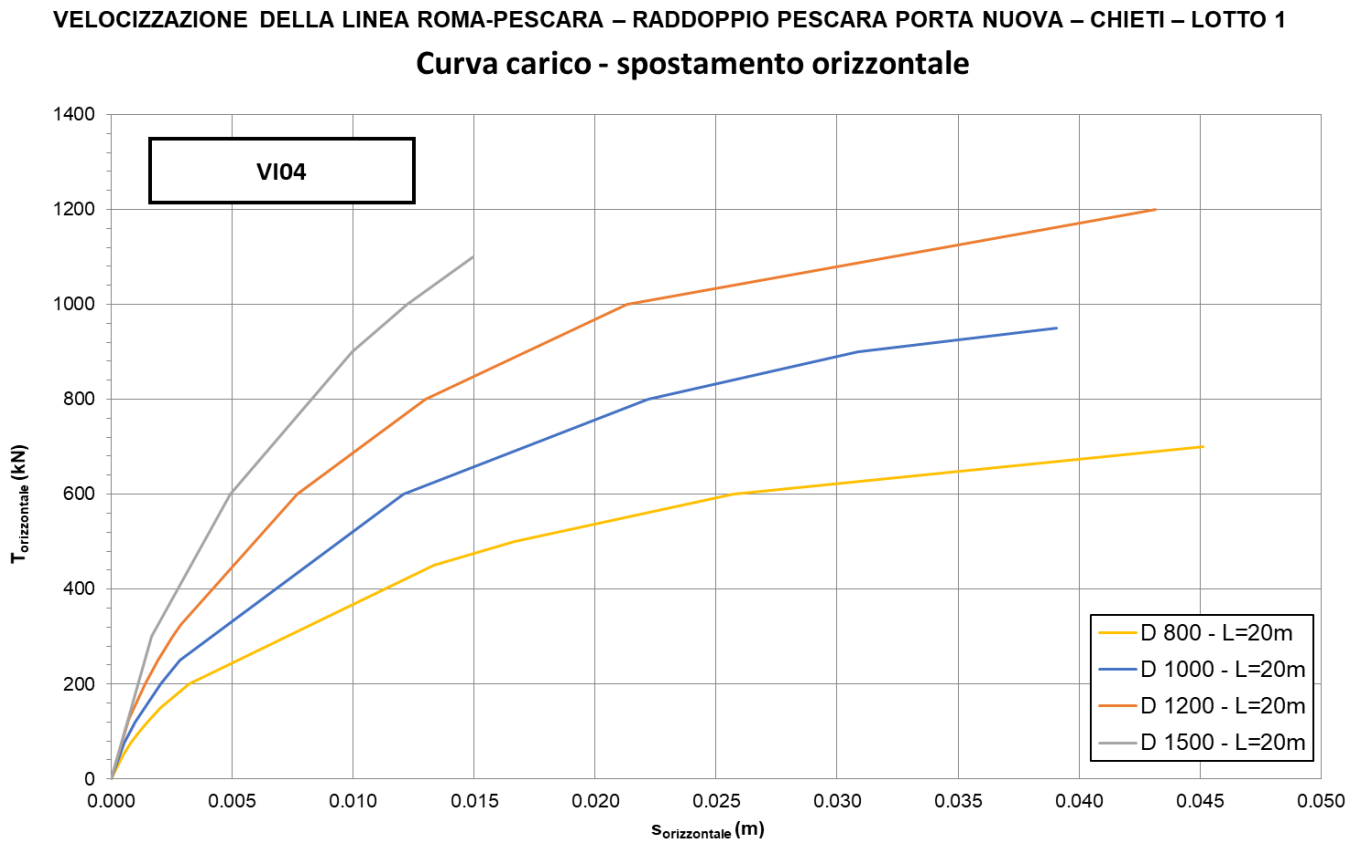
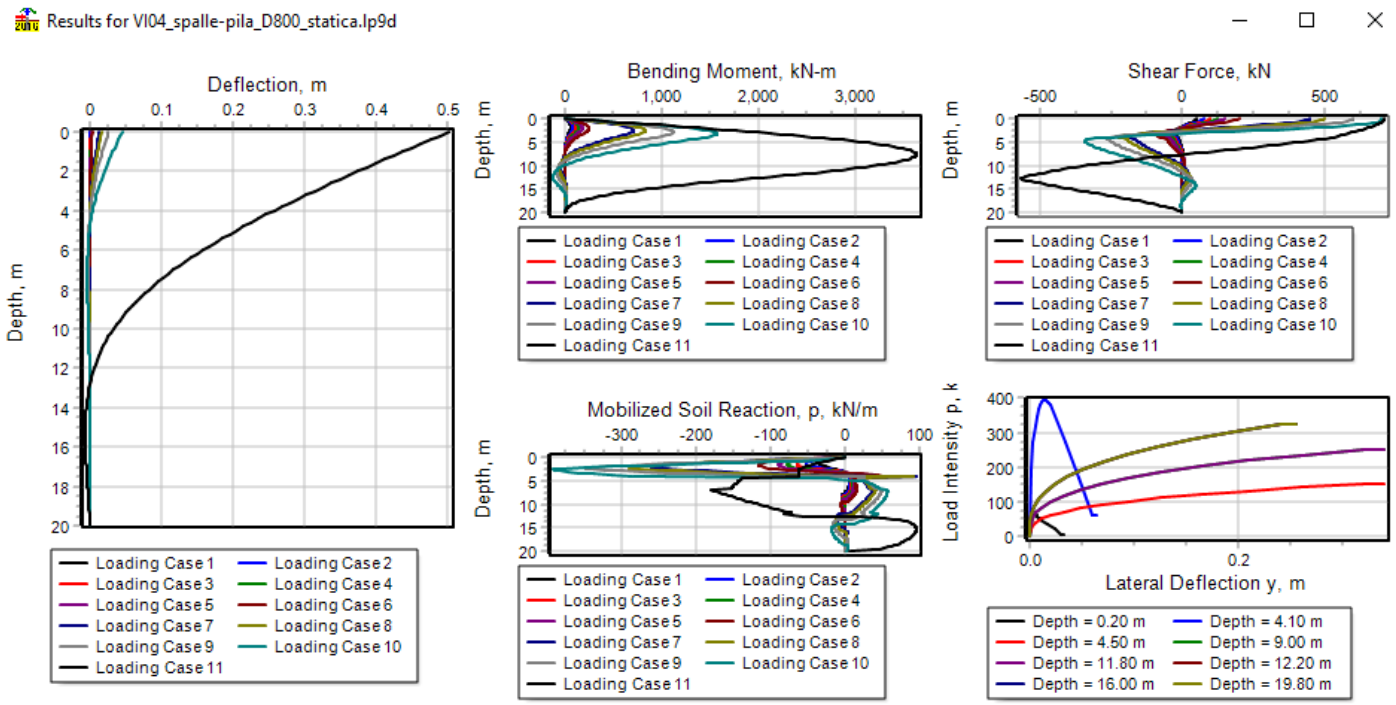


Figura 5.30: VI04 - Curva carico – spostamento orizzontale

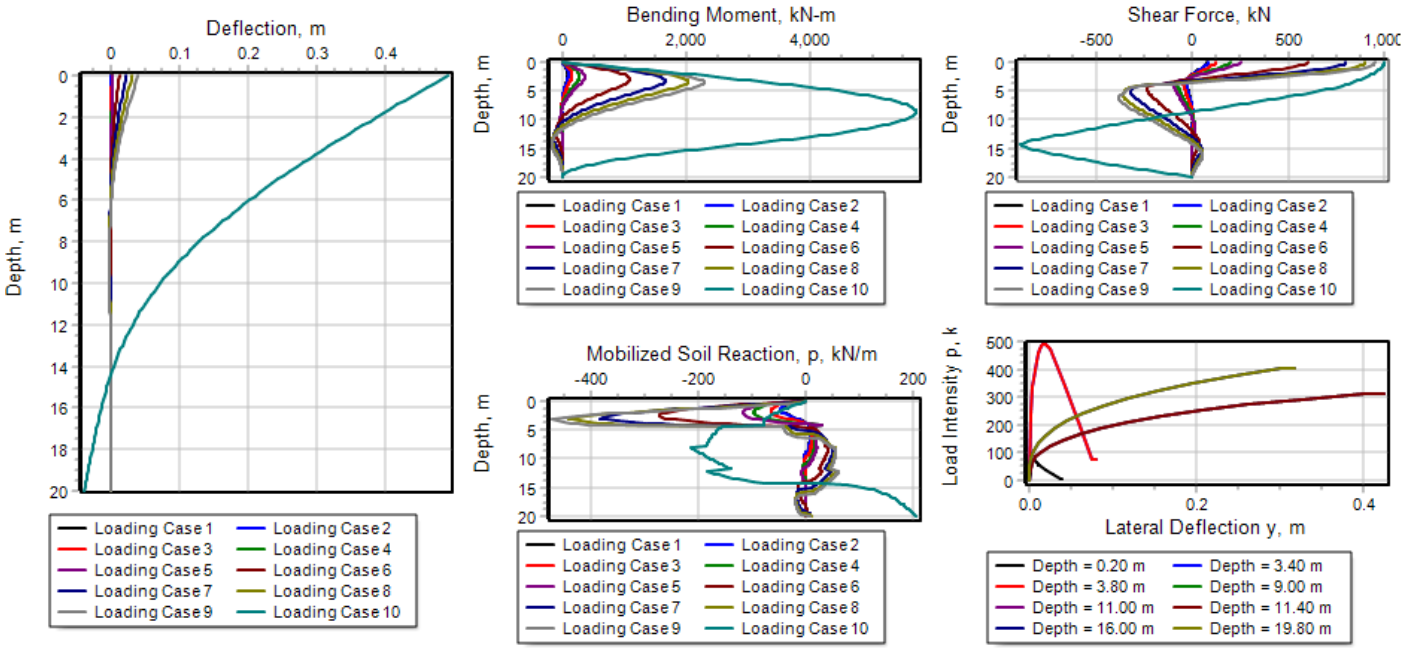
Nell'Allegato A sono riportati i dati delle curve p-y selezionate per modellare l'interazione palo-terreno rispetto ai carichi orizzontali.

Per quanto riguarda la resistenza di progetto ai carichi orizzontali è stato valutato di adottare conservativamente il valore del carico trasversale, definito con il codice di calcolo L-Pile, in corrispondenza del quale si ha la prima insorgenza di plasticizzazione nel terreno circostante il palo o comunque uno spostamento rilevante della testa palo, come si può vedere dai grafici sotto riportati nella parte dedicata alla resistenza del terreno mobilitata. I valori ottenuti per i diversi diametri sono i seguenti:

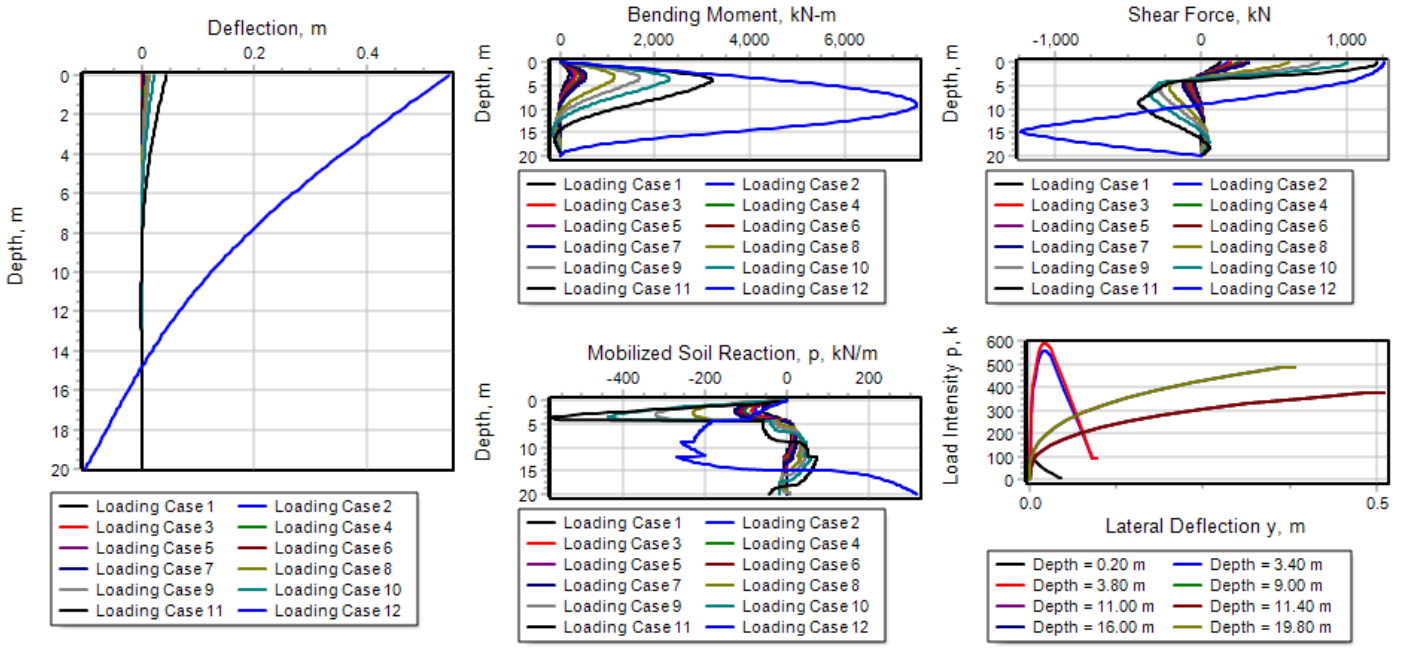
- D800 mm – T = 700 kN
- D1000 mm – T = 950 kN
- D1200 mm – T = 1200 kN
- D1500 mm – T = 1500 kN

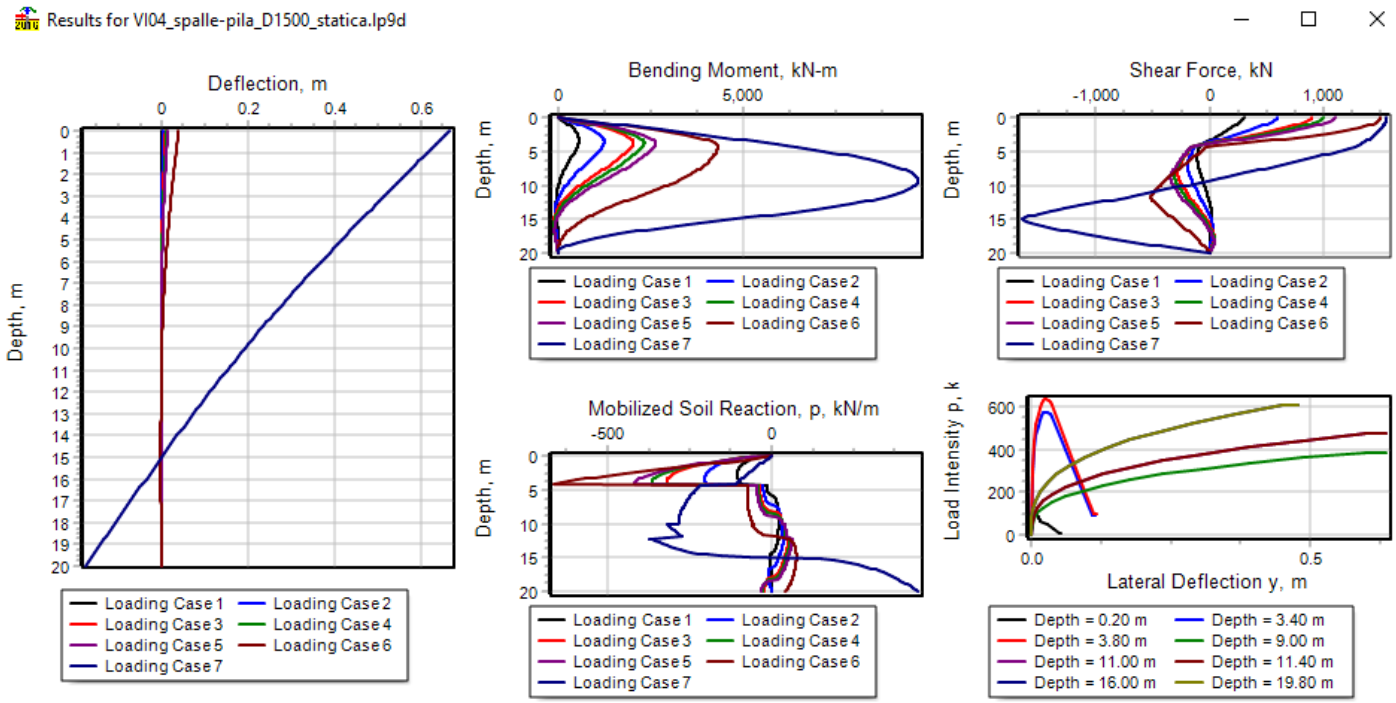


Results for VI04_spalle-pila_D1000_statica.lp9d



Results for VI04_spalle-pila_D1200_statica.lp9d





Da cui, applicando il fattore parziale γ_r = 1.3 si ottengono i seguenti valori di $R_{tr,d}$:

- D800 mm – $R_{tr,d}$ = 538 kN
- D1000 mm – $R_{tr,d}$ = 730 kN
- D1200 mm – $R_{tr,d}$ = 923 kN
- D1500 mm – $R_{tr,d}$ = 1153 kN

5.5 IV01 – Cavalcaferrovia su Via Tiburtina SS5 – km 5+639

5.5.1 Inquadramento geotecnico

In accordo a quanto riportato nella Relazione Geotecnica (Doc. rif. [1]), nella successiva Tabella 5.3 è riportata la stratigrafia di riferimento utilizzata per la definizione delle curve di resistenza. Nella successiva Tabella 5.4 sono invece riportati i parametri geotecnici di calcolo associati alla suddetta stratigrafia.

La stratigrafia è derivata dai profili geotecnici della linea ferroviaria e delle viabilità stradali a cui si rimanda per i dettagli (da doc [2] a doc [6]).

Tabella 5.7: Stratigrafia di calcolo IV01

Strato	Profondità media da [m s.l.m.]	Profondità media a [m s.l.m.]
Riporto antr.	22.0	19.5
A,L1	19.5	16.8
L,A2	16.8	10.4
G,S	10.4	3.5
M	3.5	

Tabella 5.8: Parametri geotecnici di calcolo IV01 – Materiali in sito

UNITA'		Parametri di resistenza		
	γ_v	φ'	c'	c_u
	[kN/m^3]	[°]	[kPa]	[kPa]
A,L1	18	22	10	80-100
L,A2	19	27	0	30-60
G,S	19	36	0	-
M	21	26	20	150-400

Nelle valutazioni è stata considerata delle quote testa palo a +19.3 m s.l.m. per la Spalla A, a +18.90 m s.l.m. per la Spalla B e a +15.20 m s.l.m. per la pila, ed una quota della falda a +17.30 m s.l.m..

Nel calcolo si è tenuto conto anche del riempimento (riporto antropico) che dagli elaborati di progetto sarà presente nella configurazione definitiva. Tale materiale è stato inserito come peso aggiuntivo, al di sopra del terreno naturale, nelle valutazioni di capacità portante in modo da considerare lo stato tensionale corretto alle diverse profondità.

5.5.2 Curve di portanza palo singolo

L'IV01 è un'opera stradale di scavalco della linea ferroviaria e pertanto risulta trasversale rispetto alla linea. Dovendo raggiungere l'elevazione necessaria per lo scavalco, la sede stradale che approccia dai due lati il ponte, corre a seconda dell'altezza in parte in rilevato e in parte su

scatolari. L'opera è ubicata in una zona in cui è stata rilevata la presenza di terreni cedevoli e potenzialmente liquefacibili. Pertanto, vista anche l'altezza significativa dei rilevati, per entrambe le porzioni è prevista la realizzazione di interventi con doppia funzione di riduzione dei cedimenti ed eliminazione del rischio liquefazione. In particolare verranno realizzati i seguenti trattamento:

- al di sotto dei rilevati e degli scatolari si realizzano un intervento che permetta di trattare tutto lo spessore più cedevole così da poter escludere completamente effetti da attrito negativo dovuto al cedimento del rilevato retrostante nel dimensionamento dei pali delle spalle, oltre che il rischio liquefazione. Tale trattamento sarà realizzato con colonne di ghiaia con maglia quadrata. La profondità prevista per tali trattamenti è pari a circa 14 m, variabile a seconda della effettiva quota di imposta dei rilevati e degli scatolari.
- intorno ai pali di fondazione di spalle e pile, si realizzeranno ulteriori trattamenti colonnari in Deep Mixing sempre secondo una distribuzione a setti, in modo da eliminare completamente il rischio liquefazione anche nelle immediate vicinanze dei pali e da poter escludere completamente effetti da attrito negativo dovuto al cedimento post-sisma a seguito di liquefazione nel dimensionamento dei pali sia delle pile che delle spalle. La profondità prevista per tali trattamenti è pari a circa 10 - 20 m a seconda che si tratti delle pile o delle spalle e dei diversi piani di lavoro utilizzati per la realizzazione delle colonne.

Si sottolinea che nella valutazione delle curve di capacità portante dei pali, pur essendo presente un trattamento mirato alla mitigazione della liquefazione tra i pali stessi, non si è tenuto in conto alcun tipo di miglioramento delle caratteristiche del terreno, in ragione anche del fatto che un trattamento con colonne in deep-mixing, non addensando il materiale tra i pali, non induce alcun miglioramento su di esso.

Spalla A

Nelle successive Figura 5.31 e Figura 5.32, in accordo ai criteri descritti al precedente punto 4, sono riportate rispettivamente le curve di capacità portante a compressione e a trazione secondo l'Approccio 2, valide anche per le condizioni sismiche, in Figura 5.33 e Figura 5.34 sono riportati

separatamente i contributi di resistenza laterale e di portata di base, sempre in accordo al DA2, e in Figura 5.35 sono riportate le curve di resistenza laterale caratteristica.

Nelle seguenti curve il peso del palo non è stato considerato e deve essere tenuto in conto come carico esterno considerando la differenza tra W_p (Peso del palo) e W_s (Peso del terreno sostituito dal palo), utilizzando sempre il valore del peso di terreno saturo anche sotto falda e non quello sommerso.

I calcoli sono stati condotti per pali di diametro:

- D = 800 mm;
- D = 1000 mm;
- D = 1200 mm;
- D = 1500 mm.

VELOCIZZAZIONE DELLA LINEA ROMA-PESCARA – RADDOPPIO PESCARA PORTA NUOVA – CHIETI – LOTTO 1

Capacità portante a compressione (SLU) [kN]

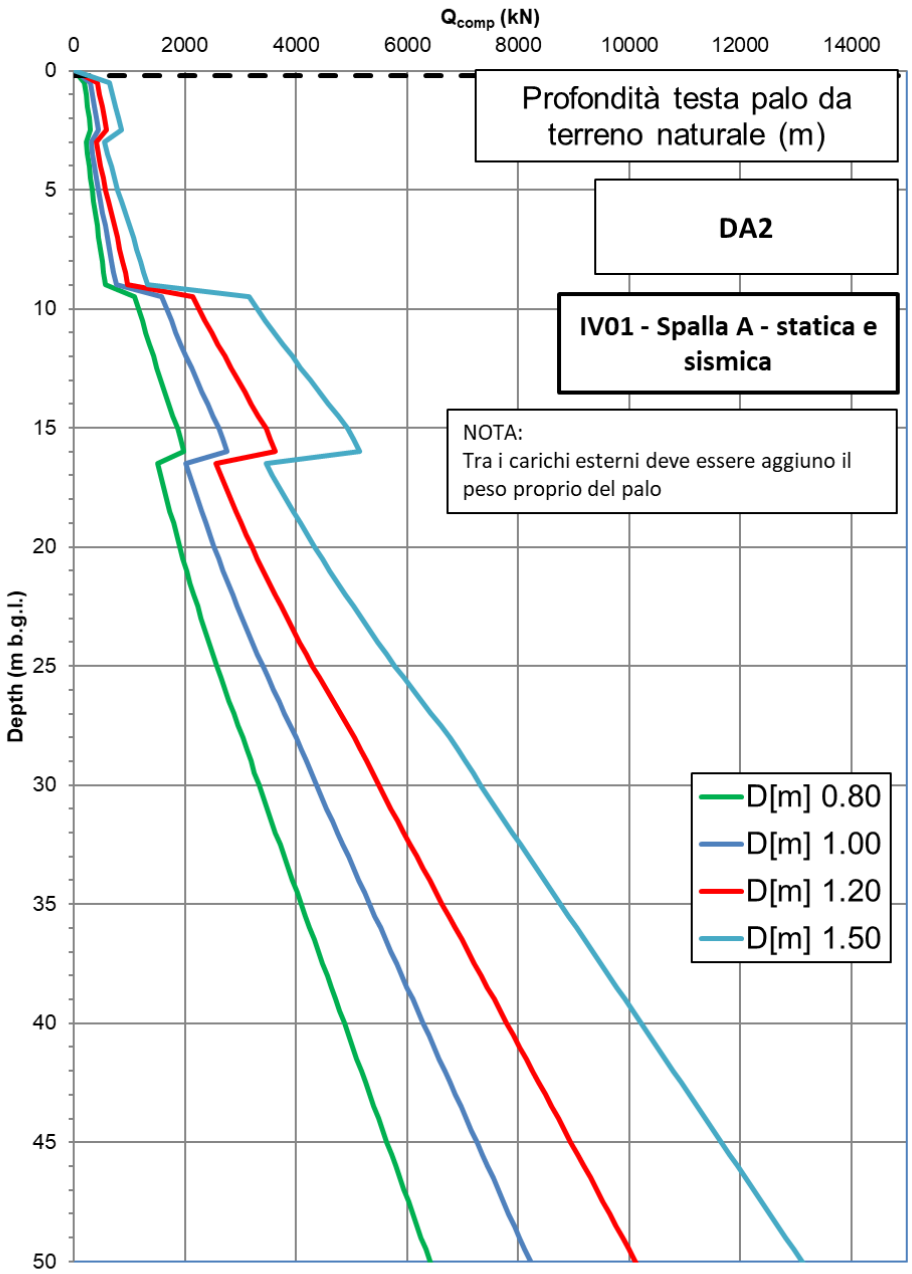


Figura 5.31: IV01 Spalla A - Curve di capacità portante a compressione (SLU) DA2 + SISMA

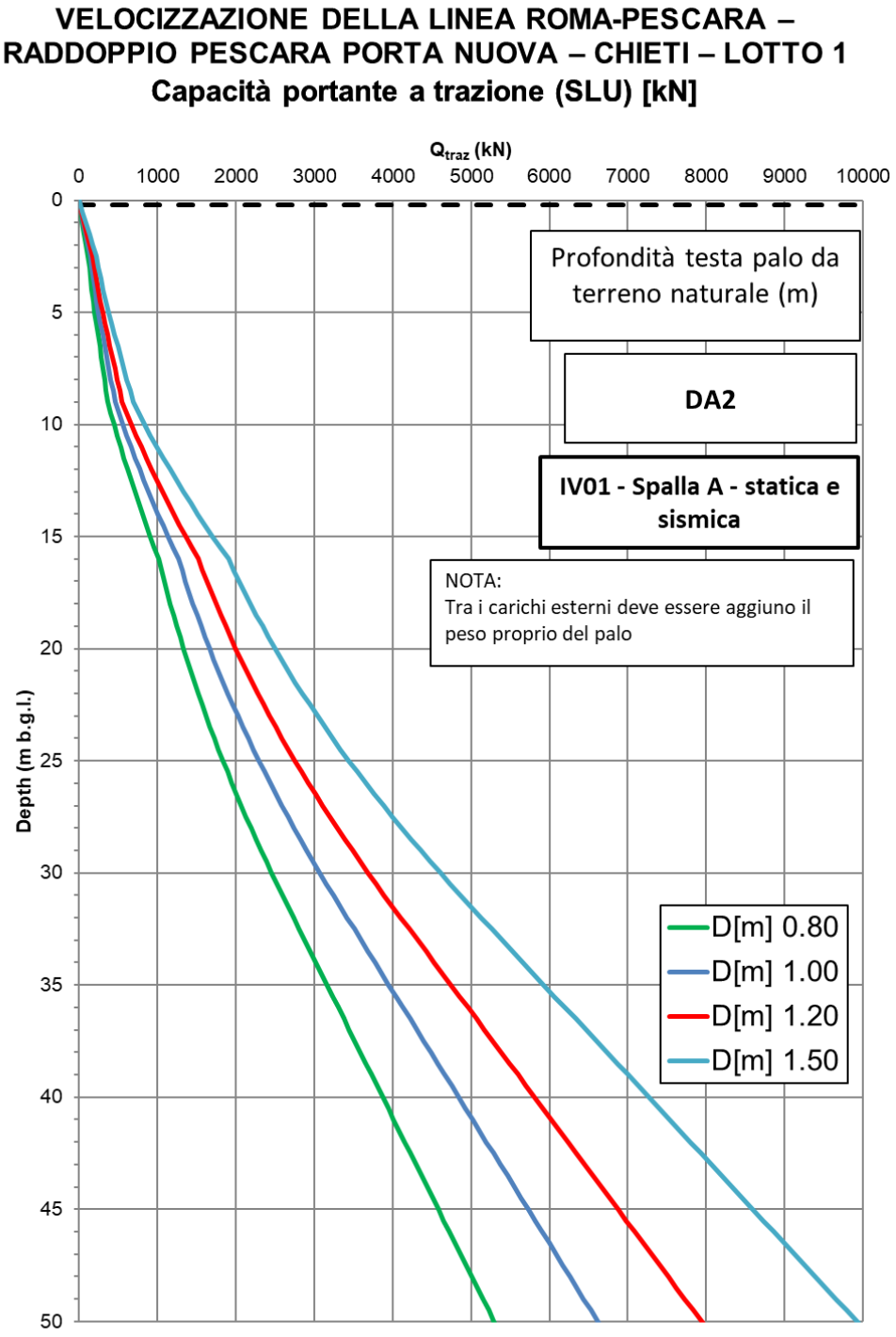


Figura 5.32: IV01 Spalla A - Curve di capacità portante a trazione (SLU) DA2 + SISMA

VELOCIZZAZIONE DELLA LINEA ROMA-PESCARA – RADDOPPIO PESCARA PORTA NUOVA – CHIETI – LOTTO 1

Capacità portante laterale

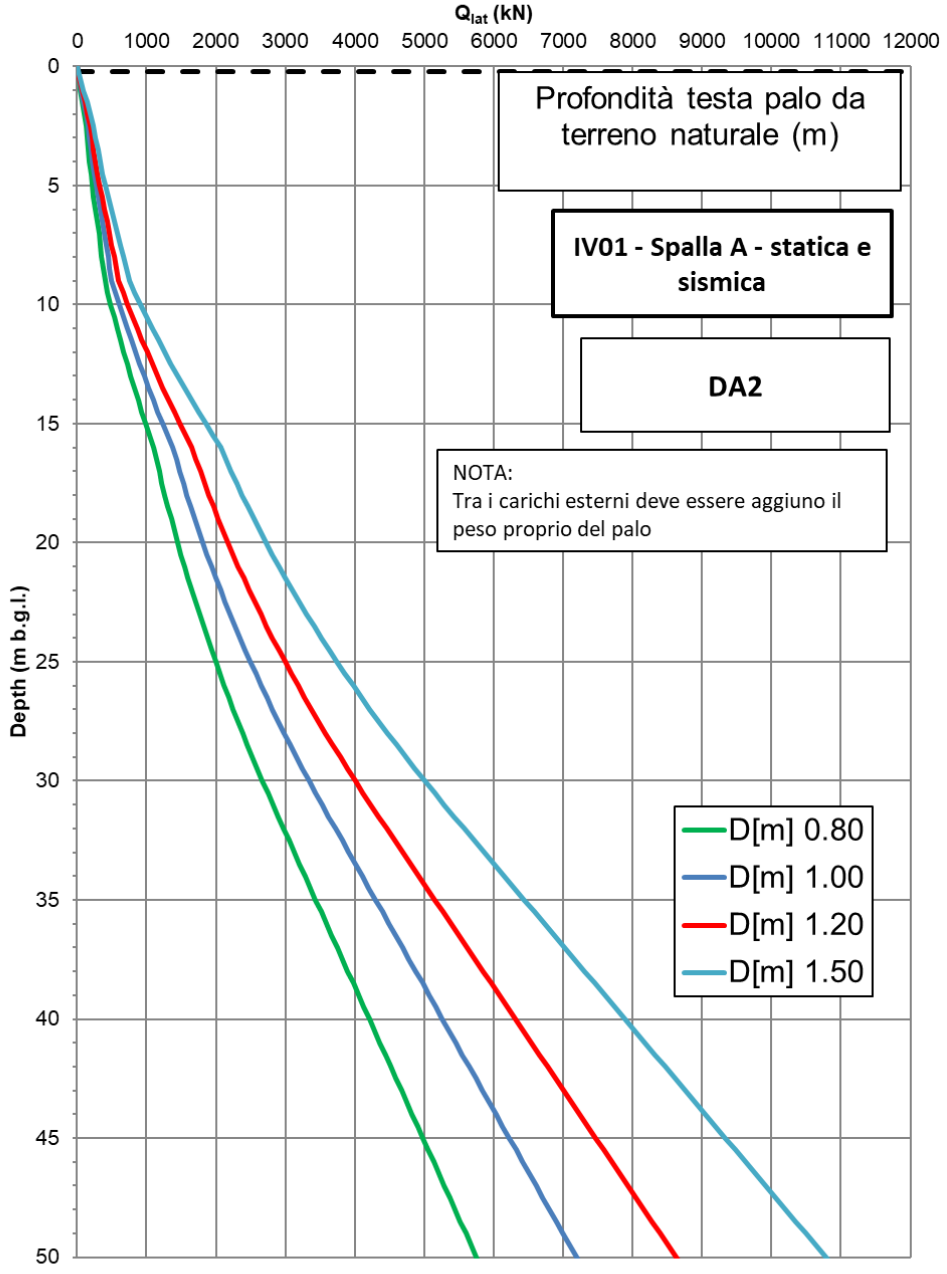


Figura 5.33: IV01 Spalla A - Contributo di resistenza laterale (SLU) DA2 + SISMA

VELOCIZZAZIONE DELLA LINEA ROMA-PESCARA – RADDOPPIO PESCARA PORTA NUOVA – CHIETI – LOTTO 1

Capacità portante di base

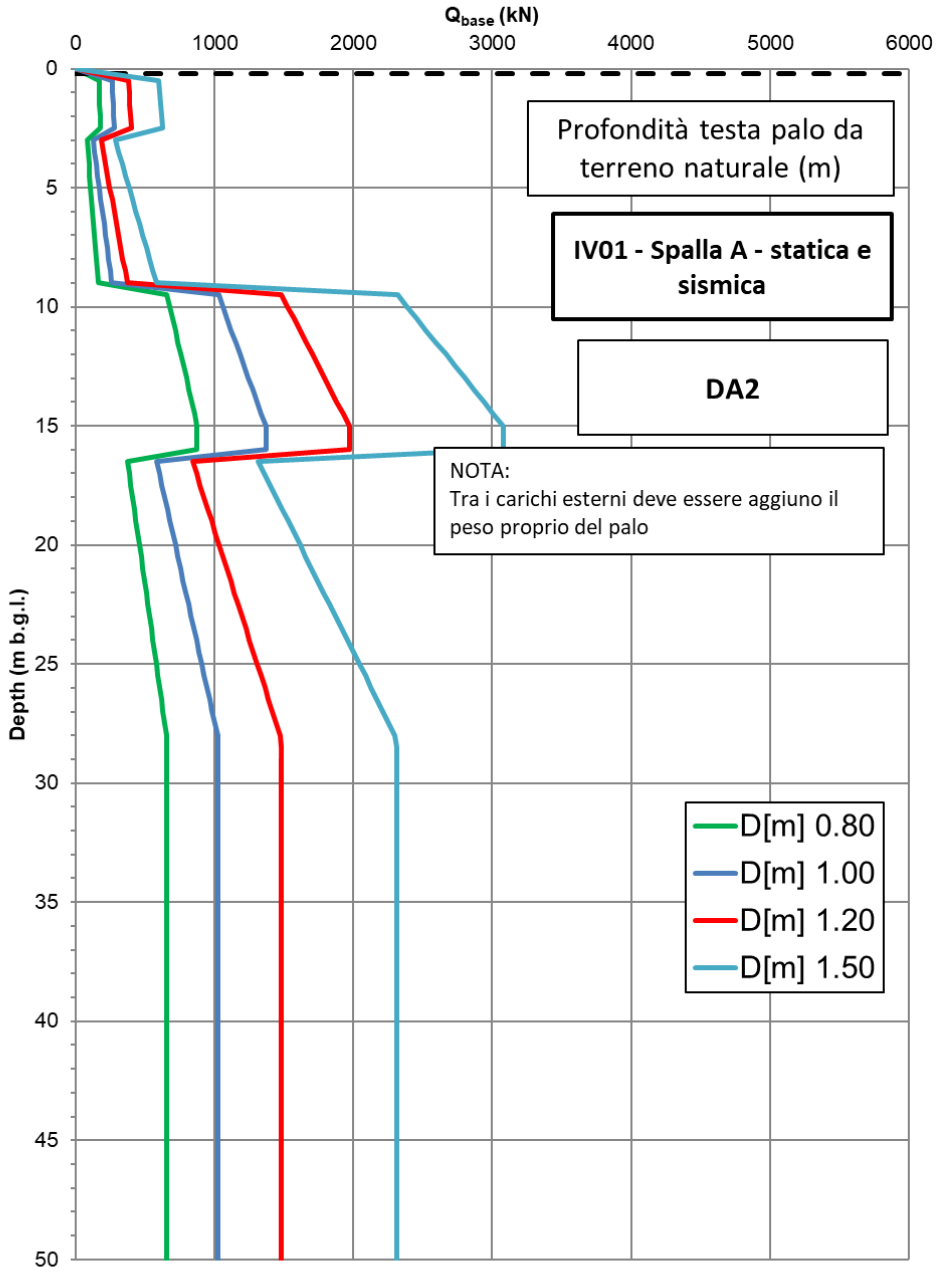


Figura 5.34: IV01 Spalla A - Contributo di portata di base (SLU) DA2 + SISMA

VELOCIZZAZIONE DELLA LINEA ROMA-PESCARA – RADDOPPIO PESCARA PORTA NUOVA – CHIETI – LOTTO 1

Capacità portante laterale caratteristica

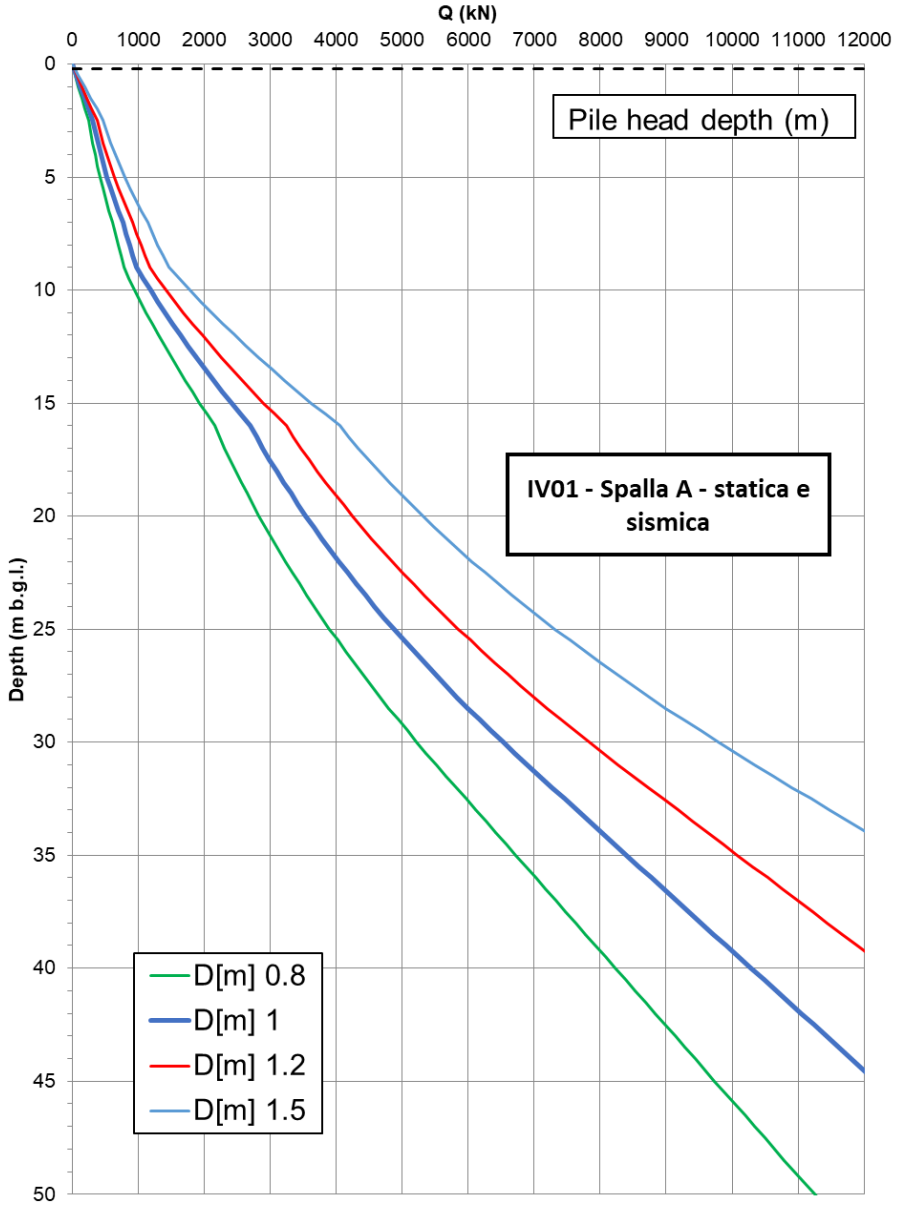


Figura 5.35: IV01 Spalla A - Curve di resistenza laterale caratteristica

Spalla B

Nelle successive Figura 5.36 e Figura 5.37, in accordo ai criteri descritti al precedente punto 4, sono riportate rispettivamente le curve di capacità portante a compressione e a trazione secondo l'Approccio 2, valide anche per le condizioni sismiche, in Figura 5.38 e Figura 5.39 sono riportati separatamente i contributi di resistenza laterale e di portata di base, sempre in accordo al DA2, e in Figura 5.40 sono riportate le curve di resistenza laterale caratteristica.

Nelle seguenti curve il peso del palo non è stato considerato.

I calcoli sono stati condotti per pali di diametro:

- D = 800 mm;
- D = 1000 mm;
- D = 1200 mm;
- D = 1500 mm.

VELOCIZZAZIONE DELLA LINEA ROMA-PESCARA – RADDOPPIO PESCARA PORTA NUOVA – CHIETI – LOTTO 1

Capacità portante a compressione (SLU) [kN]

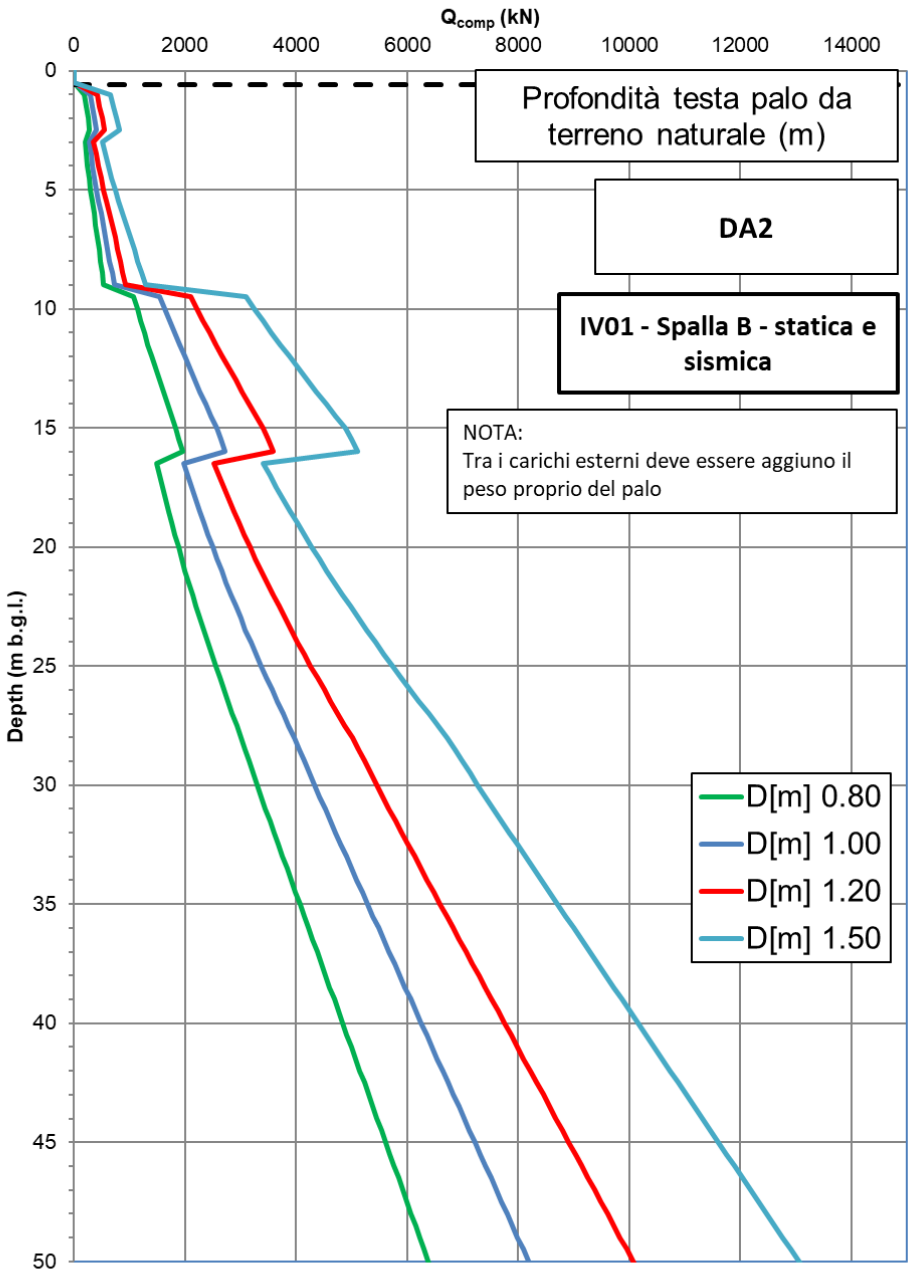


Figura 5.36: IV01 Spalla B - Curve di capacità portante a compressione (SLU) DA2 + SISMA

VELOCIZZAZIONE DELLA LINEA ROMA-PESCARA – RADDOPPIO PESCARA PORTA NUOVA – CHIETI – LOTTO 1

Capacità portante a trazione (SLU) [kN]

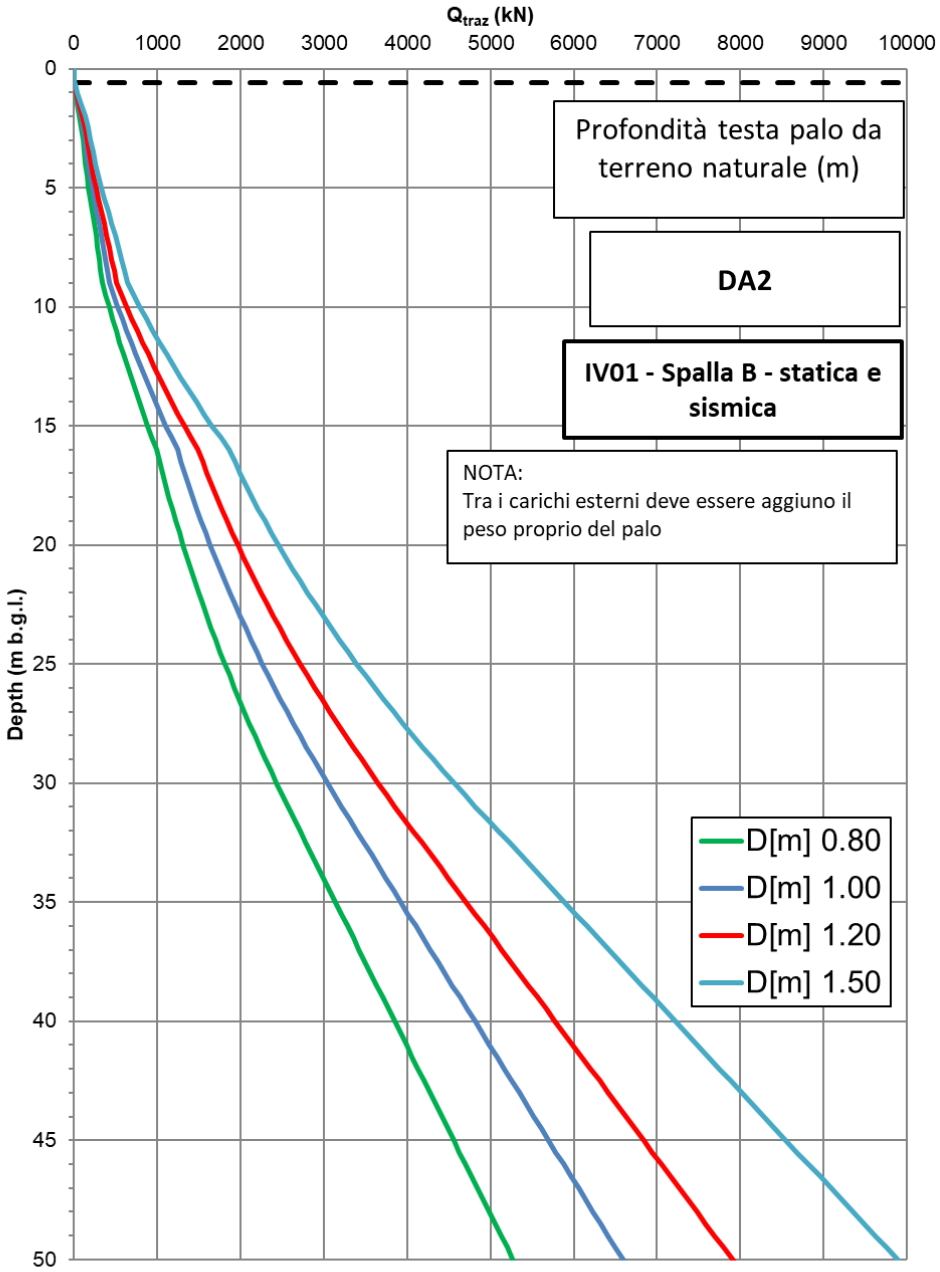


Figura 5.37: IV01 Spalla B - Curve di capacità portante a trazione (SLU) DA2 + SISMA

VELOCIZZAZIONE DELLA LINEA ROMA-PESCARA – RADDOPPIO PESCARA PORTA NUOVA – CHIETI – LOTTO 1

Capacità portante laterale

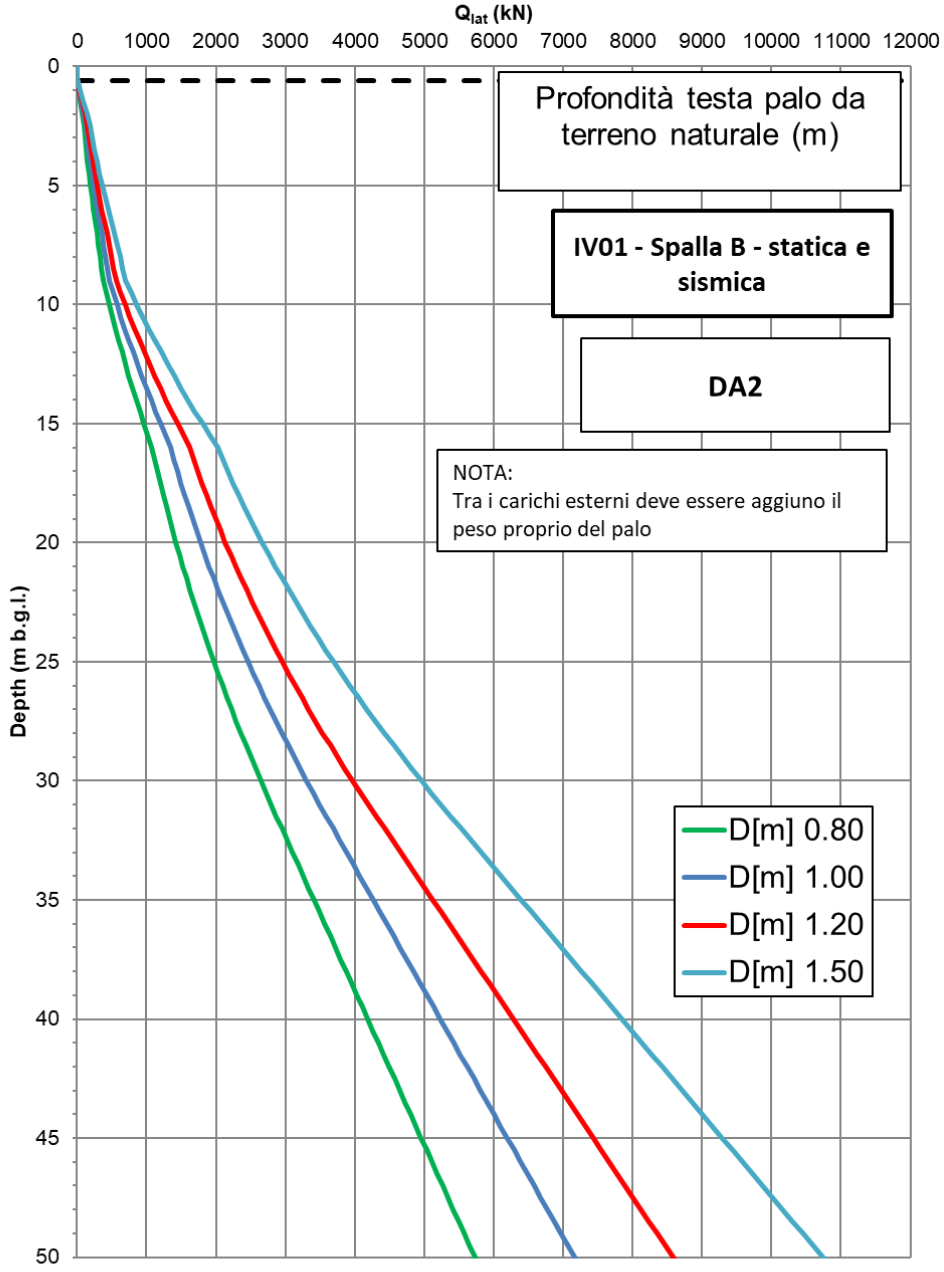


Figura 5.38: IV01 Spalla B - Contributo di resistenza laterale (SLU) DA2 + SISMA

VELOCIZZAZIONE DELLA LINEA ROMA-PESCARA – RADDOPPIO PESCARA PORTA NUOVA – CHIETI – LOTTO 1

Capacità portante di base

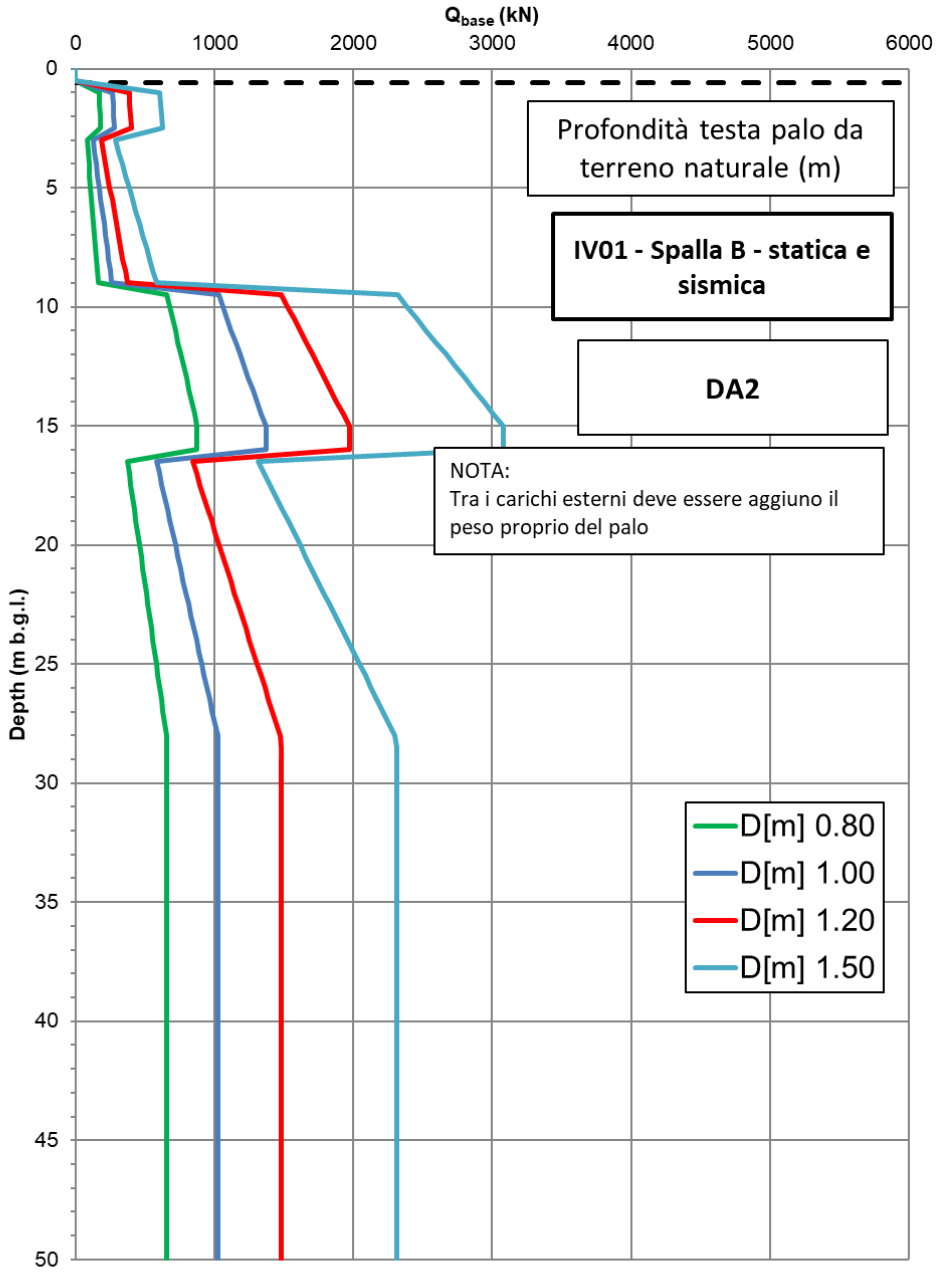


Figura 5.39: IV01 Spalla B - Contributo di portata di base (SLU) DA2 + SISMA

VELOCIZZAZIONE DELLA LINEA ROMA-PESCARA – RADDOPPIO PESCARA PORTA NUOVA – CHIETI – LOTTO 1

Capacità portante laterale caratteristica

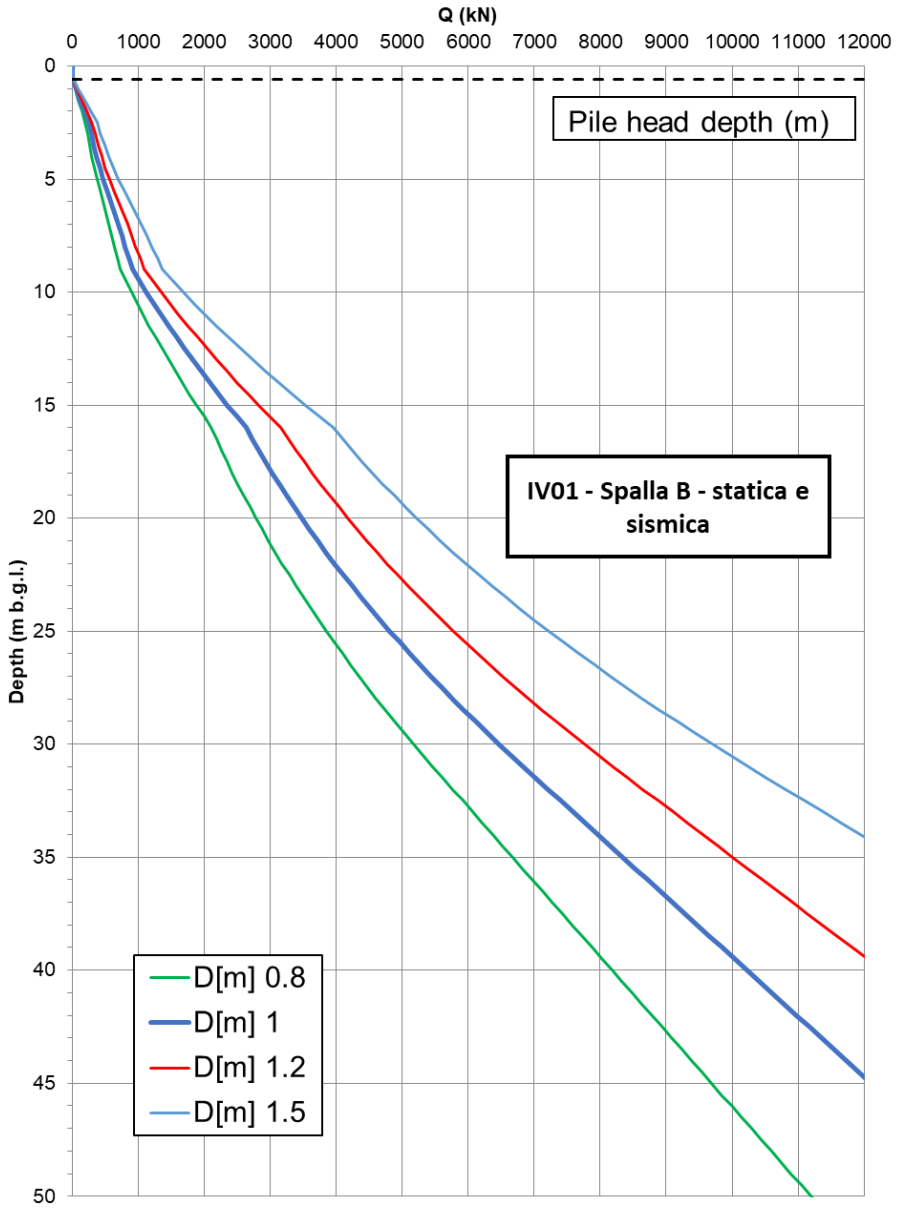


Figura 5.40: IV01 Spalla B - Curve di resistenza laterale caratteristica

Pile

Nelle successive Figura 5.41 e Figura 5.42, in accordo ai criteri descritti al precedente punto 4, sono riportate rispettivamente le curve di capacità portante a compressione e a trazione secondo l'Approccio 2, valide anche per le condizioni sismiche, in Figura 5.43 e Figura 5.44 sono riportati separatamente i contributi di resistenza laterale e di portata di base, sempre in accordo al DA2, e in Figura 5.45 sono riportate le curve di resistenza laterale caratteristica.

Nelle seguenti curve il peso del palo non è stato considerato.

I calcoli sono stati condotti per pali di diametro:

- D = 800 mm;
- D = 1000 mm;
- D = 1200 mm;
- D = 1500 mm.

VELOCIZZAZIONE DELLA LINEA ROMA-PESCARA – RADDOPPIO PESCARA PORTA NUOVA – CHIETI – LOTTO 1

Capacità portante a compressione (SLU) [kN]

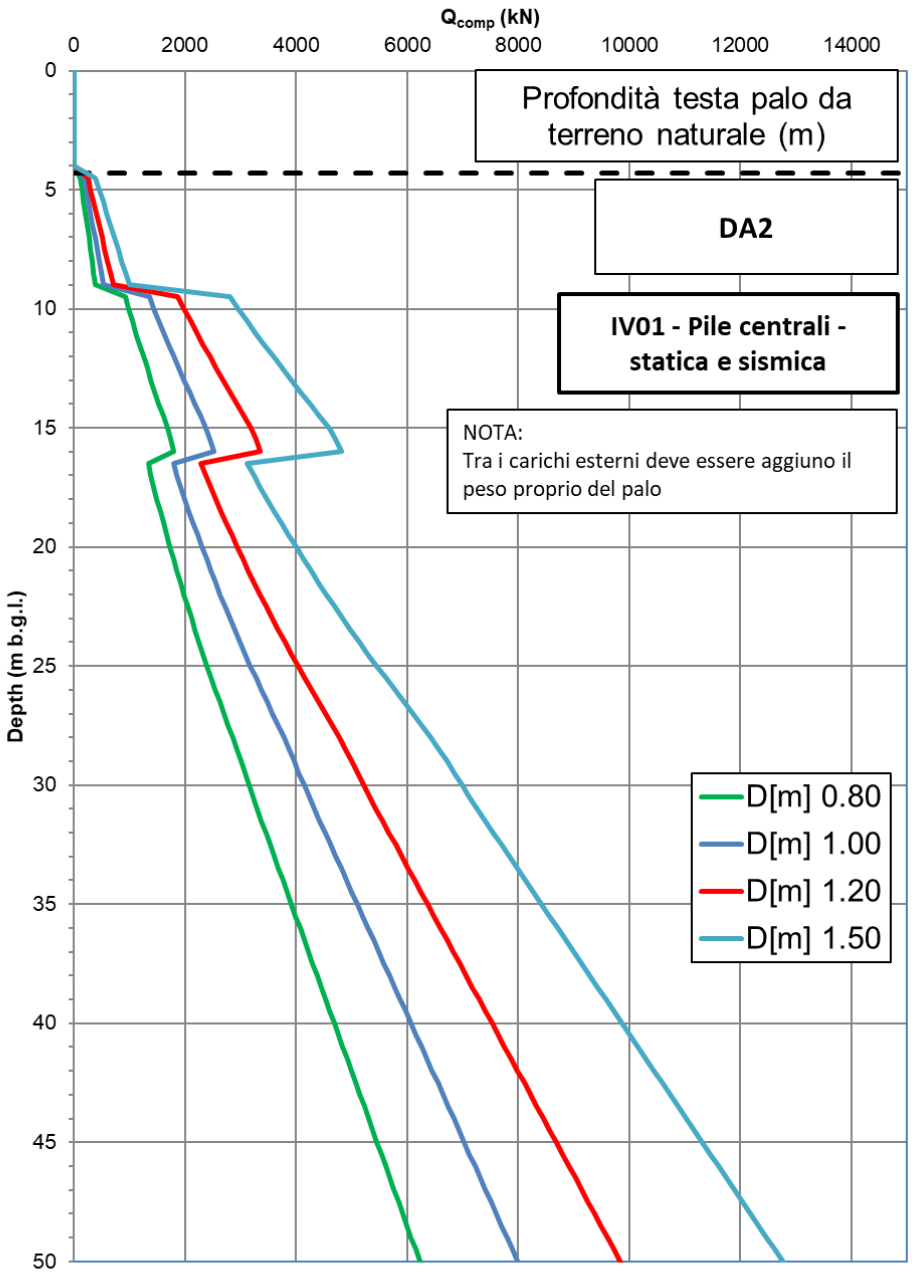


Figura 5.41: IV01 Pile - Curve di capacità portante a compressione (SLU) DA2 + SISMA

VELOCIZZAZIONE DELLA LINEA ROMA-PESCARA – RADDOPPIO PESCARA PORTA NUOVA – CHIETI – LOTTO 1

Capacità portante a trazione (SLU) [kN]

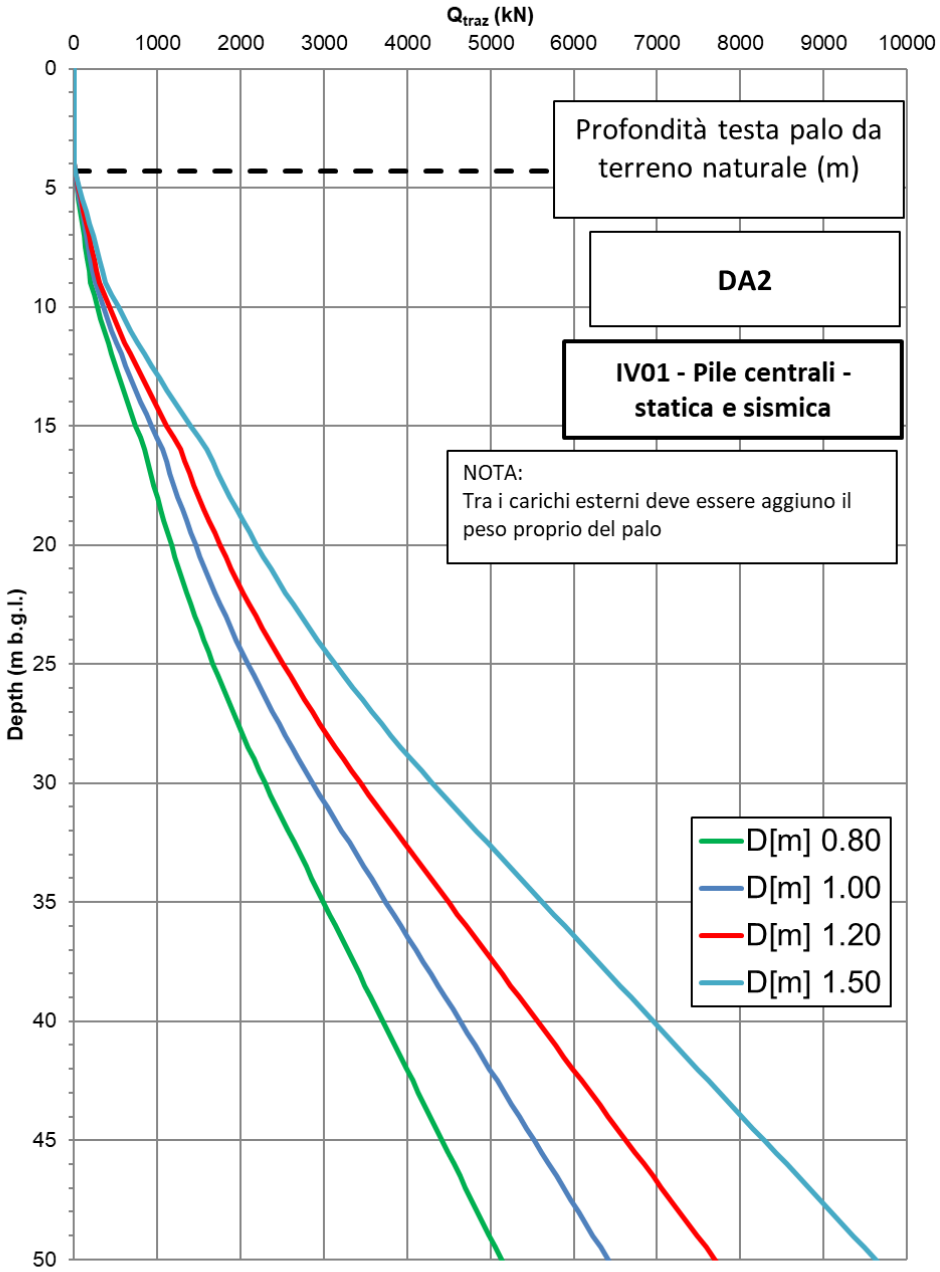


Figura 5.42: IV01 Pile - Curve di capacità portante a trazione (SLU) DA2 + SISMA

VELOCIZZAZIONE DELLA LINEA ROMA-PESCARA – RADDOPPIO PESCARA PORTA NUOVA – CHIETI – LOTTO 1

Capacità portante laterale

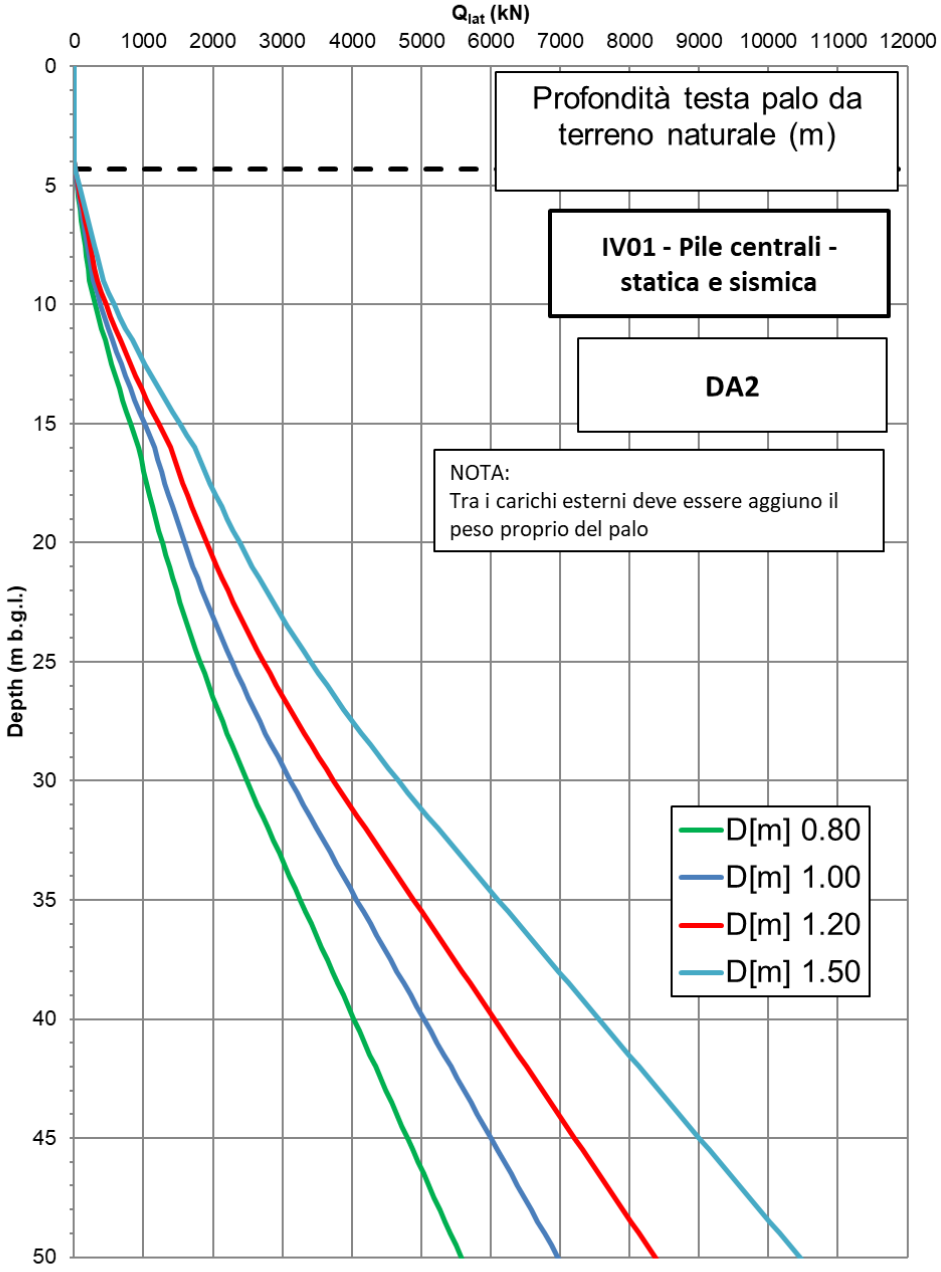


Figura 5.43: IV01 Pile - Contributo di resistenza laterale (SLU) DA2 + SISMA

VELOCIZZAZIONE DELLA LINEA ROMA-PESCARA – RADDOPPIO PESCARA PORTA NUOVA – CHIETI – LOTTO 1

Capacità portante di base

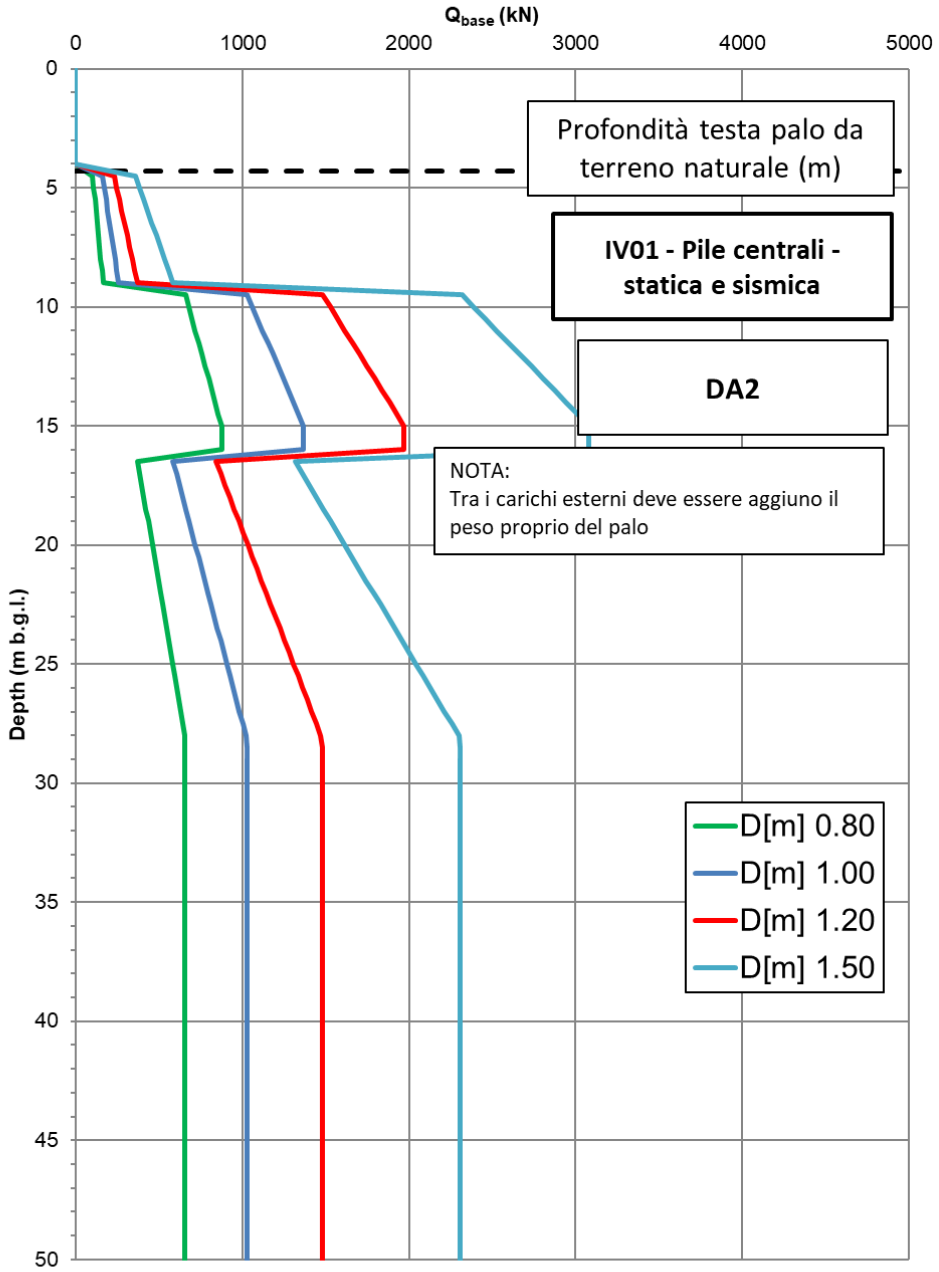


Figura 5.44: IV01 Pile - Contributo di portata di base (SLU) DA2 + SISMA

VELOCIZZAZIONE DELLA LINEA ROMA-PESCARA – RADDOPPIO PESCARA PORTA NUOVA – CHIETI – LOTTO 1

Capacità portante laterale caratteristica

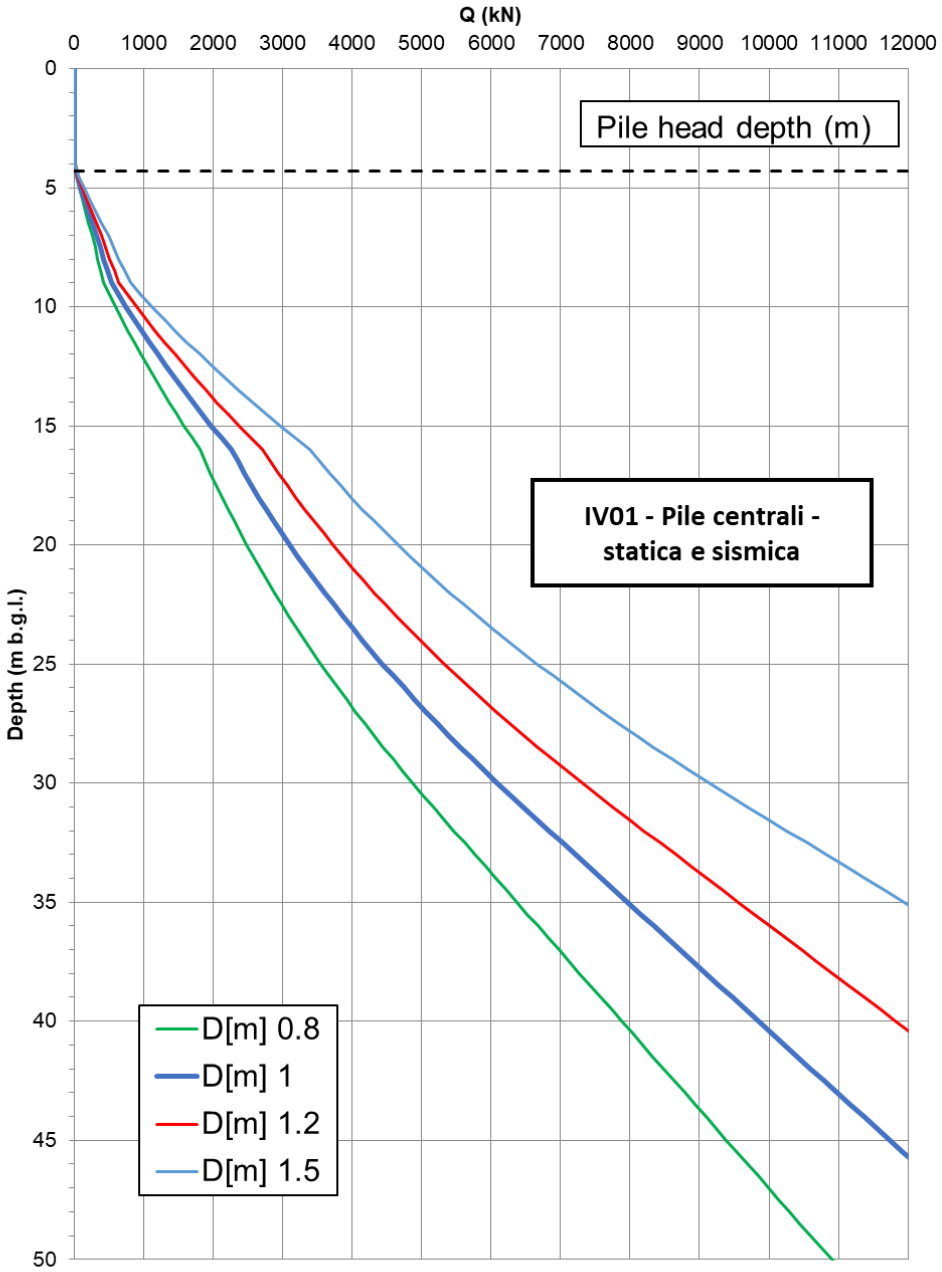


Figura 5.45: IV01 Pile - Curve di resistenza laterale caratteristica

5.5.3 Curve carico-cedimento palo singolo

In accordo alla procedura descritta al precedente punto 4.2.1, utilizzando il metodo delle curve di trasferimento mediante l'ausilio del codice di calcolo TZ-Pile ver. 2014.3.2, si è calcolata la curva carico-cedimento per i pali del VI03. Nelle valutazioni sono state considerate, per ciascun diametro di palo, tre lunghezze di riferimento pari a 20 m, 25 m e 35 m.

Spalla A

Nella Figura 5.46 si riporta la curva carico-cedimento calcolata per il palo di diametro 800 mm, nella Figura 5.47 per il palo di diametro 1000 mm, nella Figura 5.48 per il palo di diametro 1200 mm e nella Figura 5.49 per il palo di diametro 1500 mm.

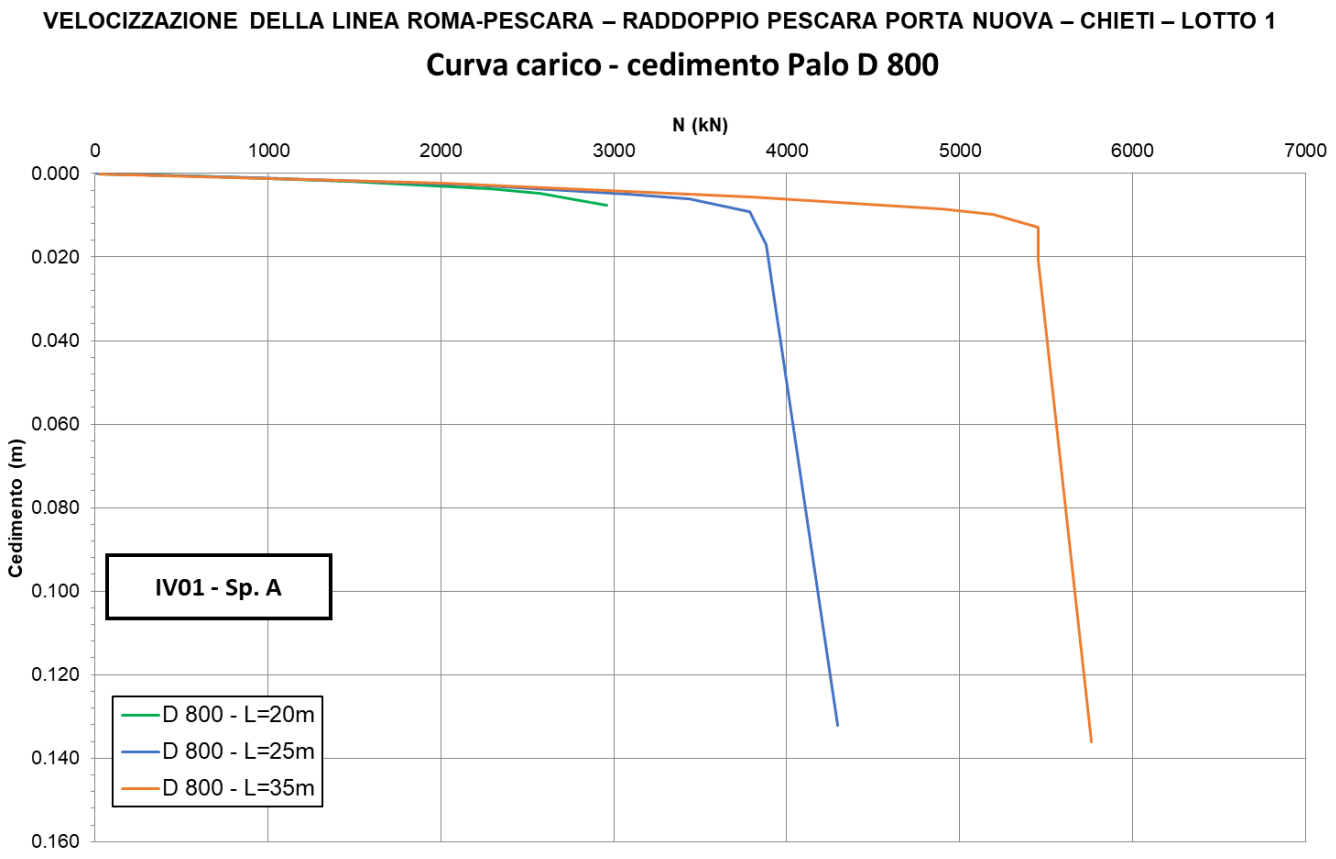


Figura 5.46: IV01 Spalla A - Curva carico cedimento – D800

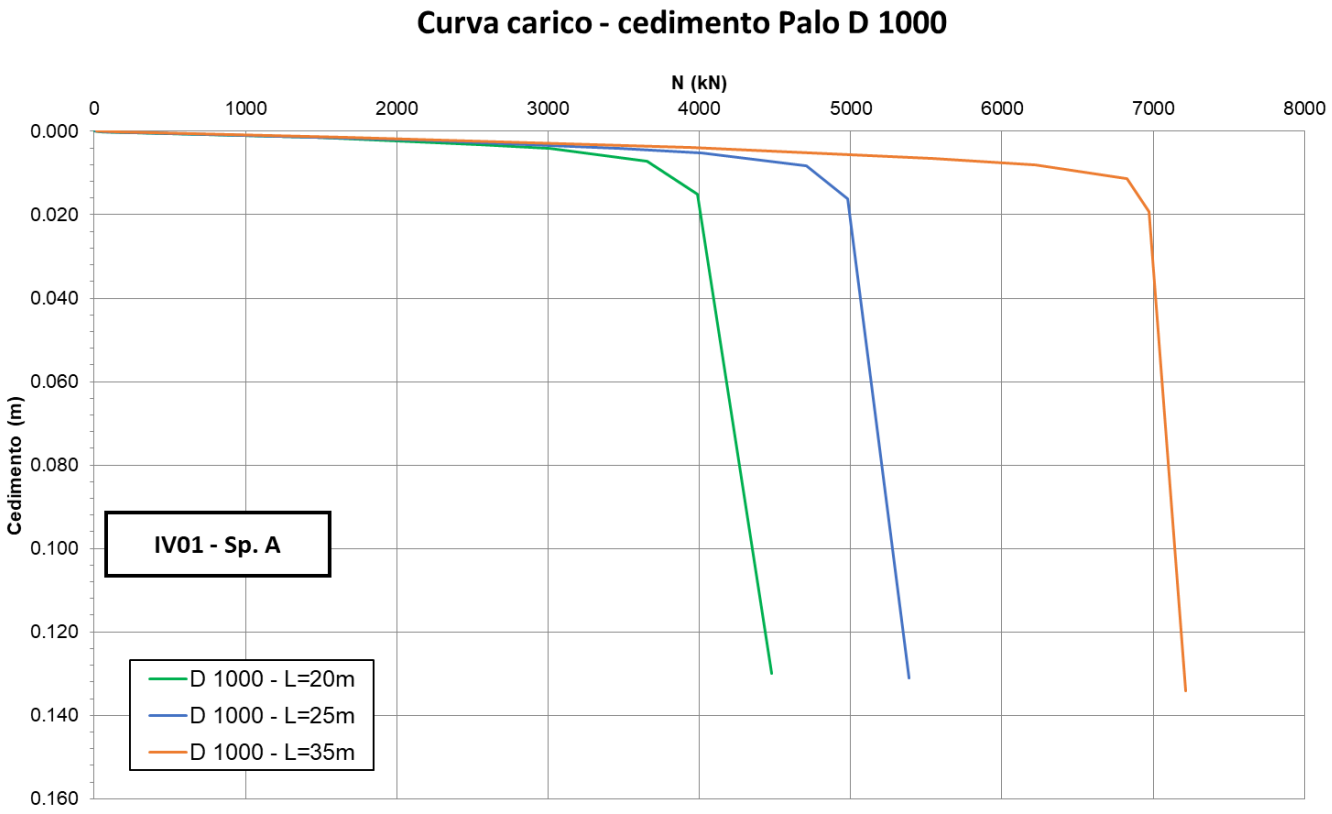


Figura 5.47: IV01 Spalla A - Curva carico cedimento – D1000

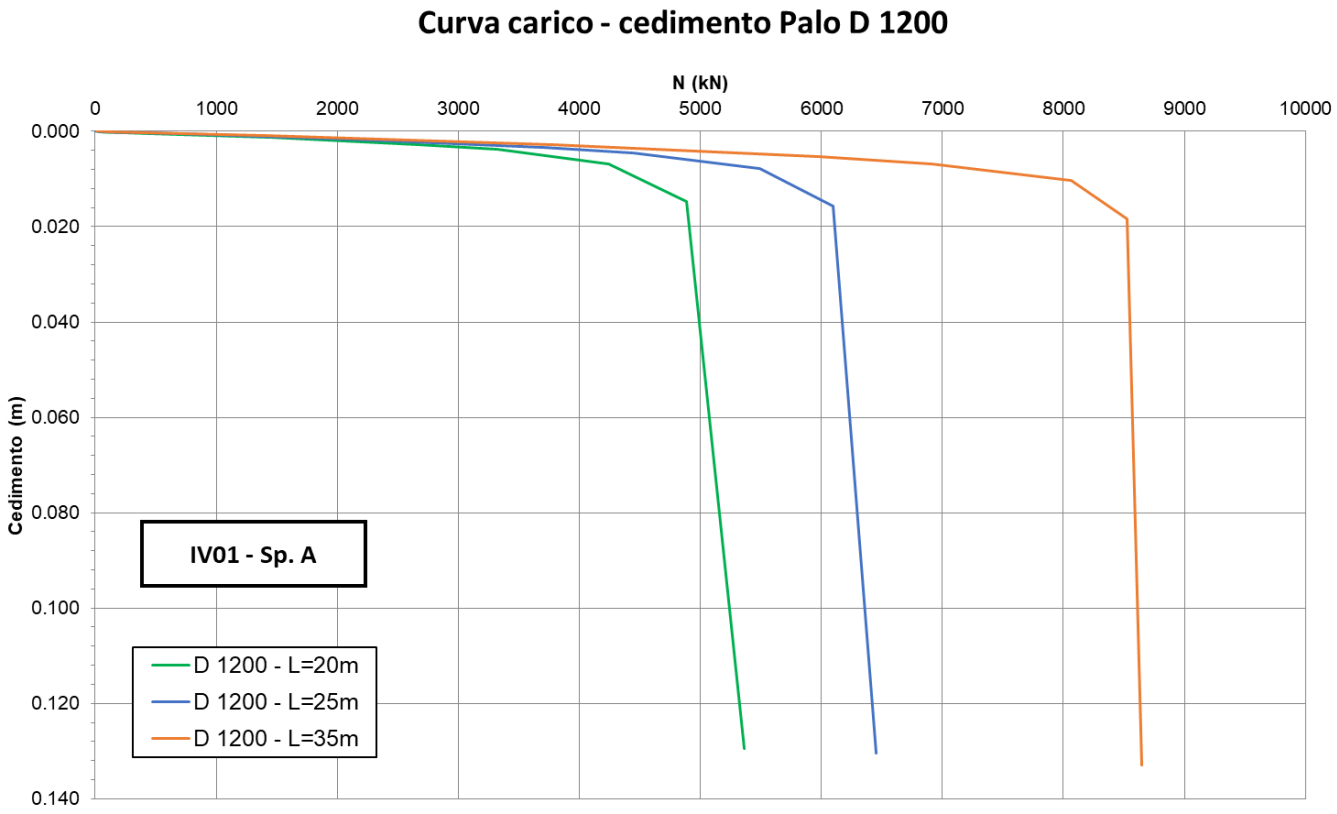


Figura 5.48: IV01 Spalla A - Curva carico cedimento – D1200

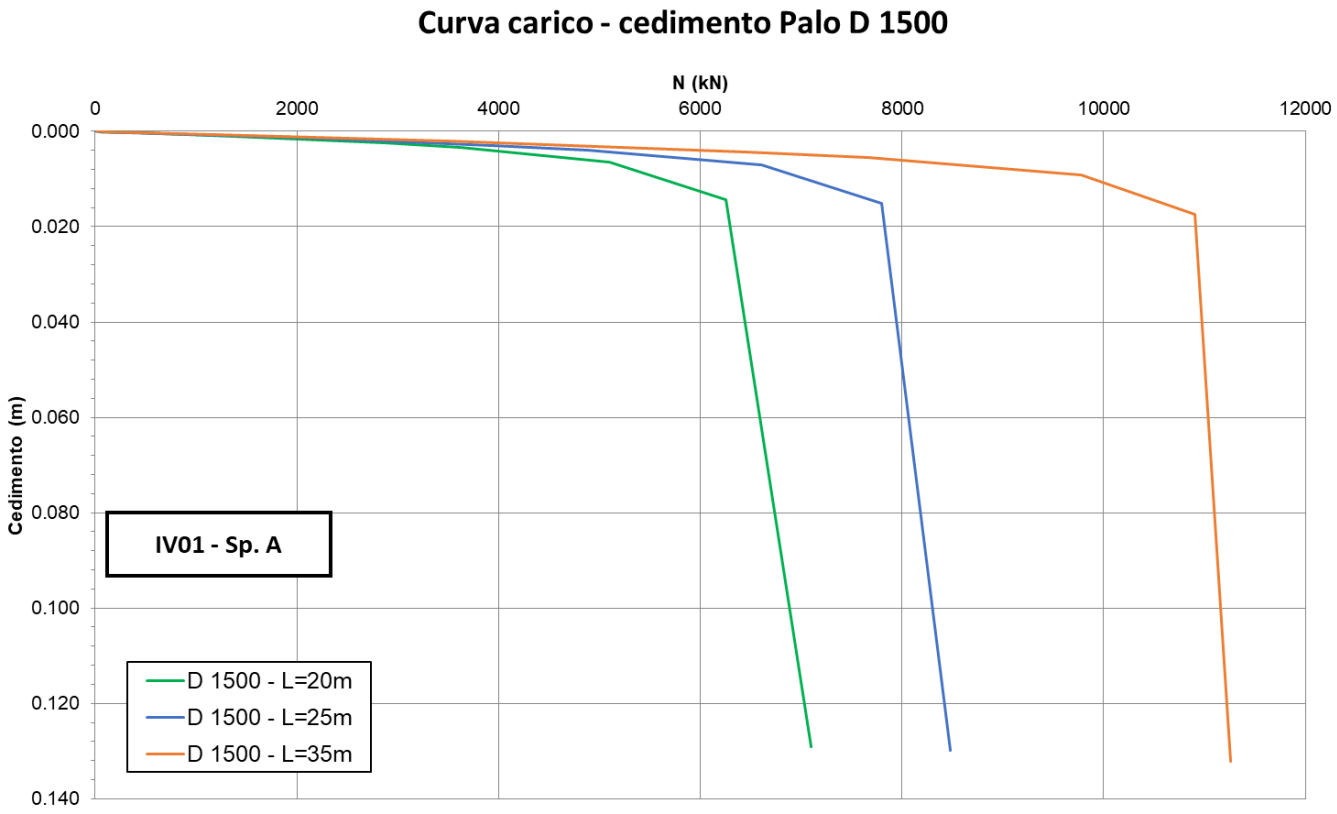


Figura 5.49: IV01 Spalla A - Curva carico cedimento – D1500

Spalla B

Nella Figura 5.50 si riporta la curva carico-cedimento calcolata per il palo di diametro 800 mm, nella Figura 5.51 per il palo di diametro 1000 mm, nella Figura 5.52 per il palo di diametro 1200 mm e nella Figura 5.53 per il palo di diametro 1500 mm.

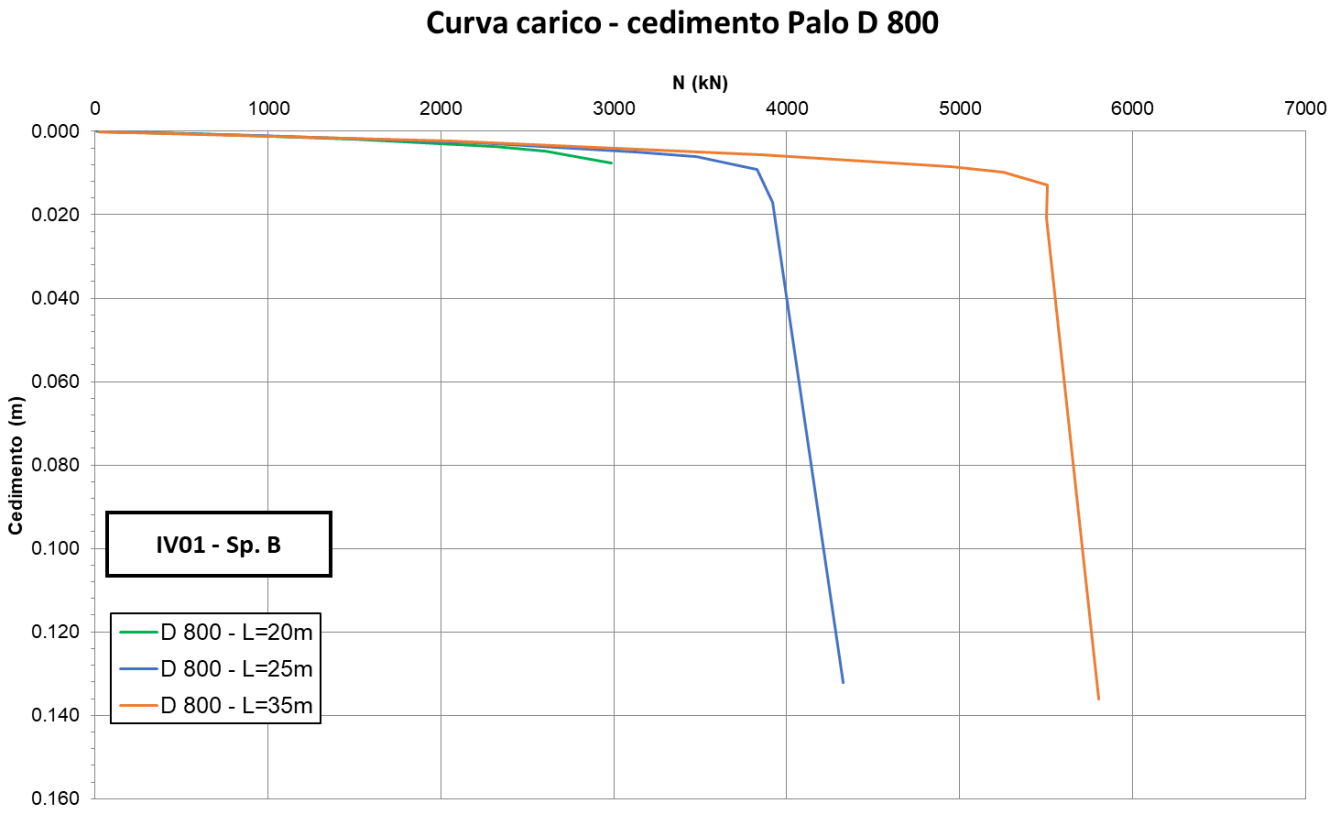


Figura 5.50: IV01 Spalla B - Curva carico cedimento – D800

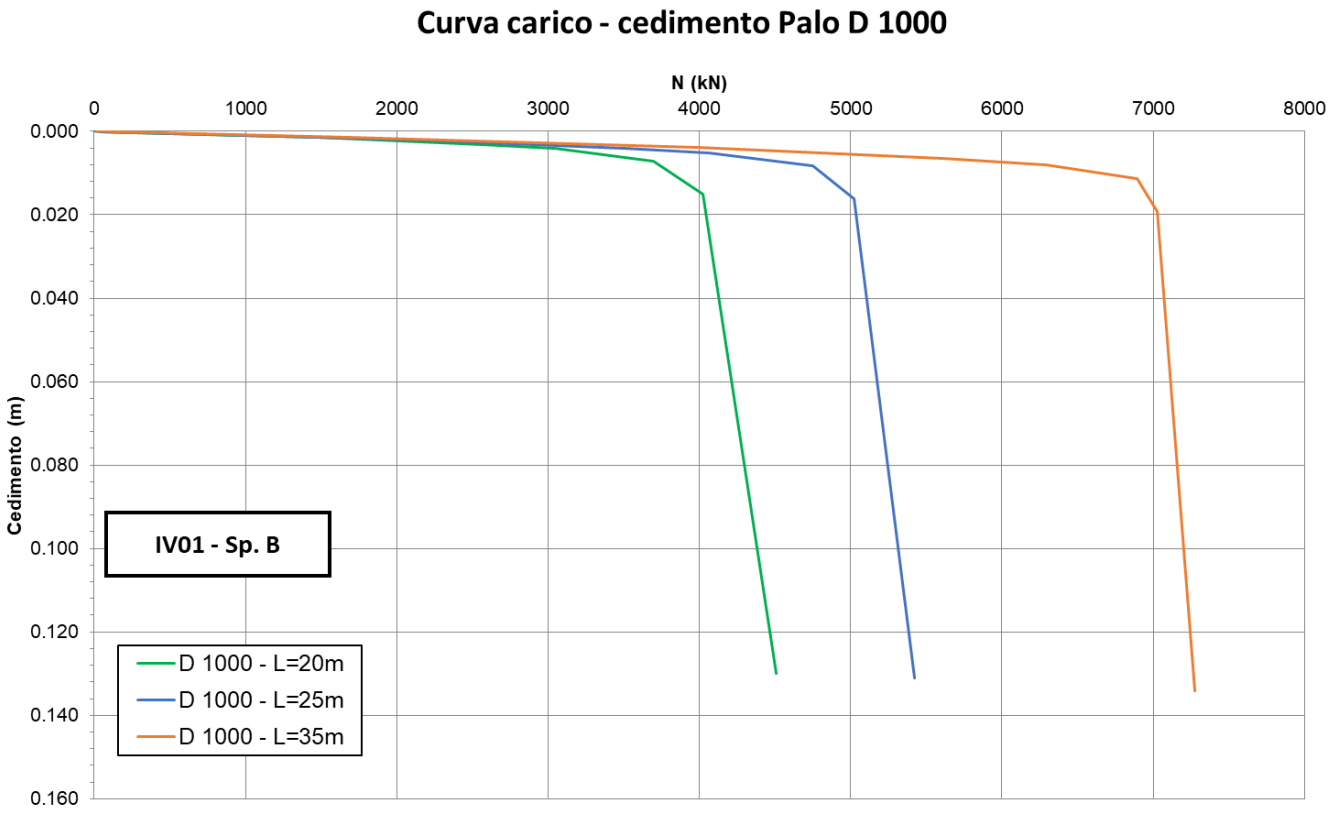


Figura 5.51: IV01 Spalla B - Curva carico cedimento – D1000

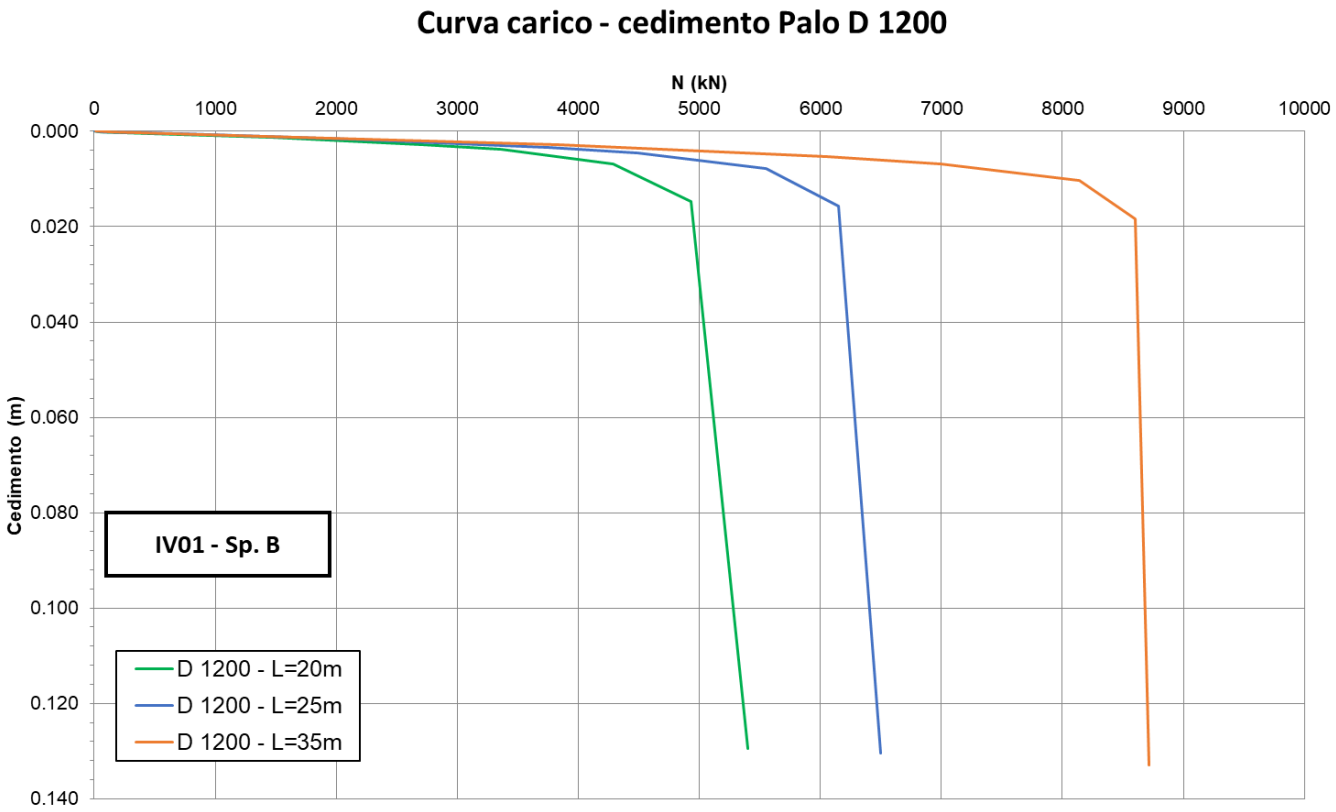


Figura 5.52: IV01 Spalla B - Curva carico cedimento – D1200

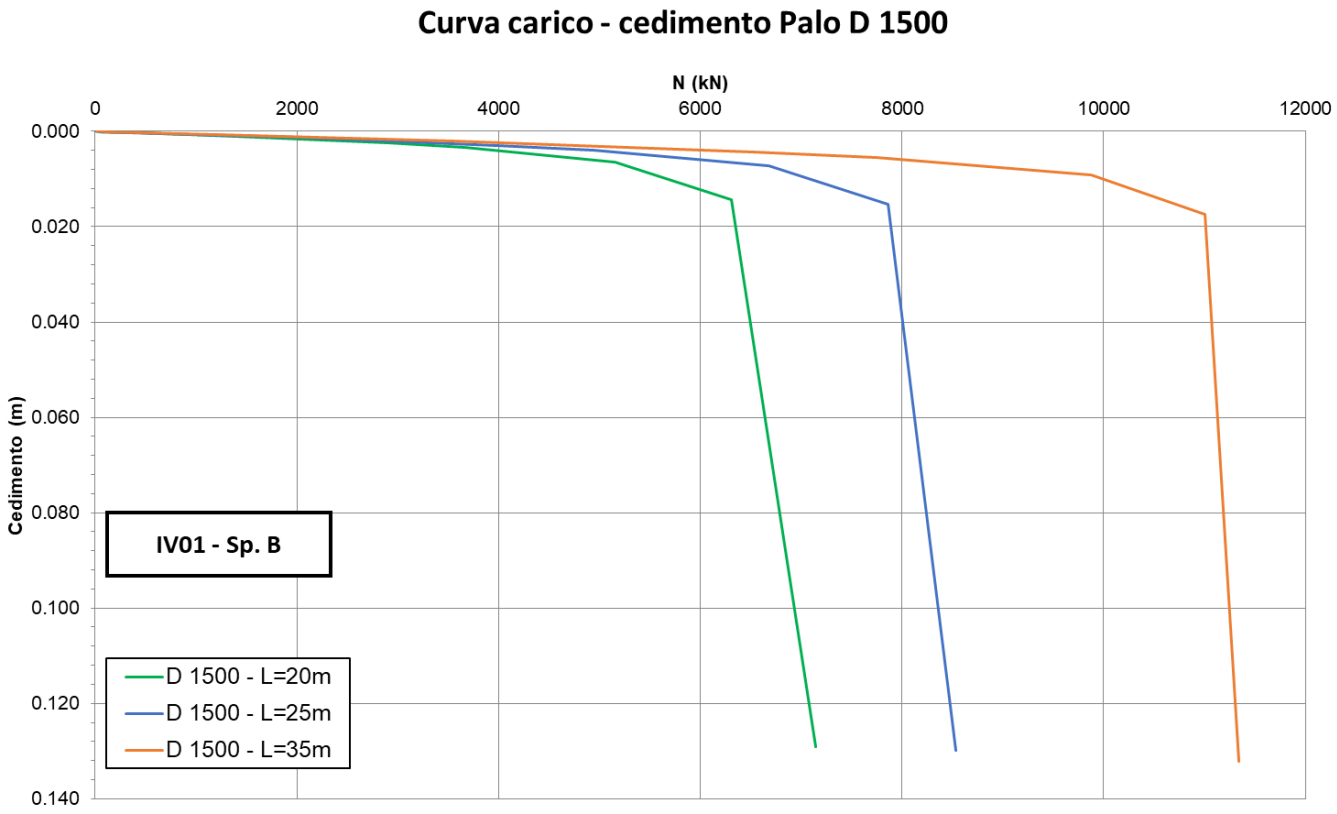


Figura 5.53: IV01 Spalla B - Curva carico cedimento – D1500

Pile

Nella Figura 5.54 si riporta la curva carico-cedimento calcolata per il palo di diametro 800 mm, nella Figura 5.55 per il palo di diametro 1000 mm, nella Figura 5.56 per il palo di diametro 1200 mm e nella Figura 5.57 per il palo di diametro 1500 mm.

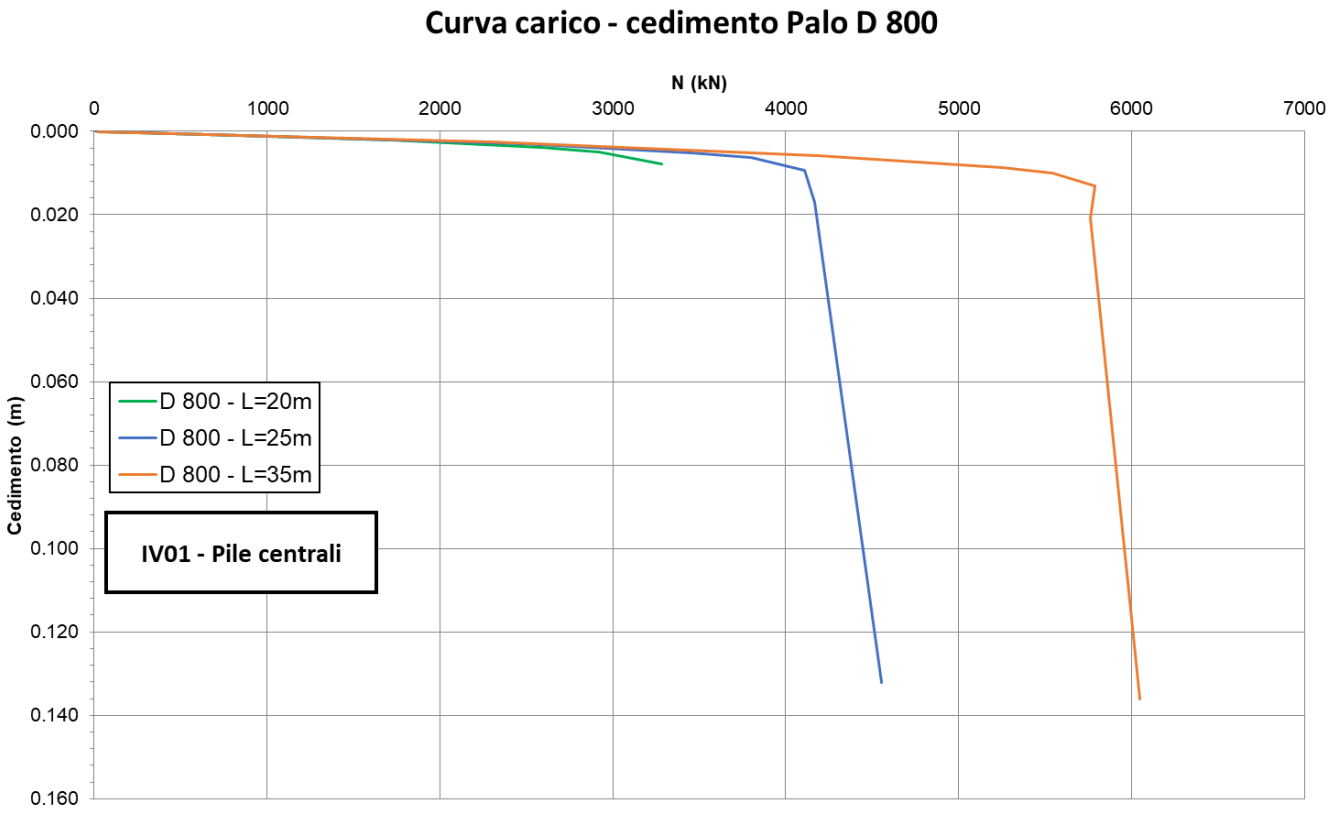


Figura 5.54: IV01 Pile - Curva carico cedimento – D800

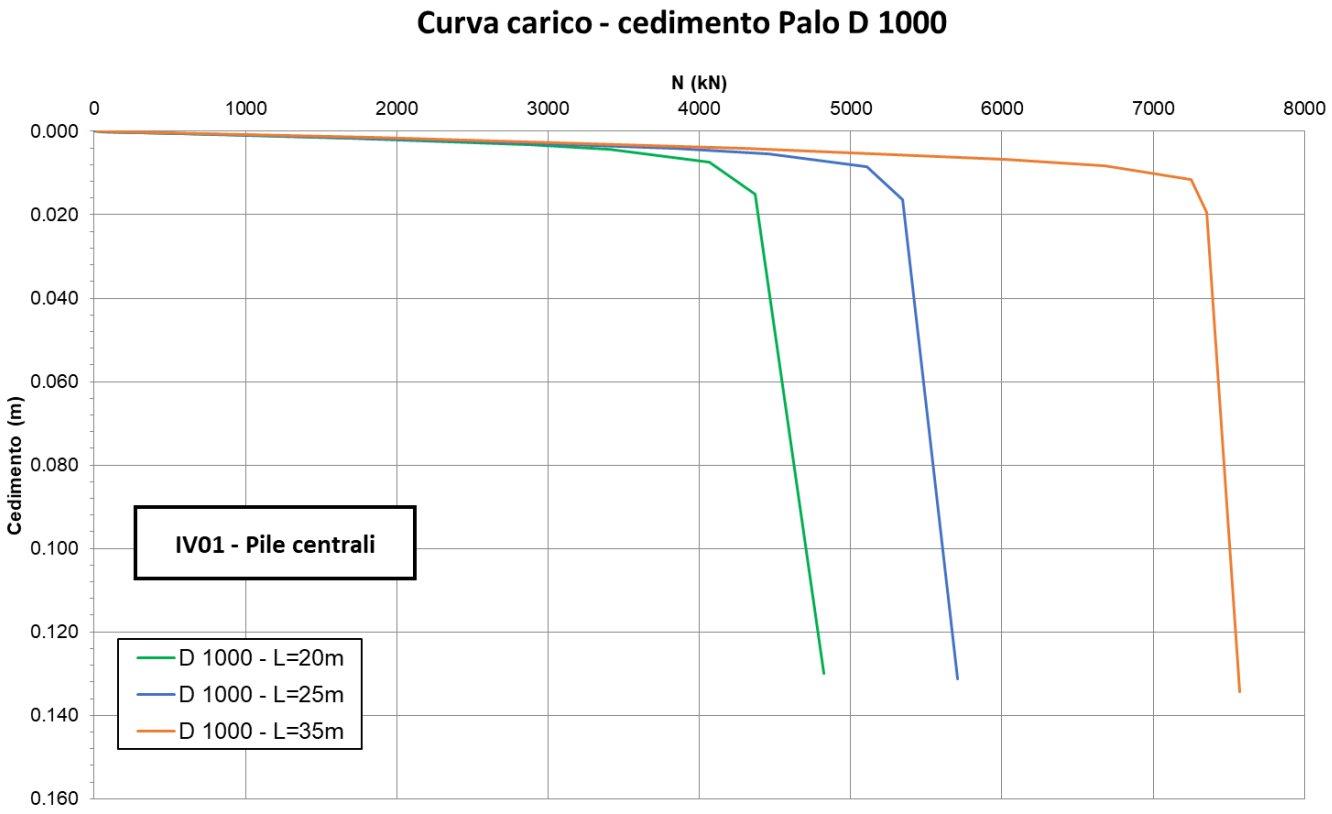


Figura 5.55: IV01 Pile - Curva carico cedimento – D1000

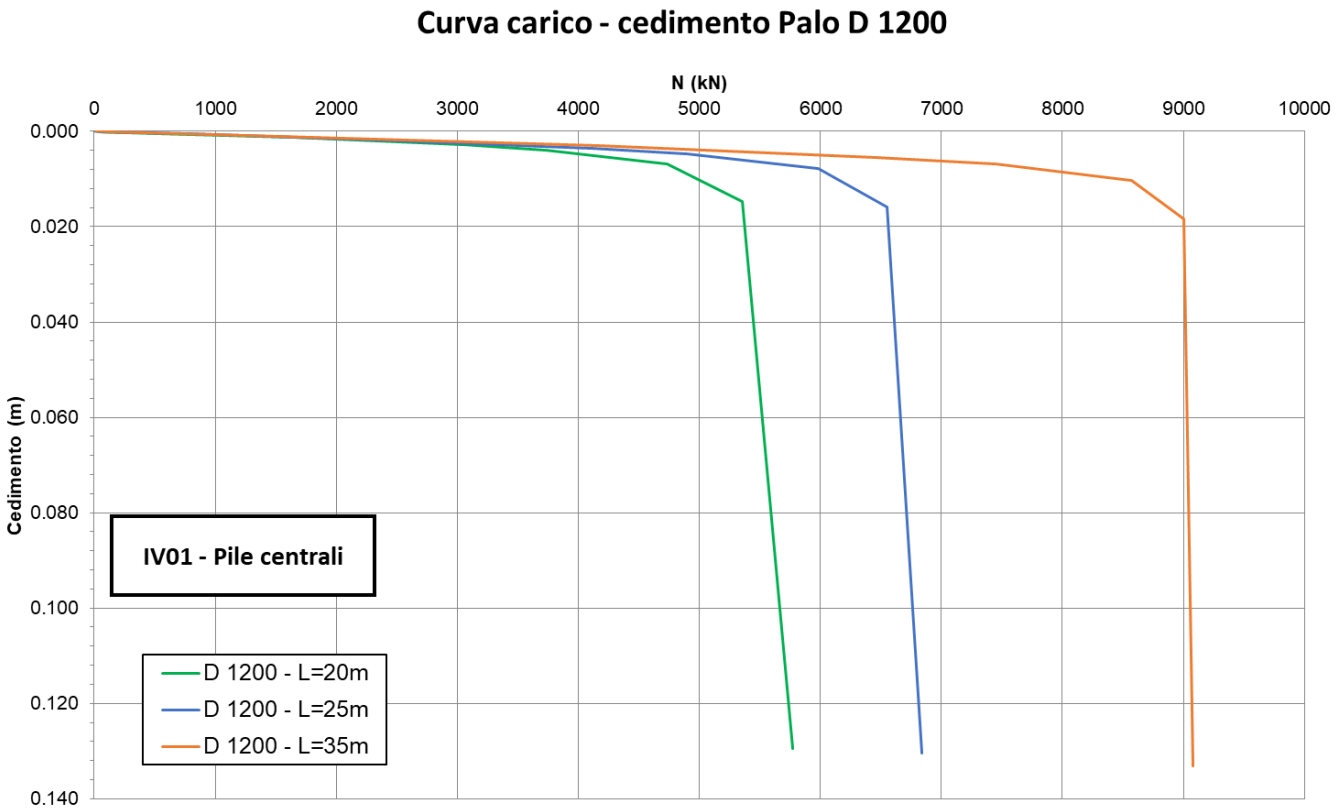


Figura 5.56: IV01 Pile - Curva carico cedimento – D1200

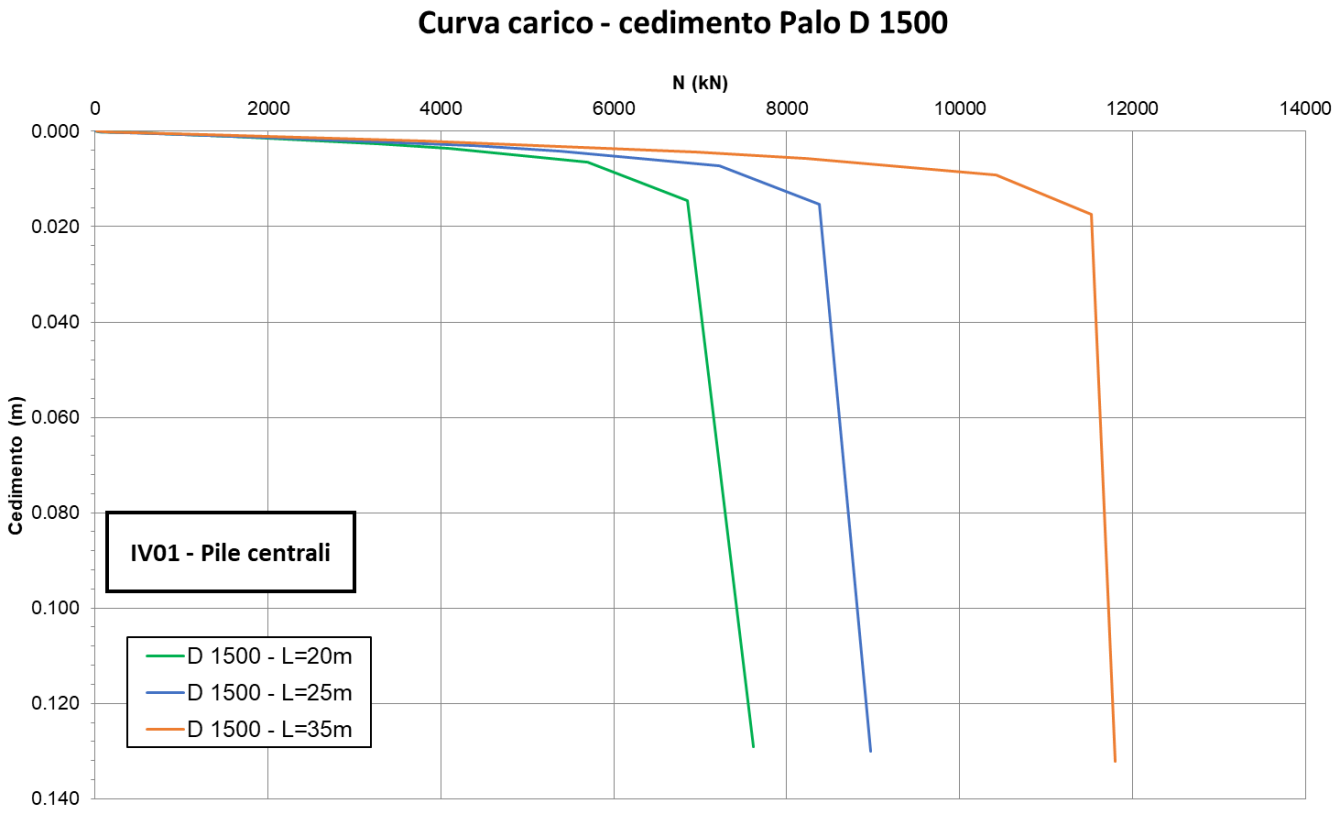


Figura 5.57: IV01 Pile - Curva carico cedimento – D1500

5.5.4 Comportamento del palo singolo soggetto a carico orizzontale

Come meglio specificato al precedente capitolo 4.3, lo studio dell'interazione palo-terreno sotto carichi orizzontali è stata condotta utilizzando il metodo delle curve di trasferimento mediante l'ausilio del codice di calcolo L-Pile ver. 2016.9.09.

In particolare, i calcoli sono stati eseguiti considerando, per tutti i diametri di palo selezionati, una lunghezza di palo pari a 20 m. Tuttavia considerato che il comportamento del palo soggetto a carichi orizzontali dipende solamente dalle caratteristiche degli strati di terreno fino a profondità

pari a 10÷12 volte il diametro del palo stesso, i risultati possono essere estesi a lunghezze di palo maggiori di quelle analizzate.

Nelle analisi la connessione della testa palo alla fondazione è stata considerata a "testa incernierata".

Spalla A

Nella Figura 5.58 si riporta la curva carico-cedimento calcolata per i pali di diametro 800 mm, 1000 mm, 1200 mm e 1500 mm.

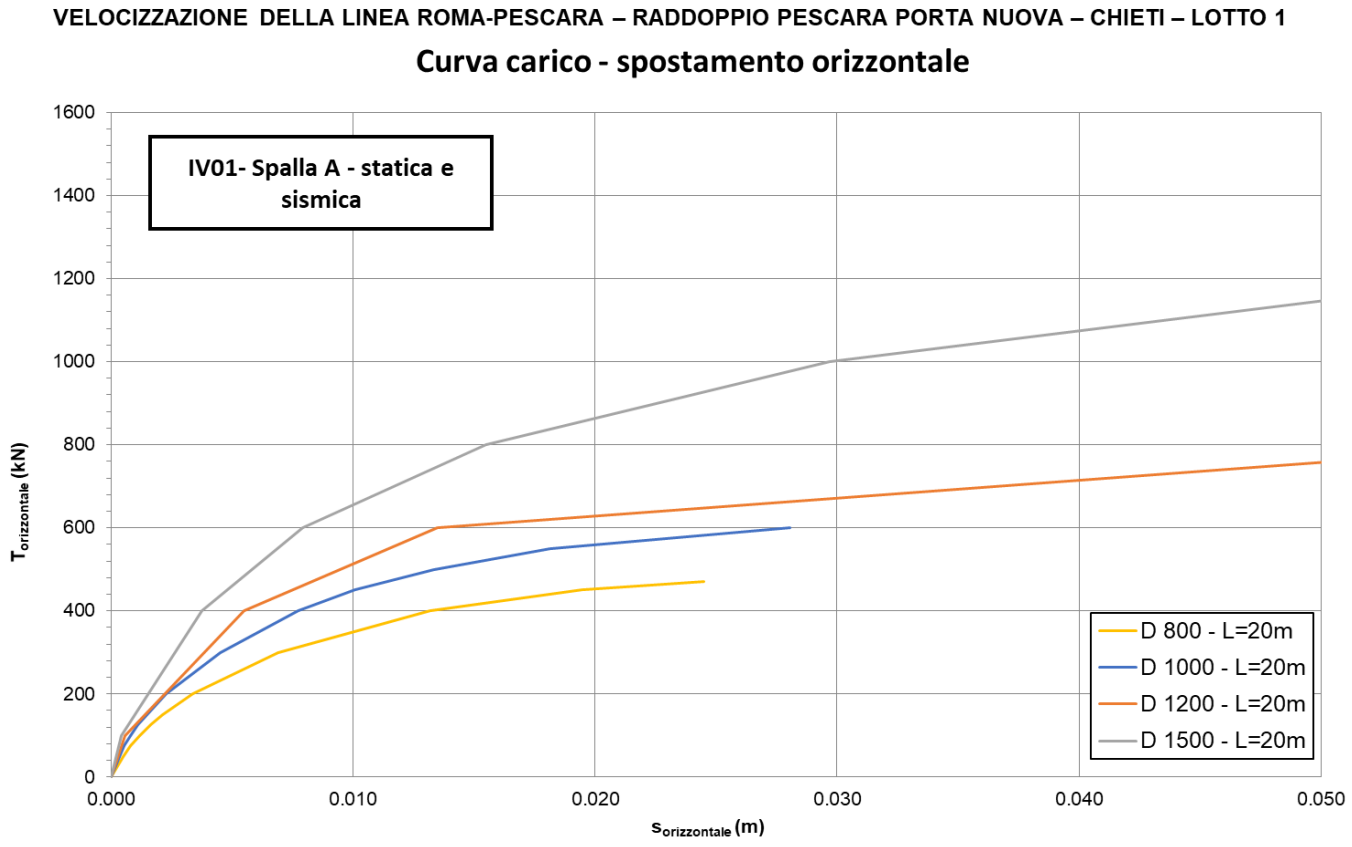
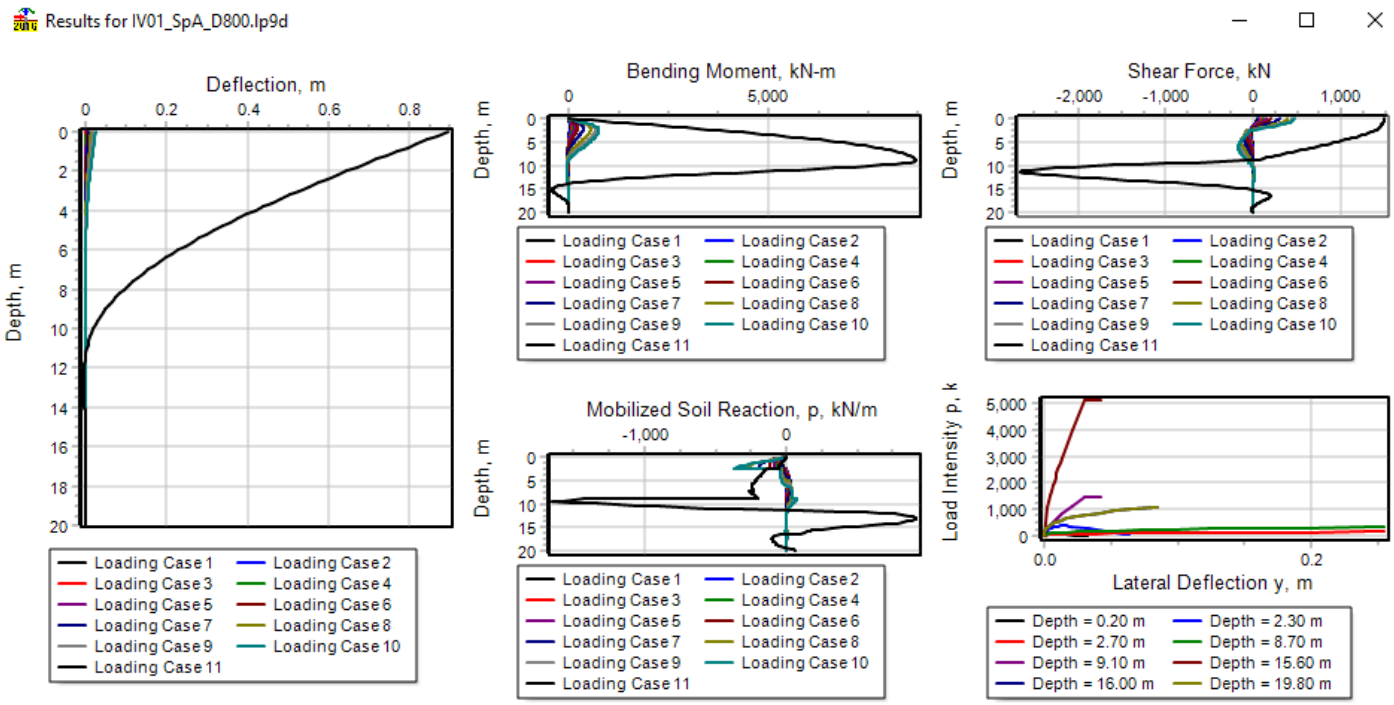


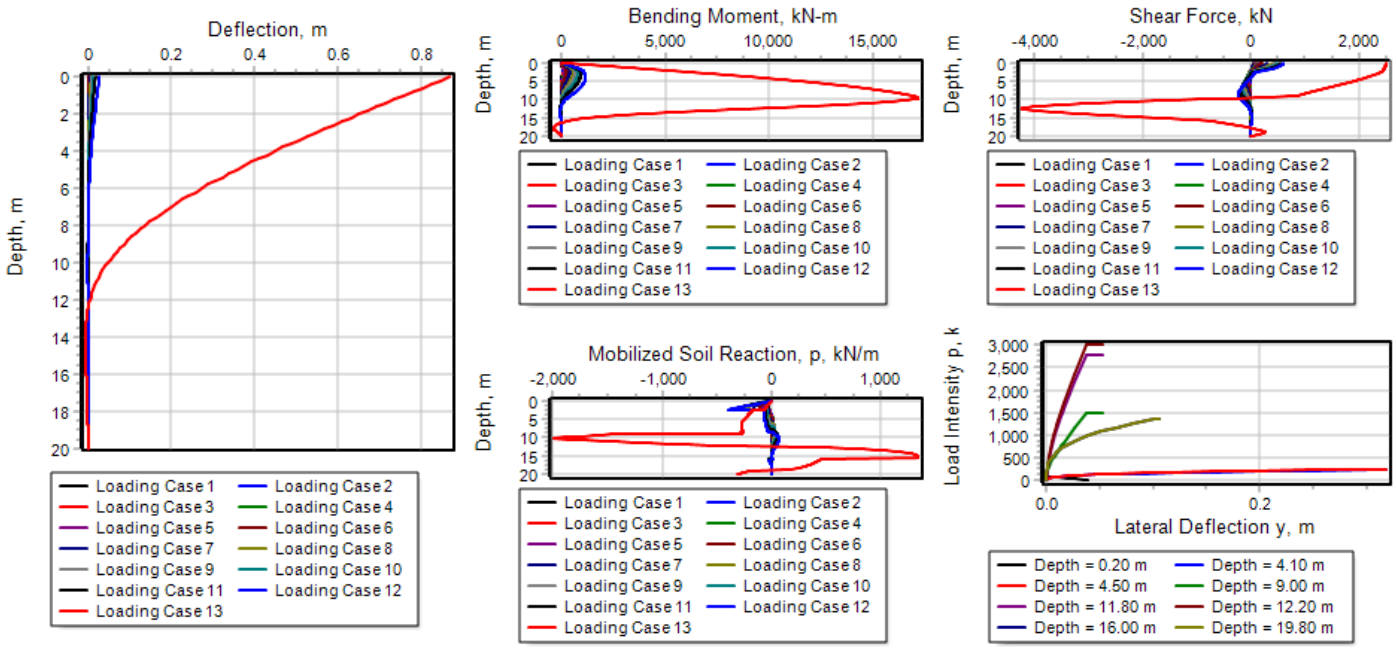
Figura 5.58: IV01 Spalla A - Curva carico – spostamento orizzontale

Per quanto riguarda la resistenza di progetto ai carichi orizzontali è stato valutato di adottare conservativamente il valore del carico trasversale, definito con il codice di calcolo L-Pile, in corrispondenza del quale si ha la prima insorgenza di plasticizzazione nel terreno circostante il palo o comunque uno spostamento rilevante della testa palo, come si può vedere dai grafici sotto riportati nella parte dedicata alla resistenza del terreno mobilitata. I valori ottenuti per i diversi diametri sono i seguenti:

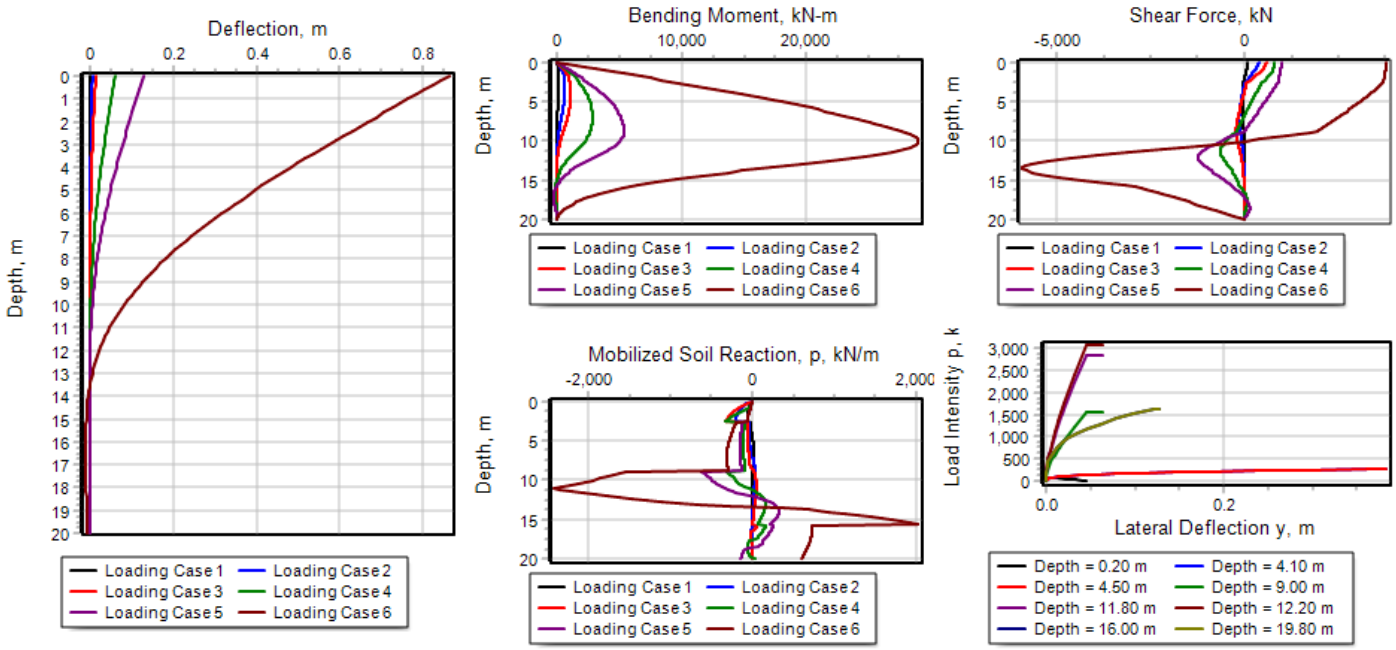
- D800 mm – T = 1500 kN
- D1000 mm – T = 2500 kN
- D1200 mm – T = 3800 kN
- D1500 mm – T = 5700 kN

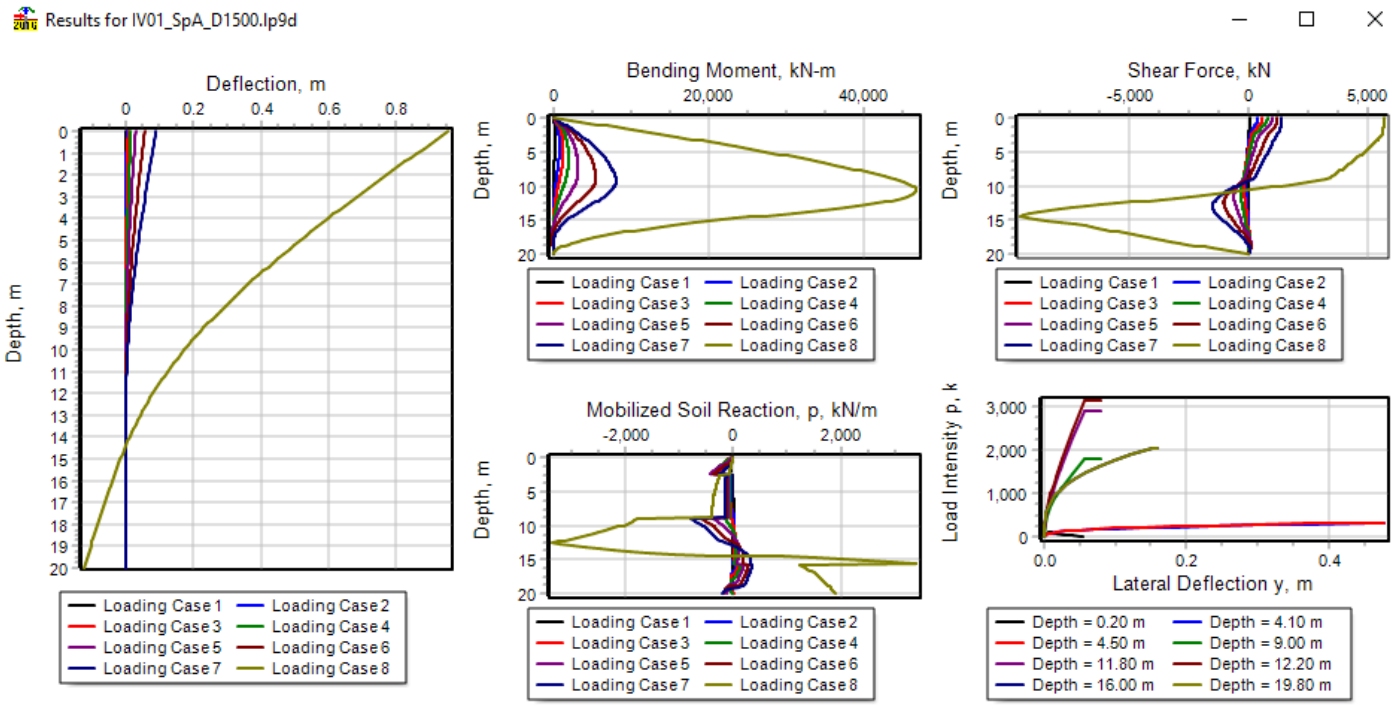


Results for IV01_SpA_D1000.lp9d



Results for IV01_SpA_D1200.lp9d





Da cui, applicando il fattore parziale γ_r = 1.3 si ottengono i seguenti valori di $R_{tr,d}$:

- D800 mm – $R_{tr,d}$ = 1153 kN
- D1000 mm – $R_{tr,d}$ = 1923 kN
- D1200 mm – $R_{tr,d}$ = 2923 kN
- D1500 mm – $R_{tr,d}$ = 4384 kN

<u>Spalla B</u>

Nella Figura 5.59 si riporta la curva carico-cedimento calcolata per i pali di diametro 800 mm, 1000 mm, 1200 mm e 1500 mm.

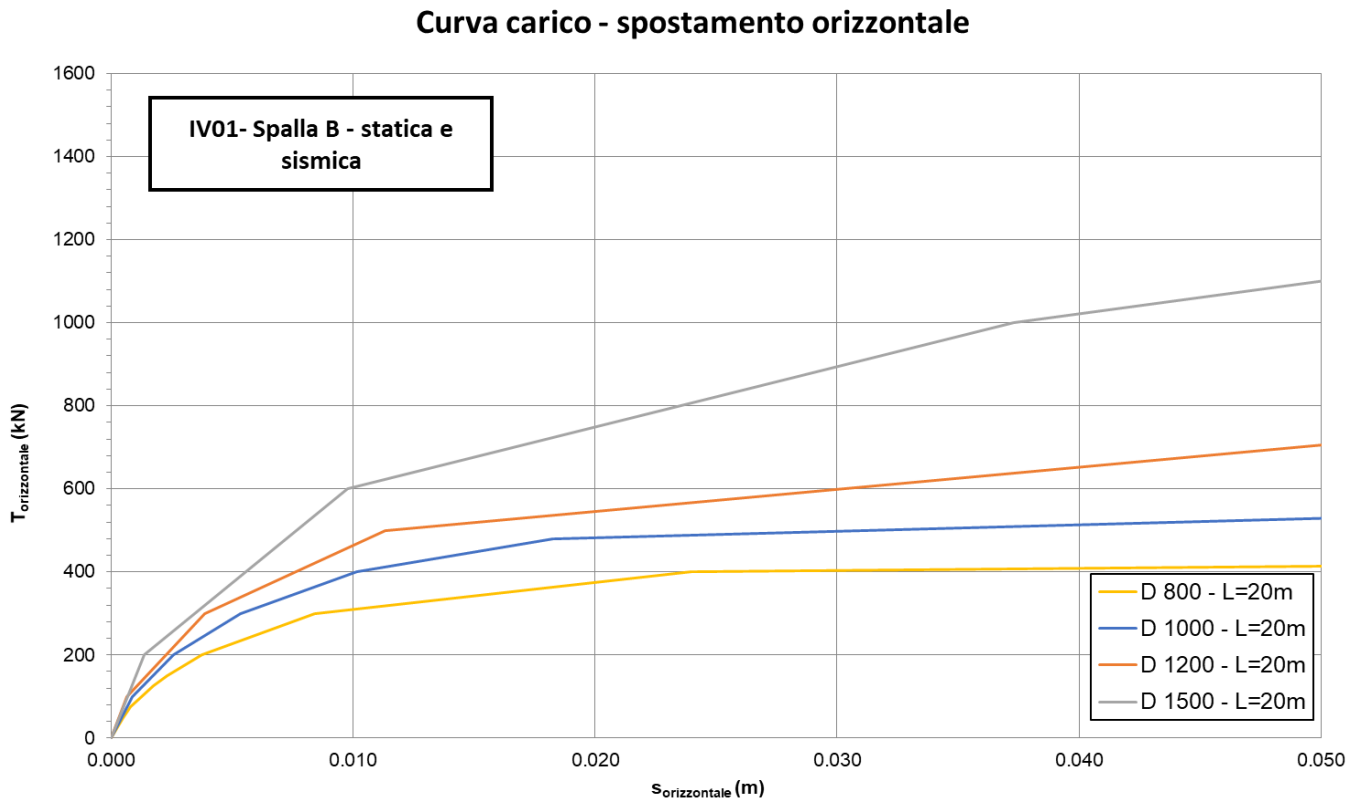
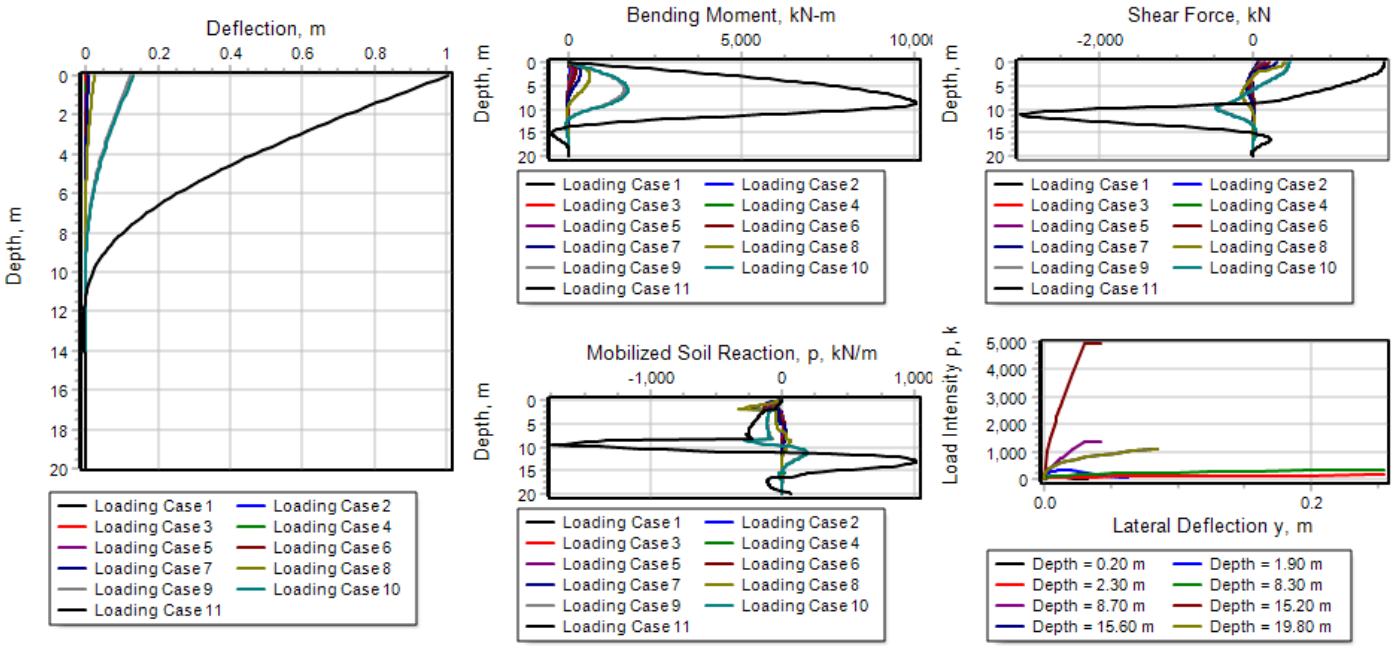


Figura 5.59: IV01 Spalla B - Curva carico – spostamento orizzontale

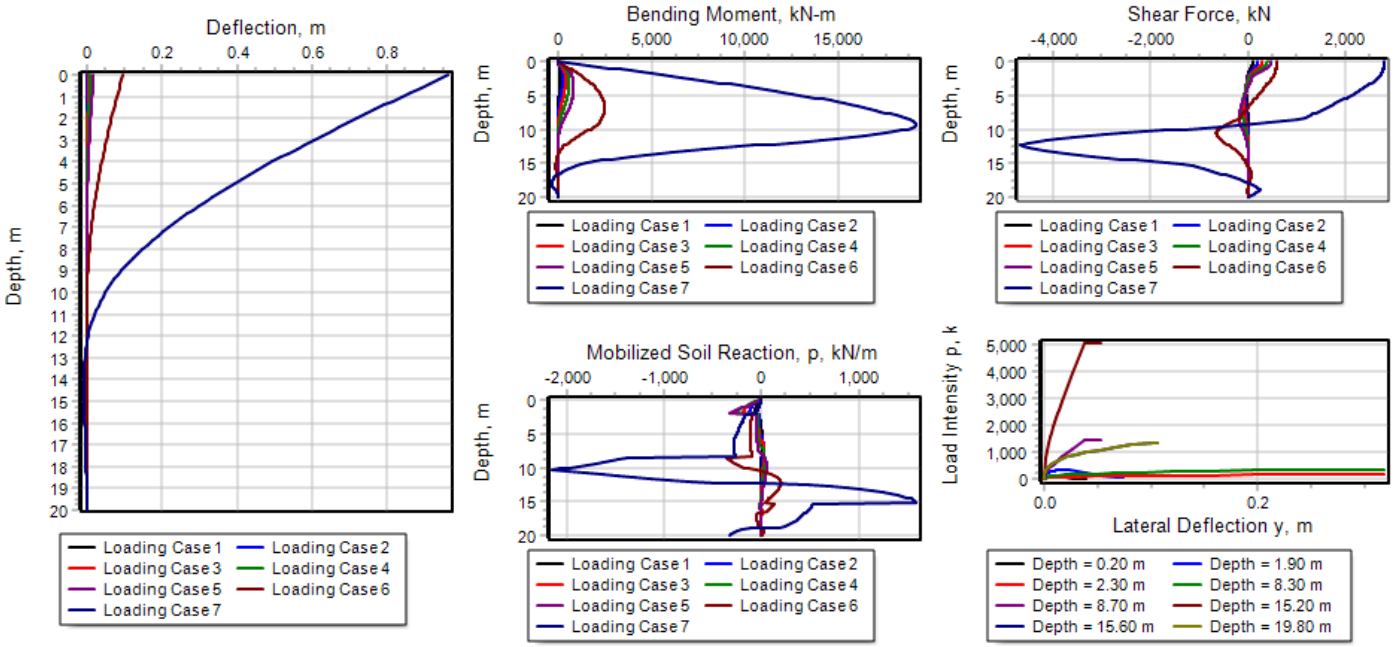
Per quanto riguarda la resistenza di progetto ai carichi orizzontali è stato valutato di adottare conservativamente il valore del carico trasversale, definito con il codice di calcolo L-Pile, in corrispondenza del quale si ha la prima insorgenza di plasticizzazione nel terreno circostante il palo o comunque uno spostamento rilevante della testa palo, come si può vedere dai grafici sotto riportati nella parte dedicata alla resistenza del terreno mobilitata. I valori ottenuti per i diversi diametri sono i seguenti:

- D800 mm – T = 1700 kN
- D1000 mm – T = 2800 kN
- D1200 mm – T = 4200 kN
- D1500 mm – T = 6000 kN

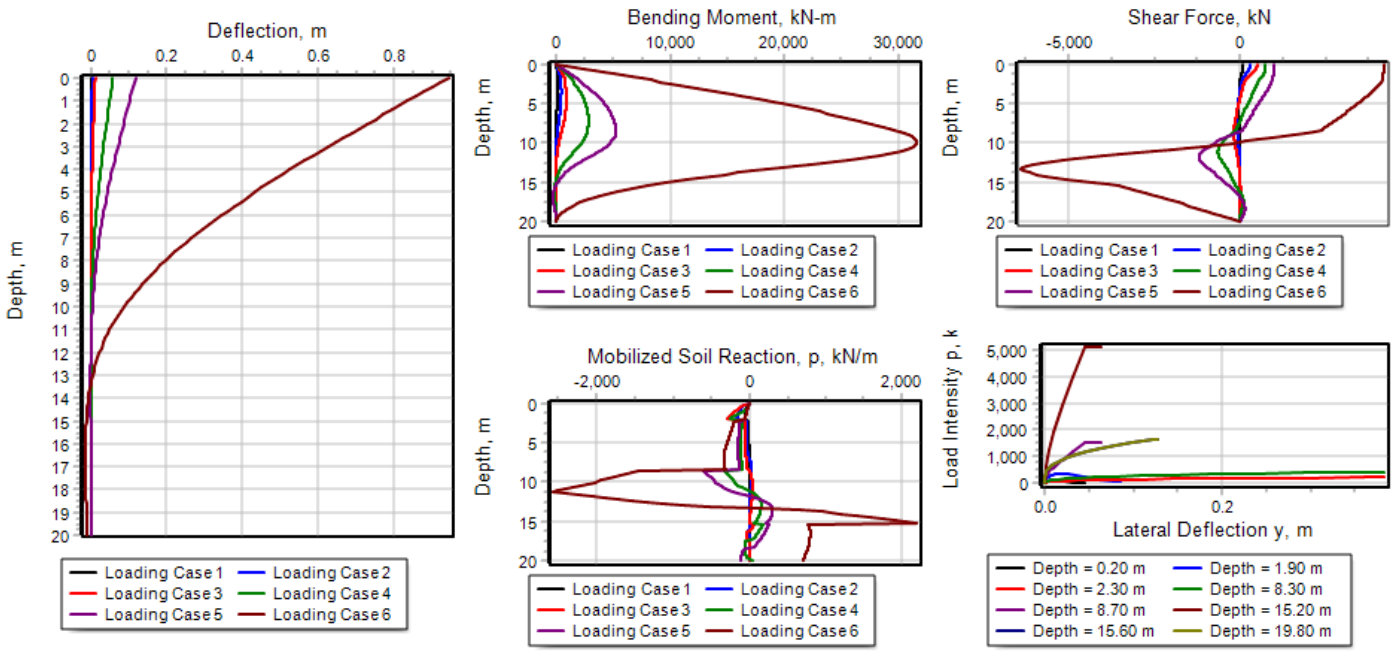
Results for IV01_SpB_D800.lp9d



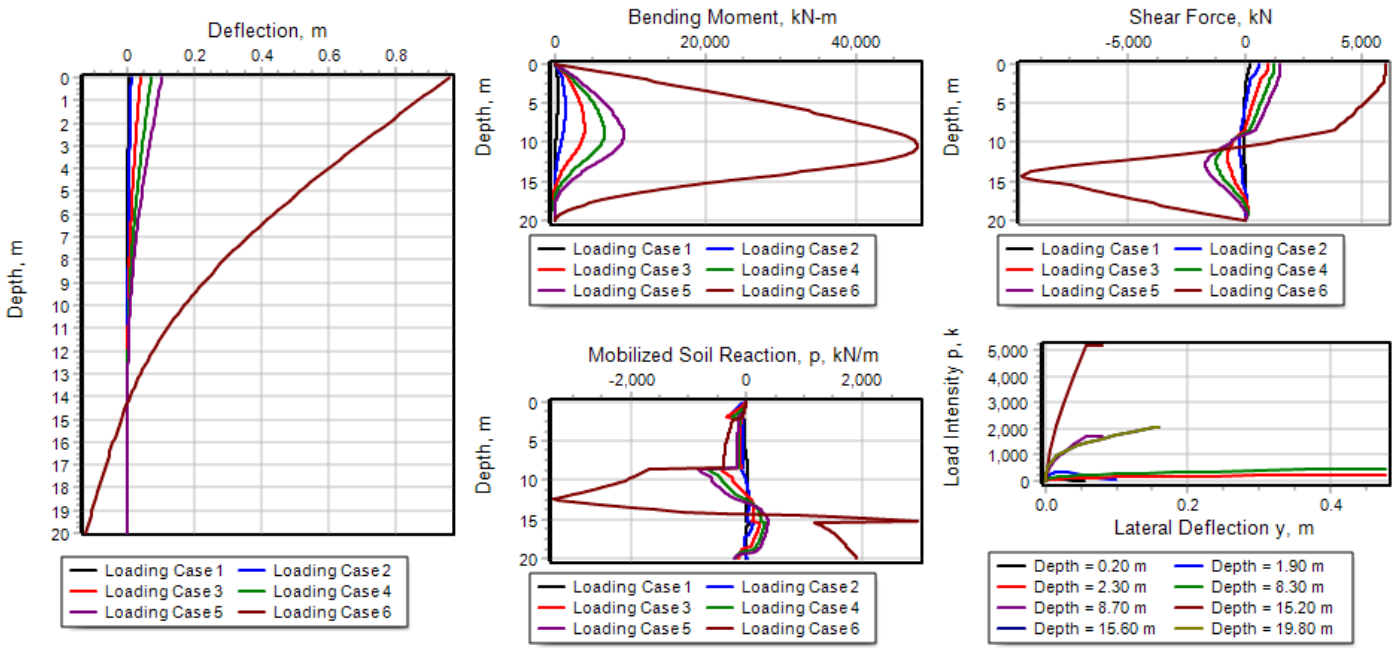
Results for IV01_SpB_D1000.lp9d



Results for IV01_SpB_D1200.lp9d



Results for IV01_SpB_D1500.lp9d



Da cui, applicando il fattore parziale γ_r = 1.3 si ottengono i seguenti valori di $R_{tr,d}$:

- D800 mm – $R_{tr,d}$ = 1307 kN
- D1000 mm – $R_{tr,d}$ = 2153 kN
- D1200 mm – $R_{tr,d}$ = 3230 kN
- D1500 mm – $R_{tr,d}$ = 4615 kN

Pile

Nella Figura 5.60 si riporta la curva carico-cedimento calcolata per i pali di diametro 800 mm, 1000 mm, 1200 mm e 1500 mm.

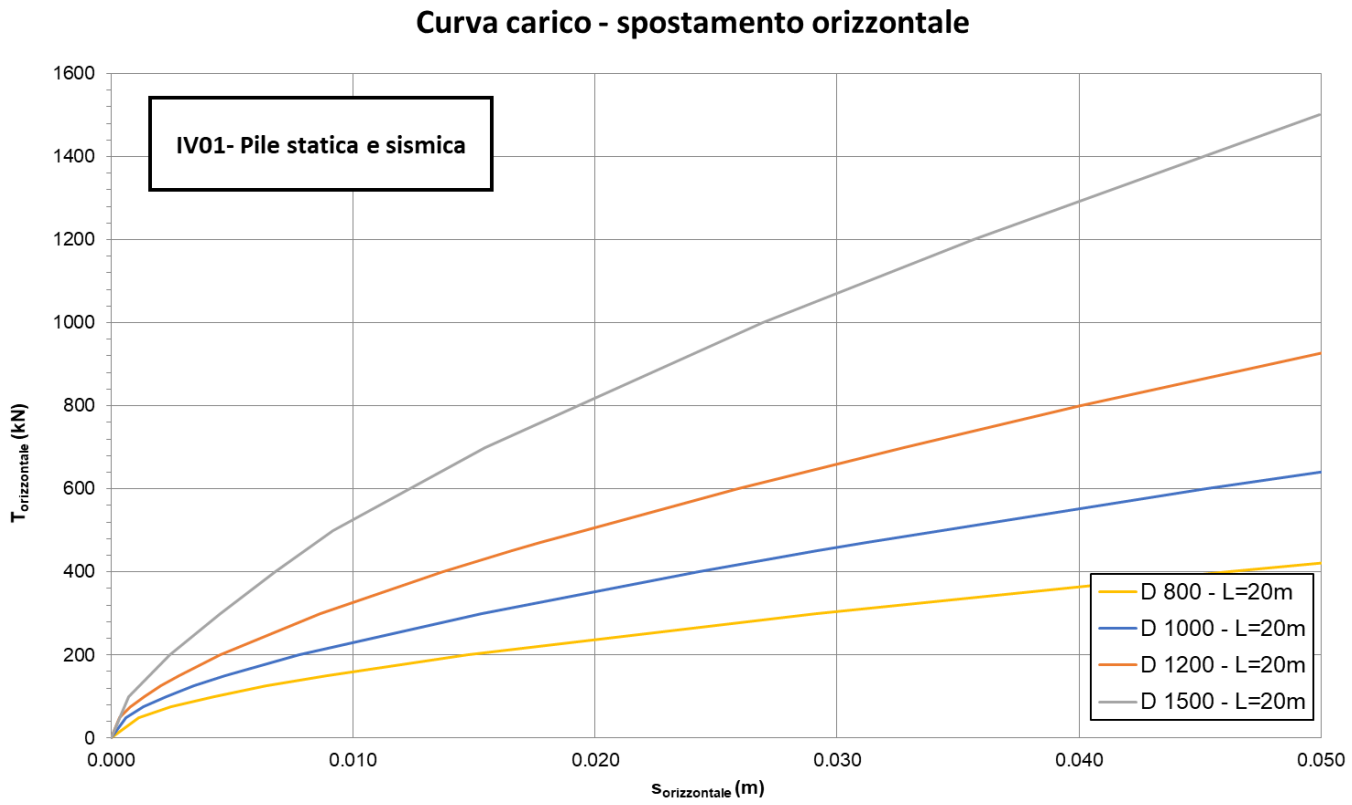
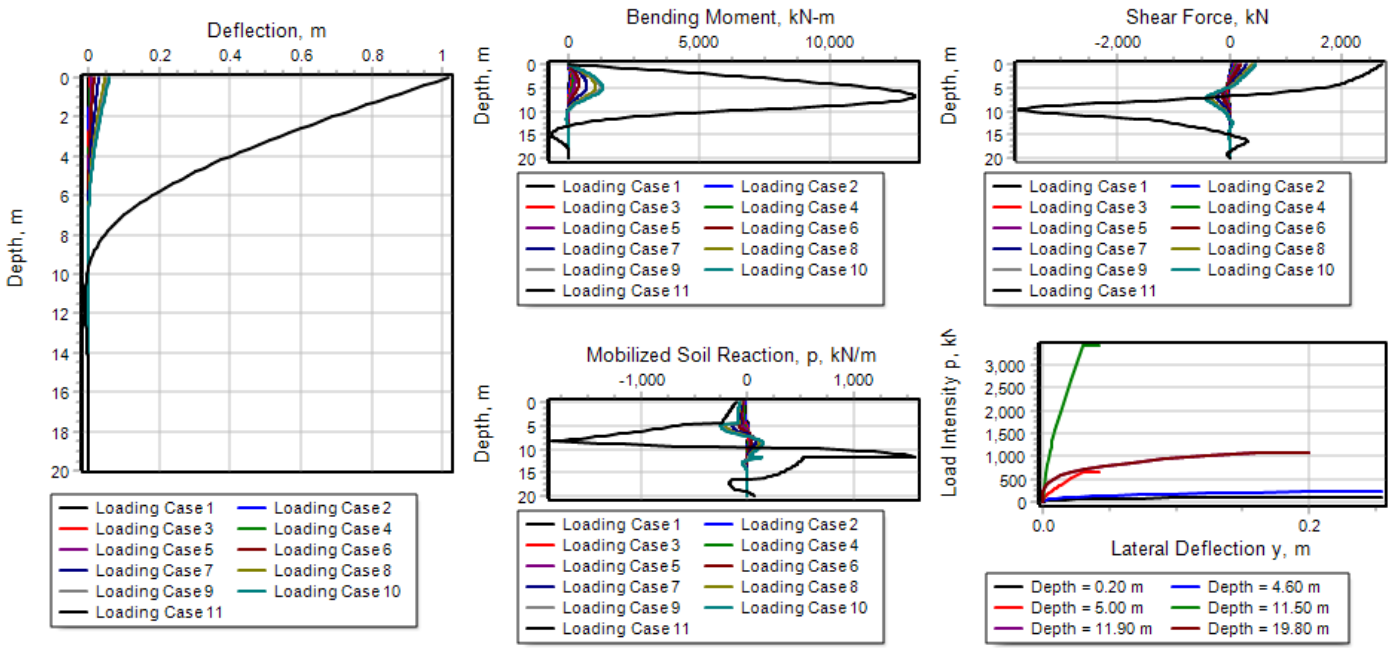


Figura 5.60: IV01 Pile - Curva carico – spostamento orizzontale

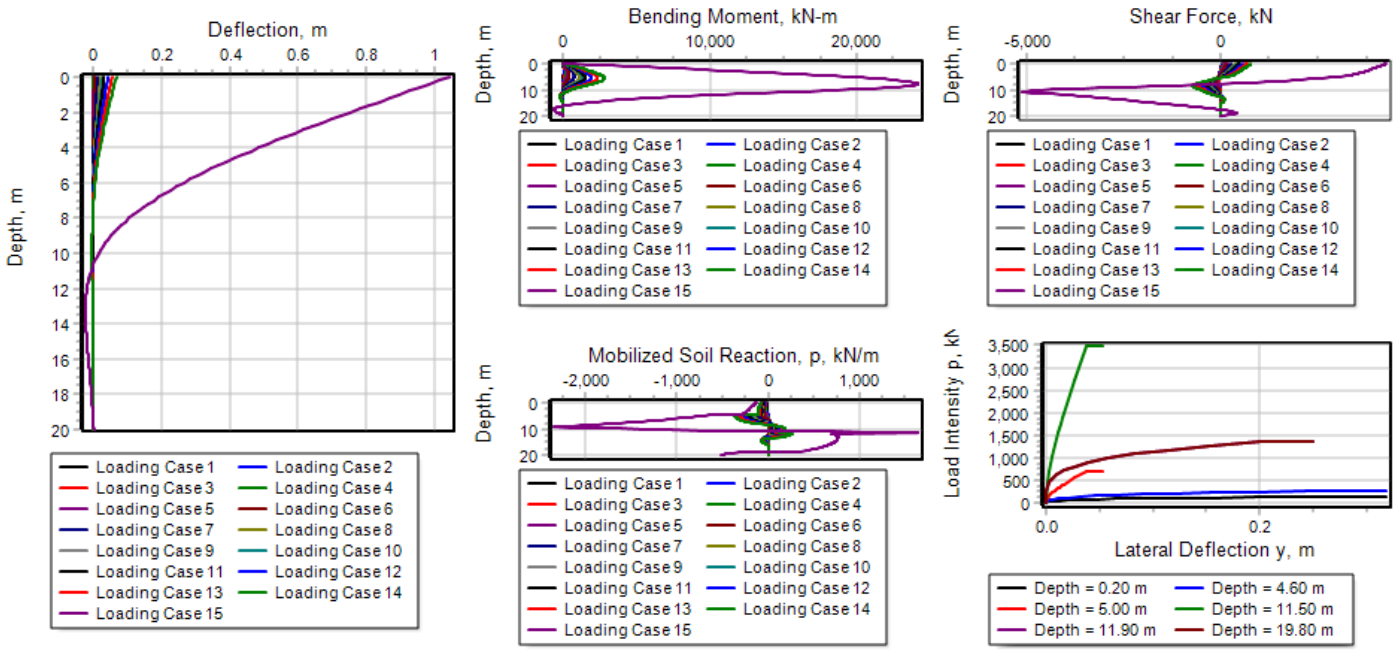
Per quanto riguarda la resistenza di progetto ai carichi orizzontali è stato valutato di adottare conservativamente il valore del carico trasversale, definito con il codice di calcolo L-Pile, in corrispondenza del quale si ha la prima insorgenza di plasticizzazione nel terreno circostante il palo o comunque uno spostamento rilevante della testa palo, come si può vedere dai grafici sotto riportati nella parte dedicata alla resistenza del terreno mobilitata. I valori ottenuti per i diversi diametri sono i seguenti:

- D800 mm – T = 2700 kN
- D1000 mm – T = 4200 kN
- D1200 mm – T = 6000 kN
- D1500 mm – T = 8300 kN

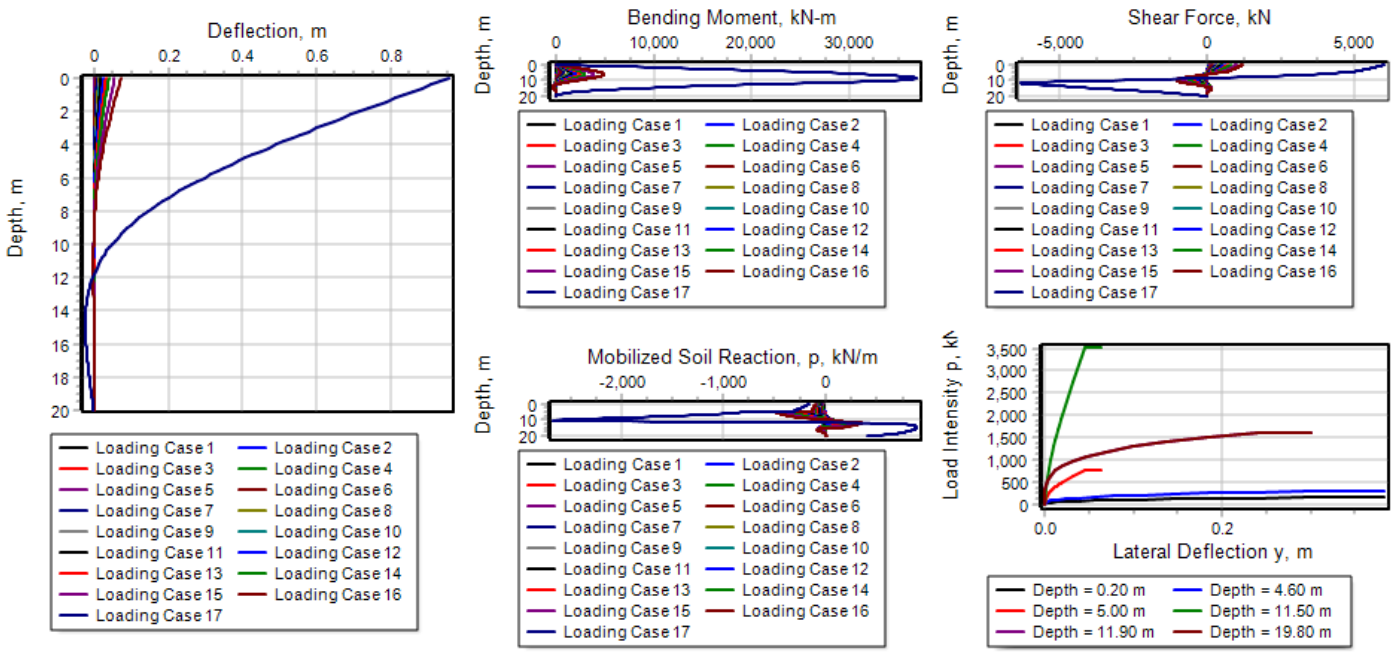
Results for IV01_Pile_D800.lp9d



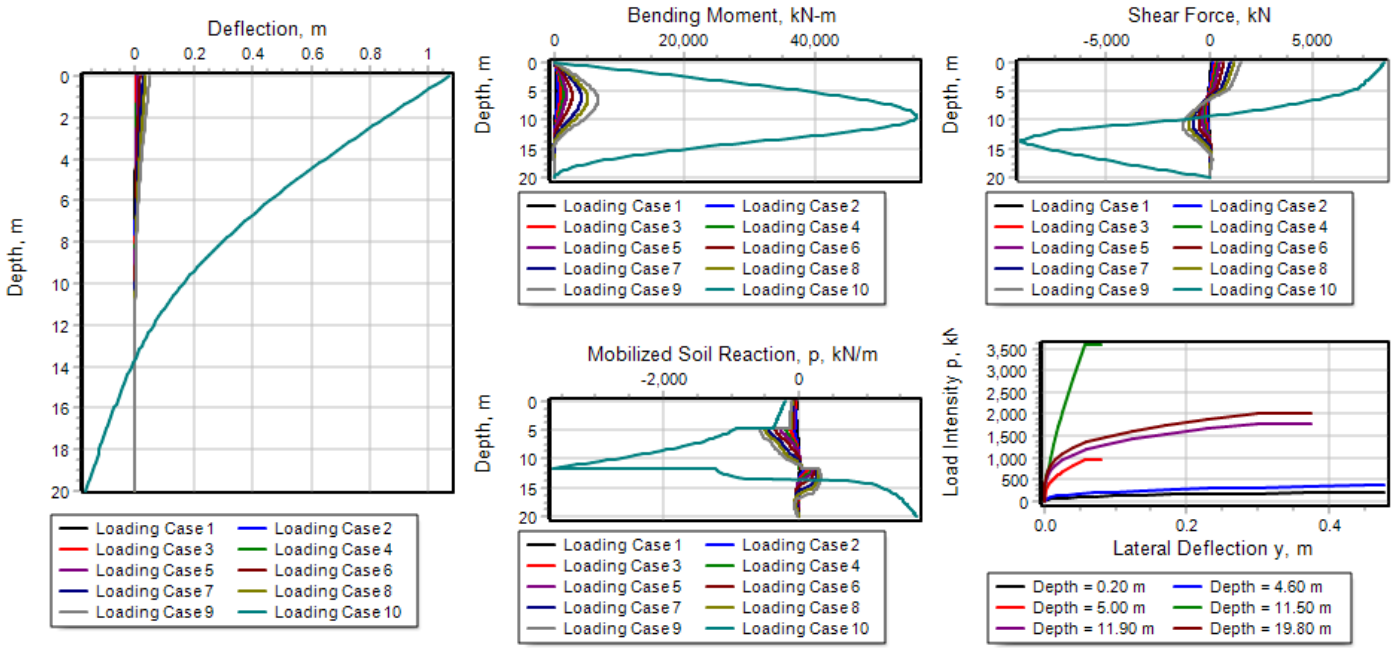
Results for IV01_Pile_D1000.lp9d



Results for IV01_Pile_D1200.lp9d



Results for IV01_Pile_D1500.lp9d



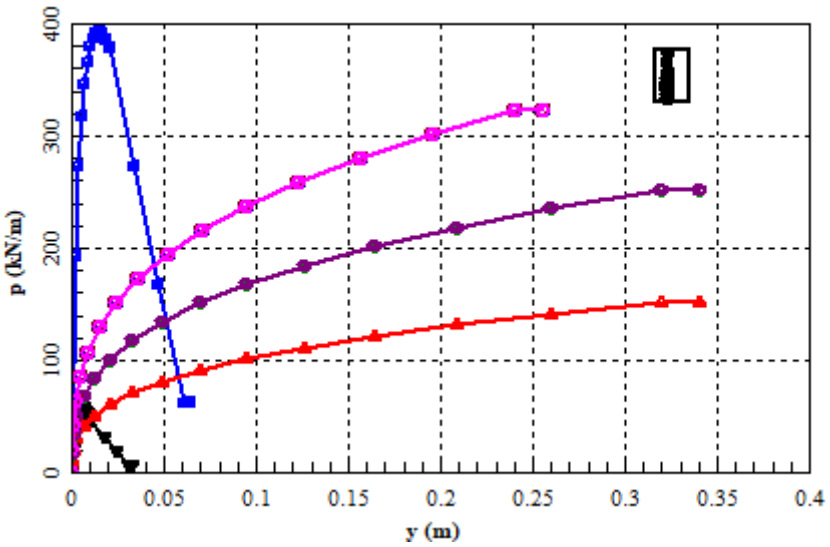
Da cui, applicando il fattore parziale γ_r = 1.3 si ottengono i seguenti valori di $R_{tr,d}$:

- D800 mm – $R_{tr,d}$ = 2076 kN
- D1000 mm – $R_{tr,d}$ = 3230 kN
- D1200 mm – $R_{tr,d}$ = 4615 kN
- D1500 mm – $R_{tr,d}$ = 6384 kN

Nell'Allegato A sono riportati i dati delle curve p-y selezionate per modellare l'interazione palo-terreno rispetto ai carichi orizzontali.

ALLEGATO A – CURVE P-Y PER L'INTERAZIONE PALO-TERRENO NEI CONFRONTI DEI CARICHI ORIZZONTALI

Opera VI02



Summary of Input Soil Properties

Layer Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth m	Effective Unit Wt. kN/m3	Undrained Cohesion kPa	E50 or krm	kpy kN/m3
1	Stiff Clay	0.00	9.0000	80.0000	0.00700	default
	with Free Water	4.3000	9.0000	80.0000	0.00700	default
2	Soft	4.3000	9.0000	35.0000	0.02000	--
	Clay	13.0000	9.0000	35.0000	0.02000	--
3	Soft	13.0000	9.0000	45.0000	0.01500	--
	Clay	20.0000	9.0000	45.0000	0.01500	--

Specified Depths for Output of p-y Curves

Lateral load-transfer (p-y) curves are computed and output at 8 depths.
(Note that load-transfer values are computeded at the specified depths and
may differ from values computed at nodal points)

Depth No.	Depth Below Pile Head m	Depth Below Ground Surface m
1	0.200	0.200
2	4.100	4.100
3	4.500	4.500
4	9.000	9.000
5	12.800	12.800
6	13.200	13.200
7	16.000	16.000
8	19.800	19.800

---

p-y Curves Reported for Specified Depths

---

p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 0.200 m
Depth of p-y curve below ground surface = 0.200 m
Equivalent depth of p-y curve = 0.200 m
Pile diameter = 800.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.006 m
As = 0.30366
Ac (not used) = 0.23383
pct = 174.720 kN/m

pcd = 704.000 kN/m
pc = 174.720 kN/m
pu = 6.317 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00085026	23.08008
0.00170	46.16015
0.00255	54.91936
0.00340	58.47120
0.00425	60.16449
0.00510	60.52600
0.00595	59.85385
0.00680	58.33995
0.00765	56.11775
0.00850	53.28508
0.00935	49.91658
0.01020	46.07088
0.01701	32.84541
0.02381	19.58135
0.03061	6.31728
0.03231	6.31728

p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 4.100 m
Depth of p-y curve below ground surface = 4.100 m
Equivalent depth of p-y curve = 4.100 m
Pile diameter = 800.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees

Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.006 m
As = 0.60000
Ac (not used) = 0.30000
pct = 1085.760 kN/m
pcd = 704.000 kN/m
pc = 704.000 kN/m
pu = 61.729 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00168	192.79834
0.00336	272.65803
0.00504	317.65677
0.00672	346.87668
0.00840	366.83411
0.01008	380.16536
0.01176	388.37691
0.01344	392.44090
0.01512	393.03315
0.01680	390.64849
0.01848	385.66350
0.02016	378.52904
0.03360	272.92904
0.04704	167.32904
0.06048	61.72904
0.06384	61.72904

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2

Depth of top of Layer 2 below pile head = 4.300 m
Depth of p-y curve below pile head = 4.500 m
Depth of p-y curve below ground surface = 4.500 m
Equiv. depth of p-y curve below ground surface = 2.030 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 6.802 m
Static pu_s for flat ground = 151.923 kN/m
Static pu_d for flat ground = 252.000 kN/m
y_50 = 0.04000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 151.923 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00009481	10.12823
0.00075852	20.25646
0.00256	30.38469
0.00607	40.51292
0.01185	50.64115
0.02048	60.76938
0.03252	70.89761
0.04855	81.02583
0.06912	91.15406
0.09481	101.28229
0.12620	111.41052
0.16384	121.53875
0.20831	131.66698
0.26017	141.79521
0.32000	151.92344

0.34000 151.92344

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 4.300 m
Depth of p-y curve below pile head = 9.000 m
Depth of p-y curve below ground surface = 9.000 m
Equiv. depth of p-y curve below ground surface = 9.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 6.802 m
Static pu_s for flat ground = 306.300 kN/m
Static pu_d for flat ground = 252.000 kN/m
y_50 = 0.04000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 252.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00009481	16.80000
0.00075852	33.60000
0.00256	50.40000
0.00607	67.20000
0.01185	84.00000
0.02048	100.80000
0.03252	117.60000
0.04855	134.40000
0.06912	151.20000

0.09481	168.00000
0.12620	184.80000
0.16384	201.60000
0.20831	218.40000
0.26017	235.20000
0.32000	252.00000
0.34000	252.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 4.300 m
Depth of p-y curve below pile head = 12.800 m
Depth of p-y curve below ground surface = 12.800 m
Equiv. depth of p-y curve below ground surface = 12.800 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 6.802 m
Static pu_s for flat ground = 400.160 kN/m
Static pu_d for flat ground = 252.000 kN/m
y_50 = 0.04000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 252.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00009481	16.80000
0.00075852	33.60000
0.00256	50.40000

0.00607	67.20000
0.01185	84.00000
0.02048	100.80000
0.03252	117.60000
0.04855	134.40000
0.06912	151.20000
0.09481	168.00000
0.12620	184.80000
0.16384	201.60000
0.20831	218.40000
0.26017	235.20000
0.32000	252.00000
0.34000	252.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 13.000 m
Depth of p-y curve below pile head = 13.200 m
Depth of p-y curve below ground surface = 13.200 m
Equiv. depth of p-y curve below ground surface = 13.200 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 7.273 m
Static pu_s for flat ground = 500.040 kN/m
Static pu_d for flat ground = 324.000 kN/m
y_50 = 0.03000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000

Sloping Ground Factor = 1.000
Positive-y, static pu = 324.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00007111	21.60000
0.00056889	43.20000
0.00192	64.80000
0.00455	86.40000
0.00889	108.00000
0.01536	129.60000
0.02439	151.20000
0.03641	172.80000
0.05184	194.40000
0.07111	216.00000
0.09465	237.60000
0.12288	259.20000
0.15623	280.80000
0.19513	302.40000
0.24000	324.00000
0.25500	324.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 13.000 m
Depth of p-y curve below pile head = 16.000 m
Depth of p-y curve below ground surface = 16.000 m
Equiv. depth of p-y curve below ground surface = 16.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 7.273 m
Static pu_s for flat ground = 583.200 kN/m

Static pu_d for flat ground = 324.000 kN/m
y_50 = 0.03000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 324.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00007111	21.60000
0.00056889	43.20000
0.00192	64.80000
0.00455	86.40000
0.00889	108.00000
0.01536	129.60000
0.02439	151.20000
0.03641	172.80000
0.05184	194.40000
0.07111	216.00000
0.09465	237.60000
0.12288	259.20000
0.15623	280.80000
0.19513	302.40000
0.24000	324.00000
0.25500	324.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 13.000 m
Depth of p-y curve below pile head = 19.800 m
Depth of p-y curve below ground surface = 19.800 m
Equiv. depth of p-y curve below ground surface = 19.800 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm

Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 7.273 m
Static pu_s for flat ground = 696.060 kN/m
Static pu_d for flat ground = 324.000 kN/m
y_50 = 0.03000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 324.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00007111	21.60000
0.00056889	43.20000
0.00192	64.80000
0.00455	86.40000
0.00889	108.00000
0.01536	129.60000
0.02439	151.20000
0.03641	172.80000
0.05184	194.40000
0.07111	216.00000
0.09465	237.60000
0.12288	259.20000
0.15623	280.80000
0.19513	302.40000
0.24000	324.00000
0.25500	324.00000

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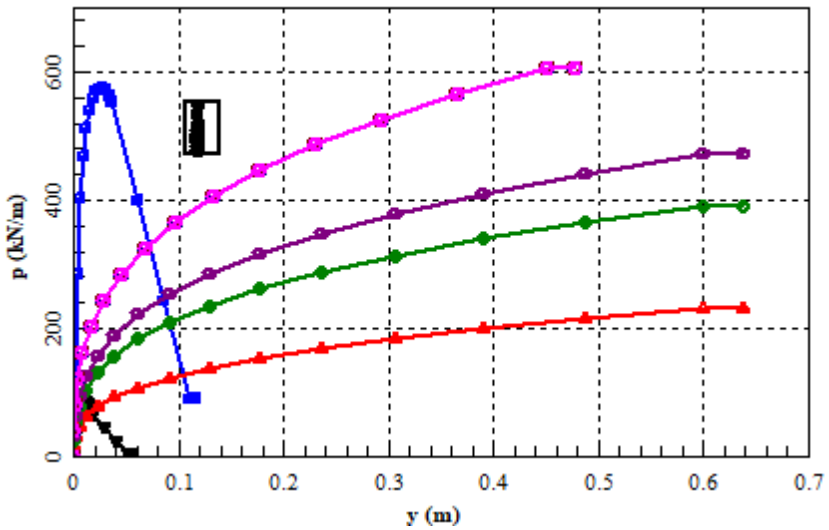

Summary of Input Soil Properties

Layer Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth m	Effective Unit Wt. kN/m3	Undrained Cohesion kPa	E50 or krm	kpy kN/m3
1	Stiff Clay	0.00	9.0000	80.0000	0.00700	default
	with Free Water	3.6000	9.0000	80.0000	0.00700	default
2	Soft	3.6000	9.0000	35.0000	0.02000	--
	Clay	11.2000	9.0000	35.0000	0.02000	--
3	Soft	11.2000	9.0000	45.0000	0.01500	--
	Clay	20.0000	9.0000	45.0000	0.01500	--

Specified Depths for Output of p-y Curves

Lateral load-transfer (p-y) curves are computed and output at 8 depths.

(Note that load-transfer values are computeded at the specified depths and may differ from values computed at nodal points)

Depth No.	Depth Below Pile Head m	Depth Below Ground Surface m
1	0.200	0.200
2	3.400	3.400
3	3.800	3.800
4	9.000	9.000
5	11.000	11.000
6	11.400	11.400
7	16.000	16.000
8	19.800	19.800

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p-y Curves Reported for Specified Depths

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p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 0.200 m
Depth of p-y curve below ground surface = 0.200 m
Equivalent depth of p-y curve = 0.200 m
Pile diameter = 1500.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.011 m
As = 0.27257

Ac (not used) = 0.21914
pct = 287.980 kN/m
pcd = 1320.000 kN/m
pc = 287.980 kN/m
pu = 6.909 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00143	38.84380
0.00286	75.17456
0.00429	85.41022
0.00572	90.47399
0.00715	92.56848
0.00859	92.53470
0.01002	90.84782
0.01145	87.81363
0.01288	83.64474
0.01431	78.49708
0.01574	72.48962
0.01717	65.71592
0.02862	46.15590
0.04007	26.53227
0.05152	6.90863
0.05438	6.90863

p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 3.400 m
Depth of p-y curve below ground surface = 3.400 m
Equivalent depth of p-y curve = 3.400 m
Pile diameter = 1500.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3

Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.011 m
As = 0.58161
Ac (not used) = 0.30000
pct = 1055.660 kN/m
pcd = 1320.000 kN/m
pc = 1055.660 kN/m
pu = 91.657 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00305	284.63861
0.00611	402.53978
0.00916	468.59676
0.01221	511.21591
0.01527	540.08819
0.01832	559.12552
0.02137	570.56242
0.02443	575.84065
0.02748	575.96253
0.03053	571.66199
0.03359	563.49763
0.03664	551.90758
0.06107	398.64604
0.08550	245.15129
0.10992	91.65653
0.11603	91.65653

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 3.600 m
Depth of p-y curve below pile head = 3.800 m
Depth of p-y curve below ground surface = 3.800 m
Equiv. depth of p-y curve below ground surface = 1.258 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1500.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 10.161 m
Static pu_s for flat ground = 230.821 kN/m
Static pu_d for flat ground = 472.500 kN/m
y_50 = 0.07500 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 230.821 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00017778	15.38804
0.00142	30.77608
0.00480	46.16412
0.01138	61.55216
0.02222	76.94020
0.03840	92.32824
0.06098	107.71627
0.09102	123.10431
0.12960	138.49235
0.17778	153.88039
0.23662	169.26843
0.30720	184.65647
0.39058	200.04451

0.48782	215.43255
0.60000	230.82059
0.63750	230.82059

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 3.600 m
Depth of p-y curve below pile head = 9.000 m
Depth of p-y curve below ground surface = 9.000 m
Equiv. depth of p-y curve below ground surface = 6.458 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1500.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 10.161 m
Static pu_s for flat ground = 392.021 kN/m
Static pu_d for flat ground = 472.500 kN/m
y_50 = 0.07500 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 392.021 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00017778	26.13471
0.00142	52.26941
0.00480	78.40412
0.01138	104.53882
0.02222	130.67353
0.03840	156.80824
0.06098	182.94294

0.09102	209.07765
0.12960	235.21235
0.17778	261.34706
0.23662	287.48176
0.30720	313.61647
0.39058	339.75118
0.48782	365.88588
0.60000	392.02059
0.63750	392.02059

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 3.600 m
Depth of p-y curve below pile head = 11.000 m
Depth of p-y curve below ground surface = 11.000 m
Equiv. depth of p-y curve below ground surface = 11.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1500.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 10.161 m
Static pu_s for flat ground = 498.500 kN/m
Static pu_d for flat ground = 472.500 kN/m
y_50 = 0.07500 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 472.500 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00017778	31.50000

0.00142	63.00000
0.00480	94.50000
0.01138	126.00000
0.02222	157.50000
0.03840	189.00000
0.06098	220.50000
0.09102	252.00000
0.12960	283.50000
0.17778	315.00000
0.23662	346.50000
0.30720	378.00000
0.39058	409.50000
0.48782	441.00000
0.60000	472.50000
0.63750	472.50000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 11.200 m
Depth of p-y curve below pile head = 11.400 m
Depth of p-y curve below ground surface = 11.400 m
Equiv. depth of p-y curve below ground surface = 11.400 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1500.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 11.250 m
Static pu_s for flat ground = 612.900 kN/m
Static pu_d for flat ground = 607.500 kN/m
y_50 = 0.05625 m
p-multiplier = 1.000
y-multiplier = 1.000

Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 607.500 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00013333	40.50000
0.00107	81.00000
0.00360	121.50000
0.00853	162.00000
0.01667	202.50000
0.02880	243.00000
0.04573	283.50000
0.06827	324.00000
0.09720	364.50000
0.13333	405.00000
0.17747	445.50000
0.23040	486.00000
0.29293	526.50000
0.36587	567.00000
0.45000	607.50000
0.47812	607.50000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 11.200 m
Depth of p-y curve below pile head = 16.000 m
Depth of p-y curve below ground surface = 16.000 m
Equiv. depth of p-y curve below ground surface = 16.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1500.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000

Transition depth Xr = 11.250 m
Static pu_s for flat ground = 778.500 kN/m
Static pu_d for flat ground = 607.500 kN/m
y_50 = 0.05625 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 607.500 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00013333	40.50000
0.00107	81.00000
0.00360	121.50000
0.00853	162.00000
0.01667	202.50000
0.02880	243.00000
0.04573	283.50000
0.06827	324.00000
0.09720	364.50000
0.13333	405.00000
0.17747	445.50000
0.23040	486.00000
0.29293	526.50000
0.36587	567.00000
0.45000	607.50000
0.47812	607.50000

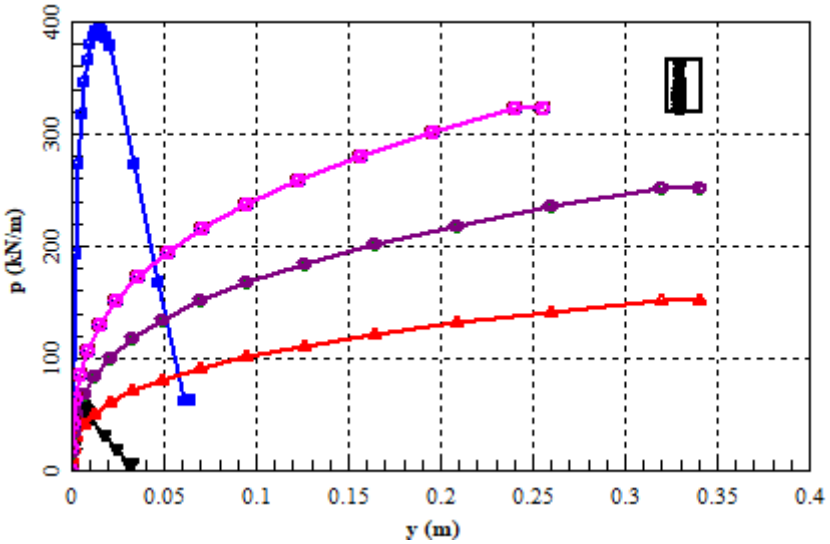
p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 11.200 m
Depth of p-y curve below pile head = 19.800 m
Depth of p-y curve below ground surface = 19.800 m
Equiv. depth of p-y curve below ground surface = 19.800 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees

Effective slope angle = 0.000 degrees
Pile diameter = 1500.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 11.250 m
Static pu_s for flat ground = 915.300 kN/m
Static pu_d for flat ground = 607.500 kN/m
y_50 = 0.05625 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 607.500 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00013333	40.50000
0.00107	81.00000
0.00360	121.50000
0.00853	162.00000
0.01667	202.50000
0.02880	243.00000
0.04573	283.50000
0.06827	324.00000
0.09720	364.50000
0.13333	405.00000
0.17747	445.50000
0.23040	486.00000
0.29293	526.50000
0.36587	567.00000
0.45000	607.50000
0.47812	607.50000

Opera VI04



Summary of Input Soil Properties

Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth m	Effective Unit Wt. kN/m3	Undrained Cohesion kPa	E50 or krm	kpy kN/m3
1	Stiff Clay	0.00	9.0000	80.0000	0.00700	default
	with Free Water	4.3000	9.0000	80.0000	0.00700	default
2	Soft	4.3000	9.0000	35.0000	0.02000	--
	Clay	12.0000	9.0000	35.0000	0.02000	--
3	Soft	12.0000	9.0000	45.0000	0.01500	--
	Clay	20.0000	9.0000	45.0000	0.01500	--

Specified Depths for Output of p-y Curves

Lateral load-transfer (p-y) curves are computed and output at 8 depths.
(Note that load-transfer values are computeded at the specified depths and may differ from values computed at nodal points)

Depth No.	Depth Below Pile Head m	Depth Below Ground Surface m
1	0.200	0.200
2	4.100	4.100
3	4.500	4.500
4	9.000	9.000
5	11.800	11.800
6	12.200	12.200
7	16.000	16.000
8	19.800	19.800

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p-y Curves Reported for Specified Depths

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p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 0.200 m
Depth of p-y curve below ground surface = 0.200 m
Equivalent depth of p-y curve = 0.200 m
Pile diameter = 800.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.006 m
As = 0.30366

Ac (not used) = 0.23383
pct = 174.720 kN/m
pcd = 704.000 kN/m
pc = 174.720 kN/m
pu = 6.317 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00085026	23.08008
0.00170	46.16015
0.00255	54.91936
0.00340	58.47120
0.00425	60.16449
0.00510	60.52600
0.00595	59.85385
0.00680	58.33995
0.00765	56.11775
0.00850	53.28508
0.00935	49.91658
0.01020	46.07088
0.01701	32.84541
0.02381	19.58135
0.03061	6.31728
0.03231	6.31728

p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 4.100 m
Depth of p-y curve below ground surface = 4.100 m
Equivalent depth of p-y curve = 4.100 m
Pile diameter = 800.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3

Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.006 m
As = 0.60000
Ac (not used) = 0.30000
pct = 1085.760 kN/m
pcd = 704.000 kN/m
pc = 704.000 kN/m
pu = 61.729 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00168	192.79834
0.00336	272.65803
0.00504	317.65677
0.00672	346.87668
0.00840	366.83411
0.01008	380.16536
0.01176	388.37691
0.01344	392.44090
0.01512	393.03315
0.01680	390.64849
0.01848	385.66350
0.02016	378.52904
0.03360	272.92904
0.04704	167.32904
0.06048	61.72904
0.06384	61.72904

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 4.300 m
Depth of p-y curve below pile head = 4.500 m
Depth of p-y curve below ground surface = 4.500 m
Equiv. depth of p-y curve below ground surface = 2.030 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 6.802 m
Static pu_s for flat ground = 151.923 kN/m
Static pu_d for flat ground = 252.000 kN/m
y_50 = 0.04000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 151.923 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00009481	10.12823
0.00075852	20.25646
0.00256	30.38469
0.00607	40.51292
0.01185	50.64115
0.02048	60.76938
0.03252	70.89761
0.04855	81.02583
0.06912	91.15406
0.09481	101.28229
0.12620	111.41052
0.16384	121.53875
0.20831	131.66698

0.26017	141.79521
0.32000	151.92344
0.34000	151.92344

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 4.300 m
Depth of p-y curve below pile head = 9.000 m
Depth of p-y curve below ground surface = 9.000 m
Equiv. depth of p-y curve below ground surface = 9.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 6.802 m
Static pu_s for flat ground = 306.300 kN/m
Static pu_d for flat ground = 252.000 kN/m
y_50 = 0.04000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 252.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00009481	16.80000
0.00075852	33.60000
0.00256	50.40000
0.00607	67.20000
0.01185	84.00000
0.02048	100.80000
0.03252	117.60000

0.04855	134.40000
0.06912	151.20000
0.09481	168.00000
0.12620	184.80000
0.16384	201.60000
0.20831	218.40000
0.26017	235.20000
0.32000	252.00000
0.34000	252.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 4.300 m
Depth of p-y curve below pile head = 11.800 m
Depth of p-y curve below ground surface = 11.800 m
Equiv. depth of p-y curve below ground surface = 11.800 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 6.802 m
Static pu_s for flat ground = 375.460 kN/m
Static pu_d for flat ground = 252.000 kN/m
y_50 = 0.04000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 252.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00009481	16.80000

0.00075852	33.60000
0.00256	50.40000
0.00607	67.20000
0.01185	84.00000
0.02048	100.80000
0.03252	117.60000
0.04855	134.40000
0.06912	151.20000
0.09481	168.00000
0.12620	184.80000
0.16384	201.60000
0.20831	218.40000
0.26017	235.20000
0.32000	252.00000
0.34000	252.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 12.000 m
Depth of p-y curve below pile head = 12.200 m
Depth of p-y curve below ground surface = 12.200 m
Equiv. depth of p-y curve below ground surface = 12.200 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 7.273 m
Static pu_s for flat ground = 470.340 kN/m
Static pu_d for flat ground = 324.000 kN/m
y_50 = 0.03000 m
p-multiplier = 1.000
y-multiplier = 1.000

Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 324.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00007111	21.60000
0.00056889	43.20000
0.00192	64.80000
0.00455	86.40000
0.00889	108.00000
0.01536	129.60000
0.02439	151.20000
0.03641	172.80000
0.05184	194.40000
0.07111	216.00000
0.09465	237.60000
0.12288	259.20000
0.15623	280.80000
0.19513	302.40000
0.24000	324.00000
0.25500	324.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 12.000 m
Depth of p-y curve below pile head = 16.000 m
Depth of p-y curve below ground surface = 16.000 m
Equiv. depth of p-y curve below ground surface = 16.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000

Transition depth Xr = 7.273 m
Static pu_s for flat ground = 583.200 kN/m
Static pu_d for flat ground = 324.000 kN/m
y_50 = 0.03000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 324.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00007111	21.60000
0.00056889	43.20000
0.00192	64.80000
0.00455	86.40000
0.00889	108.00000
0.01536	129.60000
0.02439	151.20000
0.03641	172.80000
0.05184	194.40000
0.07111	216.00000
0.09465	237.60000
0.12288	259.20000
0.15623	280.80000
0.19513	302.40000
0.24000	324.00000
0.25500	324.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

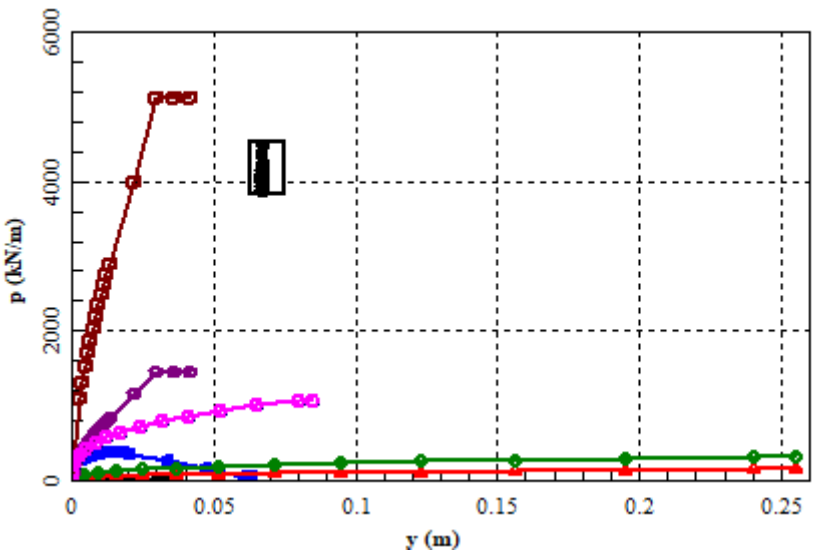
Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 12.000 m
Depth of p-y curve below pile head = 19.800 m
Depth of p-y curve below ground surface = 19.800 m
Equiv. depth of p-y curve below ground surface = 19.800 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees

Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 7.273 m
Static pu_s for flat ground = 696.060 kN/m
Static pu_d for flat ground = 324.000 kN/m
y_50 = 0.03000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 324.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00007111	21.60000
0.00056889	43.20000
0.00192	64.80000
0.00455	86.40000
0.00889	108.00000
0.01536	129.60000
0.02439	151.20000
0.03641	172.80000
0.05184	194.40000
0.07111	216.00000
0.09465	237.60000
0.12288	259.20000
0.15623	280.80000
0.19513	302.40000
0.24000	324.00000
0.25500	324.00000

Opera IV01

SPALLA A



Summary of Input Soil Properties

Layer Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth m	Effective Unit Wt. kN/m3	Undrained Cohesion kPa	Angle of Friction deg.	E50 or krm	kpy kN/m3
1	Stiff Clay	0.00	9.0000	80.0000	--	0.00700	default
	with Free Water	2.5000	9.0000	80.0000	--	0.00700	default
2	Soft	2.5000	9.0000	45.0000	--	0.01500	--
	Clay	8.9000	9.0000	45.0000	--	0.01500	--
3	Sand	8.9000	9.0000	--	36.0000	--	default
	(Reese, et al.)	15.8000	9.0000	--	36.0000	--	default
4	Soft	15.8000	9.0000	150.0000	--	0.00500	--
	Clay	20.0000	9.0000	150.0000	--	0.00500	--

Specified Depths for Output of p-y Curves

Lateral load-transfer (p-y) curves are computed and output at 8 depths.
(Note that load-transfer values are computeded at the specified depths and
may differ from values computed at nodal points)

Depth No.	Depth Below Pile Head m	Depth Below Ground Surface m
1	0.200	0.200
2	2.300	2.300
3	2.700	2.700
4	8.700	8.700
5	9.100	9.100
6	15.600	15.600
7	16.000	16.000
8	19.800	19.800

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p-y Curves Reported for Specified Depths

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p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 0.200 m
Depth of p-y curve below ground surface = 0.200 m
Equivalent depth of p-y curve = 0.200 m
Pile diameter = 800.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees

k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.006 m
As = 0.30366
Ac (not used) = 0.23383
pct = 174.720 kN/m
pcd = 704.000 kN/m
pc = 174.720 kN/m
pu = 6.317 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00085026	23.08008
0.00170	46.16015
0.00255	54.91936
0.00340	58.47120
0.00425	60.16449
0.00510	60.52600
0.00595	59.85385
0.00680	58.33995
0.00765	56.11775
0.00850	53.28508
0.00935	49.91658
0.01020	46.07088
0.01701	32.84541
0.02381	19.58135
0.03061	6.31728
0.03231	6.31728

p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 2.300 m
Depth of p-y curve below ground surface = 2.300 m
Equivalent depth of p-y curve = 2.300 m

Pile diameter = 800.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.006 m
As = 0.59931
Ac (not used) = 0.30000
pct = 665.280 kN/m
pcd = 704.000 kN/m
pc = 665.280 kN/m
pu = 58.315 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00168	182.08936
0.00336	257.51324
0.00503	300.00366
0.00671	327.58832
0.00839	346.42329
0.01007	358.99889
0.01175	366.73818
0.01342	370.55946
0.01510	371.10111
0.01678	368.83056
0.01846	364.10352
0.02014	357.19900
0.03356	257.66903
0.04699	157.99210
0.06041	58.31517
0.06377	58.31517

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 2.500 m
Depth of p-y curve below pile head = 2.700 m
Depth of p-y curve below ground surface = 2.700 m
Equiv. depth of p-y curve below ground surface = 0.909 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 7.273 m
Static pu_s for flat ground = 147.902 kN/m
Static pu_d for flat ground = 324.000 kN/m
y_50 = 0.03000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 147.902 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00007111	9.86013
0.00056889	19.72027
0.00192	29.58040
0.00455	39.44054
0.00889	49.30067
0.01536	59.16080
0.02439	69.02094
0.03641	78.88107
0.05184	88.74121

0.07111	98.60134
0.09465	108.46147
0.12288	118.32161
0.15623	128.18174
0.19513	138.04188
0.24000	147.90201
0.25500	147.90201

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 2.500 m
Depth of p-y curve below pile head = 8.700 m
Depth of p-y curve below ground surface = 8.700 m
Equiv. depth of p-y curve below ground surface = 8.700 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 7.273 m
Static pu_s for flat ground = 366.390 kN/m
Static pu_d for flat ground = 324.000 kN/m
y_50 = 0.03000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 324.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00007111	21.60000
0.00056889	43.20000
0.00192	64.80000

0.00455	86.40000
0.00889	108.00000
0.01536	129.60000
0.02439	151.20000
0.03641	172.80000
0.05184	194.40000
0.07111	216.00000
0.09465	237.60000
0.12288	259.20000
0.15623	280.80000
0.19513	302.40000
0.24000	324.00000
0.25500	324.00000

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 8.900 m
Depth of p-y curve below pile head = 9.100 m
Depth of p-y curve below ground surface = 9.100 m
Equiv. depth of p-y curve below ground surface = 5.354 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 800.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3
K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 1657.845 kN/m
Psd = 4009.867 kN/m
Ps = Pst (shallow controls) = 1657.845 kN/m
A (static) = 0.8800
B (static) = 0.5000
C = Pm/(Ym^(1/n)) = 11443.2962

n = Pm/(m Ym) = 1.6447

m = (Pu-Pm)/(Yu-Ym) = 37798.8626

Yk = [c/(kx)]^(n/(n-1)) = 0.0004 m

Pk = 102.967 kN/m

Ym = b/60 = 0.0133 m

Pm = B ps = 828.922 kN/m

Yu = 3b/80 = 0.0300 m

Pu = A Ps = 1458.903 kN/m

Maximum Es value = 238554.961 kN/m/m

p-multiplier = 1.00000

y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters	p, kN/m
0.00000	0.00000
0.00043163	102.96683
0.00160	228.77011
0.00278	319.36149
0.00395	395.64029
0.00512	463.39359
0.00630	525.27185
0.00747	582.76296
0.00864	636.80522
0.00981	688.03733
0.01099	736.91825
0.01216	783.79149
0.01333	828.92243
0.02167	1143.91295
0.03000	1458.90347
0.03600	1458.90347
0.04200	1458.90347

The above p-y curve was computed using internal default values of k.

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 8.900 m
Depth of p-y curve below pile head = 15.600 m
Depth of p-y curve below ground surface = 15.600 m
Equiv. depth of p-y curve below ground surface = 11.854 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 800.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3
K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 5802.278 kN/m
Psd = 6874.058 kN/m
Ps = Pst (shallow controls) = 5802.278 kN/m
A (static) = 0.8800
B (static) = 0.5000
C = Pm/(Ym^(1/n)) = 40050.3004
n = Pm/(m Ym) = 1.6447
m = (Pu-Pm)/(Yu-Ym) = 132291.9361
Yk = [c/(kx)]^(n/(n-1)) = 0.0027 m
Pk = 1090.245 kN/m
Ym = b/60 = 0.0133 m
Pm = B ps = 2901.139 kN/m
Yu = 3b/80 = 0.0300 m
Pu = A Ps = 5106.005 kN/m
Maximum Es value = 408951.362 kN/m/m
p-multiplier = 1.00000
y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters	p, kN/m
0.00000	0.00000

0.00267	1090.24475
0.00364	1316.57113
0.00461	1520.11585
0.00558	1707.39469
0.00654	1882.25664
0.00751	2047.20922
0.00848	2203.99841
0.00945	2353.90016
0.01042	2497.88189
0.01139	2636.69868
0.01236	2770.95386
0.01333	2901.13895
0.02167	4003.57175
0.03000	5106.00455
0.03600	5106.00455
0.04200	5106.00455

The above p-y curve was computed using internal default values of k.

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 4
Depth of top of Layer 4 below pile head = 15.800 m
Depth of p-y curve below pile head = 16.000 m
Depth of p-y curve below ground surface = 16.000 m
Equiv. depth of p-y curve below ground surface = 16.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 150.000 kPa
Epsilon_50 = 0.0050
J (default value) = 0.5000
Transition depth Xr = 8.759 m
Static pu_s for flat ground = 1675.200 kN/m

Static pu_d for flat ground = 1080.000 kN/m
y_50 = 0.01000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 1080.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00002370	72.00000
0.00018963	144.00000
0.00064000	216.00000
0.00152	288.00000
0.00296	360.00000
0.00512	432.00000
0.00813	504.00000
0.01214	576.00000
0.01728	648.00000
0.02370	720.00000
0.03155	792.00000
0.04096	864.00000
0.05208	936.00000
0.06504	1008.00000
0.08000	1080.00000
0.08500	1080.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 4
Depth of top of Layer 4 below pile head = 15.800 m
Depth of p-y curve below pile head = 19.800 m
Depth of p-y curve below ground surface = 19.800 m
Equiv. depth of p-y curve below ground surface = 19.800 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm

Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 150.000 kPa
Epsilon_50 = 0.0050
J (default value) = 0.5000
Transition depth Xr = 8.759 m
Static pu_s for flat ground = 1987.560 kN/m
Static pu_d for flat ground = 1080.000 kN/m
y_50 = 0.01000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 1080.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00002370	72.00000
0.00018963	144.00000
0.00064000	216.00000
0.00152	288.00000
0.00296	360.00000
0.00512	432.00000
0.00813	504.00000
0.01214	576.00000
0.01728	648.00000
0.02370	720.00000
0.03155	792.00000
0.04096	864.00000
0.05208	936.00000
0.06504	1008.00000
0.08000	1080.00000
0.08500	1080.00000

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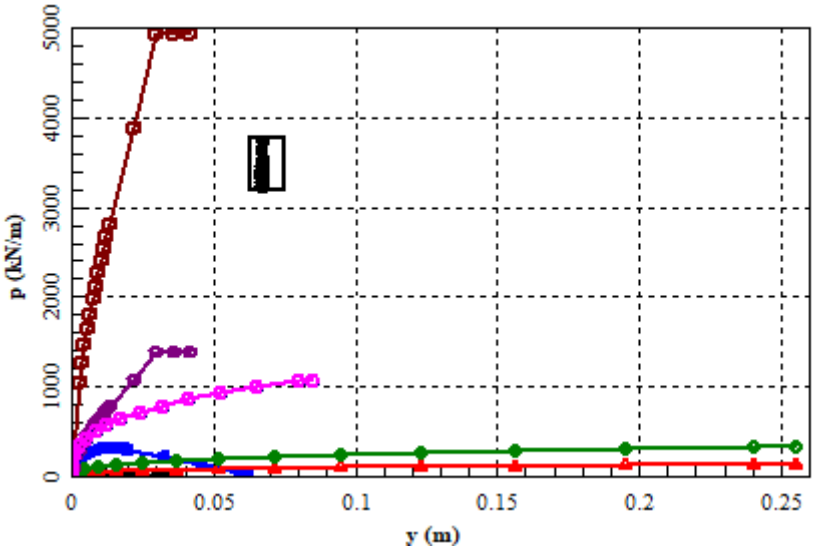

Summary of Input Soil Properties

Layer Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth m	Effective Unit Wt. kN/m3	Undrained Cohesion kPa	Angle of Friction deg.	E50 or krm	kpy kN/m3
1	Stiff Clay	0.00	9.0000	80.0000	--	0.00700	default
	with Free Water	2.1000	9.0000	80.0000	--	0.00700	default
2	Soft	2.1000	9.0000	45.0000	--	0.01500	--
	Clay	8.5000	9.0000	45.0000	--	0.01500	--
3	Sand	8.5000	9.0000	--	36.0000	--	default
	(Reese, et al.)	15.4000	9.0000	--	36.0000	--	default
4	Soft	15.4000	9.0000	150.0000	--	0.00500	--
	Clay	20.0000	9.0000	150.0000	--	0.00500	--

Specified Depths for Output of p-y Curves

Lateral load-transfer (p-y) curves are computed and output at 8 depths.
(Note that load-transfer values are computeded at the specified depths and may differ from values computed at nodal points)

Depth No.	Depth Below Pile Head m	Depth Below Ground Surface m
1	0.200	0.200
2	1.900	1.900
3	2.300	2.300
4	8.300	8.300
5	8.700	8.700
6	15.200	15.200
7	15.600	15.600
8	19.800	19.800

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p-y Curves Reported for Specified Depths

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p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 0.200 m
Depth of p-y curve below ground surface = 0.200 m
Equivalent depth of p-y curve = 0.200 m
Pile diameter = 800.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees

Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.006 m
As = 0.30366
Ac (not used) = 0.23383
pct = 174.720 kN/m
pcd = 704.000 kN/m
pc = 174.720 kN/m
pu = 6.317 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00085026	23.08008
0.00170	46.16015
0.00255	54.91936
0.00340	58.47120
0.00425	60.16449
0.00510	60.52600
0.00595	59.85385
0.00680	58.33995
0.00765	56.11775
0.00850	53.28508
0.00935	49.91658
0.01020	46.07088
0.01701	32.84541
0.02381	19.58135
0.03061	6.31728
0.03231	6.31728

p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 1.900 m

Depth of p-y curve below ground surface = 1.900 m
Equivalent depth of p-y curve = 1.900 m
Pile diameter = 800.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.006 m
As = 0.58621
Ac (not used) = 0.30000
pct = 571.840 kN/m
pcd = 704.000 kN/m
pc = 571.840 kN/m
pu = 49.785 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00164	154.79454
0.00328	218.91253
0.00492	254.88840
0.00657	278.13788
0.00821	293.92140
0.00985	304.36365
0.01149	310.67838
0.01313	313.64875
0.01477	313.81922
0.01641	311.58845
0.01806	307.25987
0.01970	301.07144
0.03283	217.39339
0.04596	133.58900
0.05909	49.78462
0.06237	49.78462

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 2.100 m
Depth of p-y curve below pile head = 2.300 m
Depth of p-y curve below ground surface = 2.300 m
Equiv. depth of p-y curve below ground surface = 0.725 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 7.273 m
Static pu_s for flat ground = 140.877 kN/m
Static pu_d for flat ground = 324.000 kN/m
y_50 = 0.03000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 140.877 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00007111	9.39180
0.00056889	18.78360
0.00192	28.17539
0.00455	37.56719
0.00889	46.95899
0.01536	56.35079
0.02439	65.74259

0.03641	75.13439
0.05184	84.52618
0.07111	93.91798
0.09465	103.30978
0.12288	112.70158
0.15623	122.09338
0.19513	131.48517
0.24000	140.87697
0.25500	140.87697

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 2.100 m
Depth of p-y curve below pile head = 8.300 m
Depth of p-y curve below ground surface = 8.300 m
Equiv. depth of p-y curve below ground surface = 8.300 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 7.273 m
Static pu_s for flat ground = 354.510 kN/m
Static pu_d for flat ground = 324.000 kN/m
y_50 = 0.03000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 324.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00007111	21.60000

0.00056889	43.20000
0.00192	64.80000
0.00455	86.40000
0.00889	108.00000
0.01536	129.60000
0.02439	151.20000
0.03641	172.80000
0.05184	194.40000
0.07111	216.00000
0.09465	237.60000
0.12288	259.20000
0.15623	280.80000
0.19513	302.40000
0.24000	324.00000
0.25500	324.00000

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 8.500 m
Depth of p-y curve below pile head = 8.700 m
Depth of p-y curve below ground surface = 8.700 m
Equiv. depth of p-y curve below ground surface = 5.269 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 800.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3
K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 1563.306 kN/m
Psd = 3833.609 kN/m
Ps = Pst (shallow controls) = 1563.306 kN/m
A (static) = 0.8800

B (static) = 0.5000
C = Pm/(Ym^(1/n)) = 10790.7406
n = Pm/(m Ym) = 1.6447
m = (Pu-Pm)/(Yu-Ym) = 35643.3773
Yk = [c/(kx)]^(n/(n-1)) = 0.0004 m
Pk = 95.044 kN/m
Ym = b/60 = 0.0133 m
Pm = B ps = 781.653 kN/m
Yu = 3b/80 = 0.0300 m
Pu = A Ps = 1375.709 kN/m
Maximum Es value = 228069.029 kN/m/m
p-multiplier = 1.00000
y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters	p, kN/m
0.00000	0.00000
0.00041673	95.04425
0.00159	214.61589
0.00277	300.34587
0.00394	372.45658
0.00511	436.47686
0.00629	494.92950
0.00746	549.22794
0.00864	600.26249
0.00981	648.63865
0.01098	694.79126
0.01216	739.04564
0.01333	781.65301
0.02167	1078.68116
0.03000	1375.70930
0.03600	1375.70930
0.04200	1375.70930

The above p-y curve was computed using internal default values of k.

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 8.500 m
Depth of p-y curve below pile head = 15.200 m
Depth of p-y curve below ground surface = 15.200 m
Equiv. depth of p-y curve below ground surface = 11.769 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 800.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3
K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 5615.647 kN/m
Psd = 6697.800 kN/m
Ps = Pst (shallow controls) = 5615.647 kN/m
A (static) = 0.8800
B (static) = 0.5000
C = Pm/(Ym^(1/n)) = 38762.0808
n = Pm/(m Ym) = 1.6447
m = (Pu-Pm)/(Yu-Ym) = 128036.7602
Yk = [c/(kx)]^(n/(n-1)) = 0.0026 m
Pk = 1044.239 kN/m
Ym = b/60 = 0.0133 m
Pm = B ps = 2807.824 kN/m
Yu = 3b/80 = 0.0300 m
Pu = A Ps = 4941.770 kN/m
Maximum Es value = 398465.430 kN/m/m
p-multiplier = 1.00000
y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters p, kN/m

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0.00000	0.00000
0.00262	1044.23902
0.00359	1265.42849
0.00457	1464.01104
0.00554	1646.53224
0.00652	1816.83109
0.00749	1977.39700
0.00846	2129.95768
0.00944	2275.77260
0.01041	2415.79490
0.01139	2550.76739
0.01236	2681.28285
0.01333	2807.82369
0.02167	3874.79669
0.03000	4941.76969
0.03600	4941.76969
0.04200	4941.76969

The above p-y curve was computed using internal default values of k.

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 4
Depth of top of Layer 4 below pile head = 15.400 m
Depth of p-y curve below pile head = 15.600 m
Depth of p-y curve below ground surface = 15.600 m
Equiv. depth of p-y curve below ground surface = 15.600 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 150.000 kPa
Epsilon_50 = 0.0050
J (default value) = 0.5000

Transition depth Xr = 8.759 m
Static pu_s for flat ground = 1642.320 kN/m
Static pu_d for flat ground = 1080.000 kN/m
y_50 = 0.01000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 1080.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00002370	72.00000
0.00018963	144.00000
0.00064000	216.00000
0.00152	288.00000
0.00296	360.00000
0.00512	432.00000
0.00813	504.00000
0.01214	576.00000
0.01728	648.00000
0.02370	720.00000
0.03155	792.00000
0.04096	864.00000
0.05208	936.00000
0.06504	1008.00000
0.08000	1080.00000
0.08500	1080.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 4
Depth of top of Layer 4 below pile head = 15.400 m
Depth of p-y curve below pile head = 19.800 m
Depth of p-y curve below ground surface = 19.800 m
Equiv. depth of p-y curve below ground surface = 19.800 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees

Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 150.000 kPa
Epsilon_50 = 0.0050
J (default value) = 0.5000
Transition depth Xr = 8.759 m
Static pu_s for flat ground = 1987.560 kN/m
Static pu_d for flat ground = 1080.000 kN/m
y_50 = 0.01000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 1080.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00002370	72.00000
0.00018963	144.00000
0.00064000	216.00000
0.00152	288.00000
0.00296	360.00000
0.00512	432.00000
0.00813	504.00000
0.01214	576.00000
0.01728	648.00000
0.02370	720.00000
0.03155	792.00000
0.04096	864.00000
0.05208	936.00000
0.06504	1008.00000
0.08000	1080.00000
0.08500	1080.00000

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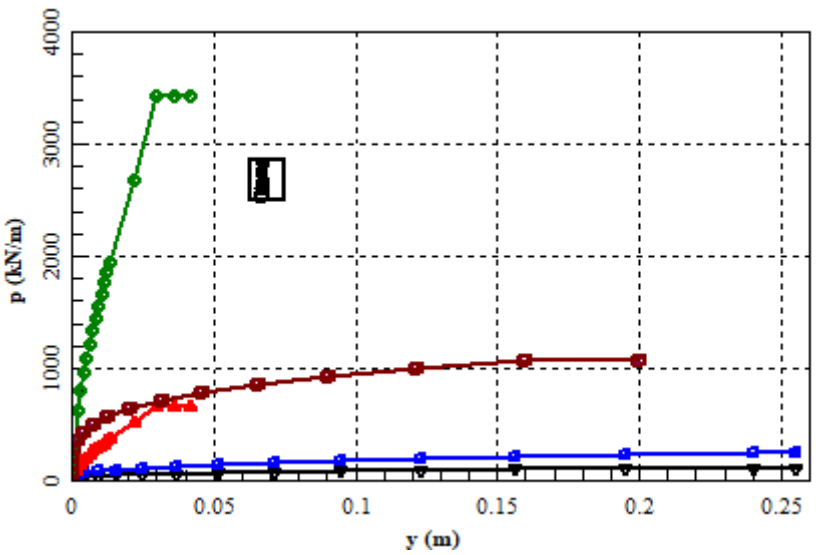

Summary of Input Soil Properties

Layer Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth m	Effective Unit Wt. kN/m3	Undrained Cohesion kPa	Angle of Friction deg.	E50 or krm	kpy kN/m3
1	Soft	0.00	9.0000	45.0000	--	0.01500	--
	Clay	4.8000	9.0000	45.0000	--	0.01500	--
2	Sand	4.8000	9.0000	--	36.0000	--	default
	(Reese, et al.)	11.7000	9.0000	--	36.0000	--	default
3	Stiff Clay	11.7000	9.0000	150.0000	--	0.00500	--
	w/o Free Water	20.0000	9.0000	150.0000	--	0.00500	--

Specified Depths for Output of p-y Curves

Lateral load-transfer (p-y) curves are computed and output at 6 depths.
(Note that load-transfer values are computeded at the specified depths and may differ from values computed at nodal points)

Depth No.	Depth Below Pile Head m	Depth Below Ground Surface m
1	0.200	0.200
2	4.600	4.600
3	5.000	5.000
4	11.500	11.500
5	11.900	11.900
6	19.800	19.800

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p-y Curves Reported for Specified Depths

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p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 0.200 m
Depth of p-y curve below ground surface = 0.200 m
Equiv. depth of p-y curve below ground surface = 0.200 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 7.273 m

Static pu_s for flat ground = 113.940 kN/m
Static pu_d for flat ground = 324.000 kN/m
y_50 = 0.03000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 113.940 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00007111	7.59600
0.00056889	15.19200
0.00192	22.78800
0.00455	30.38400
0.00889	37.98000
0.01536	45.57600
0.02439	53.17200
0.03641	60.76800
0.05184	68.36400
0.07111	75.96000
0.09465	83.55600
0.12288	91.15200
0.15623	98.74800
0.19513	106.34400
0.24000	113.94000
0.25500	113.94000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 4.600 m
Depth of p-y curve below ground surface = 4.600 m
Equiv. depth of p-y curve below ground surface = 4.600 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees

Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 7.273 m
Static pu_s for flat ground = 244.620 kN/m
Static pu_d for flat ground = 324.000 kN/m
y_50 = 0.03000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 244.620 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00007111	16.30800
0.00056889	32.61600
0.00192	48.92400
0.00455	65.23200
0.00889	81.54000
0.01536	97.84800
0.02439	114.15600
0.03641	130.46400
0.05184	146.77200
0.07111	163.08000
0.09465	179.38800
0.12288	195.69600
0.15623	212.00400
0.19513	228.31200
0.24000	244.62000
0.25500	244.62000

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 4.800 m
Depth of p-y curve below pile head = 5.000 m
Depth of p-y curve below ground surface = 5.000 m
Equiv. depth of p-y curve below ground surface = 4.209 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 800.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3
K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 743.737 kN/m
Psd = 2203.224 kN/m
Ps = Pst (shallow controls) = 743.737 kN/m
A (static) = 0.8800
B (static) = 0.5000
C = Pm/(Ym^(1/n)) = 5133.6539
n = Pm/(m Ym) = 1.6447
m = (Pu-Pm)/(Yu-Ym) = 16957.2016
Yk = [c/(kx)]^(n/(n-1)) = 0.0003 m
Pk = 33.729 kN/m
Ym = b/60 = 0.0133 m
Pm = B ps = 371.868 kN/m
Yu = 3b/80 = 0.0300 m
Pu = A Ps = 654.488 kN/m
Maximum Es value = 131074.154 kN/m/m
p-multiplier = 1.00000
y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters	p, kN/m
0.00000	0.00000

0.00025733	33.72877
0.00145	96.34268
0.00263	138.75203
0.00382	174.00575
0.00501	205.13787
0.00620	233.47579
0.00739	259.74755
0.00858	284.40569
0.00977	307.75522
0.01096	330.01377
0.01214	351.34332
0.01333	371.86846
0.02167	513.17847
0.03000	654.48848
0.03600	654.48848
0.04200	654.48848

The above p-y curve was computed using internal default values of k.

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 4.800 m
Depth of p-y curve below pile head = 11.500 m
Depth of p-y curve below ground surface = 11.500 m
Equiv. depth of p-y curve below ground surface = 10.709 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 800.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3
K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 3892.836 kN/m
Psd = 5067.414 kN/m
Ps = Pst (shallow controls) = 3892.836 kN/m

A (static) = 0.8800
B (static) = 0.5000
C = Pm/(Ym^(1/n)) = 26870.3556
n = Pm/(m Ym) = 1.6447
m = (Pu-Pm)/(Yu-Ym) = 88756.6718
Yk = [c/(kx)]^(n/(n-1)) = 0.0021 m
Pk = 632.042 kN/m
Ym = b/60 = 0.0133 m
Pm = B ps = 1946.418 kN/m
Yu = 3b/80 = 0.0300 m
Pu = A Ps = 3425.696 kN/m
Maximum Es value = 301470.555 kN/m/m
p-multiplier = 1.00000
y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters	p, kN/m
0.00000	0.00000
0.00210	632.04239
0.00312	804.55372
0.00414	955.83564
0.00516	1093.00314
0.00618	1219.85223
0.00720	1338.70351
0.00823	1451.10349
0.00925	1558.14660
0.01027	1660.64242
0.01129	1759.21063
0.01231	1854.33862
0.01333	1946.41824
0.02167	2686.05717
0.03000	3425.69610
0.03600	3425.69610
0.04200	3425.69610

The above p-y curve was computed using internal default values of k.

p-y Curve Computed Using Static Criteria for Stiff Clay without Free Water

Soil Layer Number = 3
Depth of p-y curve below pile head = 11.900 m
Depth of p-y curve below ground surface = 11.900 m
Depth of top of layer 3 below pile head = 11.700 m
Equiv. depth of p-y curve below ground surface = 11.900 m
Pile diameter = 800.000 mm
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Undrained cohesion = 150.000 kPa
Average effective unit weight = 9.00000 kN/m3
Epsilon-50 = 0.00500
Pct = 1338.180 kN/m
Pcd = 1080.000 kN/m
Pu = 1080.000 kN/m
y50 = 0.01000 m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
3.16049E-06	72.00000
0.00005057	144.00000
0.00025600	216.00000
0.00080909	288.00000
0.00198	360.00000
0.00410	432.00000
0.00759	504.00000
0.01295	576.00000
0.02074	648.00000
0.03160	720.00000
0.04627	792.00000

0.06554	864.00000
0.09027	936.00000
0.12141	1008.00000
0.16000	1080.00000
0.20000	1080.00000

p-y Curve Computed Using Static Criteria for Stiff Clay without Free Water

Soil Layer Number = 3
Depth of p-y curve below pile head = 19.800 m
Depth of p-y curve below ground surface = 19.800 m
Depth of top of layer 3 below pile head = 11.700 m
Equiv. depth of p-y curve below ground surface = 19.800 m
Pile diameter = 800.000 mm
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Undrained cohesion = 150.000 kPa
Average effective unit weight = 9.00000 kN/m3
Epsilon-50 = 0.00500
Pct = 1987.560 kN/m
Pcd = 1080.000 kN/m
Pu = 1080.000 kN/m
y50 = 0.01000 m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
3.16049E-06	72.00000
0.00005057	144.00000
0.00025600	216.00000
0.00080909	288.00000
0.00198	360.00000
0.00410	432.00000
0.00759	504.00000
0.01295	576.00000
0.02074	648.00000

0.03160	720.00000
0.04627	792.00000
0.06554	864.00000
0.09027	936.00000
0.12141	1008.00000
0.16000	1080.00000
0.20000	1080.00000

ALLEGATO B – CURVE COMPORTAMENTO PALO SINGOLO SOGGETTO A CARICO ORIZZONTALE

Opera VI02 – D800

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LPile for Windows, Version 2016-09.009

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method
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Files Used for Analysis

Path to file locations:
\m9159\Work\07_Pali\VI02\LPILE\

Name of input data file:
VI02_spalle-pila_D800.lp9d

Name of output report file:
VI02_spalle-pila_D800.lp9o

Name of plot output file:
VI02_spalle-pila_D800.lp9p

Name of runtime message file:
VI02_spalle-pila_D800.lp9r

Date and Time of Analysis

Date: June 10, 2019 Time: 14:24:28

Problem Title

Project Name: VI02 - Spalle e pila
Job Number:
Client:
Engineer:
Description:

Program Options and Settings

Computational Options:
- Use unfactored loads in computations (conventional analysis)

Engineering Units Used for Data Input and Computations:
- International System Units (kilonewtons, meters, millimeters)

Analysis Control Options:
- Maximum number of iterations allowed = 500
- Deflection tolerance for convergence = 2.5400E-07 m
- Maximum allowable deflection = 2.5400 m
- Number of pile increments = 100

Loading Type and Number of Cycles of Loading:
- Static loading specified

- Use of p-y modification factors for p-y curves not selected
- No distributed lateral loads are entered
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected

- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:
- Output files use decimal points to denote decimal symbols.
- Values of pile-head deflection, bending moment, shear force, and soil reaction are printed for full length of pile.
- Printing Increment (nodal spacing of output points) = 1
- p-y curves computed and reported at user-specified depths
- Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined = 1
Total length of pile = 20.000 m
Depth of ground surface below top of pile = 0.0000 m

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point	Depth Below Pile Head meters	Pile Diameter millimeters
1	0.000	800.00
2	20.000	800.00

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is an elastic pile
Cross-sectional Shape = Circular Pile
Length of section = 20.000000 m

Width of top of section = 0.800000 m
Width of bottom of section = 0.800000 m
Top Area = 0.502655 sq. m
Bottom Area = 0.502655 sq. m
Moment of Inertia at Top = 0.020106 m^4
Moment of Inertia at Bottom = 0.020106 m^4
Elastic Modulus = 28000000. kPa

Ground Slope and Pile Batter Angles

Ground Slope Angle = 0.000 degrees
= 0.000 radians

Pile Batter Angle = 0.000 degrees
= 0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 3 layers

Layer 1 is stiff clay with water-induced erosion

Distance from top of pile to top of layer = 0.0000 m
Distance from top of pile to bottom of layer = 4.300000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 80.000000 kPa
Undrained cohesion at bottom of layer = 80.000000 kPa
Epsilon-50 at top of layer = 0.007000
Epsilon-50 at bottom of layer = 0.007000
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 2 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 4.300000 m
Distance from top of pile to bottom of layer = 13.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 35.000000 kPa
Undrained cohesion at bottom of layer = 35.000000 kPa
Epsilon-50 at top of layer = 0.020000
Epsilon-50 at bottom of layer = 0.020000

Layer 3 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 13.000000 m
Distance from top of pile to bottom of layer = 20.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 45.000000 kPa
Undrained cohesion at bottom of layer = 45.000000 kPa
Epsilon-50 at top of layer = 0.015000
Epsilon-50 at bottom of layer = 0.015000

(Depth of the lowest soil layer extends 0.000 m below the pile tip)

Summary of Input Soil Properties

Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth m	Effective Unit Wt. kN/m3	Undrained Cohesion kPa	E50 or krm	kpy kN/m3
1	Stiff Clay	0.00	9.0000	80.0000	0.00700	default
	with Free Water	4.3000	9.0000	80.0000	0.00700	default
2	Soft	4.3000	9.0000	35.0000	0.02000	--
	Clay	13.0000	9.0000	35.0000	0.02000	--
3	Soft	13.0000	9.0000	45.0000	0.01500	--
	Clay	20.0000	9.0000	45.0000	0.01500	--

Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 8

Load No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, kN	Compute Top y vs. Pile Length
1	1	V = 50.000000 kN	M = 0.0000 m-kN	0.0000000	No
2	1	V = 75.000000 kN	M = 0.0000 m-kN	0.0000000	No
3	1	V = 100.000000 kN	M = 0.0000 m-kN	0.0000000	No
4	1	V = 125.000000 kN	M = 0.0000 m-kN	0.0000000	No
5	1	V = 150.000000 kN	M = 0.0000 m-kN	0.0000000	No
6	1	V = 175.000000 kN	M = 0.0000 m-kN	0.0000000	No
7	1	V = 200.000000 kN	M = 0.0000 m-kN	0.0000000	No
8	1	V = 700.000000 kN	M = 0.0000 m-kN	0.0000000	No

V = shear force applied normal to pile axis
M = bending moment applied to pile head
y = lateral deflection normal to pile axis
S = pile slope relative to original pile batter angle
R = rotational stiffness applied to pile head
Values of top y vs. pile lengths can be computed only for load types with specified shear loading (Load Types 1, 2, and 3).
Thrust force is assumed to be acting axially for all pile batter angles.

Specified Depths for Output of p-y Curves

Lateral load-transfer (p-y) curves are computed and output at 8 depths.
(Note that load-transfer values are computeded at the specified depths and may differ from values computed at nodal points)

Depth No.	Depth Below Pile Head m	Depth Below Ground Surface m
1	0.200	0.200
2	4.100	4.100
3	4.500	4.500
4	9.000	9.000
5	12.800	12.800
6	13.200	13.200
7	16.000	16.000
8	19.800	19.800

Depth of ground surface below top of pile = 0.0000 m

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

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Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Moment-curvature properties were derived from elastic section properties

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Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head meters	Equivalent Top Depth Below Grnd Surf meters	Same Layer Type As Layer Above	Layer is Rock or is Below Rock Layer	F0 Integral for Layer kN	F1 Integral for Layer kN
1	0.00	0.00	N.A.	No	0.00	195.0674
2	4.3000	1.8299	No	No	195.0674	1972.

3	13.0000	10.5299	Yes	No	2167.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals for Layer n. Layering correction equivalent depths are computed only for soil types with both shallow-depth and deep-depth expressions for peak lateral load transfer. These soil types are soft and stiff clays, non-liquefied sands, and cemented c-phi soil.

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p-y Curves Reported for Specified Depths

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p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 0.200 m
Depth of p-y curve below ground surface = 0.200 m
Equivalent depth of p-y curve = 0.200 m
Pile diameter = 800.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.006 m
As = 0.30366
Ac (not used) = 0.23383
pct = 174.720 kN/m
pcd = 704.000 kN/m
pc = 174.720 kN/m
pu = 6.317 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters p, kN/m

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0.00000	0.00000
0.00085026	23.08008
0.00170	46.16015
0.00255	54.91936
0.00340	58.47120
0.00425	60.16449
0.00510	60.52600
0.00595	59.85385
0.00680	58.33995
0.00765	56.11775
0.00850	53.28508
0.00935	49.91658
0.01020	46.07088
0.01701	32.84541
0.02381	19.58135
0.03061	6.31728
0.03231	6.31728

p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 4.100 m
Depth of p-y curve below ground surface = 4.100 m
Equivalent depth of p-y curve = 4.100 m
Pile diameter = 800.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.006 m
As = 0.60000
Ac (not used) = 0.30000
pct = 1085.760 kN/m
pcd = 704.000 kN/m
pc = 704.000 kN/m
pu = 61.729 kN/m
p-multiplier = 1.00000

y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00168	192.79834
0.00336	272.65803
0.00504	317.65677
0.00672	346.87668
0.00840	366.83411
0.01008	380.16536
0.01176	388.37691
0.01344	392.44090
0.01512	393.03315
0.01680	390.64849
0.01848	385.66350
0.02016	378.52904
0.03360	272.92904
0.04704	167.32904
0.06048	61.72904
0.06384	61.72904

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 4.300 m
Depth of p-y curve below pile head = 4.500 m
Depth of p-y curve below ground surface = 4.500 m
Equiv. depth of p-y curve below ground surface = 2.030 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 6.802 m
Static pu_s for flat ground = 151.923 kN/m

Static pu_d for flat ground = 252.000 kN/m
y_50 = 0.04000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 151.923 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00009481	10.12823
0.00075852	20.25646
0.00256	30.38469
0.00607	40.51292
0.01185	50.64115
0.02048	60.76938
0.03252	70.89761
0.04855	81.02583
0.06912	91.15406
0.09481	101.28229
0.12620	111.41052
0.16384	121.53875
0.20831	131.66698
0.26017	141.79521
0.32000	151.92344
0.34000	151.92344

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 4.300 m
Depth of p-y curve below pile head = 9.000 m
Depth of p-y curve below ground surface = 9.000 m
Equiv. depth of p-y curve below ground surface = 9.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200

J (default value) = 0.5000
Transition depth Xr = 6.802 m
Static pu_s for flat ground = 306.300 kN/m
Static pu_d for flat ground = 252.000 kN/m
y_50 = 0.04000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 252.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00009481	16.80000
0.00075852	33.60000
0.00256	50.40000
0.00607	67.20000
0.01185	84.00000
0.02048	100.80000
0.03252	117.60000
0.04855	134.40000
0.06912	151.20000
0.09481	168.00000
0.12620	184.80000
0.16384	201.60000
0.20831	218.40000
0.26017	235.20000
0.32000	252.00000
0.34000	252.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 4.300 m
Depth of p-y curve below pile head = 12.800 m
Depth of p-y curve below ground surface = 12.800 m
Equiv. depth of p-y curve below ground surface = 12.800 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm

Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 6.802 m
Static pu_s for flat ground = 400.160 kN/m
Static pu_d for flat ground = 252.000 kN/m
y_50 = 0.04000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 252.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00009481	16.80000
0.00075852	33.60000
0.00256	50.40000
0.00607	67.20000
0.01185	84.00000
0.02048	100.80000
0.03252	117.60000
0.04855	134.40000
0.06912	151.20000
0.09481	168.00000
0.12620	184.80000
0.16384	201.60000
0.20831	218.40000
0.26017	235.20000
0.32000	252.00000
0.34000	252.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 13.000 m
Depth of p-y curve below pile head = 13.200 m

Depth of p-y curve below ground surface = 13.200 m
Equiv. depth of p-y curve below ground surface = 13.200 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 7.273 m
Static pu_s for flat ground = 500.040 kN/m
Static pu_d for flat ground = 324.000 kN/m
y_50 = 0.03000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 324.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00007111	21.60000
0.00056889	43.20000
0.00192	64.80000
0.00455	86.40000
0.00889	108.00000
0.01536	129.60000
0.02439	151.20000
0.03641	172.80000
0.05184	194.40000
0.07111	216.00000
0.09465	237.60000
0.12288	259.20000
0.15623	280.80000
0.19513	302.40000
0.24000	324.00000
0.25500	324.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 13.000 m
Depth of p-y curve below pile head = 16.000 m
Depth of p-y curve below ground surface = 16.000 m
Equiv. depth of p-y curve below ground surface = 16.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 7.273 m
Static pu_s for flat ground = 583.200 kN/m
Static pu_d for flat ground = 324.000 kN/m
y_50 = 0.03000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 324.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00007111	21.60000
0.00056889	43.20000
0.00192	64.80000
0.00455	86.40000
0.00889	108.00000
0.01536	129.60000
0.02439	151.20000
0.03641	172.80000
0.05184	194.40000
0.07111	216.00000
0.09465	237.60000
0.12288	259.20000
0.15623	280.80000
0.19513	302.40000
0.24000	324.00000
0.25500	324.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 13.000 m
Depth of p-y curve below pile head = 19.800 m
Depth of p-y curve below ground surface = 19.800 m
Equiv. depth of p-y curve below ground surface = 19.800 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 7.273 m
Static pu_s for flat ground = 696.060 kN/m
Static pu_d for flat ground = 324.000 kN/m
y_50 = 0.03000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 324.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00007111	21.60000
0.00056889	43.20000
0.00192	64.80000
0.00455	86.40000
0.00889	108.00000
0.01536	129.60000
0.02439	151.20000
0.03641	172.80000
0.05184	194.40000
0.07111	216.00000
0.09465	237.60000
0.12288	259.20000
0.15623	280.80000
0.19513	302.40000

0.24000	324.00000
0.25500	324.00000

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 1

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 50.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	5.11E-04	-3.05E-12	50.0000	-2.56E-04	6.07E-11	562973.	0.00	0.00	0.00
0.2000	4.60E-04	10.0000	48.7513	-2.55E-04	198.9437	562973.	-12.4873	5429.	0.00
0.4000	4.09E-04	19.5005	45.2795	-2.49E-04	387.9503	562973.	-22.2305	10858.	0.00
0.6000	3.60E-04	28.1118	40.1222	-2.41E-04	559.2664	562973.	-29.3424	16287.	0.00
0.8000	3.13E-04	35.5494	33.7878	-2.30E-04	707.2327	562973.	-34.0022	21716.	0.00
1.0000	2.69E-04	41.6269	26.7431	-2.16E-04	828.1408	562973.	-36.4444	27145.	0.00
1.2000	2.27E-04	46.2466	19.4042	-2.00E-04	920.0475	562973.	-36.9449	32574.	0.00
1.4000	1.88E-04	49.3886	12.1290	-1.83E-04	982.5543	562973.	-35.8070	38003.	0.00
1.6000	1.54E-04	51.0982	5.2136	-1.65E-04	1017.	562973.	-33.3467	43432.	0.00
1.8000	1.22E-04	51.4740	-1.1090	-1.47E-04	1024.	562973.	-29.8796	48860.	0.00
2.0000	9.47E-05	50.6546	-6.6678	-1.29E-04	1008.	562973.	-25.7084	54289.	0.00
2.2000	7.07E-05	48.8069	-11.3500	-1.11E-04	970.9822	562973.	-21.1136	59718.	0.00
2.4000	5.02E-05	46.1146	-15.0959	-9.45E-05	917.4211	562973.	-16.3456	65147.	0.00
2.6000	3.29E-05	42.7685	-17.8924	-7.87E-05	850.8525	562973.	-11.6192	70576.	0.00
2.8000	1.87E-05	38.9576	-19.7654	-6.42E-05	775.0377	562973.	-7.1110	76005.	0.00
3.0000	7.26E-06	34.8623	-20.7724	-5.10E-05	693.5641	562973.	-2.9581	81434.	0.00
3.2000	-1.70E-06	30.6487	-20.9941	-3.94E-05	609.7365	562973.	0.7405	86863.	0.00
3.4000	-8.50E-06	26.4647	-20.5279	-2.93E-05	526.4983	562973.	3.9212	92292.	0.00
3.6000	-1.34E-05	22.4375	-19.4807	-2.06E-05	446.3803	562973.	6.5518	97721.	0.00
3.8000	-1.67E-05	18.6724	-17.9628	-1.33E-05	371.4762	562973.	8.6269	103150.	0.00
4.0000	-1.87E-05	15.2524	-16.0839	-7.25E-06	303.4371	562973.	10.1619	108579.	0.00
4.2000	-1.96E-05	12.2389	-13.9490	-2.36E-06	243.4845	562973.	11.1872	114008.	0.00

4.4000	-1.97E-05	9.6728	-12.2419	1.53E-06	192.4344	562973.	5.8835	59844.	0.00
4.6000	-1.90E-05	7.3421	-11.0527	4.55E-06	146.0663	562973.	6.0084	63202.	0.00
4.8000	-1.78E-05	5.2517	-9.8451	6.79E-06	104.4796	562973.	6.0683	68022.	0.00
5.0000	-1.63E-05	3.4041	-8.6315	8.33E-06	67.7219	562973.	6.0676	74459.	0.00
5.2000	-1.45E-05	1.7991	-7.4238	9.25E-06	35.7926	562973.	6.0094	82822.	0.00
5.4000	-1.26E-05	0.4346	-6.2332	9.65E-06	8.6455	562973.	5.8960	93604.	0.00
5.6000	-1.07E-05	-0.6942	-5.0708	9.60E-06	13.8098	562973.	5.7287	107554.	0.00
5.8000	-8.76E-06	-1.5937	-3.9470	9.19E-06	31.7063	562973.	5.5087	125811.	0.00
6.0000	-6.97E-06	-2.2730	-2.8725	8.51E-06	45.2191	562973.	5.2363	150150.	0.00
6.2000	-5.35E-06	-2.7427	-1.8578	7.62E-06	54.5650	562973.	4.9110	183454.	0.00
6.4000	-3.93E-06	-3.0161	-0.9136	6.59E-06	60.0027	562973.	4.5307	230692.	0.00
6.6000	-2.72E-06	-3.1082	-0.05149	5.51E-06	61.8351	562973.	4.0903	301172.	0.00
6.8000	-1.73E-06	-3.0367	0.7153	4.41E-06	60.4125	562973.	3.5774	414670.	0.00
7.0000	-9.50E-07	-2.8221	1.4220	3.37E-06	56.1430	562973.	3.4901	734505.	0.00
7.2000	-3.76E-07	-2.4678	2.0155	2.43E-06	49.0963	562973.	2.4450	1301438.	0.00
7.4000	2.35E-08	-2.0158	2.2591	1.64E-06	40.1039	562973.	-0.00931	79233.	0.00
7.6000	2.80E-07	-1.5642	2.2471	1.00E-06	31.1189	562973.	-0.1107	79233.	0.00
7.8000	4.24E-07	-1.1170	2.2192	5.26E-07	22.2220	562973.	-0.1681	79233.	0.00
8.0000	4.90E-07	-0.6765	1.8847	2.07E-07	13.4589	562973.	-3.1769	1296995.	0.00
8.2000	5.07E-07	-0.3631	1.2409	2.27E-08	7.2238	562973.	-3.2613	1285688.	0.00
8.4000	4.99E-07	-0.1802	0.5823	-7.38E-08	3.5840	562973.	-3.3246	1332606.	0.00
8.6000	4.78E-07	-0.1302	0.2309	-1.29E-07	2.5899	562973.	-0.1893	79233.	0.00
8.8000	4.47E-07	-0.08778	0.1943	-1.68E-07	1.7464	562973.	-0.1772	79233.	0.00
9.0000	4.11E-07	-0.05247	0.1603	-1.93E-07	1.0439	562973.	-0.1627	79233.	0.00
9.2000	3.70E-07	-0.02367	0.1293	-2.06E-07	0.4709	562973.	-0.1467	79233.	0.00
9.4000	3.28E-07	-7.35E-04	0.1017	-2.10E-07	0.01462	562973.	-0.1301	79233.	0.00
9.6000	2.86E-07	0.01700	0.07731	-2.08E-07	0.3381	562973.	-0.1134	79233.	0.00
9.8000	2.45E-07	0.03019	0.05626	-1.99E-07	0.6006	562973.	-0.09718	79233.	0.00
10.0000	2.07E-07	0.03950	0.03836	-1.87E-07	0.7858	562973.	-0.08182	79233.	0.00
10.2000	1.71E-07	0.04553	0.02342	-1.72E-07	0.9059	562973.	-0.06758	79233.	0.00
10.4000	1.38E-07	0.04887	0.01120	-1.55E-07	0.9722	562973.	-0.05462	79233.	0.00
10.6000	1.09E-07	0.05001	0.00143	-1.37E-07	0.9950	562973.	-0.04304	79233.	0.00
10.8000	8.29E-08	0.04944	-0.00616	-1.20E-07	0.9836	562973.	-0.03286	79233.	0.00
11.0000	6.08E-08	0.04755	-0.01185	-1.02E-07	0.9460	562973.	-0.02407	79233.	0.00
11.2000	4.20E-08	0.04470	-0.01592	-8.61E-08	0.8892	562973.	-0.01663	79233.	0.00
11.4000	2.63E-08	0.04118	-0.01863	-7.08E-08	0.8193	562973.	-0.01044	79233.	0.00
11.6000	1.36E-08	0.03725	-0.02021	-5.69E-08	0.7410	562973.	-0.00541	79233.	0.00
11.8000	3.60E-09	0.03310	-0.02089	-4.44E-08	0.6584	562973.	-0.00143	79233.	0.00
12.0000	-4.10E-09	0.02889	-0.02087	-3.34E-08	0.5747	562973.	0.00162	79233.	0.00
12.2000	-9.75E-09	0.02475	-0.02033	-2.38E-08	0.4923	562973.	0.00386	79233.	0.00
12.4000	-1.36E-08	0.02076	-0.01940	-1.57E-08	0.4130	562973.	0.00540	79233.	0.00
12.6000	-1.60E-08	0.01699	-0.01822	-9.04E-09	0.3380	562973.	0.00636	79233.	0.00
12.8000	-1.73E-08	0.01347	-0.01690	-3.63E-09	0.2680	562973.	0.00683	79233.	0.00
13.0000	-1.75E-08	0.01023	-0.01532	5.74E-10	0.2034	562973.	0.00906	103488.	0.00

13.2000	-1.70E-08	0.00734	-0.01325	3.70E-09	0.1461	562973.	0.01156	135828.	0.00
13.4000	-1.60E-08	0.00492	-0.01101	5.87E-09	0.09797	562973.	0.01088	135828.	0.00
13.6000	-1.47E-08	0.00294	-0.00892	7.27E-09	0.05850	562973.	0.00996	135828.	0.00
13.8000	-1.31E-08	0.00135	-0.00704	8.03E-09	0.02695	562973.	0.00891	135828.	0.00
14.0000	-1.15E-08	1.25E-04	-0.00537	8.30E-09	0.00249	562973.	0.00778	135828.	0.00
14.2000	-9.80E-09	-7.93E-04	-0.00393	8.18E-09	0.01577	562973.	0.00665	135828.	0.00
14.4000	-8.19E-09	-0.00144	-0.00270	7.78E-09	0.02874	562973.	0.00556	135828.	0.00
14.6000	-6.68E-09	-0.00187	-0.00169	7.19E-09	0.03729	562973.	0.00454	135828.	0.00
14.8000	-5.31E-09	-0.00212	-8.80E-04	6.48E-09	0.04223	562973.	0.00361	135828.	0.00
15.0000	-4.09E-09	-0.00223	-2.41E-04	5.71E-09	0.04429	562973.	0.00278	135828.	0.00
15.2000	-3.03E-09	-0.00222	2.42E-04	4.92E-09	0.04415	562973.	0.00206	135828.	0.00
15.4000	-2.12E-09	-0.00213	5.92E-04	4.15E-09	0.04236	562973.	0.00144	135828.	0.00
15.6000	-1.37E-09	-0.00198	8.29E-04	3.42E-09	0.03944	562973.	9.29E-04	135828.	0.00
15.8000	-7.55E-10	-0.00180	9.73E-04	2.75E-09	0.03577	562973.	5.13E-04	135828.	0.00
16.0000	-2.70E-10	-0.00159	0.00104	2.14E-09	0.03169	562973.	1.83E-04	135828.	0.00
16.2000	1.02E-10	-0.00138	0.00105	1.61E-09	0.02747	562973.	-6.93E-05	135828.	0.00
16.4000	3.76E-10	-0.00117	0.00102	1.16E-09	0.02330	562973.	-2.55E-04	135828.	0.00
16.6000	5.67E-10	-9.72E-04	9.58E-04	7.81E-10	0.01934	562973.	-3.85E-04	135828.	0.00
16.8000	6.88E-10	-7.88E-04	8.72E-04	4.68E-10	0.01568	562973.	-4.67E-04	135828.	0.00
17.0000	7.54E-10	-6.23E-04	7.74E-04	2.17E-10	0.01240	562973.	-5.12E-04	135828.	0.00
17.2000	7.75E-10	-4.79E-04	6.71E-04	2.15E-11	0.00952	562973.	-5.26E-04	135828.	0.00
17.4000	7.62E-10	-3.55E-04	5.66E-04	-1.27E-10	0.00706	562973.	-5.18E-04	135828.	0.00
17.6000	7.24E-10	-2.52E-04	4.65E-04	-2.34E-10	0.00502	562973.	-4.92E-04	135828.	0.00
17.8000	6.69E-10	-1.69E-04	3.71E-04	-3.09E-10	0.00336	562973.	-4.54E-04	135828.	0.00
18.0000	6.01E-10	-1.04E-04	2.84E-04	-3.58E-10	0.00207	562973.	-4.08E-04	135828.	0.00
18.2000	5.26E-10	-5.51E-05	2.08E-04	-3.86E-10	0.00110	562973.	-3.57E-04	135828.	0.00
18.4000	4.46E-10	-2.07E-05	1.42E-04	-3.99E-10	4.11E-04	562973.	-3.03E-04	135828.	0.00
18.6000	3.66E-10	1.67E-06	8.68E-05	-4.03E-10	3.32E-05	562973.	-2.48E-04	135828.	0.00
18.8000	2.85E-10	1.41E-05	4.26E-05	-4.00E-10	2.80E-04	562973.	-1.94E-04	135828.	0.00
19.0000	2.06E-10	1.87E-05	9.20E-06	-3.94E-10	3.72E-04	562973.	-1.40E-04	135828.	0.00
19.2000	1.28E-10	1.77E-05	-1.34E-05	-3.88E-10	3.53E-04	562973.	-8.67E-05	135828.	0.00
19.4000	5.08E-11	1.33E-05	-2.56E-05	-3.82E-10	2.65E-04	562973.	-3.45E-05	135828.	0.00
19.6000	-2.52E-11	7.51E-06	-2.73E-05	-3.78E-10	1.49E-04	562973.	1.71E-05	135828.	0.00
19.8000	-1.01E-10	2.39E-06	-1.88E-05	-3.77E-10	4.75E-05	562973.	6.83E-05	135828.	0.00
20.0000	-1.76E-10	0.00	0.00	-3.76E-10	0.00	562973.	1.19E-04	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 1:

Pile-head deflection = 0.00051128 meters
Computed slope at pile head = -0.00025628 radians
Maximum bending moment = 51.47401399 kN-m

Maximum shear force = 50.00000000 kN

Depth of maximum bending moment = 1.80000000 meters below pile head

Depth of maximum shear force = 0.000000 meters below pile head

Number of iterations = 6

Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 2

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 75.000 kN

Applied moment at pile head = 0.000 kN-m

Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	8.01E-04	-1.53E-11	75.0000	-3.97E-04	3.04E-10	562973.	0.00	0.00	0.00
0.2000	7.22E-04	15.0000	73.0399	-3.94E-04	298.4155	562973.	-19.6011	5429.	0.00
0.4000	6.44E-04	29.2160	67.5845	-3.86E-04	581.2330	562973.	-34.9524	10858.	0.00
0.6000	5.68E-04	42.0338	59.8206	-3.74E-04	836.2362	562973.	-42.6868	15041.	0.00
0.8000	4.94E-04	53.1442	50.8740	-3.57E-04	1057.	562973.	-46.7794	18924.	0.00
1.0000	4.25E-04	62.3834	41.2156	-3.36E-04	1241.	562973.	-49.8047	23440.	0.00
1.2000	3.60E-04	69.6304	31.0592	-3.13E-04	1385.	562973.	-51.7592	28760.	0.00
1.4000	3.00E-04	74.8071	20.6184	-2.87E-04	1488.	562973.	-52.6493	35114.	0.00
1.6000	2.45E-04	77.8778	10.1046	-2.60E-04	1549.	562973.	-52.4885	42826.	0.00
1.8000	1.96E-04	78.8489	0.06961	-2.32E-04	1569.	562973.	-47.8612	48860.	0.00
2.0000	1.52E-04	77.9056	-8.8506	-2.04E-04	1550.	562973.	-41.3406	54289.	0.00
2.2000	1.14E-04	75.3087	-16.3951	-1.77E-04	1498.	562973.	-34.1051	59718.	0.00
2.4000	8.15E-05	71.3476	-22.4602	-1.51E-04	1419.	562973.	-26.5453	65147.	0.00
2.6000	5.38E-05	66.3246	-27.0145	-1.27E-04	1319.	562973.	-18.9976	70576.	0.00
2.8000	3.09E-05	60.5418	-30.0882	-1.04E-04	1204.	562973.	-11.7394	76005.	0.00
3.0000	1.22E-05	54.2894	-31.7608	-8.36E-05	1080.	562973.	-4.9869	81434.	0.00
3.2000	-2.54E-06	47.8375	-32.1492	-6.54E-05	951.6966	562973.	1.1024	86863.	0.00
3.4000	-1.39E-05	41.4297	-31.3964	-4.96E-05	824.2175	562973.	6.4259	92292.	0.00
3.6000	-2.24E-05	35.2789	-29.6609	-3.60E-05	701.8520	562973.	10.9294	97721.	0.00
3.8000	-2.83E-05	29.5653	-27.1081	-2.44E-05	588.1839	562973.	14.5985	103150.	0.00
4.0000	-3.21E-05	24.4357	-23.9033	-1.48E-05	486.1329	562973.	17.4494	108579.	0.00

4.2000	-3.42E-05	20.0040	-20.2064	-6.95E-06	397.9677	562973.	19.5189	114008.	0.00
4.4000	-3.49E-05	16.3531	-17.5405	-4.88E-07	325.3352	562973.	7.1401	40894.	0.00
4.6000	-3.44E-05	12.9878	-16.0923	4.72E-06	258.3846	562973.	7.3418	42639.	0.00
4.8000	-3.30E-05	9.9162	-14.6110	8.79E-06	197.2764	562973.	7.4719	45242.	0.00
5.0000	-3.09E-05	7.1434	-13.1102	1.18E-05	142.1142	562973.	7.5355	48742.	0.00
5.2000	-2.83E-05	4.6721	-11.6031	1.39E-05	92.9485	562973.	7.5362	53256.	0.00
5.4000	-2.54E-05	2.5022	-10.1018	1.52E-05	49.7799	562973.	7.4764	58982.	0.00
5.6000	-2.22E-05	0.6314	-8.6184	1.58E-05	12.5609	562973.	7.3579	66218.	0.00
5.8000	-1.91E-05	-0.9451	-7.1644	1.57E-05	18.8028	562973.	7.1821	75400.	0.00
6.0000	-1.59E-05	-2.2344	-5.7512	1.51E-05	44.4512	562973.	6.9498	87172.	0.00
6.2000	-1.30E-05	-3.2456	-4.3900	1.42E-05	64.5692	562973.	6.6617	102503.	0.00
6.4000	-1.03E-05	-3.9904	-3.0921	1.29E-05	79.3859	562973.	6.3180	122896.	0.00
6.6000	-7.85E-06	-4.4824	-1.8684	1.14E-05	89.1749	562973.	5.9181	150799.	0.00
6.8000	-5.73E-06	-4.7377	-0.7306	9.73E-06	94.2545	562973.	5.4607	190445.	0.00
7.0000	-3.96E-06	-4.7746	0.3984	8.04E-06	94.9886	562973.	5.8286	294600.	0.00
7.2000	-2.52E-06	-4.5784	1.4832	6.38E-06	91.0845	562973.	5.0196	398612.	0.00
7.4000	-1.41E-06	-4.1814	2.3995	4.82E-06	83.1859	562973.	4.1441	589746.	0.00
7.6000	-5.89E-07	-3.6186	3.1268	3.44E-06	71.9896	562973.	3.1289	1061869.	0.00
7.8000	-3.04E-08	-2.9306	3.4409	2.27E-06	58.3034	562973.	0.01203	79233.	0.00
8.0000	3.20E-07	-2.2422	3.4294	1.36E-06	44.6076	562973.	-0.1269	79233.	0.00
8.2000	5.12E-07	-1.5589	3.1221	6.80E-07	31.0129	562973.	-2.9465	1151535.	0.00
8.4000	5.92E-07	-0.9934	2.5126	2.27E-07	19.7629	562973.	-3.1480	1062788.	0.00
8.6000	6.02E-07	-0.5538	1.8727	-4.80E-08	11.0180	562973.	-3.2513	1079338.	0.00
8.8000	5.73E-07	-0.2443	1.2137	-1.90E-07	4.8604	562973.	-3.3387	1164955.	0.00
9.0000	5.27E-07	-0.06834	0.5326	-2.45E-07	1.3597	562973.	-3.4726	1319025.	0.00
9.2000	4.75E-07	-0.03128	0.1665	-2.63E-07	0.6224	562973.	-0.1882	79233.	0.00
9.4000	4.21E-07	-0.00175	0.1310	-2.69E-07	0.03480	562973.	-0.1669	79233.	0.00
9.6000	3.67E-07	0.02111	0.09973	-2.65E-07	0.4199	562973.	-0.1456	79233.	0.00
9.8000	3.15E-07	0.03814	0.07269	-2.55E-07	0.7588	562973.	-0.1248	79233.	0.00
10.0000	2.65E-07	0.05018	0.04969	-2.39E-07	0.9984	562973.	-0.1052	79233.	0.00
10.2000	2.19E-07	0.05802	0.03047	-2.20E-07	1.1542	562973.	-0.08693	79233.	0.00
10.4000	1.77E-07	0.06237	0.01475	-1.99E-07	1.2409	562973.	-0.07031	79233.	0.00
10.6000	1.40E-07	0.06392	0.00218	-1.76E-07	1.2716	562973.	-0.05544	79233.	0.00
10.8000	1.07E-07	0.06324	-0.00761	-1.54E-07	1.2582	562973.	-0.04238	79233.	0.00
11.0000	7.85E-08	0.06087	-0.01495	-1.32E-07	1.2111	562973.	-0.03110	79233.	0.00
11.2000	5.43E-08	0.05726	-0.02022	-1.11E-07	1.1392	562973.	-0.02153	79233.	0.00
11.4000	3.43E-08	0.05279	-0.02373	-9.11E-08	1.0502	562973.	-0.01357	79233.	0.00
11.6000	1.79E-08	0.04777	-0.02579	-7.32E-08	0.9504	562973.	-0.00710	79233.	0.00
11.8000	4.97E-09	0.04247	-0.02670	-5.72E-08	0.8449	562973.	-0.00197	79233.	0.00
12.0000	-4.96E-09	0.03709	-0.02670	-4.30E-08	0.7379	562973.	0.00196	79233.	0.00
12.2000	-1.22E-08	0.03179	-0.02602	-3.08E-08	0.6325	562973.	0.00485	79233.	0.00
12.4000	-1.73E-08	0.02668	-0.02485	-2.04E-08	0.5309	562973.	0.00685	79233.	0.00
12.6000	-2.04E-08	0.02185	-0.02336	-1.18E-08	0.4347	562973.	0.00809	79233.	0.00
12.8000	-2.20E-08	0.01734	-0.02168	-4.84E-09	0.3450	562973.	0.00871	79233.	0.00

13.0000	-2.23E-08	0.01318	-0.01965	5.86E-10	0.2622	562973.	0.01156	103488.	0.00
13.2000	-2.18E-08	0.00948	-0.01701	4.61E-09	0.1887	562973.	0.01478	135828.	0.00
13.4000	-2.05E-08	0.00638	-0.01414	7.43E-09	0.1268	562973.	0.01392	135828.	0.00
13.6000	-1.88E-08	0.00383	-0.01147	9.24E-09	0.07611	562973.	0.01276	135828.	0.00
13.8000	-1.68E-08	0.00179	-0.00906	1.02E-08	0.03553	562973.	0.01141	135828.	0.00
14.0000	-1.47E-08	2.03E-04	-0.00692	1.06E-08	0.00404	562973.	0.00998	135828.	0.00
14.2000	-1.26E-08	-9.81E-04	-0.00506	1.05E-08	0.01951	562973.	0.00854	135828.	0.00
14.4000	-1.05E-08	-0.00182	-0.00350	9.95E-09	0.03627	562973.	0.00714	135828.	0.00
14.6000	-8.59E-09	-0.00238	-0.00220	9.21E-09	0.04734	562973.	0.00583	135828.	0.00
14.8000	-6.83E-09	-0.00270	-0.00115	8.31E-09	0.05377	562973.	0.00464	135828.	0.00
15.0000	-5.27E-09	-0.00284	-3.30E-04	7.32E-09	0.05651	562973.	0.00358	135828.	0.00
15.2000	-3.90E-09	-0.00283	2.92E-04	6.31E-09	0.05640	562973.	0.00265	135828.	0.00
15.4000	-2.74E-09	-0.00272	7.44E-04	5.33E-09	0.05418	562973.	0.00186	135828.	0.00
15.6000	-1.77E-09	-0.00254	0.00105	4.39E-09	0.05048	562973.	0.00120	135828.	0.00
15.8000	-9.86E-10	-0.00230	0.00124	3.53E-09	0.04582	562973.	6.70E-04	135828.	0.00
16.0000	-3.62E-10	-0.00204	0.00133	2.76E-09	0.04063	562973.	2.46E-04	135828.	0.00
16.2000	1.17E-10	-0.00177	0.00135	2.08E-09	0.03524	562973.	-7.97E-05	135828.	0.00
16.4000	4.71E-10	-0.00150	0.00131	1.50E-09	0.02992	562973.	-3.20E-04	135828.	0.00
16.6000	7.17E-10	-0.00125	0.00123	1.01E-09	0.02485	562973.	-4.87E-04	135828.	0.00
16.8000	8.75E-10	-0.00101	0.00112	6.09E-10	0.02017	562973.	-5.94E-04	135828.	0.00
17.0000	9.61E-10	-8.02E-04	9.93E-04	2.86E-10	0.01596	562973.	-6.52E-04	135828.	0.00
17.2000	9.90E-10	-6.17E-04	8.60E-04	3.43E-11	0.01227	562973.	-6.72E-04	135828.	0.00
17.4000	9.74E-10	-4.58E-04	7.27E-04	-1.57E-10	0.00911	562973.	-6.62E-04	135828.	0.00
17.6000	9.27E-10	-3.26E-04	5.98E-04	-2.96E-10	0.00648	562973.	-6.29E-04	135828.	0.00
17.8000	8.56E-10	-2.19E-04	4.77E-04	-3.93E-10	0.00435	562973.	-5.81E-04	135828.	0.00
18.0000	7.70E-10	-1.35E-04	3.66E-04	-4.55E-10	0.00269	562973.	-5.23E-04	135828.	0.00
18.2000	6.74E-10	-7.24E-05	2.68E-04	-4.92E-10	0.00144	562973.	-4.58E-04	135828.	0.00
18.4000	5.73E-10	-2.79E-05	1.83E-04	-5.10E-10	5.55E-04	562973.	-3.89E-04	135828.	0.00
18.6000	4.70E-10	1.04E-06	1.13E-04	-5.15E-10	2.07E-05	562973.	-3.19E-04	135828.	0.00
18.8000	3.67E-10	1.72E-05	5.58E-05	-5.12E-10	3.42E-04	562973.	-2.49E-04	135828.	0.00
19.0000	2.65E-10	2.34E-05	1.29E-05	-5.04E-10	4.65E-04	562973.	-1.80E-04	135828.	0.00
19.2000	1.65E-10	2.24E-05	-1.63E-05	-4.96E-10	4.45E-04	562973.	-1.12E-04	135828.	0.00
19.4000	6.67E-11	1.68E-05	-3.21E-05	-4.89E-10	3.35E-04	562973.	-4.53E-05	135828.	0.00
19.6000	-3.06E-11	9.53E-06	-3.45E-05	-4.85E-10	1.90E-04	562973.	2.08E-05	135828.	0.00
19.8000	-1.27E-10	3.04E-06	-2.38E-05	-4.82E-10	6.04E-05	562973.	8.64E-05	135828.	0.00
20.0000	-2.24E-10	0.00	0.00	-4.82E-10	0.00	562973.	1.52E-04	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 2:

Pile-head deflection = 0.00080144 meters

Computed slope at pile head = -0.00039674 radians

Maximum bending moment = 78.84893794 kN-m

Maximum shear force = 75.00000000 kN

Depth of maximum bending moment = 1.80000000 meters below pile head

Depth of maximum shear force = 0.000000 meters below pile head

Number of iterations = 8

Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 3

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 100.000 kN

Applied moment at pile head = 0.000 kN-m

Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00117	-2.14E-11	100.0000	-5.65E-04	4.25E-10	562973.	0.00	0.00	0.00
0.2000	0.00106	20.0000	97.1206	-5.61E-04	397.8874	562973.	-28.7938	5429.	0.00
0.4000	9.49E-04	38.8482	89.6824	-5.51E-04	772.8614	562973.	-45.5888	9605.	0.00
0.6000	8.41E-04	55.8729	79.9285	-5.34E-04	1112.	562973.	-51.9498	12361.	0.00
0.8000	7.36E-04	70.8197	69.0262	-5.11E-04	1409.	562973.	-57.0735	15513.	0.00
1.0000	6.36E-04	83.4834	57.2249	-4.84E-04	1661.	562973.	-60.9390	19161.	0.00
1.2000	5.42E-04	93.7096	44.7773	-4.52E-04	1864.	562973.	-63.5375	23433.	0.00
1.4000	4.55E-04	101.3943	31.9364	-4.18E-04	2017.	562973.	-64.8706	28505.	0.00
1.6000	3.75E-04	106.4842	18.9546	-3.81E-04	2118.	562973.	-64.9481	34618.	0.00
1.8000	3.03E-04	108.9761	6.0813	-3.42E-04	2168.	562973.	-63.7844	42120.	0.00
2.0000	2.38E-04	108.9167	-6.4363	-3.04E-04	2167.	562973.	-61.3920	51535.	0.00
2.2000	1.81E-04	106.4016	-17.9913	-2.65E-04	2117.	562973.	-54.1577	59718.	0.00
2.4000	1.32E-04	101.7202	-27.7087	-2.29E-04	2024.	562973.	-43.0164	65147.	0.00
2.6000	9.00E-05	95.3182	-35.1851	-1.94E-04	1896.	562973.	-31.7479	70576.	0.00
2.8000	5.46E-05	87.6462	-40.4367	-1.61E-04	1744.	562973.	-20.7681	76005.	0.00
3.0000	2.56E-05	79.1435	-43.5542	-1.31E-04	1575.	562973.	-10.4065	81434.	0.00
3.2000	2.09E-06	70.2245	-44.6856	-1.05E-04	1397.	562973.	-0.9078	86863.	0.00
3.4000	-1.64E-05	61.2692	-44.0202	-8.15E-05	1219.	562973.	7.5625	92292.	0.00
3.6000	-3.05E-05	52.6164	-41.7730	-6.13E-05	1047.	562973.	14.9089	97721.	0.00
3.8000	-4.09E-05	44.5600	-38.1727	-4.40E-05	886.4932	562973.	21.0941	103150.	0.00

4.0000	-4.81E-05	37.3473	-33.4509	-2.95E-05	743.0018	562973.	26.1243	108579.	0.00
4.2000	-5.27E-05	31.1797	-27.8351	-1.73E-05	620.2994	562973.	30.0338	114008.	0.00
4.4000	-5.50E-05	26.2133	-24.0002	-7.10E-06	521.4973	562973.	8.3154	30217.	0.00
4.6000	-5.55E-05	21.5796	-22.3070	1.39E-06	429.3123	562973.	8.6163	31034.	0.00
4.8000	-5.45E-05	17.2905	-20.5617	8.29E-06	343.9839	562973.	8.8366	32438.	0.00
5.0000	-5.22E-05	13.3549	-18.7797	1.37E-05	265.6875	562973.	8.9830	34410.	0.00
5.2000	-4.90E-05	9.7786	-16.9754	1.78E-05	194.5396	562973.	9.0598	36987.	0.00
5.4000	-4.51E-05	6.5647	-15.1624	2.07E-05	130.6013	562973.	9.0702	40246.	0.00
5.6000	-4.07E-05	3.7137	-13.3538	2.26E-05	73.8808	562973.	9.0163	44316.	0.00
5.8000	-3.60E-05	1.2232	-11.5622	2.35E-05	24.3353	562973.	8.8999	49383.	0.00
6.0000	-3.13E-05	-0.9112	-9.8000	2.35E-05	18.1279	562973.	8.7221	55713.	0.00
6.2000	-2.66E-05	-2.6968	-8.0794	2.29E-05	53.6504	562973.	8.4839	63688.	0.00
6.4000	-2.22E-05	-4.1430	-6.4124	2.16E-05	82.4215	562973.	8.1859	73864.	0.00
6.6000	-1.80E-05	-5.2617	-4.8109	2.00E-05	104.6786	562973.	7.8288	87073.	0.00
6.8000	-1.42E-05	-6.0673	-3.2868	1.80E-05	120.7057	562973.	7.4125	104599.	0.00
7.0000	-1.08E-05	-6.5764	-1.7274	1.57E-05	130.8341	562973.	8.1814	151573.	0.00
7.2000	-7.88E-06	-6.7583	-0.1713	1.34E-05	134.4520	562973.	7.3793	187181.	0.00
7.4000	-5.45E-06	-6.6450	1.2208	1.10E-05	132.1975	562973.	6.5421	239888.	0.00
7.6000	-3.50E-06	-6.2700	2.4414	8.68E-06	124.7371	562973.	5.6638	324008.	0.00
7.8000	-1.98E-06	-5.6684	3.4804	6.56E-06	112.7696	562973.	4.7263	476609.	0.00
8.0000	-8.73E-07	-4.8778	4.3205	4.68E-06	97.0410	562973.	3.6746	841582.	0.00
8.2000	-1.10E-07	-3.9402	4.6923	3.12E-06	78.3882	562973.	0.04351	79233.	0.00
8.4000	3.74E-07	-3.0009	4.4463	1.88E-06	59.7009	562973.	-2.5032	1339789.	0.00
8.6000	6.44E-07	-2.1617	3.8843	9.67E-07	43.0055	562973.	-3.1167	968019.	0.00
8.8000	7.61E-07	-1.4472	3.2371	3.26E-07	28.7903	562973.	-3.3559	882418.	0.00
9.0000	7.74E-07	-0.8669	2.5573	-8.47E-08	17.2457	562973.	-3.4420	888843.	0.00
9.2000	7.27E-07	-0.4242	1.8669	-3.14E-07	8.4402	562973.	-3.4616	952633.	0.00
9.4000	6.49E-07	-0.1201	1.1736	-4.11E-07	2.3893	562973.	-3.4719	1070141.	0.00
9.6000	5.62E-07	0.04518	0.4742	-4.24E-07	0.8988	562973.	-3.5215	1252180.	0.00
9.8000	4.79E-07	0.06959	0.1031	-4.04E-07	1.3845	562973.	-0.1899	79233.	0.00
10.0000	4.01E-07	0.08642	0.06822	-3.76E-07	1.7192	562973.	-0.1589	79233.	0.00
10.2000	3.29E-07	0.09688	0.03931	-3.43E-07	1.9274	562973.	-0.1303	79233.	0.00
10.4000	2.64E-07	0.1021	0.01583	-3.08E-07	2.0320	562973.	-0.1044	79233.	0.00
10.6000	2.06E-07	0.1032	-0.00276	-2.72E-07	2.0534	562973.	-0.08148	79233.	0.00
10.8000	1.55E-07	0.1010	-0.01705	-2.35E-07	2.0100	562973.	-0.06142	79233.	0.00
11.0000	1.12E-07	0.09640	-0.02761	-2.00E-07	1.9177	562973.	-0.04420	79233.	0.00
11.2000	7.50E-08	0.08999	-0.03500	-1.67E-07	1.7903	562973.	-0.02970	79233.	0.00
11.4000	4.47E-08	0.08240	-0.03974	-1.36E-07	1.6392	562973.	-0.01772	79233.	0.00
11.6000	2.04E-08	0.07409	-0.04232	-1.09E-07	1.4740	562973.	-0.00807	79233.	0.00
11.8000	1.27E-09	0.06547	-0.04318	-8.39E-08	1.3024	562973.	-5.05E-04	79233.	0.00
12.0000	-1.32E-08	0.05682	-0.04271	-6.22E-08	1.1304	562973.	0.00522	79233.	0.00
12.2000	-2.36E-08	0.04838	-0.04125	-4.35E-08	0.9625	562973.	0.00934	79233.	0.00
12.4000	-3.06E-08	0.04032	-0.03911	-2.77E-08	0.8021	562973.	0.01211	79233.	0.00
12.6000	-3.47E-08	0.03274	-0.03652	-1.47E-08	0.6513	562973.	0.01374	79233.	0.00

12.8000	-3.65E-08	0.02571	-0.03371	-4.35E-09	0.5114	562973.	0.01444	79233.	0.00
13.0000	-3.64E-08	0.01926	-0.03038	3.63E-09	0.3831	562973.	0.01884	103488.	0.00
13.2000	-3.50E-08	0.01356	-0.02612	9.46E-09	0.2697	562973.	0.02377	135828.	0.00
13.4000	-3.26E-08	0.00881	-0.02152	1.34E-08	0.1753	562973.	0.02216	135828.	0.00
13.6000	-2.96E-08	0.00495	-0.01729	1.59E-08	0.09844	562973.	0.02012	135828.	0.00
13.8000	-2.63E-08	0.00189	-0.01350	1.71E-08	0.03764	562973.	0.01785	135828.	0.00
14.0000	-2.28E-08	-4.50E-04	-0.01016	1.73E-08	0.00896	562973.	0.01548	135828.	0.00
14.2000	-1.93E-08	-0.00217	-0.00730	1.69E-08	0.04324	562973.	0.01314	135828.	0.00
14.4000	-1.60E-08	-0.00337	-0.00490	1.59E-08	0.06707	562973.	0.01089	135828.	0.00
14.6000	-1.30E-08	-0.00413	-0.00293	1.46E-08	0.08223	562973.	0.00882	135828.	0.00
14.8000	-1.02E-08	-0.00454	-0.00135	1.30E-08	0.09037	562973.	0.00694	135828.	0.00
15.0000	-7.77E-09	-0.00467	-1.31E-04	1.14E-08	0.09300	562973.	0.00528	135828.	0.00
15.2000	-5.66E-09	-0.00460	7.81E-04	9.74E-09	0.09142	562973.	0.00384	135828.	0.00
15.4000	-3.88E-09	-0.00436	0.00143	8.15E-09	0.08678	562973.	0.00263	135828.	0.00
15.6000	-2.40E-09	-0.00402	0.00186	6.66E-09	0.08005	562973.	0.00163	135828.	0.00
15.8000	-1.21E-09	-0.00362	0.00210	5.30E-09	0.07202	562973.	8.23E-04	135828.	0.00
16.0000	-2.81E-10	-0.00318	0.00220	4.09E-09	0.06333	562973.	1.91E-04	135828.	0.00
16.2000	4.25E-10	-0.00274	0.00219	3.04E-09	0.05450	562973.	-2.88E-04	135828.	0.00
16.4000	9.36E-10	-0.00231	0.00210	2.14E-09	0.04589	562973.	-6.35E-04	135828.	0.00
16.6000	1.28E-09	-0.00190	0.00195	1.40E-09	0.03779	562973.	-8.71E-04	135828.	0.00
16.8000	1.49E-09	-0.00153	0.00176	7.89E-10	0.03038	562973.	-0.00102	135828.	0.00
17.0000	1.60E-09	-0.00120	0.00155	3.06E-10	0.02378	562973.	-0.00109	135828.	0.00
17.2000	1.62E-09	-9.07E-04	0.00133	-6.78E-11	0.01804	562973.	-0.00110	135828.	0.00
17.4000	1.57E-09	-6.62E-04	0.00112	-3.46E-10	0.01318	562973.	-0.00107	135828.	0.00
17.6000	1.48E-09	-4.61E-04	9.08E-04	-5.46E-10	0.00916	562973.	-0.00100	135828.	0.00
17.8000	1.35E-09	-2.99E-04	7.16E-04	-6.81E-10	0.00595	562973.	-9.19E-04	135828.	0.00
18.0000	1.21E-09	-1.74E-04	5.42E-04	-7.65E-10	0.00346	562973.	-8.19E-04	135828.	0.00
18.2000	1.05E-09	-8.19E-05	3.89E-04	-8.10E-10	0.00163	562973.	-7.11E-04	135828.	0.00
18.4000	8.82E-10	-1.83E-05	2.58E-04	-8.28E-10	3.64E-04	562973.	-5.99E-04	135828.	0.00
18.6000	7.16E-10	2.14E-05	1.50E-04	-8.28E-10	4.26E-04	562973.	-4.86E-04	135828.	0.00
18.8000	5.51E-10	4.17E-05	6.39E-05	-8.16E-10	8.30E-04	562973.	-3.74E-04	135828.	0.00
19.0000	3.89E-10	4.70E-05	9.70E-08	-8.01E-10	9.35E-04	562973.	-2.64E-04	135828.	0.00
19.2000	2.31E-10	4.17E-05	-4.20E-05	-7.85E-10	8.30E-04	562973.	-1.57E-04	135828.	0.00
19.4000	7.51E-11	3.02E-05	-6.28E-05	-7.72E-10	6.01E-04	562973.	-5.10E-05	135828.	0.00
19.6000	-7.82E-11	1.66E-05	-6.25E-05	-7.64E-10	3.31E-04	562973.	5.31E-05	135828.	0.00
19.8000	-2.30E-10	5.19E-06	-4.16E-05	-7.60E-10	1.03E-04	562973.	1.56E-04	135828.	0.00
20.0000	-3.82E-10	0.00	0.00	-7.59E-10	0.00	562973.	2.60E-04	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 3:

Pile-head deflection = 0.00117365 meters

Computed slope at pile head = -0.00056451 radians

Maximum bending moment = 108.97614821 kN-m

Maximum shear force = 100.00000000 kN

Depth of maximum bending moment = 1.80000000 meters below pile head

Depth of maximum shear force = 0.000000 meters below pile head

Number of iterations = 8

Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 4

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 125.000 kN

Applied moment at pile head = 0.000 kN-m

Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00160	-9.16E-12	125.0000	-7.48E-04	1.82E-10	562973.	0.00	0.00	0.00
0.2000	0.00145	25.0000	121.0656	-7.44E-04	497.3592	562973.	-39.3444	5429.	0.00
0.4000	0.00130	48.4262	111.7930	-7.31E-04	963.4091	562973.	-53.3810	8203.	0.00
0.6000	0.00116	69.7172	100.3598	-7.10E-04	1387.	562973.	-60.9507	10535.	0.00
0.8000	0.00102	88.5702	87.5531	-6.82E-04	1762.	562973.	-67.1170	13192.	0.00
1.0000	8.84E-04	104.7384	73.6560	-6.47E-04	2084.	562973.	-71.8537	16250.	0.00
1.2000	7.59E-04	118.0326	58.9559	-6.08E-04	2348.	562973.	-75.1470	19812.	0.00
1.4000	6.41E-04	128.3208	43.7418	-5.64E-04	2553.	562973.	-76.9941	24016.	0.00
1.6000	5.33E-04	135.5293	28.3023	-5.17E-04	2696.	562973.	-77.4009	29047.	0.00
1.8000	4.34E-04	139.6417	12.9244	-4.68E-04	2778.	562973.	-76.3783	35173.	0.00
2.0000	3.46E-04	140.6990	-2.1071	-4.19E-04	2799.	562973.	-73.9361	42789.	0.00
2.2000	2.67E-04	138.7989	-16.5079	-3.69E-04	2761.	562973.	-70.0722	52515.	0.00
2.4000	1.98E-04	134.0959	-29.9649	-3.20E-04	2668.	562973.	-64.4981	65147.	0.00
2.6000	1.39E-04	126.8129	-41.3084	-2.74E-04	2523.	562973.	-48.9368	70576.	0.00
2.8000	8.84E-05	117.5725	-49.5599	-2.31E-04	2339.	562973.	-33.5786	76005.	0.00
3.0000	4.64E-05	106.9890	-54.8068	-1.91E-04	2128.	562973.	-18.8900	81434.	0.00
3.2000	1.20E-05	95.6498	-57.2183	-1.55E-04	1903.	562973.	-5.2248	86863.	0.00
3.4000	-1.55E-05	84.1016	-57.0237	-1.23E-04	1673.	562973.	7.1700	92292.	0.00
3.6000	-3.71E-05	72.8403	-54.4926	-9.50E-05	1449.	562973.	18.1417	97721.	0.00

3.8000	-5.35E-05	62.3046	-49.9168	-7.10E-05	1240.	562973.	27.6165	103150.	0.00
4.0000	-6.55E-05	52.8736	-43.5972	-5.06E-05	1052.	562973.	35.5791	108579.	0.00
4.2000	-7.38E-05	44.8657	-35.9979	-3.32E-05	892.5754	562973.	40.4142	109569.	0.00
4.4000	-7.88E-05	38.4744	-31.0192	-1.84E-05	765.4248	562973.	9.3729	23785.	0.00
4.6000	-8.11E-05	32.4581	-29.1042	-5.79E-06	645.7328	562973.	9.7770	24103.	0.00
4.8000	-8.11E-05	26.8328	-27.1174	4.74E-06	533.8212	562973.	10.0907	24875.	0.00
5.0000	-7.92E-05	21.6111	-25.0761	1.33E-05	429.9396	562973.	10.3225	26057.	0.00
5.2000	-7.58E-05	16.8024	-22.9960	2.02E-05	334.2723	562973.	10.4778	27648.	0.00
5.4000	-7.12E-05	12.4127	-20.8922	2.54E-05	246.9430	562973.	10.5605	29680.	0.00
5.6000	-6.57E-05	8.4455	-18.7788	2.91E-05	168.0174	562973.	10.5733	32211.	0.00
5.8000	-5.95E-05	4.9012	-16.6697	3.14E-05	97.5059	562973.	10.5182	35333.	0.00
6.0000	-5.31E-05	1.7776	-14.5782	3.26E-05	35.3645	562973.	10.3966	39175.	0.00
6.2000	-4.65E-05	-0.9301	-12.5176	3.28E-05	18.5036	562973.	10.2095	43920.	0.00
6.4000	-4.00E-05	-3.2294	-10.5008	3.20E-05	64.2472	562973.	9.9577	49826.	0.00
6.6000	-3.37E-05	-5.1304	-8.5409	3.05E-05	102.0667	562973.	9.6418	57258.	0.00
6.8000	-2.78E-05	-6.6458	-6.6505	2.85E-05	132.2135	562973.	9.2620	66749.	0.00
7.0000	-2.23E-05	-7.7906	-4.6843	2.59E-05	154.9898	562973.	10.4005	93290.	0.00
7.2000	-1.74E-05	-8.5195	-2.6861	2.30E-05	169.4897	562973.	9.5810	110152.	0.00
7.4000	-1.31E-05	-8.8651	-0.8556	1.99E-05	176.3653	562973.	8.7248	133202.	0.00
7.6000	-9.43E-06	-8.8617	0.8000	1.68E-05	176.2979	562973.	7.8309	166013.	0.00
7.8000	-6.40E-06	-8.5451	2.2725	1.37E-05	169.9990	562973.	6.8943	215524.	0.00
8.0000	-3.97E-06	-7.9527	3.5521	1.07E-05	158.2137	562973.	5.9011	297394.	0.00
8.2000	-2.10E-06	-7.1243	4.6235	8.06E-06	141.7325	562973.	4.8135	457472.	0.00
8.4000	-7.46E-07	-6.1033	5.4553	5.71E-06	121.4209	562973.	3.5046	939041.	0.00
8.6000	1.78E-07	-4.9421	5.7988	3.74E-06	98.3204	562973.	-0.07047	79233.	0.00
8.8000	7.51E-07	-3.7838	5.4659	2.19E-06	75.2759	562973.	-3.2580	867573.	0.00
9.0000	1.06E-06	-2.7558	4.7698	1.03E-06	54.8240	562973.	-3.7032	701775.	0.00
9.2000	1.16E-06	-1.8759	4.0137	2.09E-07	37.3191	562973.	-3.8575	662862.	0.00
9.4000	1.14E-06	-1.1503	3.2419	-3.28E-07	22.8838	562973.	-3.8611	677894.	0.00
9.6000	1.03E-06	-0.5791	2.4780	-6.35E-07	11.5211	562973.	-3.7772	731545.	0.00
9.8000	8.85E-07	-0.1591	1.7357	-7.66E-07	3.1642	562973.	-3.6466	824082.	0.00
10.0000	7.26E-07	0.1151	1.0207	-7.74E-07	2.2908	562973.	-3.5031	964917.	0.00
10.2000	5.75E-07	0.2492	0.3326	-7.09E-07	4.9582	562973.	-3.3780	1174292.	0.00
10.4000	4.42E-07	0.2482	-0.02275	-6.21E-07	4.9374	562973.	-0.1752	79233.	0.00
10.6000	3.27E-07	0.2401	-0.05322	-5.34E-07	4.7771	562973.	-0.1295	79233.	0.00
10.8000	2.29E-07	0.2269	-0.07522	-4.51E-07	4.5138	562973.	-0.09053	79233.	0.00
11.0000	1.46E-07	0.2100	-0.09007	-3.74E-07	4.1785	562973.	-0.05796	79233.	0.00
11.2000	7.90E-08	0.1909	-0.09900	-3.03E-07	3.7971	562973.	-0.03129	79233.	0.00
11.4000	2.52E-08	0.1704	-0.1031	-2.38E-07	3.3907	562973.	-0.01000	79233.	0.00
11.6000	-1.64E-08	0.1496	-0.1035	-1.82E-07	2.9764	562973.	0.00649	79233.	0.00
11.8000	-4.74E-08	0.1290	-0.1010	-1.32E-07	2.5672	562973.	0.01878	79233.	0.00
12.0000	-6.92E-08	0.1092	-0.09633	-8.98E-08	2.1730	562973.	0.02743	79233.	0.00
12.2000	-8.33E-08	0.09051	-0.09029	-5.43E-08	1.8007	562973.	0.03300	79233.	0.00
12.4000	-9.10E-08	0.07311	-0.08338	-2.52E-08	1.4546	562973.	0.03603	79233.	0.00

12.6000	-9.34E-08	0.05716	-0.07608	-2.10E-09	1.1371	562973.	0.03700	79233.	0.00
12.8000	-9.18E-08	0.04268	-0.06874	1.56E-08	0.8491	562973.	0.03637	79233.	0.00
13.0000	-8.72E-08	0.02966	-0.06060	2.85E-08	0.5901	562973.	0.04510	103488.	0.00
13.2000	-8.04E-08	0.01844	-0.05063	3.70E-08	0.3669	562973.	0.05460	135828.	0.00
13.4000	-7.23E-08	0.00941	-0.04025	4.20E-08	0.1872	562973.	0.04913	135828.	0.00
13.6000	-6.36E-08	0.00234	-0.03102	4.41E-08	0.04659	562973.	0.04320	135828.	0.00
13.8000	-5.47E-08	-0.00300	-0.02299	4.39E-08	0.05965	562973.	0.03716	135828.	0.00
14.0000	-4.60E-08	-0.00685	-0.01614	4.22E-08	0.1363	562973.	0.03126	135828.	0.00
14.2000	-3.78E-08	-0.00946	-0.01045	3.93E-08	0.1881	562973.	0.02569	135828.	0.00
14.4000	-3.03E-08	-0.01103	-0.00582	3.57E-08	0.2195	562973.	0.02058	135828.	0.00
14.6000	-2.36E-08	-0.01178	-0.00216	3.16E-08	0.2344	562973.	0.01601	135828.	0.00
14.8000	-1.77E-08	-0.01190	6.40E-04	2.74E-08	0.2367	562973.	0.01200	135828.	0.00
15.0000	-1.26E-08	-0.01153	0.00270	2.32E-08	0.2293	562973.	0.00856	135828.	0.00
15.2000	-8.37E-09	-0.01082	0.00412	1.93E-08	0.2152	562973.	0.00568	135828.	0.00
15.4000	-4.90E-09	-0.00988	0.00502	1.56E-08	0.1965	562973.	0.00333	135828.	0.00
15.6000	-2.13E-09	-0.00881	0.00550	1.23E-08	0.1752	562973.	0.00145	135828.	0.00
15.8000	1.33E-11	-0.00768	0.00564	9.35E-09	0.1528	562973.	-9.02E-06	135828.	0.00
16.0000	1.61E-09	-0.00655	0.00553	6.82E-09	0.1303	562973.	-0.00109	135828.	0.00
16.2000	2.74E-09	-0.00547	0.00524	4.69E-09	0.1088	562973.	-0.00186	135828.	0.00
16.4000	3.49E-09	-0.00446	0.00481	2.92E-09	0.08867	562973.	-0.00237	135828.	0.00
16.6000	3.91E-09	-0.00354	0.00431	1.50E-09	0.07045	562973.	-0.00266	135828.	0.00
16.8000	4.09E-09	-0.00273	0.00377	3.89E-10	0.05436	562973.	-0.00278	135828.	0.00
17.0000	4.07E-09	-0.00203	0.00321	-4.58E-10	0.04047	562973.	-0.00276	135828.	0.00
17.2000	3.90E-09	-0.00145	0.00267	-1.08E-09	0.02878	562973.	-0.00265	135828.	0.00
17.4000	3.64E-09	-9.65E-04	0.00216	-1.50E-09	0.01919	562973.	-0.00247	135828.	0.00
17.6000	3.30E-09	-5.82E-04	0.00169	-1.78E-09	0.01158	562973.	-0.00224	135828.	0.00
17.8000	2.93E-09	-2.89E-04	0.00127	-1.93E-09	0.00575	562973.	-0.00199	135828.	0.00
18.0000	2.53E-09	-7.52E-05	8.97E-04	-2.00E-09	0.00150	562973.	-0.00172	135828.	0.00
18.2000	2.13E-09	6.97E-05	5.80E-04	-2.00E-09	0.00139	562973.	-0.00144	135828.	0.00
18.4000	1.73E-09	1.57E-04	3.19E-04	-1.96E-09	0.00312	562973.	-0.00117	135828.	0.00
18.6000	1.34E-09	1.97E-04	1.10E-04	-1.90E-09	0.00392	562973.	-9.12E-04	135828.	0.00
18.8000	9.70E-10	2.01E-04	-4.70E-05	-1.83E-09	0.00400	562973.	-6.59E-04	135828.	0.00
19.0000	6.12E-10	1.78E-04	-1.55E-04	-1.76E-09	0.00355	562973.	-4.16E-04	135828.	0.00
19.2000	2.67E-10	1.39E-04	-2.14E-04	-1.70E-09	0.00277	562973.	-1.81E-04	135828.	0.00
19.4000	-6.82E-11	9.27E-05	-2.28E-04	-1.66E-09	0.00184	562973.	4.63E-05	135828.	0.00
19.6000	-3.97E-10	4.81E-05	-1.96E-04	-1.64E-09	9.56E-04	562973.	2.70E-04	135828.	0.00
19.8000	-7.22E-10	1.42E-05	-1.20E-04	-1.62E-09	2.83E-04	562973.	4.91E-04	135828.	0.00
20.0000	-1.05E-09	0.00	0.00	-1.62E-09	0.00	562973.	7.11E-04	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 4:

Pile-head deflection = 0.00159911 meters
Computed slope at pile head = -0.00074838 radians
Maximum bending moment = 140.69902138 kN-m
Maximum shear force = 125.00000000 kN
Depth of maximum bending moment = 2.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 9
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 5

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 150.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00207	3.66E-11	150.0000	-9.46E-04	7.29E-10	562973.	0.00	0.00	0.00
0.2000	0.00188	30.0000	144.9931	-9.40E-04	596.8310	562973.	-50.0685	5318.	0.00
0.4000	0.00170	57.9973	133.8931	-9.25E-04	1154.	562973.	-60.9315	7186.	0.00
0.6000	0.00151	83.5573	120.8306	-9.00E-04	1662.	562973.	-69.6943	9213.	0.00
0.8000	0.00134	106.3295	106.1710	-8.66E-04	2115.	562973.	-76.9017	11513.	0.00
1.0000	0.00117	126.0256	90.2285	-8.25E-04	2507.	562973.	-82.5226	14148.	0.00
1.2000	0.00101	142.4209	73.3224	-7.77E-04	2833.	562973.	-86.5389	17203.	0.00
1.4000	8.56E-04	155.3546	55.7742	-7.24E-04	3091.	562973.	-88.9434	20788.	0.00
1.6000	7.16E-04	164.7306	37.9060	-6.67E-04	3277.	562973.	-89.7381	25052.	0.00
1.8000	5.89E-04	170.5170	20.0392	-6.08E-04	3392.	562973.	-88.9301	30206.	0.00
2.0000	4.73E-04	172.7462	2.4936	-5.47E-04	3437.	562973.	-86.5253	36561.	0.00
2.2000	3.70E-04	171.5145	-14.4107	-4.86E-04	3412.	562973.	-82.5178	44591.	0.00
2.4000	2.79E-04	166.9820	-30.3495	-4.25E-04	3322.	562973.	-76.8706	55088.	0.00
2.6000	2.00E-04	159.3746	-44.6878	-3.68E-04	3171.	562973.	-66.5121	66540.	0.00
2.8000	1.32E-04	149.1068	-56.3582	-3.13E-04	2966.	562973.	-50.1918	76005.	0.00
3.0000	7.48E-05	136.8314	-64.4241	-2.62E-04	2722.	562973.	-30.4677	81434.	0.00
3.2000	2.73E-05	123.3372	-68.6567	-2.16E-04	2454.	562973.	-11.8581	86863.	0.00
3.4000	-1.15E-05	109.3687	-69.3137	-1.74E-04	2176.	562973.	5.2877	92292.	0.00

3.6000	-4.24E-05	95.6117	-66.7109	-1.38E-04	1902.	562973.	20.7411	97721.	0.00
3.8000	-6.66E-05	82.6843	-61.1994	-1.06E-04	1645.	562973.	34.3732	103150.	0.00
4.0000	-8.50E-05	71.1319	-53.4255	-7.90E-05	1415.	562973.	43.3662	102074.	0.00
4.2000	-9.82E-05	61.3141	-44.4259	-5.55E-05	1220.	562973.	46.6299	94932.	0.00
4.4000	-1.07E-04	53.3616	-38.7248	-3.51E-05	1062.	562973.	10.3808	19376.	0.00
4.6000	-1.12E-04	45.8242	-36.5975	-1.75E-05	911.6437	562973.	10.8923	19404.	0.00
4.8000	-1.14E-04	38.7226	-34.3780	-2.45E-06	770.3607	562973.	11.3031	19806.	0.00
5.0000	-1.13E-04	32.0730	-32.0853	1.01E-05	638.0724	562973.	11.6236	20527.	0.00
5.2000	-1.10E-04	25.8884	-29.7369	2.04E-05	515.0339	562973.	11.8610	21549.	0.00
5.4000	-1.05E-04	20.1783	-27.3488	2.86E-05	401.4341	562973.	12.0199	22877.	0.00
5.6000	-9.86E-05	14.9489	-24.9364	3.48E-05	297.3993	562973.	12.1036	24540.	0.00
5.8000	-9.11E-05	10.2037	-22.5146	3.93E-05	202.9963	562973.	12.1145	26584.	0.00
6.0000	-8.29E-05	5.9431	-20.0977	4.22E-05	118.2338	562973.	12.0544	29076.	0.00
6.2000	-7.43E-05	2.1646	-17.6998	4.36E-05	43.0638	562973.	11.9245	32112.	0.00
6.4000	-6.55E-05	-1.1369	-15.3348	4.38E-05	22.6170	562973.	11.7258	35822.	0.00
6.6000	-5.67E-05	-3.9693	-13.0163	4.29E-05	78.9666	562973.	11.4591	40387.	0.00
6.8000	-4.83E-05	-6.3434	-10.7579	4.11E-05	126.1973	562973.	11.1251	46059.	0.00
7.0000	-4.03E-05	-8.2724	-8.3806	3.85E-05	164.5750	562973.	12.6478	62738.	0.00
7.2000	-3.29E-05	-9.6956	-5.9334	3.53E-05	192.8879	562973.	11.8236	71833.	0.00
7.4000	-2.62E-05	-10.6458	-3.6550	3.17E-05	211.7918	562973.	10.9611	83647.	0.00
7.6000	-2.03E-05	-11.1576	-1.5526	2.78E-05	221.9732	562973.	10.0622	99363.	0.00
7.8000	-1.51E-05	-11.2669	0.3662	2.38E-05	224.1474	562973.	9.1265	120952.	0.00
8.0000	-1.07E-05	-11.0111	2.0940	1.99E-05	219.0588	562973.	8.1513	151941.	0.00
8.2000	-7.15E-06	-10.4293	3.6219	1.60E-05	207.4837	562973.	7.1276	199367.	0.00
8.4000	-4.31E-06	-9.5623	4.9380	1.25E-05	190.2366	562973.	6.0336	279854.	0.00
8.6000	-2.15E-06	-8.4541	6.0223	9.29E-06	168.1881	562973.	4.8086	446655.	0.00
8.8000	-5.95E-07	-7.1534	6.8235	6.52E-06	142.3130	562973.	3.2034	1076819.	0.00
9.0000	4.55E-07	-5.7247	6.8699	4.23E-06	113.8888	562973.	-2.7390	1204131.	0.00
9.2000	1.10E-06	-4.4055	6.2202	2.43E-06	87.6441	562973.	-3.7580	684456.	0.00
9.4000	1.43E-06	-3.2366	5.4323	1.08E-06	64.3900	562973.	-4.1214	577123.	0.00
9.6000	1.53E-06	-2.2326	4.5976	1.04E-07	44.4156	562973.	-4.2248	552822.	0.00
9.8000	1.47E-06	-1.3975	3.7576	-5.40E-07	27.8032	562973.	-4.1761	568179.	0.00
10.0000	1.31E-06	-0.7296	2.9374	-9.18E-07	14.5139	562973.	-4.0257	613548.	0.00
10.2000	1.10E-06	-0.2226	2.1545	-1.09E-06	4.4282	562973.	-3.8031	689794.	0.00
10.4000	8.77E-07	0.1323	1.4213	-1.10E-06	2.6310	562973.	-3.5286	804433.	0.00
10.6000	6.61E-07	0.3459	0.7468	-1.02E-06	6.8823	562973.	-3.2168	972885.	0.00
10.8000	4.70E-07	0.4310	0.1373	-8.81E-07	8.5737	562973.	-2.8777	1224839.	0.00
11.0000	3.09E-07	0.4009	-0.1627	-7.33E-07	7.9751	562973.	-0.1225	79233.	0.00
11.2000	1.77E-07	0.3659	-0.1819	-5.97E-07	7.2791	562973.	-0.07004	79233.	0.00
11.4000	7.05E-08	0.3281	-0.1917	-4.73E-07	6.5274	562973.	-0.02792	79233.	0.00
11.6000	-1.25E-08	0.2892	-0.1940	-3.64E-07	5.7534	562973.	0.00496	79233.	0.00
11.8000	-7.50E-08	0.2505	-0.1906	-2.68E-07	4.9834	562973.	0.02970	79233.	0.00
12.0000	-1.20E-07	0.2130	-0.1828	-1.85E-07	4.2370	562973.	0.04740	79233.	0.00
12.2000	-1.49E-07	0.1774	-0.1722	-1.16E-07	3.5283	562973.	0.05909	79233.	0.00

12.4000	-1.66E-07	0.1441	-0.1597	-5.90E-08	2.8666	562973.	0.06580	79233.	0.00
12.6000	-1.73E-07	0.1135	-0.1463	-1.33E-08	2.2573	562973.	0.06844	79233.	0.00
12.8000	-1.71E-07	0.08558	-0.1327	2.21E-08	1.7025	562973.	0.06790	79233.	0.00
13.0000	-1.64E-07	0.06040	-0.1174	4.80E-08	1.2017	562973.	0.08482	103488.	0.00
13.2000	-1.52E-07	0.03863	-0.09856	6.56E-08	0.7684	562973.	0.1034	135828.	0.00
13.4000	-1.38E-07	0.02098	-0.07888	7.62E-08	0.4174	562973.	0.09351	135828.	0.00
13.6000	-1.22E-07	0.00707	-0.06126	8.12E-08	0.1407	562973.	0.08265	135828.	0.00
13.8000	-1.05E-07	-0.00353	-0.04585	8.18E-08	0.07014	562973.	0.07145	135828.	0.00
14.0000	-8.90E-08	-0.01127	-0.03266	7.92E-08	0.2241	562973.	0.06043	135828.	0.00
14.2000	-7.35E-08	-0.01659	-0.02163	7.42E-08	0.3301	562973.	0.04994	135828.	0.00
14.4000	-5.93E-08	-0.01992	-0.01261	6.78E-08	0.3962	562973.	0.04026	135828.	0.00
14.6000	-4.64E-08	-0.02163	-0.00543	6.04E-08	0.4304	562973.	0.03154	135828.	0.00
14.8000	-3.51E-08	-0.02209	1.14E-04	5.26E-08	0.4394	562973.	0.02386	135828.	0.00
15.0000	-2.54E-08	-0.02159	0.00423	4.48E-08	0.4295	562973.	0.01725	135828.	0.00
15.2000	-1.72E-08	-0.02040	0.00712	3.74E-08	0.4058	562973.	0.01168	135828.	0.00
15.4000	-1.04E-08	-0.01874	0.00900	3.04E-08	0.3728	562973.	0.00709	135828.	0.00
15.6000	-5.02E-09	-0.01680	0.01005	2.41E-08	0.3342	562973.	0.00341	135828.	0.00
15.8000	-7.94E-10	-0.01472	0.01044	1.85E-08	0.2929	562973.	5.39E-04	135828.	0.00
16.0000	2.39E-09	-0.01262	0.01033	1.37E-08	0.2511	562973.	-0.00162	135828.	0.00
16.2000	4.67E-09	-0.01059	0.00985	9.54E-09	0.2107	562973.	-0.00317	135828.	0.00
16.4000	6.21E-09	-0.00868	0.00911	6.12E-09	0.1727	562973.	-0.00421	135828.	0.00
16.6000	7.12E-09	-0.00694	0.00821	3.35E-09	0.1381	562973.	-0.00484	135828.	0.00
16.8000	7.54E-09	-0.00540	0.00721	1.15E-09	0.1074	562973.	-0.00512	135828.	0.00
17.0000	7.58E-09	-0.00406	0.00619	-5.27E-10	0.08073	562973.	-0.00515	135828.	0.00
17.2000	7.33E-09	-0.00292	0.00517	-1.77E-09	0.05817	562973.	-0.00498	135828.	0.00
17.4000	6.88E-09	-0.00199	0.00421	-2.64E-09	0.03957	562973.	-0.00467	135828.	0.00
17.6000	6.28E-09	-0.00124	0.00331	-3.21E-09	0.02469	562973.	-0.00426	135828.	0.00
17.8000	5.59E-09	-6.63E-04	0.00251	-3.55E-09	0.01319	562973.	-0.00380	135828.	0.00
18.0000	4.86E-09	-2.37E-04	0.00180	-3.71E-09	0.00472	562973.	-0.00330	135828.	0.00
18.2000	4.11E-09	5.65E-05	0.00119	-3.74E-09	0.00112	562973.	-0.00279	135828.	0.00
18.4000	3.36E-09	2.39E-04	6.84E-04	-3.69E-09	0.00475	562973.	-0.00228	135828.	0.00
18.6000	2.63E-09	3.30E-04	2.77E-04	-3.59E-09	0.00656	562973.	-0.00179	135828.	0.00
18.8000	1.92E-09	3.50E-04	-3.23E-05	-3.47E-09	0.00695	562973.	-0.00131	135828.	0.00
19.0000	1.24E-09	3.17E-04	-2.47E-04	-3.35E-09	0.00631	562973.	-8.43E-04	135828.	0.00
19.2000	5.83E-10	2.51E-04	-3.71E-04	-3.25E-09	0.00499	562973.	-3.96E-04	135828.	0.00
19.4000	-5.86E-11	1.69E-04	-4.07E-04	-3.18E-09	0.00335	562973.	3.98E-05	135828.	0.00
19.6000	-6.88E-10	8.81E-05	-3.56E-04	-3.13E-09	0.00175	562973.	4.67E-04	135828.	0.00
19.8000	-1.31E-09	2.62E-05	-2.20E-04	-3.11E-09	5.22E-04	562973.	8.90E-04	135828.	0.00
20.0000	-1.93E-09	0.00	0.00	-3.11E-09	0.00	562973.	0.00131	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 5:

Pile-head deflection = 0.00207205 meters
Computed slope at pile head = -0.00094582 radians
Maximum bending moment = 172.74622963 kN-m
Maximum shear force = 150.00000000 kN
Depth of maximum bending moment = 2.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 11
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 6

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 175.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00262	-3.05E-11	175.0000	-0.00117	6.07E-10	562973.	0.00	0.00	0.00
0.2000	0.00238	35.0000	169.6070	-0.00116	696.3029	562973.	-53.9303	4523.	0.00
0.4000	0.00215	67.8428	157.3817	-0.00114	1350.	562973.	-68.3224	6345.	0.00
0.6000	0.00193	97.9527	142.6827	-0.00111	1949.	562973.	-78.6681	8162.	0.00
0.8000	0.00171	124.9159	126.1192	-0.00107	2485.	562973.	-86.9666	10180.	0.00
1.0000	0.00150	148.4004	108.0700	-0.00102	2952.	562973.	-93.5252	12484.	0.00
1.2000	0.00130	168.1439	88.8854	-9.68E-04	3345.	562973.	-98.3214	15142.	0.00
1.4000	0.00111	183.9545	68.9188	-9.06E-04	3660.	562973.	-101.3439	18244.	0.00
1.6000	9.36E-04	195.7114	48.5254	-8.38E-04	3894.	562973.	-102.5907	21913.	0.00
1.8000	7.76E-04	203.3647	28.0598	-7.68E-04	4046.	562973.	-102.0649	26319.	0.00
2.0000	6.29E-04	206.9353	7.8765	-6.95E-04	4117.	562973.	-99.7685	31707.	0.00
2.2000	4.98E-04	206.5152	-11.6696	-6.21E-04	4108.	562973.	-95.6919	38452.	0.00
2.4000	3.81E-04	202.2675	-30.2182	-5.49E-04	4024.	562973.	-89.7943	47159.	0.00
2.6000	2.78E-04	194.4280	-47.0447	-4.78E-04	3868.	562973.	-78.4710	56399.	0.00
2.8000	1.90E-04	183.4496	-61.3682	-4.11E-04	3650.	562973.	-64.7636	68336.	0.00
3.0000	1.14E-04	169.8807	-72.4802	-3.48E-04	3380.	562973.	-46.3570	81434.	0.00
3.2000	5.02E-05	154.4575	-79.2974	-2.91E-04	3073.	562973.	-21.8153	86863.	0.00

3.4000	-2.42E-06	138.1617	-81.3673	-2.39E-04	2749.	562973.	1.1163	92292.	0.00
3.6000	-4.53E-05	121.9106	-79.0447	-1.93E-04	2425.	562973.	22.1097	97721.	0.00
3.8000	-7.94E-05	106.5438	-72.7377	-1.52E-04	2120.	562973.	40.9610	103150.	0.00
4.0000	-1.06E-04	92.8155	-63.7976	-1.17E-04	1847.	562973.	48.4400	91379.	0.00
4.2000	-1.26E-04	81.0248	-53.6723	-8.56E-05	1612.	562973.	52.8132	83814.	0.00
4.4000	-1.40E-04	71.3466	-47.2554	-5.86E-05	1419.	562973.	11.3556	16191.	0.00
4.6000	-1.49E-04	62.1227	-44.9217	-3.49E-05	1236.	562973.	11.9816	16034.	0.00
4.8000	-1.54E-04	53.3780	-42.4740	-1.43E-05	1062.	562973.	12.4953	16205.	0.00
5.0000	-1.55E-04	45.1331	-39.9334	3.16E-06	897.8939	562973.	12.9101	16638.	0.00
5.2000	-1.53E-04	37.4046	-37.3190	1.78E-05	744.1406	562973.	13.2346	17305.	0.00
5.4000	-1.48E-04	30.2055	-34.6481	2.98E-05	600.9190	562973.	13.4746	18201.	0.00
5.6000	-1.41E-04	23.5454	-31.9372	3.94E-05	468.4201	562973.	13.6342	19336.	0.00
5.8000	-1.32E-04	17.4306	-29.2021	4.67E-05	346.7710	562973.	13.7163	20733.	0.00
6.0000	-1.22E-04	11.8645	-26.4582	5.19E-05	236.0370	562973.	13.7229	22430.	0.00
6.2000	-1.12E-04	6.8473	-23.7203	5.52E-05	136.2234	562973.	13.6557	24479.	0.00
6.4000	-1.00E-04	2.3764	-21.0032	5.68E-05	47.2765	562973.	13.5158	26953.	0.00
6.6000	-8.88E-05	-1.5539	-18.3212	5.70E-05	30.9148	562973.	13.3042	29950.	0.00
6.8000	-7.75E-05	-4.9521	-15.6886	5.58E-05	98.5191	562973.	13.0218	33602.	0.00
7.0000	-6.65E-05	-7.8294	-12.8923	5.35E-05	155.7609	562973.	14.9419	44925.	0.00
7.2000	-5.61E-05	-10.1090	-9.9862	5.04E-05	201.1124	562973.	14.1183	50341.	0.00
7.4000	-4.64E-05	-11.8239	-7.2490	4.65E-05	235.2288	562973.	13.2539	57155.	0.00
7.6000	-3.75E-05	-13.0086	-4.6885	4.20E-05	258.7982	562973.	12.3513	65860.	0.00
7.8000	-2.96E-05	-13.6993	-2.3121	3.73E-05	272.5387	562973.	11.4125	77213.	0.00
8.0000	-2.26E-05	-13.9335	-0.1271	3.24E-05	277.1974	562973.	10.4379	92422.	0.00
8.2000	-1.66E-05	-13.7501	1.8593	2.75E-05	273.5499	562973.	9.4258	113536.	0.00
8.4000	-1.16E-05	-13.1897	3.6389	2.27E-05	262.4016	562973.	8.3705	144349.	0.00
8.6000	-7.53E-06	-12.2946	5.2018	1.82E-05	244.5923	562973.	7.2581	192826.	0.00
8.8000	-4.33E-06	-11.1090	6.5330	1.40E-05	221.0072	562973.	6.0544	279497.	0.00
9.0000	-1.93E-06	-9.6813	7.6042	1.03E-05	192.6042	562973.	4.6573	483677.	0.00
9.2000	-2.07E-07	-8.0674	8.0781	7.16E-06	160.4950	562973.	0.08207	79233.	0.00
9.4000	9.38E-07	-6.4501	7.7342	4.58E-06	128.3205	562973.	-3.5211	750525.	0.00
9.6000	1.63E-06	-4.9737	6.9543	2.55E-06	98.9479	562973.	-4.2783	526418.	0.00
9.8000	1.96E-06	-3.6684	6.0698	1.02E-06	72.9800	562973.	-4.5663	466130.	0.00
10.0000	2.03E-06	-2.5457	5.1508	-8.65E-08	50.6457	562973.	-4.6244	455074.	0.00
10.2000	1.92E-06	-1.6081	4.2348	-8.24E-07	31.9915	562973.	-4.5355	471308.	0.00
10.4000	1.70E-06	-0.8518	3.3473	-1.26E-06	16.9464	562973.	-4.3396	509758.	0.00
10.6000	1.42E-06	-0.2692	2.5074	-1.46E-06	5.3548	562973.	-4.0590	571642.	0.00
10.8000	1.12E-06	0.1511	1.7310	-1.48E-06	3.0069	562973.	-3.7051	662536.	0.00
11.0000	8.28E-07	0.4232	1.0323	-1.38E-06	8.4201	562973.	-3.2819	793145.	0.00
11.2000	5.67E-07	0.5641	0.4256	-1.20E-06	11.2216	562973.	-2.7850	982833.	0.00
11.4000	3.46E-07	0.5935	-0.07275	-9.98E-07	11.8070	562973.	-2.1986	1270992.	0.00
11.6000	1.67E-07	0.5350	-0.2992	-7.98E-07	10.6427	562973.	-0.06631	79233.	0.00
11.8000	2.68E-08	0.4738	-0.3069	-6.19E-07	9.4257	562973.	-0.01062	79233.	0.00
12.0000	-8.01E-08	0.4122	-0.3048	-4.61E-07	8.2002	562973.	0.03174	79233.	0.00

12.2000	-1.58E-07	0.3519	-0.2954	-3.26E-07	7.0000	562973.	0.06249	79233.	0.00
12.4000	-2.10E-07	0.2940	-0.2808	-2.11E-07	5.8495	562973.	0.08334	79233.	0.00
12.6000	-2.42E-07	0.2395	-0.2629	-1.16E-07	4.7653	562973.	0.09592	79233.	0.00
12.8000	-2.57E-07	0.1889	-0.2431	-4.00E-08	3.7575	562973.	0.1017	79233.	0.00
13.0000	-2.58E-07	0.1423	-0.2196	1.88E-08	2.8306	562973.	0.1336	103488.	0.00
13.2000	-2.49E-07	0.1010	-0.1893	6.20E-08	2.0100	562973.	0.1693	135828.	0.00
13.4000	-2.33E-07	0.06656	-0.1565	9.18E-08	1.3242	562973.	0.1585	135828.	0.00
13.6000	-2.13E-07	0.03842	-0.1262	1.10E-07	0.7644	562973.	0.1444	135828.	0.00
13.8000	-1.89E-07	0.01606	-0.09895	1.20E-07	0.3196	562973.	0.1285	135828.	0.00
14.0000	-1.65E-07	-0.00116	-0.07493	1.23E-07	0.02304	562973.	0.1118	135828.	0.00
14.2000	-1.40E-07	-0.01391	-0.05424	1.20E-07	0.2767	562973.	0.09513	135828.	0.00
14.4000	-1.17E-07	-0.02285	-0.03681	1.14E-07	0.4547	562973.	0.07916	135828.	0.00
14.6000	-9.47E-08	-0.02863	-0.02247	1.04E-07	0.5696	562973.	0.06429	135828.	0.00
14.8000	-7.48E-08	-0.03184	-0.01096	9.36E-08	0.6334	562973.	0.05080	135828.	0.00
15.0000	-5.72E-08	-0.03301	-0.00199	8.21E-08	0.6568	562973.	0.03885	135828.	0.00
15.2000	-4.20E-08	-0.03264	0.00474	7.05E-08	0.6493	562973.	0.02849	135828.	0.00
15.4000	-2.90E-08	-0.03112	0.00956	5.91E-08	0.6191	562973.	0.01971	135828.	0.00
15.6000	-1.83E-08	-0.02881	0.01278	4.85E-08	0.5732	562973.	0.01243	135828.	0.00
15.8000	-9.62E-09	-0.02601	0.01467	3.88E-08	0.5174	562973.	0.00653	135828.	0.00
16.0000	-2.79E-09	-0.02294	0.01552	3.01E-08	0.4564	562973.	0.00190	135828.	0.00
16.2000	2.40E-09	-0.01980	0.01554	2.25E-08	0.3939	562973.	-0.00163	135828.	0.00
16.4000	6.19E-09	-0.01672	0.01496	1.60E-08	0.3327	562973.	-0.00421	135828.	0.00
16.6000	8.80E-09	-0.01382	0.01394	1.06E-08	0.2749	562973.	-0.00597	135828.	0.00
16.8000	1.04E-08	-0.01115	0.01264	6.12E-09	0.2218	562973.	-0.00707	135828.	0.00
17.0000	1.12E-08	-0.00876	0.01116	2.58E-09	0.1743	562973.	-0.00764	135828.	0.00
17.2000	1.14E-08	-0.00668	0.00962	-1.59E-10	0.1329	562973.	-0.00778	135828.	0.00
17.4000	1.12E-08	-0.00491	0.00809	-2.22E-09	0.09774	562973.	-0.00759	135828.	0.00
17.6000	1.06E-08	-0.00345	0.00661	-3.70E-09	0.06859	562973.	-0.00717	135828.	0.00
17.8000	9.70E-09	-0.00227	0.00523	-4.72E-09	0.04514	562973.	-0.00659	135828.	0.00
18.0000	8.67E-09	-0.00135	0.00399	-5.36E-09	0.02694	562973.	-0.00589	135828.	0.00
18.2000	7.55E-09	-6.74E-04	0.00288	-5.72E-09	0.01342	562973.	-0.00513	135828.	0.00
18.4000	6.39E-09	-2.00E-04	0.00194	-5.88E-09	0.00398	562973.	-0.00434	135828.	0.00
18.6000	5.20E-09	1.01E-04	0.00115	-5.90E-09	0.00200	562973.	-0.00353	135828.	0.00
18.8000	4.03E-09	2.60E-04	5.24E-04	-5.83E-09	0.00517	562973.	-0.00274	135828.	0.00
19.0000	2.87E-09	3.10E-04	5.52E-05	-5.73E-09	0.00617	562973.	-0.00195	135828.	0.00
19.2000	1.74E-09	2.82E-04	-2.58E-04	-5.63E-09	0.00561	562973.	-0.00118	135828.	0.00
19.4000	6.20E-10	2.07E-04	-4.18E-04	-5.54E-09	0.00412	562973.	-4.21E-04	135828.	0.00
19.6000	-4.80E-10	1.15E-04	-4.27E-04	-5.48E-09	0.00229	562973.	3.26E-04	135828.	0.00
19.8000	-1.57E-09	3.62E-05	-2.88E-04	-5.45E-09	7.19E-04	562973.	0.00107	135828.	0.00
20.0000	-2.66E-09	0.00	0.00	-5.45E-09	0.00	562973.	0.00181	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 6:

Pile-head deflection = 0.00261789 meters
Computed slope at pile head = -0.00116674 radians
Maximum bending moment = 206.93532335 kN-m
Maximum shear force = 175.00000000 kN
Depth of maximum bending moment = 2.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 12
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 7

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 200.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00322	3.05E-11	200.0000	-0.00140	6.07E-10	562973.	0.00	0.00	0.00
0.2000	0.00294	40.0000	194.3175	-0.00140	795.7747	562973.	-56.8248	3867.	0.00
0.4000	0.00266	77.7270	181.2804	-0.00138	1546.	562973.	-73.5460	5528.	0.00
0.6000	0.00239	112.5122	165.1855	-0.00134	2238.	562973.	-87.4033	7319.	0.00
0.8000	0.00212	143.8012	146.7488	-0.00130	2861.	562973.	-96.9643	9130.	0.00
1.0000	0.00187	171.2117	126.6050	-0.00124	3406.	562973.	-104.4735	11175.	0.00
1.2000	0.00163	194.4432	105.1507	-0.00118	3868.	562973.	-110.0689	13525.	0.00
1.4000	0.00140	213.2720	82.7703	-0.00110	4243.	562973.	-113.7352	16256.	0.00
1.6000	0.00119	227.5513	59.8502	-0.00103	4527.	562973.	-115.4666	19469.	0.00
1.8000	9.89E-04	237.2120	36.7773	-9.43E-04	4719.	562973.	-115.2621	23305.	0.00
2.0000	8.09E-04	242.2623	13.9391	-8.58E-04	4820.	562973.	-113.1198	27964.	0.00
2.2000	6.46E-04	242.7877	-8.2755	-7.71E-04	4830.	562973.	-109.0259	33748.	0.00
2.4000	5.00E-04	238.9521	-29.4717	-6.86E-04	4754.	562973.	-102.9359	41137.	0.00
2.6000	3.72E-04	230.9990	-48.8351	-6.02E-04	4596.	562973.	-90.6985	48794.	0.00
2.8000	2.59E-04	219.4180	-65.4824	-5.22E-04	4365.	562973.	-75.7749	58404.	0.00
3.0000	1.63E-04	204.8060	-79.0619	-4.47E-04	4074.	562973.	-60.0198	73734.	0.00

3.2000	8.07E-05	187.7933	-88.5674	-3.77E-04	3736.	562973.	-35.0348	86863.	0.00
3.4000	1.19E-05	169.3791	-92.6189	-3.14E-04	3370.	562973.	-5.4804	92292.	0.00
3.6000	-4.49E-05	150.7457	-90.9741	-2.57E-04	2999.	562973.	21.9285	97721.	0.00
3.8000	-9.09E-05	132.9894	-84.2954	-2.07E-04	2646.	562973.	44.8588	98672.	0.00
4.0000	-1.28E-04	117.0275	-74.4970	-1.62E-04	2328.	562973.	53.1246	83319.	0.00
4.2000	-1.56E-04	103.1906	-63.3125	-1.23E-04	2053.	562973.	58.7210	75379.	0.00
4.4000	-1.77E-04	91.7026	-56.2139	-8.85E-05	1824.	562973.	12.2648	13878.	0.00
4.6000	-1.91E-04	80.7051	-53.6868	-5.78E-05	1606.	562973.	13.0062	13606.	0.00
4.8000	-2.00E-04	70.2279	-51.0238	-3.10E-05	1397.	562973.	13.6232	13631.	0.00
5.0000	-2.04E-04	60.2956	-48.2483	-7.84E-06	1200.	562973.	14.1322	13883.	0.00
5.2000	-2.03E-04	50.9285	-45.3807	1.19E-05	1013.	562973.	14.5438	14327.	0.00
5.4000	-1.99E-04	42.1433	-42.4398	2.84E-05	838.4140	562973.	14.8650	14953.	0.00
5.6000	-1.92E-04	33.9526	-39.4432	4.20E-05	675.4660	562973.	15.1007	15759.	0.00
5.8000	-1.82E-04	26.3660	-36.4077	5.27E-05	524.5348	562973.	15.2542	16759.	0.00
6.0000	-1.71E-04	19.3895	-33.3495	6.08E-05	385.7426	562973.	15.3281	17973.	0.00
6.2000	-1.58E-04	13.0262	-30.2843	6.66E-05	259.1480	562973.	15.3241	19432.	0.00
6.4000	-1.44E-04	7.2758	-27.2275	7.02E-05	144.7480	562973.	15.2438	21181.	0.00
6.6000	-1.30E-04	2.1352	-24.1943	7.18E-05	42.4786	562973.	15.0883	23276.	0.00
6.8000	-1.15E-04	-2.4019	-21.1996	7.18E-05	47.7838	562973.	14.8585	25795.	0.00
7.0000	-1.01E-04	-6.3446	-17.9971	7.02E-05	126.2222	562973.	17.1663	34016.	0.00
7.2000	-8.71E-05	-9.6007	-14.6459	6.74E-05	191.0002	562973.	16.3457	37530.	0.00
7.4000	-7.40E-05	-12.2030	-11.4633	6.35E-05	242.7706	562973.	15.4807	41859.	0.00
7.6000	-6.17E-05	-14.1860	-8.4577	5.89E-05	282.2220	562973.	14.5746	47250.	0.00
7.8000	-5.04E-05	-15.5861	-5.6373	5.36E-05	310.0752	562973.	13.6302	54061.	0.00
8.0000	-4.03E-05	-16.4409	-3.0093	4.79E-05	327.0818	562973.	12.6492	62827.	0.00
8.2000	-3.13E-05	-16.7898	-0.5812	4.20E-05	334.0225	562973.	11.6320	74383.	0.00
8.4000	-2.35E-05	-16.6734	1.6397	3.60E-05	331.7068	562973.	10.5774	90103.	0.00
8.6000	-1.69E-05	-16.1339	3.6455	3.02E-05	320.9739	562973.	9.4806	112427.	0.00
8.8000	-1.14E-05	-15.2152	5.4266	2.46E-05	302.6966	562973.	8.3305	146167.	0.00
9.0000	-7.01E-06	-13.9632	6.9698	1.94E-05	277.7900	562973.	7.1015	202520.	0.00
9.2000	-3.62E-06	-12.4273	8.2526	1.48E-05	247.2323	562973.	5.7260	316386.	0.00
9.4000	-1.11E-06	-10.6622	9.2203	1.07E-05	212.1180	562973.	3.9511	712488.	0.00
9.6000	6.44E-07	-8.7391	9.3125	7.21E-06	173.8595	562973.	-3.0294	941047.	0.00
9.8000	1.78E-06	-6.9372	8.5700	4.43E-06	138.0117	562973.	-4.3948	494951.	0.00
10.0000	2.41E-06	-5.3111	7.6406	2.25E-06	105.6612	562973.	-4.8993	405740.	0.00
10.2000	2.68E-06	-3.8810	6.6423	6.19E-07	77.2094	562973.	-5.0842	379880.	0.00
10.4000	2.66E-06	-2.6542	5.6255	-5.41E-07	52.8035	562973.	-5.0835	381826.	0.00
10.6000	2.46E-06	-1.6308	4.6216	-1.30E-06	32.4429	562973.	-4.9562	402917.	0.00
10.8000	2.14E-06	-0.8056	3.6525	-1.74E-06	16.0263	562973.	-4.7344	442113.	0.00
11.0000	1.77E-06	-0.1698	2.7353	-1.91E-06	3.3773	562973.	-4.4372	502498.	0.00
11.2000	1.38E-06	0.2886	1.8841	-1.89E-06	5.7407	562973.	-4.0748	591269.	0.00
11.4000	1.01E-06	0.5839	1.1118	-1.73E-06	11.6161	562973.	-3.6487	721754.	0.00
11.6000	6.85E-07	0.7333	0.4321	-1.50E-06	14.5879	562973.	-3.1477	918606.	0.00
11.8000	4.12E-07	0.7567	-0.1361	-1.23E-06	15.0549	562973.	-2.5344	1231284.	0.00

12.0000	1.92E-07	0.6788	-0.3971	-9.79E-07	13.5050	562973.	-0.07598	79233.	0.00
12.2000	2.01E-08	0.5979	-0.4055	-7.52E-07	11.8946	562973.	-0.00798	79233.	0.00
12.4000	-1.09E-07	0.5166	-0.4020	-5.54E-07	10.2779	562973.	0.04320	79233.	0.00
12.6000	-2.01E-07	0.4371	-0.3897	-3.85E-07	8.6956	562973.	0.07983	79233.	0.00
12.8000	-2.63E-07	0.3607	-0.3713	-2.43E-07	7.1768	562973.	0.1042	79233.	0.00
13.0000	-2.99E-07	0.2886	-0.3454	-1.28E-07	5.7409	562973.	0.1546	103488.	0.00
13.2000	-3.14E-07	0.2226	-0.3087	-3.68E-08	4.4279	562973.	0.2132	135828.	0.00
13.4000	-3.13E-07	0.1651	-0.2660	3.20E-08	3.2847	562973.	0.2129	135828.	0.00
13.6000	-3.01E-07	0.1162	-0.2243	8.20E-08	2.3108	562973.	0.2045	135828.	0.00
13.8000	-2.81E-07	0.07538	-0.1848	1.16E-07	1.4997	562973.	0.1906	135828.	0.00
14.0000	-2.55E-07	0.04223	-0.1484	1.37E-07	0.8402	562973.	0.1730	135828.	0.00
14.2000	-2.26E-07	0.01601	-0.1158	1.47E-07	0.3184	562973.	0.1534	135828.	0.00
14.4000	-1.96E-07	-0.00408	-0.08716	1.49E-07	0.08127	562973.	0.1330	135828.	0.00
14.6000	-1.66E-07	-0.01886	-0.06258	1.45E-07	0.3751	562973.	0.1128	135828.	0.00
14.8000	-1.38E-07	-0.02911	-0.04194	1.37E-07	0.5792	562973.	0.09354	135828.	0.00
15.0000	-1.11E-07	-0.03563	-0.02502	1.25E-07	0.7089	562973.	0.07567	135828.	0.00
15.2000	-8.76E-08	-0.03912	-0.01150	1.12E-07	0.7783	562973.	0.05951	135828.	0.00
15.4000	-6.66E-08	-0.04023	-0.00103	9.79E-08	0.8004	562973.	0.04524	135828.	0.00
15.6000	-4.85E-08	-0.03953	0.00679	8.37E-08	0.7865	562973.	0.03292	135828.	0.00
15.8000	-3.31E-08	-0.03752	0.01233	7.00E-08	0.7464	562973.	0.02250	135828.	0.00
16.0000	-2.05E-08	-0.03460	0.01597	5.72E-08	0.6883	562973.	0.01389	135828.	0.00
16.2000	-1.02E-08	-0.03113	0.01806	4.56E-08	0.6193	562973.	0.00695	135828.	0.00
16.4000	-2.24E-09	-0.02738	0.01890	3.52E-08	0.5446	562973.	0.00152	135828.	0.00
16.6000	3.82E-09	-0.02357	0.01880	2.61E-08	0.4688	562973.	-0.00260	135828.	0.00
16.8000	8.21E-09	-0.01986	0.01798	1.84E-08	0.3951	562973.	-0.00557	135828.	0.00
17.0000	1.12E-08	-0.01637	0.01666	1.20E-08	0.3257	562973.	-0.00759	135828.	0.00
17.2000	1.30E-08	-0.01319	0.01502	6.71E-09	0.2625	562973.	-0.00882	135828.	0.00
17.4000	1.39E-08	-0.01037	0.01320	2.53E-09	0.2062	562973.	-0.00942	135828.	0.00
17.6000	1.40E-08	-0.00791	0.01130	-7.21E-10	0.1575	562973.	-0.00951	135828.	0.00
17.8000	1.36E-08	-0.00584	0.00943	-3.16E-09	0.1163	562973.	-0.00922	135828.	0.00
18.0000	1.27E-08	-0.00414	0.00764	-4.94E-09	0.08241	562973.	-0.00865	135828.	0.00
18.2000	1.16E-08	-0.00279	0.00599	-6.17E-09	0.05544	562973.	-0.00788	135828.	0.00
18.4000	1.03E-08	-0.00175	0.00450	-6.97E-09	0.03474	562973.	-0.00697	135828.	0.00
18.6000	8.81E-09	-9.85E-04	0.00321	-7.46E-09	0.01959	562973.	-0.00599	135828.	0.00
18.8000	7.29E-09	-4.63E-04	0.00212	-7.72E-09	0.00920	562973.	-0.00495	135828.	0.00
19.0000	5.73E-09	-1.38E-04	0.00123	-7.82E-09	0.00276	562973.	-0.00389	135828.	0.00
19.2000	4.16E-09	3.00E-05	5.60E-04	-7.84E-09	5.98E-04	562973.	-0.00282	135828.	0.00
19.4000	2.59E-09	8.57E-05	1.02E-04	-7.82E-09	0.00170	562973.	-0.00176	135828.	0.00
19.6000	1.03E-09	7.09E-05	-1.43E-04	-7.79E-09	0.00141	562973.	-6.98E-04	135828.	0.00
19.8000	-5.28E-10	2.83E-05	-1.77E-04	-7.78E-09	5.63E-04	562973.	3.59E-04	135828.	0.00
20.0000	-2.08E-09	0.00	0.00	-7.77E-09	0.00	562973.	0.00141	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 7:

Pile-head deflection = 0.00321988 meters
Computed slope at pile head = -0.00140430 radians
Maximum bending moment = 242.78768158 kN-m
Maximum shear force = 200.00000000 kN
Depth of maximum bending moment = 2.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 13
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 8

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 700.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.04529	1.95E-10	700.0000	-0.01329	3.89E-09	562973.	0.00	0.00	0.00
0.2000	0.04264	140.0000	699.3683	-0.01326	2785.	562973.	-6.3173	29.6337	0.00
0.4000	0.03999	279.7473	697.5225	-0.01319	5565.	562973.	-12.1405	60.7195	0.00
0.6000	0.03736	419.0090	693.1773	-0.01306	8336.	562973.	-31.3117	167.6139	0.00
0.8000	0.03476	557.0182	683.6708	-0.01289	11082.	562973.	-63.7527	366.7708	0.00
1.0000	0.03221	692.4773	667.2844	-0.01267	13776.	562973.	-100.1115	621.6857	0.00
1.2000	0.02970	823.9320	643.3288	-0.01240	16392.	562973.	-139.4444	939.0887	0.00
1.4000	0.02725	949.8088	611.2893	-0.01208	18896.	562973.	-180.9507	1328.	0.00
1.6000	0.02487	1068.	570.7985	-0.01172	21256.	562973.	-223.9571	1801.	0.00
1.8000	0.02256	1178.	521.6118	-0.01132	23438.	562973.	-267.9100	2375.	0.00
2.0000	0.02034	1277.	463.5836	-0.01089	25407.	562973.	-312.3725	3072.	0.00
2.2000	0.01820	1364.	397.2571	-0.01042	27127.	562973.	-350.8922	3855.	0.00
2.4000	0.01617	1436.	323.8356	-0.00992	28568.	562973.	-383.3229	4742.	0.00
2.6000	0.01423	1493.	246.1909	-0.00940	29704.	562973.	-393.1235	5524.	0.00
2.8000	0.01241	1534.	167.8391	-0.00886	30527.	562973.	-390.3949	6293.	0.00

3.0000	0.01069	1560.	90.4319	-0.00831	31040.	562973.	-383.6771	7179.	0.00
3.2000	0.00908	1571.	14.7699	-0.00776	31247.	562973.	-372.9427	8213.	0.00
3.4000	0.00759	1566.	-58.3360	-0.00720	31157.	562973.	-358.1166	9442.	0.00
3.6000	0.00620	1547.	-128.0496	-0.00665	30783.	562973.	-339.0196	10934.	0.00
3.8000	0.00493	1515.	-193.4760	-0.00610	30138.	562973.	-315.2444	12798.	0.00
4.0000	0.00376	1470.	-253.5723	-0.00557	29243.	562973.	-285.7180	15199.	0.00
4.2000	0.00270	1413.	-306.5734	-0.00506	28121.	562973.	-244.2927	18115.	0.00
4.4000	0.00174	1347.	-333.6283	-0.00457	26803.	562973.	-26.2569	3027.	0.00
4.6000	8.69E-04	1280.	-338.4080	-0.00410	25466.	562973.	-21.5396	4958.	0.00
4.8000	9.34E-05	1212.	-341.6193	-0.00366	24111.	562973.	-10.5733	22638.	0.00
5.0000	-5.96E-04	1143.	-340.6557	-0.00324	22747.	562973.	20.2091	6783.	0.00
5.2000	-0.00120	1076.	-336.0031	-0.00285	21400.	562973.	26.3172	4372.	0.00
5.4000	-0.00174	1009.	-330.3116	-0.00248	20073.	562973.	30.5975	3526.	0.00
5.6000	-0.00220	943.5401	-323.8488	-0.00213	18771.	562973.	34.0303	3100.	0.00
5.8000	-0.00259	879.4509	-316.7516	-0.00181	17496.	562973.	36.9417	2854.	0.00
6.0000	-0.00292	816.8395	-309.1091	-0.00151	16251.	562973.	39.4832	2706.	0.00
6.2000	-0.00319	755.8073	-300.9869	-0.00123	15036.	562973.	41.7384	2616.	0.00
6.4000	-0.00341	696.4447	-292.4373	-9.70E-04	13855.	562973.	43.7578	2567.	0.00
6.6000	-0.00358	638.8324	-283.5041	-7.32E-04	12709.	562973.	45.5746	2547.	0.00
6.8000	-0.00370	583.0430	-274.2255	-5.15E-04	11599.	562973.	47.2114	2550.	0.00
7.0000	-0.00379	529.1422	-263.7626	-3.18E-04	10527.	562973.	57.4170	3034.	0.00
7.2000	-0.00383	477.5380	-252.2567	-1.39E-04	9500.	562973.	57.6425	3010.	0.00
7.4000	-0.00384	428.2395	-240.7228	2.19E-05	8520.	562973.	57.6968	3005.	0.00
7.6000	-0.00382	381.2489	-229.1932	1.66E-04	7585.	562973.	57.5986	3015.	0.00
7.8000	-0.00377	336.5622	-217.6971	2.93E-04	6696.	562973.	57.3630	3040.	0.00
8.0000	-0.00370	294.1701	-206.2604	4.05E-04	5852.	562973.	57.0032	3078.	0.00
8.2000	-0.00361	254.0580	-194.9071	5.03E-04	5054.	562973.	56.5299	3130.	0.00
8.4000	-0.00350	216.2072	-183.6589	5.86E-04	4301.	562973.	55.9525	3195.	0.00
8.6000	-0.00338	180.5945	-172.5357	6.57E-04	3593.	562973.	55.2794	3273.	0.00
8.8000	-0.00324	147.1929	-161.5560	7.15E-04	2928.	562973.	54.5175	3365.	0.00
9.0000	-0.00309	115.9721	-150.7369	7.62E-04	2307.	562973.	53.6734	3472.	0.00
9.2000	-0.00294	86.8982	-140.0943	7.98E-04	1729.	562973.	52.7524	3594.	0.00
9.4000	-0.00277	59.9343	-129.6431	8.24E-04	1192.	562973.	51.7598	3733.	0.00
9.6000	-0.00261	35.0409	-119.3972	8.41E-04	697.1167	562973.	50.6999	3891.	0.00
9.8000	-0.00244	12.1755	-109.3695	8.49E-04	242.2233	562973.	49.5769	4069.	0.00
10.0000	-0.00227	-8.7069	-99.5724	8.50E-04	173.2180	562973.	48.3944	4271.	0.00
10.2000	-0.00210	-27.6535	-90.0174	8.43E-04	550.1484	562973.	47.1557	4498.	0.00
10.4000	-0.00193	-44.7138	-80.7154	8.30E-04	889.5534	562973.	45.8639	4755.	0.00
10.6000	-0.00176	-59.9396	-71.6768	8.12E-04	1192.	562973.	44.5216	5046.	0.00
10.8000	-0.00160	-73.3846	-62.9115	7.88E-04	1460.	562973.	43.1313	5377.	0.00
11.0000	-0.00145	-85.1042	-54.4289	7.60E-04	1693.	562973.	41.6952	5753.	0.00
11.2000	-0.00130	-95.1561	-46.2379	7.28E-04	1893.	562973.	40.2150	6185.	0.00
11.4000	-0.00116	-103.5994	-38.3471	6.93E-04	2061.	562973.	38.6925	6681.	0.00
11.6000	-0.00102	-110.4950	-30.7650	6.55E-04	2198.	562973.	37.1289	7255.	0.00

11.8000	-8.97E-04	-115.9054	-23.4996	6.14E-04	2306.	562973.	35.5253	7925.	0.00
12.0000	-7.78E-04	-119.8948	-16.5588	5.72E-04	2385.	562973.	33.8820	8713.	0.00
12.2000	-6.68E-04	-122.5289	-9.9507	5.29E-04	2438.	562973.	32.1993	9647.	0.00
12.4000	-5.66E-04	-123.8751	-3.6831	4.86E-04	2464.	562973.	30.4766	10769.	0.00
12.6000	-4.73E-04	-124.0022	2.2358	4.42E-04	2467.	562973.	28.7125	12132.	0.00
12.8000	-3.89E-04	-122.9807	7.7975	3.98E-04	2447.	562973.	26.9045	13818.	0.00
13.0000	-3.14E-04	-120.8831	13.4809	3.54E-04	2405.	562973.	29.9296	19048.	0.00
13.2000	-2.48E-04	-117.5884	19.7481	3.12E-04	2339.	562973.	32.7420	26440.	0.00
13.4000	-1.89E-04	-112.9839	26.0167	2.71E-04	2248.	562973.	29.9441	31611.	0.00
13.6000	-1.39E-04	-107.1817	31.7135	2.32E-04	2132.	562973.	27.0242	38812.	0.00
13.8000	-9.67E-05	-100.2985	36.8089	1.95E-04	1995.	562973.	23.9290	49502.	0.00
14.0000	-6.12E-05	-92.4581	41.2567	1.61E-04	1839.	562973.	20.5492	67124.	0.00
14.2000	-3.23E-05	-83.7958	44.9727	1.30E-04	1667.	562973.	16.6116	102715.	0.00
14.4000	-9.42E-06	-74.4690	47.7348	1.01E-04	1482.	562973.	11.0089	233831.	0.00
14.6000	8.22E-06	-64.7019	47.7833	7.67E-05	1287.	562973.	-10.5239	256008.	0.00
14.8000	2.13E-05	-55.3557	45.2864	5.54E-05	1101.	562973.	-14.4446	135872.	0.00
15.0000	3.04E-05	-46.5873	42.2153	3.73E-05	926.8255	562973.	-16.2672	107129.	0.00
15.2000	3.62E-05	-38.4696	38.8643	2.22E-05	765.3289	562973.	-17.2427	95351.	0.00
15.4000	3.92E-05	-31.0416	35.3683	9.81E-06	617.5536	562973.	-17.7165	90320.	0.00
15.6000	4.01E-05	-24.3223	31.8122	-2.82E-08	483.8766	562973.	-17.8449	89026.	0.00
15.8000	3.92E-05	-18.3168	28.2562	-7.60E-06	364.4002	562973.	-17.7149	90337.	0.00
16.0000	3.70E-05	-13.0198	24.7466	-1.32E-05	259.0208	562973.	-17.3817	93833.	0.00
16.2000	3.40E-05	-8.4181	21.3201	-1.70E-05	167.4733	562973.	-16.8832	99453.	0.00
16.4000	3.03E-05	-4.4918	18.0071	-1.93E-05	89.3610	562973.	-16.2468	107389.	0.00
16.6000	2.62E-05	-1.2153	14.8331	-2.03E-05	24.1775	562973.	-15.4934	118071.	0.00
16.8000	2.21E-05	1.4414	11.8198	-2.02E-05	28.6767	562973.	-14.6392	132216.	0.00
17.0000	1.81E-05	3.5126	8.9862	-1.94E-05	69.8815	562973.	-13.6972	150958.	0.00
17.2000	1.44E-05	5.0359	6.3487	-1.78E-05	100.1864	562973.	-12.6771	176081.	0.00
17.4000	1.10E-05	6.0521	3.9224	-1.59E-05	120.4032	562973.	-11.5861	210482.	0.00
17.6000	8.05E-06	6.6049	1.7210	-1.36E-05	131.4000	562973.	-10.4280	259107.	0.00
17.8000	5.56E-06	6.7405	-0.2419	-1.13E-05	134.0985	562973.	-9.2007	331054.	0.00
18.0000	3.55E-06	6.5081	-1.9511	-8.90E-06	129.4753	562973.	-7.8918	445029.	0.00
18.2000	2.00E-06	5.9601	-3.3864	-6.69E-06	118.5721	562973.	-6.4615	647041.	0.00
18.4000	8.71E-07	5.1536	-4.5101	-4.71E-06	102.5269	562973.	-4.7752	1096067.	0.00
18.6000	1.12E-07	4.1560	-4.9952	-3.06E-06	82.6818	562973.	-0.07578	135828.	0.00
18.8000	-3.53E-07	3.1555	-4.9788	-1.76E-06	62.7763	562973.	0.2396	135828.	0.00
19.0000	-5.93E-07	2.1645	-4.4877	-8.17E-07	43.0616	562973.	4.6712	1575111.	0.00
19.2000	-6.80E-07	1.3604	-3.5422	-1.91E-07	27.0640	562973.	4.7842	1407968.	0.00
19.4000	-6.69E-07	0.7476	-2.5942	1.84E-07	14.8736	562973.	4.6960	1403065.	0.00
19.6000	-6.06E-07	0.3227	-1.6758	3.74E-07	6.4201	562973.	4.4875	1480823.	0.00
19.8000	-5.20E-07	0.07729	-0.8068	4.45E-07	1.5376	562973.	4.2032	1617135.	0.00
20.0000	-4.28E-07	0.00	0.00	4.59E-07	0.00	562973.	3.8645	902700.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 8:

Pile-head deflection = 0.04529304 meters
Computed slope at pile head = -0.01328512 radians
Maximum bending moment = 1571. kN-m
Maximum shear force = 700.00000000 kN
Depth of maximum bending moment = 3.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 103
Number of zero deflection points = 3

Summary of Pile-head Responses for Conventional Analyses

Definitions of Pile-head Loading Conditions:

Load Type 1: Load 1 = Shear, V, kN, and Load 2 = Moment, M, kN-m
Load Type 2: Load 1 = Shear, V, kN, and Load 2 = Slope, S, radians
Load Type 3: Load 1 = Shear, V, kN, and Load 2 = Rot. Stiffness, R, kN-m/rad.
Load Type 4: Load 1 = Top Deflection, y, m, and Load 2 = Moment, M, kN-m
Load Type 5: Load 1 = Top Deflection, y, m, and Load 2 = Slope, S, radians

Load Case No.	Load Type 1	Pile-head Load 1	Load Type 2	Pile-head Load 2	Axial Loading kN	Pile-head Deflection meters	Pile-head Rotation radians	Max Shear in Pile kN	Max Moment in Pile kN-m
1	V, kN	50.0000	M, kN-m	0.00	0.00	5.11E-04	-2.56E-04	50.0000	51.4740
2	V, kN	75.0000	M, kN-m	0.00	0.00	8.01E-04	-3.97E-04	75.0000	78.8489
3	V, kN	100.0000	M, kN-m	0.00	0.00	0.00117	-5.65E-04	100.0000	108.9761
4	V, kN	125.0000	M, kN-m	0.00	0.00	0.00160	-7.48E-04	125.0000	140.6990
5	V, kN	150.0000	M, kN-m	0.00	0.00	0.00207	-9.46E-04	150.0000	172.7462
6	V, kN	175.0000	M, kN-m	0.00	0.00	0.00262	-0.00117	175.0000	206.9353
7	V, kN	200.0000	M, kN-m	0.00	0.00	0.00322	-0.00140	200.0000	242.7877
8	V, kN	700.0000	M, kN-m	0.00	0.00	0.04529	-0.01329	700.0000	1571.

Maximum pile-head deflection = 0.0452930390 meters
Maximum pile-head rotation = -0.0132851178 radians = -0.761181 deg.

The analysis ended normally.

Opera VI02 – D1000

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LPile for Windows, Version 2016-09.009

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method
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Files Used for Analysis

Path to file locations:
\m9159\Work\07_Pali\VI02\LPILE\

Name of input data file:
VI02_spalle-pila_D1000.lp9d

Name of output report file:
VI02_spalle-pila_D1000.lp9o

Name of plot output file:
VI02_spalle-pila_D1000.lp9p

Name of runtime message file:
VI02_spalle-pila_D1000.lp9r

Date and Time of Analysis

Date: June 10, 2019 Time: 14:40:09

Problem Title

Project Name: VI02 - Spalle e pila
Job Number:
Client:
Engineer:
Description:

Program Options and Settings

Computational Options:
- Use unfactored loads in computations (conventional analysis)

Engineering Units Used for Data Input and Computations:
- International System Units (kilonewtons, meters, millimeters)

Analysis Control Options:
- Maximum number of iterations allowed = 600
- Deflection tolerance for convergence = 2.5400E-07 m
- Maximum allowable deflection = 2.5400 m
- Number of pile increments = 100

Loading Type and Number of Cycles of Loading:
- Static loading specified

- Use of p-y modification factors for p-y curves not selected
- No distributed lateral loads are entered
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected

- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:
- Output files use decimal points to denote decimal symbols.
- Values of pile-head deflection, bending moment, shear force, and soil reaction are printed for full length of pile.
- Printing Increment (nodal spacing of output points) = 1
- No p-y curves to be computed and reported for user-specified depths
- Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined = 1
Total length of pile = 20.000 m
Depth of ground surface below top of pile = 0.0000 m

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point	Depth Below Pile Head meters	Pile Diameter millimeters
1	0.000	1000.00
2	20.000	1000.00

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is an elastic pile
Cross-sectional Shape = Circular Pile
Length of section = 20.000000 m

Width of top of section = 1.000000 m
Width of bottom of section = 1.000000 m
Top Area = 0.785398 sq. m
Bottom Area = 0.785398 sq. m
Moment of Inertia at Top = 0.049087 m^4
Moment of Inertia at Bottom = 0.049087 m^4
Elastic Modulus = 28000000. kPa

Ground Slope and Pile Batter Angles

Ground Slope Angle = 0.000 degrees
= 0.000 radians

Pile Batter Angle = 0.000 degrees
= 0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 3 layers

Layer 1 is stiff clay with water-induced erosion

Distance from top of pile to top of layer = 0.0000 m
Distance from top of pile to bottom of layer = 4.300000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 80.000000 kPa
Undrained cohesion at bottom of layer = 80.000000 kPa
Epsilon-50 at top of layer = 0.007000
Epsilon-50 at bottom of layer = 0.007000
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 2 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 4.300000 m
Distance from top of pile to bottom of layer = 13.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 35.000000 kPa
Undrained cohesion at bottom of layer = 35.000000 kPa
Epsilon-50 at top of layer = 0.020000
Epsilon-50 at bottom of layer = 0.020000

Layer 3 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 13.000000 m
Distance from top of pile to bottom of layer = 20.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 45.000000 kPa
Undrained cohesion at bottom of layer = 45.000000 kPa
Epsilon-50 at top of layer = 0.015000
Epsilon-50 at bottom of layer = 0.015000

(Depth of the lowest soil layer extends 0.000 m below the pile tip)

Summary of Input Soil Properties

Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth m	Effective Unit Wt. kN/m3	Undrained Cohesion kPa	E50 or krm	kpy kN/m3
1	Stiff Clay	0.00	9.0000	80.0000	0.00700	default
	with Free Water	4.3000	9.0000	80.0000	0.00700	default
2	Soft	4.3000	9.0000	35.0000	0.02000	--
	Clay	13.0000	9.0000	35.0000	0.02000	--
3	Soft	13.0000	9.0000	45.0000	0.01500	--
	Clay	20.0000	9.0000	45.0000	0.01500	--

Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 7

Load No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, kN	Compute Top y vs. Pile Length
1	1	V = 100.000000 kN	M = 0.0000 m-kN	0.0000000	No
2	1	V = 125.000000 kN	M = 0.0000 m-kN	0.0000000	No
3	1	V = 150.000000 kN	M = 0.0000 m-kN	0.0000000	No
4	1	V = 175.000000 kN	M = 0.0000 m-kN	0.0000000	No
5	1	V = 200.000000 kN	M = 0.0000 m-kN	0.0000000	No
6	1	V = 225.000000 kN	M = 0.0000 m-kN	0.0000000	No
7	1	V = 950.000000 kN	M = 0.0000 m-kN	0.0000000	No

V = shear force applied normal to pile axis
M = bending moment applied to pile head
y = lateral deflection normal to pile axis
S = pile slope relative to original pile batter angle
R = rotational stiffness applied to pile head
Values of top y vs. pile lengths can be computed only for load types with
specified shear loading (Load Types 1, 2, and 3).
Thrust force is assumed to be acting axially for all pile batter angles.

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

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Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Moment-curvature properties were derived from elastic section properties

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Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head meters	Equivalent Top Depth Below Grnd Surf meters	Same Layer Type As Layer Above	Layer is Rock or is Below Rock Layer	F0 Integral for Layer kN	F1 Integral for Layer kN
1	0.00	0.00	N.A.	No	0.00	222.6293
2	4.3000	1.7388	No	No	222.6293	2370.
3	13.0000	10.4388	Yes	No	2593.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals for Layer n. Layering correction equivalent depths are computed only for soil types with both shallow-depth and deep-depth expressions for peak lateral load transfer. These soil types are soft and stiff clays, non-liquefied sands, and cemented c-phi soil.

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 1

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 100.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	7.74E-04	-1.49E-11	100.0000	-3.18E-04	1.52E-10	1374447.	0.00	0.00	0.00

0.2000	7.10E-04	20.0000	98.0725	-3.17E-04	203.7183	1374447.	-19.2747	5429.	0.00
0.4000	6.47E-04	39.2290	92.6327	-3.13E-04	399.5834	1374447.	-35.1234	10858.	0.00
0.6000	5.85E-04	57.0531	84.7657	-3.06E-04	581.1379	1374447.	-43.5466	14888.	0.00
0.8000	5.25E-04	73.1353	75.6424	-2.96E-04	744.9500	1374447.	-47.6867	18177.	0.00
1.0000	4.67E-04	87.3100	65.7694	-2.85E-04	889.3327	1374447.	-51.0434	21883.	0.00
1.2000	4.11E-04	99.4430	55.3043	-2.71E-04	1013.	1374447.	-53.6073	26094.	0.00
1.4000	3.58E-04	109.4318	44.4061	-2.56E-04	1115.	1374447.	-55.3743	30923.	0.00
1.6000	3.09E-04	117.2055	33.2343	-2.39E-04	1194.	1374447.	-56.3442	36518.	0.00
1.8000	2.62E-04	122.7255	21.9479	-2.22E-04	1250.	1374447.	-56.5201	43073.	0.00
2.0000	2.20E-04	125.9846	10.7052	-2.04E-04	1283.	1374447.	-55.9062	50855.	0.00
2.2000	1.81E-04	127.0076	-0.2886	-1.85E-04	1294.	1374447.	-54.0327	59718.	0.00
2.4000	1.46E-04	125.8692	-10.4394	-1.67E-04	1282.	1374447.	-47.4751	65147.	0.00
2.6000	1.14E-04	122.8318	-19.2168	-1.49E-04	1251.	1374447.	-40.2986	70576.	0.00
2.8000	8.62E-05	118.1825	-26.5234	-1.31E-04	1204.	1374447.	-32.7678	76005.	0.00
3.0000	6.17E-05	112.2224	-32.3121	-1.15E-04	1143.	1374447.	-25.1188	81434.	0.00
3.2000	4.04E-05	105.2576	-36.5796	-9.87E-05	1072.	1374447.	-17.5562	86863.	0.00
3.4000	2.22E-05	97.5906	-39.3605	-8.39E-05	994.0496	1374447.	-10.2527	92292.	0.00
3.6000	6.85E-06	89.5134	-40.7206	-7.03E-05	911.7764	1374447.	-3.3485	97721.	0.00
3.8000	-5.91E-06	81.3024	-40.7508	-5.79E-05	828.1390	1374447.	3.0463	103150.	0.00
4.0000	-1.63E-05	73.2131	-39.5613	-4.66E-05	745.7427	1374447.	8.8492	108579.	0.00
4.2000	-2.46E-05	65.4779	-37.2762	-3.66E-05	666.9519	1374447.	14.0019	114008.	0.00
4.4000	-3.09E-05	58.3027	-35.1237	-2.75E-05	593.8660	1374447.	7.5228	48659.	0.00
4.6000	-3.56E-05	51.4284	-33.5594	-1.96E-05	523.8452	1374447.	8.1203	45644.	0.00
4.8000	-3.87E-05	44.8789	-31.8876	-1.26E-05	457.1328	1374447.	8.5976	44381.	0.00
5.0000	-4.06E-05	38.6733	-30.1298	-6.48E-06	393.9235	1374447.	8.9798	44233.	0.00
5.2000	-4.13E-05	32.8270	-28.3037	-1.27E-06	334.3728	1374447.	9.2817	44910.	0.00
5.4000	-4.11E-05	27.3519	-26.4243	3.11E-06	278.6039	1374447.	9.5125	46277.	0.00
5.6000	-4.01E-05	22.2573	-24.5051	6.71E-06	226.7108	1374447.	9.6785	48281.	0.00
5.8000	-3.84E-05	17.5498	-22.5589	9.61E-06	178.7610	1374447.	9.7841	50925.	0.00
6.0000	-3.62E-05	13.2337	-20.5972	1.19E-05	134.7976	1374447.	9.8325	54251.	0.00
6.2000	-3.37E-05	9.3109	-18.6314	1.35E-05	94.8404	1374447.	9.8258	58339.	0.00
6.4000	-3.09E-05	5.7812	-16.6722	1.46E-05	58.8865	1374447.	9.7661	63310.	0.00
6.6000	-2.78E-05	2.6421	-14.7301	1.52E-05	26.9117	1374447.	9.6545	69333.	0.00
6.8000	-2.48E-05	-0.1109	-12.8155	1.54E-05	1.1295	1374447.	9.4922	76640.	0.00
7.0000	-2.17E-05	-2.4841	-10.9383	1.52E-05	25.3032	1374447.	9.2799	85548.	0.00
7.2000	-1.87E-05	-4.4862	-9.1084	1.47E-05	45.6959	1374447.	9.0184	96495.	0.00
7.4000	-1.58E-05	-6.1275	-7.3358	1.39E-05	62.4143	1374447.	8.7078	110092.	0.00
7.6000	-1.31E-05	-7.4205	-5.6302	1.29E-05	75.5847	1374447.	8.3485	127218.	0.00
7.8000	-1.06E-05	-8.3796	-4.0013	1.18E-05	85.3537	1374447.	7.9401	149164.	0.00
8.0000	-8.41E-06	-9.0210	-2.3414	1.05E-05	91.8876	1374447.	8.6595	205894.	0.00
8.2000	-6.44E-06	-9.3161	-0.6838	9.18E-06	94.8933	1374447.	7.9166	245875.	0.00
8.4000	-4.74E-06	-9.2945	0.8220	7.83E-06	94.6735	1374447.	7.1415	301420.	0.00
8.6000	-3.31E-06	-8.9873	2.1690	6.50E-06	91.5440	1374447.	6.3286	382615.	0.00
8.8000	-2.14E-06	-8.4269	3.3484	5.23E-06	85.8360	1374447.	5.4645	510895.	0.00

9.0000	-1.22E-06	-7.6480	4.3463	4.06E-06	77.9015	1374447.	4.5144	742791.	0.00
9.2000	-5.14E-07	-6.6884	5.1343	3.02E-06	68.1277	1374447.	3.3662	1308658.	0.00
9.4000	-8.02E-09	-5.5942	5.4713	2.13E-06	56.9824	1374447.	0.00318	79233.	0.00
9.6000	3.36E-07	-4.4999	5.4583	1.39E-06	45.8358	1374447.	-0.1330	79233.	0.00
9.8000	5.48E-07	-3.4109	5.0933	8.15E-07	34.7434	1374447.	-3.5173	1283051.	0.00
10.0000	6.62E-07	-2.4626	4.3670	3.88E-07	25.0840	1374447.	-3.7455	1132150.	0.00
10.2000	7.03E-07	-1.6641	3.6089	8.76E-08	16.9507	1374447.	-3.8353	1090513.	0.00
10.4000	6.97E-07	-1.0191	2.8406	-1.08E-07	10.3800	1374447.	-3.8478	1104602.	0.00
10.6000	6.60E-07	-0.5279	2.0739	-2.20E-07	5.3771	1374447.	-3.8188	1156624.	0.00
10.8000	6.09E-07	-0.1895	1.3148	-2.72E-07	1.9301	1374447.	-3.7721	1239576.	0.00
11.0000	5.51E-07	-0.00196	0.5653	-2.86E-07	0.01997	1374447.	-3.7231	1350462.	0.00
11.2000	4.94E-07	0.03664	0.1734	-2.84E-07	0.3732	1374447.	-0.1957	79233.	0.00
11.4000	4.38E-07	0.06741	0.1365	-2.76E-07	0.6867	1374447.	-0.1735	79233.	0.00
11.6000	3.84E-07	0.09125	0.1040	-2.65E-07	0.9294	1374447.	-0.1520	79233.	0.00
11.8000	3.32E-07	0.1090	0.07562	-2.50E-07	1.1103	1374447.	-0.1315	79233.	0.00
12.0000	2.84E-07	0.1215	0.05124	-2.33E-07	1.2376	1374447.	-0.1123	79233.	0.00
12.2000	2.39E-07	0.1295	0.03055	-2.15E-07	1.3191	1374447.	-0.09454	79233.	0.00
12.4000	1.98E-07	0.1337	0.01327	-1.96E-07	1.3620	1374447.	-0.07825	79233.	0.00
12.6000	1.60E-07	0.1348	-9.01E-04	-1.76E-07	1.3731	1374447.	-0.06349	79233.	0.00
12.8000	1.27E-07	0.1334	-0.01228	-1.57E-07	1.3584	1374447.	-0.05029	79233.	0.00
13.0000	9.75E-08	0.1299	-0.02235	-1.38E-07	1.3231	1374447.	-0.05046	103488.	0.00
13.2000	7.19E-08	0.1244	-0.03228	-1.19E-07	1.2673	1374447.	-0.04880	135828.	0.00
13.4000	4.98E-08	0.1170	-0.04055	-1.02E-07	1.1916	1374447.	-0.03384	135828.	0.00
13.6000	3.12E-08	0.1082	-0.04605	-8.53E-08	1.1021	1374447.	-0.02119	135828.	0.00
13.8000	1.57E-08	0.09856	-0.04923	-7.02E-08	1.0040	1374447.	-0.01067	135828.	0.00
14.0000	3.10E-09	0.08850	-0.05051	-5.66E-08	0.9015	1374447.	-0.00210	135828.	0.00
14.2000	-6.94E-09	0.07836	-0.05025	-4.45E-08	0.7982	1374447.	0.00471	135828.	0.00
14.4000	-1.47E-08	0.06840	-0.04878	-3.38E-08	0.6968	1374447.	0.00998	135828.	0.00
14.6000	-2.05E-08	0.05885	-0.04639	-2.46E-08	0.5994	1374447.	0.01390	135828.	0.00
14.8000	-2.45E-08	0.04985	-0.04334	-1.66E-08	0.5077	1374447.	0.01665	135828.	0.00
15.0000	-2.71E-08	0.04151	-0.03983	-1.00E-08	0.4229	1374447.	0.01842	135828.	0.00
15.2000	-2.85E-08	0.03392	-0.03605	-4.51E-09	0.3455	1374447.	0.01937	135828.	0.00
15.4000	-2.89E-08	0.02709	-0.03215	-6.88E-11	0.2760	1374447.	0.01964	135828.	0.00
15.6000	-2.85E-08	0.02106	-0.02825	3.43E-09	0.2145	1374447.	0.01938	135828.	0.00
15.8000	-2.75E-08	0.01579	-0.02444	6.12E-09	0.1609	1374447.	0.01871	135828.	0.00
16.0000	-2.61E-08	0.01128	-0.02080	8.08E-09	0.1149	1374447.	0.01772	135828.	0.00
16.2000	-2.43E-08	0.00747	-0.01737	9.45E-09	0.07614	1374447.	0.01651	135828.	0.00
16.4000	-2.23E-08	0.00433	-0.01421	1.03E-08	0.04411	1374447.	0.01516	135828.	0.00
16.6000	-2.02E-08	0.00179	-0.01132	1.08E-08	0.01826	1374447.	0.01371	135828.	0.00
16.8000	-1.80E-08	-1.97E-04	-0.00872	1.09E-08	0.00201	1374447.	0.01223	135828.	0.00
17.0000	-1.58E-08	-0.00170	-0.00642	1.07E-08	0.01729	1374447.	0.01076	135828.	0.00
17.2000	-1.37E-08	-0.00277	-0.00442	1.04E-08	0.02818	1374447.	0.00932	135828.	0.00
17.4000	-1.17E-08	-0.00346	-0.00269	9.95E-09	0.03528	1374447.	0.00793	135828.	0.00
17.6000	-9.74E-09	-0.00384	-0.00124	9.42E-09	0.03915	1374447.	0.00662	135828.	0.00

17.8000	-7.91E-09	-0.00396	-3.71E-05	8.85E-09	0.04032	1374447.	0.00537	135828.	0.00
18.0000	-6.20E-09	-0.00386	9.21E-04	8.29E-09	0.03930	1374447.	0.00421	135828.	0.00
18.2000	-4.60E-09	-0.00359	0.00165	7.74E-09	0.03656	1374447.	0.00312	135828.	0.00
18.4000	-3.10E-09	-0.00320	0.00218	7.25E-09	0.03255	1374447.	0.00211	135828.	0.00
18.6000	-1.70E-09	-0.00272	0.00250	6.82E-09	0.02769	1374447.	0.00115	135828.	0.00
18.8000	-3.73E-10	-0.00219	0.00264	6.46E-09	0.02236	1374447.	2.54E-04	135828.	0.00
19.0000	8.87E-10	-0.00166	0.00261	6.18E-09	0.01692	1374447.	-6.03E-04	135828.	0.00
19.2000	2.10E-09	-0.00115	0.00241	5.98E-09	0.01172	1374447.	-0.00143	135828.	0.00
19.4000	3.28E-09	-6.98E-04	0.00204	5.84E-09	0.00711	1374447.	-0.00223	135828.	0.00
19.6000	4.44E-09	-3.35E-04	0.00152	5.77E-09	0.00341	1374447.	-0.00301	135828.	0.00
19.8000	5.59E-09	-9.14E-05	8.36E-04	5.74E-09	9.31E-04	1374447.	-0.00379	135828.	0.00
20.0000	6.73E-09	0.00	0.00	5.73E-09	0.00	1374447.	-0.00457	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 1:

Pile-head deflection = 0.00077376 meters
Computed slope at pile head = -0.00031845 radians
Maximum bending moment = 127.00757238 kN-m
Maximum shear force = 100.00000000 kN
Depth of maximum bending moment = 2.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 6
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 2

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 125.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
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0.00	0.00105	1.49E-11	125.0000	-4.21E-04	1.52E-10	1374447.	0.00	0.00	0.00
0.2000	9.62E-04	25.0000	122.3881	-4.19E-04	254.6479	1374447.	-26.1186	5429.	0.00
0.4000	8.79E-04	48.9553	115.2732	-4.14E-04	498.6541	1374447.	-45.0304	10248.	0.00
0.6000	7.97E-04	71.1093	105.6881	-4.05E-04	724.3133	1374447.	-50.8211	12756.	0.00
0.8000	7.17E-04	91.2305	95.0321	-3.93E-04	929.2661	1374447.	-55.7391	15551.	0.00
1.0000	6.40E-04	109.1221	83.4815	-3.78E-04	1112.	1374447.	-59.7661	18688.	0.00
1.2000	5.66E-04	124.6231	71.2160	-3.61E-04	1269.	1374447.	-62.8897	22241.	0.00
1.4000	4.95E-04	137.6085	58.4168	-3.42E-04	1402.	1374447.	-65.1024	26301.	0.00
1.6000	4.29E-04	147.9898	45.2664	-3.22E-04	1507.	1374447.	-66.4008	30985.	0.00
1.8000	3.66E-04	155.7151	31.9479	-2.99E-04	1586.	1374447.	-66.7847	36450.	0.00
2.0000	3.09E-04	160.7690	18.6439	-2.76E-04	1638.	1374447.	-66.2550	42908.	0.00
2.2000	2.56E-04	163.1726	5.5373	-2.53E-04	1662.	1374447.	-64.8108	50656.	0.00
2.4000	2.08E-04	162.9839	-7.1883	-2.29E-04	1660.	1374447.	-62.4452	60132.	0.00
2.6000	1.64E-04	160.2973	-19.2286	-2.06E-04	1633.	1374447.	-57.9585	70576.	0.00
2.8000	1.25E-04	155.2924	-29.7923	-1.83E-04	1582.	1374447.	-47.6780	76005.	0.00
3.0000	9.12E-05	148.3804	-38.2733	-1.61E-04	1511.	1374447.	-37.1321	81434.	0.00
3.2000	6.12E-05	139.9831	-44.6467	-1.40E-04	1426.	1374447.	-26.6016	86863.	0.00
3.4000	3.54E-05	130.5218	-48.9393	-1.20E-04	1329.	1374447.	-16.3252	92292.	0.00
3.6000	1.33E-05	120.4074	-51.2219	-1.02E-04	1226.	1374447.	-6.5002	97721.	0.00
3.8000	-5.27E-06	110.0330	-51.6003	-8.48E-05	1121.	1374447.	2.7159	103150.	0.00
4.0000	-2.06E-05	99.7673	-50.2086	-6.96E-05	1016.	1374447.	11.2017	108579.	0.00
4.2000	-3.31E-05	89.9496	-47.2017	-5.58E-05	916.2189	1374447.	18.8666	114008.	0.00
4.4000	-4.29E-05	80.8866	-44.4745	-4.33E-05	823.9038	1374447.	8.4054	39147.	0.00
4.6000	-5.04E-05	72.1598	-42.7206	-3.22E-05	735.0133	1374447.	9.1342	36222.	0.00
4.8000	-5.58E-05	63.7983	-40.8347	-2.23E-05	649.8445	1374447.	9.7241	34836.	0.00
5.0000	-5.94E-05	55.8259	-38.8417	-1.36E-05	568.6376	1374447.	10.2062	34386.	0.00
5.2000	-6.13E-05	48.2616	-36.7612	-6.04E-06	491.5891	1374447.	10.5986	34595.	0.00
5.4000	-6.18E-05	41.1214	-34.6101	4.62E-07	418.8589	1374447.	10.9127	35328.	0.00
5.6000	-6.11E-05	34.4176	-32.4032	5.96E-06	350.5749	1374447.	11.1559	36524.	0.00
5.8000	-5.94E-05	28.1601	-30.1543	1.05E-05	286.8362	1374447.	11.3334	38162.	0.00
6.0000	-5.69E-05	22.3559	-27.8761	1.42E-05	227.7152	1374447.	11.4489	40253.	0.00
6.2000	-5.37E-05	17.0096	-25.5807	1.70E-05	173.2588	1374447.	11.5051	42833.	0.00
6.4000	-5.01E-05	12.1236	-23.2798	1.92E-05	123.4901	1374447.	11.5042	45958.	0.00
6.6000	-4.61E-05	7.6977	-20.9846	2.06E-05	78.4086	1374447.	11.4477	49715.	0.00
6.8000	-4.18E-05	3.7298	-18.7061	2.14E-05	37.9913	1374447.	11.3369	54219.	0.00
7.0000	-3.75E-05	0.2153	-16.4551	2.17E-05	2.1931	1374447.	11.1727	59626.	0.00
7.2000	-3.31E-05	-2.8523	-14.2423	2.15E-05	29.0529	1374447.	10.9560	66145.	0.00
7.4000	-2.89E-05	-5.4816	-12.0779	2.09E-05	55.8351	1374447.	10.6875	74062.	0.00
7.6000	-2.48E-05	-7.6834	-9.9724	2.00E-05	78.2627	1374447.	10.3676	83764.	0.00
7.8000	-2.09E-05	-9.4706	-7.9360	1.87E-05	96.4663	1374447.	9.9968	95794.	0.00
8.0000	-1.73E-05	-10.8578	-5.8281	1.72E-05	110.5968	1374447.	11.0819	128383.	0.00
8.2000	-1.40E-05	-11.8018	-3.6864	1.56E-05	120.2121	1374447.	10.3350	147934.	0.00
8.4000	-1.10E-05	-12.3324	-1.6969	1.38E-05	125.6166	1374447.	9.5599	173430.	0.00
8.6000	-8.44E-06	-12.4806	0.1348	1.20E-05	127.1260	1374447.	8.7571	207627.	0.00

8.8000	-6.21E-06	-12.2785	1.8030	1.02E-05	125.0675	1374447.	7.9256	255268.	0.00
9.0000	-4.34E-06	-11.7593	3.3017	8.49E-06	119.7797	1374447.	7.0613	325322.	0.00
9.2000	-2.81E-06	-10.9578	4.6233	6.83E-06	111.6150	1374447.	6.1547	437304.	0.00
9.4000	-1.61E-06	-9.9100	5.7571	5.32E-06	100.9426	1374447.	5.1836	644944.	0.00
9.6000	-6.88E-07	-8.6549	6.6854	3.97E-06	88.1583	1374447.	4.0994	1190846.	0.00
9.8000	-2.14E-08	-7.2358	7.0962	2.81E-06	73.7037	1374447.	0.00847	79233.	0.00
10.0000	4.35E-07	-5.8164	6.8042	1.86E-06	59.2457	1374447.	-2.9289	1346249.	0.00
10.2000	7.22E-07	-4.5142	6.1475	1.11E-06	45.9810	1374447.	-3.6379	1007237.	0.00
10.4000	8.78E-07	-3.3574	5.3878	5.35E-07	34.1985	1374447.	-3.9596	901757.	0.00
10.6000	9.36E-07	-2.3591	4.5817	1.19E-07	24.0293	1374447.	-4.1009	875930.	0.00
10.8000	9.26E-07	-1.5248	3.7578	-1.63E-07	15.5310	1374447.	-4.1385	893986.	0.00
11.0000	8.71E-07	-0.8560	2.9325	-3.37E-07	8.7188	1374447.	-4.1143	944782.	0.00
11.2000	7.91E-07	-0.3518	2.1153	-4.25E-07	3.5830	1374447.	-4.0572	1025618.	0.00
11.4000	7.01E-07	-0.00984	1.3107	-4.51E-07	0.1002	1374447.	-3.9888	1137817.	0.00
11.6000	6.11E-07	0.1725	0.5193	-4.39E-07	1.7574	1374447.	-3.9255	1285317.	0.00
11.8000	5.26E-07	0.1979	0.1059	-4.12E-07	2.0156	1374447.	-0.2082	79233.	0.00
12.0000	4.46E-07	0.2149	0.06744	-3.82E-07	2.1890	1374447.	-0.1767	79233.	0.00
12.2000	3.73E-07	0.2249	0.03501	-3.50E-07	2.2904	1374447.	-0.1477	79233.	0.00
12.4000	3.06E-07	0.2289	0.00812	-3.17E-07	2.3316	1374447.	-0.1212	79233.	0.00
12.6000	2.46E-07	0.2281	-0.01374	-2.84E-07	2.3235	1374447.	-0.09741	79233.	0.00
12.8000	1.92E-07	0.2234	-0.03111	-2.51E-07	2.2757	1374447.	-0.07624	79233.	0.00
13.0000	1.46E-07	0.2157	-0.04626	-2.19E-07	2.1967	1374447.	-0.07530	103488.	0.00
13.2000	1.05E-07	0.2049	-0.06091	-1.88E-07	2.0872	1374447.	-0.07121	135828.	0.00
13.4000	7.02E-08	0.1913	-0.07280	-1.60E-07	1.9486	1374447.	-0.04765	135828.	0.00
13.6000	4.10E-08	0.1758	-0.08035	-1.33E-07	1.7906	1374447.	-0.02787	135828.	0.00
13.8000	1.70E-08	0.1592	-0.08429	-1.08E-07	1.6212	1374447.	-0.01156	135828.	0.00
14.0000	-2.36E-09	0.1421	-0.08529	-8.66E-08	1.4471	1374447.	0.00160	135828.	0.00
14.2000	-1.76E-08	0.1250	-0.08393	-6.71E-08	1.2737	1374447.	0.01196	135828.	0.00
14.4000	-2.92E-08	0.1085	-0.08076	-5.01E-08	1.1051	1374447.	0.01984	135828.	0.00
14.6000	-3.77E-08	0.09274	-0.07621	-3.55E-08	0.9447	1374447.	0.02558	135828.	0.00
14.8000	-4.34E-08	0.07801	-0.07071	-2.31E-08	0.7946	1374447.	0.02948	135828.	0.00
15.0000	-4.69E-08	0.06446	-0.06457	-1.27E-08	0.6566	1374447.	0.03185	135828.	0.00
15.2000	-4.85E-08	0.05218	-0.05810	-4.23E-09	0.5315	1374447.	0.03294	135828.	0.00
15.4000	-4.86E-08	0.04122	-0.05150	2.57E-09	0.4199	1374447.	0.03300	135828.	0.00
15.6000	-4.75E-08	0.03158	-0.04498	7.87E-09	0.3217	1374447.	0.03224	135828.	0.00
15.8000	-4.54E-08	0.02323	-0.03867	1.19E-08	0.2366	1374447.	0.03086	135828.	0.00
16.0000	-4.27E-08	0.01611	-0.03268	1.47E-08	0.1641	1374447.	0.02902	135828.	0.00
16.2000	-3.96E-08	0.01015	-0.02709	1.66E-08	0.1034	1374447.	0.02686	135828.	0.00
16.4000	-3.61E-08	0.00527	-0.02196	1.77E-08	0.05371	1374447.	0.02450	135828.	0.00
16.6000	-3.25E-08	0.00137	-0.01730	1.82E-08	0.01397	1374447.	0.02204	135828.	0.00
16.8000	-2.88E-08	-0.00165	-0.01314	1.82E-08	0.01679	1374447.	0.01955	135828.	0.00
17.0000	-2.52E-08	-0.00389	-0.00948	1.78E-08	0.03958	1374447.	0.01709	135828.	0.00
17.2000	-2.17E-08	-0.00544	-0.00630	1.71E-08	0.05541	1374447.	0.01471	135828.	0.00
17.4000	-1.83E-08	-0.00641	-0.00358	1.63E-08	0.06525	1374447.	0.01244	135828.	0.00

17.6000	-1.52E-08	-0.00687	-0.00131	1.53E-08	0.07002	1374447.	0.01029	135828.	0.00
17.8000	-1.22E-08	-0.00693	5.46E-04	1.43E-08	0.07059	1374447.	0.00828	135828.	0.00
18.0000	-9.44E-09	-0.00666	0.00202	1.33E-08	0.06779	1374447.	0.00641	135828.	0.00
18.2000	-6.87E-09	-0.00612	0.00312	1.24E-08	0.06238	1374447.	0.00467	135828.	0.00
18.4000	-4.48E-09	-0.00541	0.00389	1.15E-08	0.05507	1374447.	0.00305	135828.	0.00
18.6000	-2.25E-09	-0.00457	0.00435	1.08E-08	0.04652	1374447.	0.00153	135828.	0.00
18.8000	-1.58E-10	-0.00367	0.00452	1.02E-08	0.03734	1374447.	1.07E-04	135828.	0.00
19.0000	1.83E-09	-0.00276	0.00440	9.75E-09	0.02812	1374447.	-0.00124	135828.	0.00
19.2000	3.74E-09	-0.00191	0.00402	9.41E-09	0.01941	1374447.	-0.00254	135828.	0.00
19.4000	5.60E-09	-0.00115	0.00339	9.19E-09	0.01173	1374447.	-0.00380	135828.	0.00
19.6000	7.42E-09	-5.50E-04	0.00250	9.06E-09	0.00560	1374447.	-0.00504	135828.	0.00
19.8000	9.22E-09	-1.50E-04	0.00137	9.01E-09	0.00152	1374447.	-0.00626	135828.	0.00
20.0000	1.10E-08	0.00	0.00	9.00E-09	0.00	1374447.	-0.00749	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 2:

Pile-head deflection = 0.00104634 meters
Computed slope at pile head = -0.00042071 radians
Maximum bending moment = 163.17264041 kN-m
Maximum shear force = 125.00000000 kN
Depth of maximum bending moment = 2.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 8
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 3

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 150.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth	Deflect.	Bending	Shear	Slope	Total	Bending	Soil Res.	Soil Spr.	Distrib.
X	y	Moment	Force	S	Stress	Stiffness	p	Es*h	Lat. Load
meters	meters	kN-m	kN	radians	kPa*	kN-m^2	kN/m	kN/m	kN/m

0.00	0.00135	5.22E-11	150.0000	-5.32E-04	5.31E-10	1374447.	0.00	0.00	0.00
0.2000	0.00125	30.0000	146.6151	-5.30E-04	305.5775	1374447.	-33.8495	5429.	0.00
0.4000	0.00114	58.6460	138.0980	-5.23E-04	597.3635	1374447.	-51.3207	8992.	0.00
0.6000	0.00104	85.2392	127.1665	-5.13E-04	868.2395	1374447.	-57.9945	11179.	0.00
0.8000	9.36E-04	109.5126	114.9972	-4.99E-04	1115.	1374447.	-63.6988	13607.	0.00
1.0000	8.38E-04	131.2381	101.7860	-4.81E-04	1337.	1374447.	-68.4125	16326.	0.00
1.2000	7.44E-04	150.2270	87.7328	-4.61E-04	1530.	1374447.	-72.1201	19395.	0.00
1.4000	6.54E-04	166.3312	73.0397	-4.38E-04	1694.	1374447.	-74.8110	22888.	0.00
1.6000	5.69E-04	179.4429	57.9107	-4.13E-04	1828.	1374447.	-76.4790	26902.	0.00
1.8000	4.89E-04	189.4955	42.5507	-3.86E-04	1930.	1374447.	-77.1207	31565.	0.00
2.0000	4.14E-04	196.4632	27.1652	-3.58E-04	2001.	1374447.	-76.7341	37048.	0.00
2.2000	3.46E-04	200.3616	11.9603	-3.29E-04	2041.	1374447.	-75.3149	43591.	0.00
2.4000	2.83E-04	201.2473	-2.8564	-3.00E-04	2050.	1374447.	-72.8524	51542.	0.00
2.6000	2.26E-04	199.2190	-17.0738	-2.71E-04	2029.	1374447.	-69.3219	61431.	0.00
2.8000	1.74E-04	194.4178	-30.4730	-2.42E-04	1980.	1374447.	-64.6698	74126.	0.00
3.0000	1.29E-04	187.0298	-42.1900	-2.14E-04	1905.	1374447.	-52.5004	81434.	0.00
3.2000	8.88E-05	177.5418	-51.2983	-1.88E-04	1808.	1374447.	-38.5828	86863.	0.00
3.4000	5.39E-05	166.5105	-57.6438	-1.63E-04	1696.	1374447.	-24.8723	92292.	0.00
3.6000	2.38E-05	154.4842	-61.2944	-1.39E-04	1574.	1374447.	-11.6329	97721.	0.00
3.8000	-1.79E-06	141.9927	-62.3655	-1.18E-04	1446.	1374447.	0.9214	103150.	0.00
4.0000	-2.32E-05	129.5380	-61.0112	-9.79E-05	1319.	1374447.	12.6217	108579.	0.00
4.2000	-4.09E-05	117.5882	-57.4152	-7.99E-05	1198.	1374447.	23.3383	114008.	0.00
4.4000	-5.52E-05	106.5720	-54.1673	-6.36E-05	1086.	1374447.	9.1410	33112.	0.00
4.6000	-6.64E-05	95.9213	-52.2520	-4.89E-05	977.0465	1374447.	10.0114	30163.	0.00
4.8000	-7.48E-05	85.6711	-50.1789	-3.57E-05	872.6391	1374447.	10.7194	28677.	0.00
5.0000	-8.06E-05	75.8497	-47.9765	-2.39E-05	772.5991	1374447.	11.3048	28037.	0.00
5.2000	-8.43E-05	66.4805	-45.6670	-1.35E-05	677.1651	1374447.	11.7901	27965.	0.00
5.4000	-8.61E-05	57.5829	-43.2691	-4.52E-06	586.5349	1374447.	12.1891	28326.	0.00
5.6000	-8.61E-05	49.1729	-40.7991	3.25E-06	500.8709	1374447.	12.5107	29051.	0.00
5.8000	-8.48E-05	41.2633	-38.2720	9.83E-06	420.3043	1374447.	12.7612	30110.	0.00
6.0000	-8.22E-05	33.8641	-35.7013	1.53E-05	344.9370	1374447.	12.9449	31497.	0.00
6.2000	-7.86E-05	26.9827	-33.1003	1.97E-05	274.8439	1374447.	13.0651	33225.	0.00
6.4000	-7.43E-05	20.6240	-30.4814	2.32E-05	210.0740	1374447.	13.1242	35323.	0.00
6.6000	-6.94E-05	14.7902	-27.8566	2.58E-05	150.6514	1374447.	13.1239	37836.	0.00
6.8000	-6.40E-05	9.4813	-25.2377	2.75E-05	96.5760	1374447.	13.0657	40827.	0.00
7.0000	-5.84E-05	4.6951	-22.6360	2.86E-05	47.8240	1374447.	12.9507	44381.	0.00
7.2000	-5.26E-05	0.4269	-20.0629	2.89E-05	4.3486	1374447.	12.7799	48609.	0.00
7.4000	-4.68E-05	-3.3301	-17.5296	2.87E-05	33.9198	1374447.	12.5538	53660.	0.00
7.6000	-4.11E-05	-6.5849	-15.0469	2.80E-05	67.0733	1374447.	12.2731	59731.	0.00
7.8000	-3.56E-05	-9.3488	-12.6258	2.68E-05	95.2264	1374447.	11.9383	67086.	0.00
8.0000	-3.04E-05	-11.6352	-10.0952	2.53E-05	118.5153	1374447.	13.3670	88058.	0.00
8.2000	-2.55E-05	-13.3869	-7.4975	2.35E-05	136.3580	1374447.	12.6103	99034.	0.00
8.4000	-2.10E-05	-14.6342	-5.0542	2.15E-05	149.0628	1374447.	11.8226	112794.	0.00

8.6000	-1.69E-05	-15.4086	-2.7714	1.93E-05	156.9506	1374447.	11.0053	130350.	0.00
8.8000	-1.33E-05	-15.7428	-0.6550	1.70E-05	160.3545	1374447.	10.1584	153257.	0.00
9.0000	-1.01E-05	-15.6706	1.2889	1.47E-05	159.6195	1374447.	9.2807	184037.	0.00
9.2000	-7.37E-06	-15.2272	3.0538	1.25E-05	155.1032	1374447.	8.3685	227067.	0.00
9.4000	-5.10E-06	-14.4491	4.6319	1.03E-05	147.1773	1374447.	7.4129	290745.	0.00
9.6000	-3.25E-06	-13.3745	6.0127	8.28E-06	136.2311	1374447.	6.3947	393753.	0.00
9.8000	-1.79E-06	-12.0440	7.1788	6.43E-06	122.6794	1374447.	5.2667	589736.	0.00
10.0000	-6.75E-07	-10.5029	8.0931	4.79E-06	106.9820	1374447.	3.8762	1149031.	0.00
10.2000	1.31E-07	-8.8068	8.4755	3.39E-06	89.7052	1374447.	-0.05193	79233.	0.00
10.4000	6.81E-07	-7.1127	8.1011	2.23E-06	72.4496	1374447.	-3.6926	1085182.	0.00
10.6000	1.02E-06	-5.5664	7.3046	1.31E-06	56.6985	1374447.	-4.2723	835251.	0.00
10.8000	1.20E-06	-4.1909	6.4244	5.97E-07	42.6880	1374447.	-4.5292	752686.	0.00
11.0000	1.26E-06	-2.9966	5.5101	7.45E-08	30.5230	1374447.	-4.6138	731200.	0.00
11.2000	1.23E-06	-1.9868	4.5899	-2.88E-07	20.2378	1374447.	-4.5884	744095.	0.00
11.4000	1.15E-06	-1.1606	3.6823	-5.17E-07	11.8220	1374447.	-4.4874	782624.	0.00
11.6000	1.03E-06	-0.5139	2.8002	-6.39E-07	5.2346	1374447.	-4.3335	844358.	0.00
11.8000	8.91E-07	-0.04052	1.9526	-6.79E-07	0.4128	1374447.	-4.1433	929831.	0.00
12.0000	7.55E-07	0.2671	1.1453	-6.63E-07	2.7209	1374447.	-3.9299	1041378.	0.00
12.2000	6.26E-07	0.4176	0.3819	-6.13E-07	4.2534	1374447.	-3.7033	1183002.	0.00
12.4000	5.10E-07	0.4199	-0.00858	-5.52E-07	4.2771	1374447.	-0.2019	79233.	0.00
12.6000	4.05E-07	0.4141	-0.04482	-4.91E-07	4.2185	1374447.	-0.1606	79233.	0.00
12.8000	3.13E-07	0.4020	-0.07328	-4.32E-07	4.0944	1374447.	-0.1240	79233.	0.00
13.0000	2.33E-07	0.3848	-0.09771	-3.75E-07	3.9199	1374447.	-0.1203	103488.	0.00
13.2000	1.63E-07	0.3629	-0.1208	-3.20E-07	3.6963	1374447.	-0.1108	135828.	0.00
13.4000	1.04E-07	0.3365	-0.1390	-2.69E-07	3.4276	1374447.	-0.07089	135828.	0.00
13.6000	5.54E-08	0.3073	-0.1498	-2.23E-07	3.1300	1374447.	-0.03762	135828.	0.00
13.8000	1.53E-08	0.2766	-0.1546	-1.80E-07	2.8171	1374447.	-0.01042	135828.	0.00
14.0000	-1.66E-08	0.2454	-0.1546	-1.42E-07	2.4999	1374447.	0.01131	135828.	0.00
14.2000	-4.15E-08	0.2147	-0.1506	-1.09E-07	2.1873	1374447.	0.02818	135828.	0.00
14.4000	-6.01E-08	0.1852	-0.1437	-7.95E-08	1.8863	1374447.	0.04082	135828.	0.00
14.6000	-7.33E-08	0.1573	-0.1347	-5.46E-08	1.6018	1374447.	0.04979	135828.	0.00
14.8000	-8.20E-08	0.1313	-0.1241	-3.36E-08	1.3376	1374447.	0.05566	135828.	0.00
15.0000	-8.68E-08	0.1076	-0.1126	-1.62E-08	1.0962	1374447.	0.05893	135828.	0.00
15.2000	-8.85E-08	0.08626	-0.1007	-2.14E-09	0.8787	1374447.	0.06007	135828.	0.00
15.4000	-8.76E-08	0.06732	-0.08879	9.03E-09	0.6857	1374447.	0.05951	135828.	0.00
15.6000	-8.48E-08	0.05075	-0.07708	1.76E-08	0.5169	1374447.	0.05762	135828.	0.00
15.8000	-8.06E-08	0.03649	-0.06584	2.40E-08	0.3716	1374447.	0.05472	135828.	0.00
16.0000	-7.53E-08	0.02441	-0.05526	2.84E-08	0.2487	1374447.	0.05111	135828.	0.00
16.2000	-6.92E-08	0.01438	-0.04545	3.12E-08	0.1465	1374447.	0.04701	135828.	0.00
16.4000	-6.28E-08	0.00623	-0.03648	3.27E-08	0.06349	1374447.	0.04263	135828.	0.00
16.6000	-5.61E-08	-2.11E-04	-0.02841	3.32E-08	0.00215	1374447.	0.03812	135828.	0.00
16.8000	-4.95E-08	-0.00513	-0.02123	3.28E-08	0.05226	1374447.	0.03362	135828.	0.00
17.0000	-4.30E-08	-0.00870	-0.01495	3.18E-08	0.08866	1374447.	0.02922	135828.	0.00
17.2000	-3.68E-08	-0.01111	-0.00953	3.03E-08	0.1132	1374447.	0.02499	135828.	0.00

17.4000	-3.09E-08	-0.01252	-0.00493	2.86E-08	0.1275	1374447.	0.02098	135828.	0.00
17.6000	-2.54E-08	-0.01308	-0.00111	2.67E-08	0.1333	1374447.	0.01722	135828.	0.00
17.8000	-2.02E-08	-0.01296	0.00198	2.48E-08	0.1320	1374447.	0.01372	135828.	0.00
18.0000	-1.54E-08	-0.01229	0.00440	2.30E-08	0.1252	1374447.	0.01047	135828.	0.00
18.2000	-1.10E-08	-0.01120	0.00619	2.13E-08	0.1141	1374447.	0.00747	135828.	0.00
18.4000	-6.90E-09	-0.00981	0.00741	1.98E-08	0.09995	1374447.	0.00468	135828.	0.00
18.6000	-3.09E-09	-0.00824	0.00809	1.85E-08	0.08390	1374447.	0.00210	135828.	0.00
18.8000	4.85E-10	-0.00658	0.00826	1.74E-08	0.06700	1374447.	-3.30E-04	135828.	0.00
19.0000	3.87E-09	-0.00493	0.00797	1.65E-08	0.05023	1374447.	-0.00263	135828.	0.00
19.2000	7.10E-09	-0.00339	0.00722	1.59E-08	0.03453	1374447.	-0.00482	135828.	0.00
19.4000	1.02E-08	-0.00204	0.00605	1.55E-08	0.02080	1374447.	-0.00695	135828.	0.00
19.6000	1.33E-08	-9.72E-04	0.00445	1.53E-08	0.00990	1374447.	-0.00905	135828.	0.00
19.8000	1.64E-08	-2.64E-04	0.00243	1.52E-08	0.00269	1374447.	-0.01112	135828.	0.00
20.0000	1.94E-08	0.00	0.00	1.52E-08	0.00	1374447.	-0.01318	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 3:

Pile-head deflection = 0.00135342 meters
Computed slope at pile head = -0.00053212 radians
Maximum bending moment = 201.24732335 kN-m
Maximum shear force = 150.00000000 kN
Depth of maximum bending moment = 2.40000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 9
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 4

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 175.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X	Deflect. y	Bending Moment	Shear Force	Slope S	Total Stress	Bending Stiffness	Soil Res. p	Soil Spr. Es*h	Distrib. Lat. Load

meters	meters	kN-m	kN	radians	kPa*	kN-m^2	kN/m	kN/m	kN/m
0.00	0.00169	-5.96E-11	175.0000	-6.49E-04	6.07E-10	1374447.	0.00	0.00	0.00
0.2000	0.00156	35.0000	170.7783	-6.47E-04	356.5071	1374447.	-42.2167	5429.	0.00
0.4000	0.00143	68.3113	160.8198	-6.39E-04	695.8135	1374447.	-57.3683	8044.	0.00
0.6000	0.00130	99.3279	148.5929	-6.27E-04	1012.	1374447.	-64.9008	9988.	0.00
0.8000	0.00118	127.7485	134.9654	-6.11E-04	1301.	1374447.	-71.3745	12143.	0.00
1.0000	0.00106	153.3141	120.1514	-5.90E-04	1562.	1374447.	-76.7654	14549.	0.00
1.2000	9.39E-04	175.8091	104.3693	-5.66E-04	1791.	1374447.	-81.0555	17256.	0.00
1.4000	8.29E-04	195.0618	87.8406	-5.39E-04	1987.	1374447.	-84.2314	20327.	0.00
1.6000	7.24E-04	210.9453	70.7890	-5.10E-04	2149.	1374447.	-86.2845	23843.	0.00
1.8000	6.25E-04	223.3774	53.4397	-4.78E-04	2275.	1374447.	-87.2086	27912.	0.00
2.0000	5.33E-04	232.3212	36.0190	-4.45E-04	2366.	1374447.	-86.9989	32674.	0.00
2.2000	4.47E-04	237.7850	18.7542	-4.11E-04	2422.	1374447.	-85.6482	38329.	0.00
2.4000	3.68E-04	239.8229	1.8751	-3.76E-04	2443.	1374447.	-83.1428	45159.	0.00
2.6000	2.97E-04	238.5351	-14.3846	-3.41E-04	2430.	1374447.	-79.4543	53592.	0.00
2.8000	2.32E-04	234.0691	-29.7826	-3.07E-04	2384.	1374447.	-74.5262	64317.	0.00
3.0000	1.74E-04	226.6220	-44.0600	-2.73E-04	2308.	1374447.	-68.2471	78539.	0.00
3.2000	1.22E-04	216.4451	-56.2020	-2.41E-04	2205.	1374447.	-53.1736	86863.	0.00
3.4000	7.74E-05	204.1412	-65.0897	-2.10E-04	2079.	1374447.	-35.7031	92292.	0.00
3.6000	3.82E-05	190.4092	-70.5289	-1.82E-04	1939.	1374447.	-18.6891	97721.	0.00
3.8000	4.67E-06	175.9296	-72.6388	-1.55E-04	1792.	1374447.	-2.4093	103150.	0.00
4.0000	-2.38E-05	161.3537	-71.5883	-1.31E-04	1644.	1374447.	12.9139	108579.	0.00
4.2000	-4.75E-05	147.2943	-67.5864	-1.08E-04	1500.	1374447.	27.1053	114008.	0.00
4.4000	-6.70E-05	134.3191	-63.9008	-8.76E-05	1368.	1374447.	9.7505	29095.	0.00
4.6000	-8.26E-05	121.7340	-61.8491	-6.90E-05	1240.	1374447.	10.7668	26072.	0.00
4.8000	-9.46E-05	109.5795	-59.6130	-5.21E-05	1116.	1374447.	11.5938	24507.	0.00
5.0000	-1.03E-04	97.8888	-57.2254	-3.71E-05	997.0868	1374447.	12.2820	23744.	0.00
5.2000	-1.09E-04	86.6893	-54.7113	-2.36E-05	883.0102	1374447.	12.8590	23500.	0.00
5.4000	-1.13E-04	76.0042	-52.0913	-1.18E-05	774.1727	1374447.	13.3415	23634.	0.00
5.6000	-1.14E-04	65.8528	-49.3831	-1.47E-06	670.7711	1374447.	13.7402	24073.	0.00
5.8000	-1.13E-04	56.2510	-46.6029	7.42E-06	572.9678	1374447.	14.0625	24782.	0.00
6.0000	-1.11E-04	47.2117	-43.7653	1.49E-05	480.8940	1374447.	14.3135	25747.	0.00
6.2000	-1.08E-04	38.7449	-40.8842	2.12E-05	394.6520	1374447.	14.4970	26968.	0.00
6.4000	-1.03E-04	30.8580	-37.9729	2.63E-05	314.3167	1374447.	14.6158	28461.	0.00
6.6000	-9.70E-05	23.5557	-35.0442	3.02E-05	239.9364	1374447.	14.6719	30249.	0.00
6.8000	-9.06E-05	16.8403	-32.1103	3.32E-05	171.5339	1374447.	14.6670	32371.	0.00
7.0000	-8.37E-05	10.7116	-29.1833	3.52E-05	109.1074	1374447.	14.6024	34875.	0.00
7.2000	-7.66E-05	5.1670	-26.2752	3.63E-05	52.6304	1374447.	14.4791	37828.	0.00
7.4000	-6.92E-05	0.2015	-23.3975	3.67E-05	2.0527	1374447.	14.2981	41316.	0.00
7.6000	-6.19E-05	-4.1920	-20.5617	3.64E-05	42.6995	1374447.	14.0599	45451.	0.00
7.8000	-5.46E-05	-8.0231	-17.7791	3.55E-05	81.7231	1374447.	13.7653	50381.	0.00
8.0000	-4.77E-05	-11.3037	-14.8501	3.41E-05	115.1382	1374447.	15.5255	65157.	0.00
8.2000	-4.10E-05	-13.9632	-11.8206	3.23E-05	142.2276	1374447.	14.7687	72051.	0.00

8.4000	-3.47E-05	-16.0319	-8.9458	3.01E-05	163.2998	1374447.	13.9793	80478.	0.00
8.6000	-2.90E-05	-17.5415	-6.2320	2.77E-05	178.6762	1374447.	13.1594	90902.	0.00
8.8000	-2.37E-05	-18.5247	-3.6850	2.50E-05	188.6911	1374447.	12.3103	103992.	0.00
9.0000	-1.89E-05	-19.0155	-1.3107	2.23E-05	193.6902	1374447.	11.4326	120742.	0.00
9.2000	-1.48E-05	-19.0490	0.8852	1.95E-05	194.0314	1374447.	10.5260	142700.	0.00
9.4000	-1.11E-05	-18.6614	2.8966	1.68E-05	190.0838	1374447.	9.5881	172413.	0.00
9.6000	-8.03E-06	-17.8904	4.7167	1.41E-05	182.2297	1374447.	8.6135	214400.	0.00
9.8000	-5.47E-06	-16.7747	6.3371	1.16E-05	170.8661	1374447.	7.5903	277610.	0.00
10.0000	-3.39E-06	-15.3555	7.7454	9.27E-06	156.4100	1374447.	6.4925	383051.	0.00
10.2000	-1.76E-06	-13.6766	8.9200	7.16E-06	139.3085	1374447.	5.2535	597547.	0.00
10.4000	-5.25E-07	-11.7875	9.4661	5.31E-06	120.0666	1374447.	0.2079	79233.	0.00
10.6000	3.66E-07	-9.8901	9.4724	3.73E-06	100.7400	1374447.	-0.1449	79233.	0.00
10.8000	9.68E-07	-7.9985	9.0406	2.43E-06	81.4724	1374447.	-4.1734	862016.	0.00
11.0000	1.34E-06	-6.2739	8.1543	1.39E-06	63.9052	1374447.	-4.6898	700948.	0.00
11.2000	1.53E-06	-4.7368	7.1926	5.92E-07	48.2488	1374447.	-4.9270	645981.	0.00
11.4000	1.57E-06	-3.3968	6.1991	-8.72E-12	34.5998	1374447.	-5.0078	635972.	0.00
11.6000	1.53E-06	-2.2572	5.1994	-4.11E-07	22.9912	1374447.	-4.9898	654225.	0.00
11.8000	1.41E-06	-1.3171	4.2095	-6.71E-07	13.4157	1374447.	-4.9086	696107.	0.00
12.0000	1.26E-06	-0.5733	3.2396	-8.09E-07	5.8400	1374447.	-4.7909	762369.	0.00
12.2000	1.09E-06	-0.02125	2.2944	-8.52E-07	0.2164	1374447.	-4.6606	857748.	0.00
12.4000	9.16E-07	0.3444	1.3742	-8.29E-07	3.5083	1374447.	-4.5418	991691.	0.00
12.6000	7.55E-07	0.5284	0.4739	-7.65E-07	5.3825	1374447.	-4.4606	1181253.	0.00
12.8000	6.10E-07	0.5340	0.00372	-6.88E-07	5.4393	1374447.	-0.2416	79233.	0.00
13.0000	4.80E-07	0.5299	-0.04528	-6.11E-07	5.3976	1374447.	-0.2484	103488.	0.00
13.2000	3.66E-07	0.5159	-0.09496	-5.34E-07	5.2548	1374447.	-0.2483	135828.	0.00
13.4000	2.66E-07	0.4919	-0.1379	-4.61E-07	5.0107	1374447.	-0.1809	135828.	0.00
13.6000	1.81E-07	0.4607	-0.1683	-3.92E-07	4.6930	1374447.	-0.1231	135828.	0.00
13.8000	1.10E-07	0.4246	-0.1880	-3.27E-07	4.3251	1374447.	-0.07443	135828.	0.00
14.0000	5.03E-08	0.3855	-0.1989	-2.68E-07	3.9269	1374447.	-0.03416	135828.	0.00
14.2000	2.23E-09	0.3451	-0.2025	-2.15E-07	3.5148	1374447.	-0.00151	135828.	0.00
14.4000	-3.58E-08	0.3045	-0.2002	-1.68E-07	3.1020	1374447.	0.02431	135828.	0.00
14.6000	-6.50E-08	0.2650	-0.1933	-1.27E-07	2.6992	1374447.	0.04412	135828.	0.00
14.8000	-8.64E-08	0.2272	-0.1830	-9.07E-08	2.3143	1374447.	0.05869	135828.	0.00
15.0000	-1.01E-07	0.1918	-0.1703	-6.03E-08	1.9534	1374447.	0.06878	135828.	0.00
15.2000	-1.11E-07	0.1591	-0.1559	-3.47E-08	1.6205	1374447.	0.07507	135828.	0.00
15.4000	-1.15E-07	0.1294	-0.1406	-1.37E-08	1.3181	1374447.	0.07821	135828.	0.00
15.6000	-1.16E-07	0.1029	-0.1249	3.15E-09	1.0477	1374447.	0.07880	135828.	0.00
15.8000	-1.14E-07	0.07945	-0.1093	1.64E-08	0.8093	1374447.	0.07736	135828.	0.00
16.0000	-1.09E-07	0.05915	-0.09410	2.65E-08	0.6025	1374447.	0.07434	135828.	0.00
16.2000	-1.03E-07	0.04181	-0.07965	3.38E-08	0.4259	1374447.	0.07016	135828.	0.00
16.4000	-9.59E-08	0.02728	-0.06612	3.89E-08	0.2779	1374447.	0.06515	135828.	0.00
16.6000	-8.78E-08	0.01536	-0.05365	4.20E-08	0.1565	1374447.	0.05960	135828.	0.00
16.8000	-7.91E-08	0.00583	-0.04231	4.35E-08	0.05934	1374447.	0.05375	135828.	0.00
17.0000	-7.03E-08	-0.00156	-0.03216	4.38E-08	0.01591	1374447.	0.04778	135828.	0.00

17.2000	-6.16E-08	-0.00704	-0.02320	4.32E-08	0.07169	1374447.	0.04184	135828.	0.00
17.4000	-5.31E-08	-0.01084	-0.01541	4.19E-08	0.1104	1374447.	0.03604	135828.	0.00
17.6000	-4.48E-08	-0.01320	-0.00876	4.02E-08	0.1345	1374447.	0.03046	135828.	0.00
17.8000	-3.70E-08	-0.01435	-0.00320	3.81E-08	0.1461	1374447.	0.02513	135828.	0.00
18.0000	-2.96E-08	-0.01448	0.00132	3.60E-08	0.1475	1374447.	0.02009	135828.	0.00
18.2000	-2.26E-08	-0.01382	0.00487	3.40E-08	0.1407	1374447.	0.01534	135828.	0.00
18.4000	-1.60E-08	-0.01254	0.00749	3.21E-08	0.1277	1374447.	0.01086	135828.	0.00
18.6000	-9.76E-09	-0.01082	0.00923	3.04E-08	0.1102	1374447.	0.00663	135828.	0.00
18.8000	-3.84E-09	-0.00884	0.01016	2.89E-08	0.09007	1374447.	0.00261	135828.	0.00
19.0000	1.82E-09	-0.00676	0.01030	2.78E-08	0.06885	1374447.	-0.00123	135828.	0.00
19.2000	7.28E-09	-0.00472	0.00968	2.70E-08	0.04812	1374447.	-0.00494	135828.	0.00
19.4000	1.26E-08	-0.00289	0.00833	2.64E-08	0.02941	1374447.	-0.00856	135828.	0.00
19.6000	1.78E-08	-0.00139	0.00626	2.61E-08	0.01419	1374447.	-0.01212	135828.	0.00
19.8000	2.30E-08	-3.84E-04	0.00348	2.60E-08	0.00391	1374447.	-0.01565	135828.	0.00
20.0000	2.82E-08	0.00	0.00	2.59E-08	0.00	1374447.	-0.01918	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 4:

Pile-head deflection = 0.00168513 meters
Computed slope at pile head = -0.00064940 radians
Maximum bending moment = 239.82288116 kN-m
Maximum shear force = 175.00000000 kN
Depth of maximum bending moment = 2.40000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 10
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 5

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 200.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth	Deflect.	Bending	Shear	Slope	Total	Bending	Soil Res.	Soil Spr.	Distrib.

X	y	Moment	Force	S	Stress	Stiffness	p	Es*h	Lat. Load
meters	meters	kN-m	kN	radians	kPa*	kN-m^2	kN/m	kN/m	kN/m
0.00	0.00204	8.94E-11	200.0000	-7.72E-04	9.11E-10	1374447.	0.00	0.00	0.00
0.2000	0.00188	40.0000	194.8835	-7.69E-04	407.4367	1374447.	-51.1646	5429.	0.00
0.4000	0.00173	77.9534	183.4462	-7.60E-04	794.0270	1374447.	-63.2090	7300.	0.00
0.6000	0.00158	113.3785	169.9674	-7.46E-04	1155.	1374447.	-71.5786	9056.	0.00
0.8000	0.00143	145.9404	154.9289	-7.28E-04	1487.	1374447.	-78.8061	10998.	0.00
1.0000	0.00129	175.3500	138.5618	-7.04E-04	1786.	1374447.	-84.8650	13160.	0.00
1.2000	0.00115	201.3651	121.1019	-6.77E-04	2051.	1374447.	-89.7347	15586.	0.00
1.4000	0.00102	223.7908	102.7884	-6.46E-04	2280.	1374447.	-93.3998	18330.	0.00
1.6000	8.93E-04	242.4805	83.8635	-6.12E-04	2470.	1374447.	-95.8490	21463.	0.00
1.8000	7.74E-04	257.3362	64.5712	-5.76E-04	2621.	1374447.	-97.0742	25074.	0.00
2.0000	6.63E-04	268.3090	45.1570	-5.37E-04	2733.	1374447.	-97.0679	29283.	0.00
2.2000	5.59E-04	275.3990	25.8681	-4.98E-04	2805.	1374447.	-95.8207	34258.	0.00
2.4000	4.64E-04	278.6562	6.9545	-4.57E-04	2838.	1374447.	-93.3161	40233.	0.00
2.6000	3.76E-04	278.1808	-11.3295	-4.17E-04	2834.	1374447.	-89.5233	47562.	0.00
2.8000	2.97E-04	274.1244	-28.7202	-3.77E-04	2792.	1374447.	-84.3835	56800.	0.00
3.0000	2.26E-04	266.6927	-44.9370	-3.37E-04	2717.	1374447.	-77.7846	68906.	0.00
3.2000	1.62E-04	256.1497	-59.4131	-2.99E-04	2609.	1374447.	-66.9765	82594.	0.00
3.4000	1.06E-04	242.9275	-71.0044	-2.63E-04	2474.	1374447.	-48.9369	92292.	0.00
3.6000	5.70E-05	227.7479	-78.6823	-2.29E-04	2320.	1374447.	-27.8422	97721.	0.00
3.8000	1.45E-05	211.4546	-82.2168	-1.97E-04	2154.	1374447.	-7.5022	103150.	0.00
4.0000	-2.17E-05	194.8612	-81.7869	-1.67E-04	1985.	1374447.	11.8007	108579.	0.00
4.2000	-5.23E-05	178.7398	-77.6228	-1.40E-04	1821.	1374447.	29.8407	114008.	0.00
4.4000	-7.78E-05	163.8121	-73.6144	-1.15E-04	1669.	1374447.	10.2437	26347.	0.00
4.6000	-9.84E-05	149.2941	-71.4488	-9.24E-05	1521.	1374447.	11.4121	23195.	0.00
4.8000	-1.15E-04	135.2325	-69.0716	-7.17E-05	1377.	1374447.	12.3598	21552.	0.00
5.0000	-1.27E-04	121.6654	-66.5205	-5.30E-05	1239.	1374447.	13.1507	20700.	0.00
5.2000	-1.36E-04	108.6243	-63.8236	-3.62E-05	1106.	1374447.	13.8184	20339.	0.00
5.4000	-1.42E-04	96.1360	-61.0035	-2.13E-05	979.2329	1374447.	14.3829	20323.	0.00
5.6000	-1.44E-04	84.2229	-58.0795	-8.18E-06	857.8876	1374447.	14.8570	20577.	0.00
5.8000	-1.45E-04	72.9042	-55.0689	3.25E-06	742.5956	1374447.	15.2494	21060.	0.00
6.0000	-1.43E-04	62.1954	-51.9874	1.31E-05	633.5168	1374447.	15.5660	21754.	0.00
6.2000	-1.40E-04	52.1092	-48.8497	2.14E-05	530.7801	1374447.	15.8111	22654.	0.00
6.4000	-1.35E-04	42.6555	-45.6698	2.83E-05	434.4854	1374447.	15.9879	23765.	0.00
6.6000	-1.28E-04	33.8413	-42.4611	3.39E-05	344.7048	1374447.	16.0989	25101.	0.00
6.8000	-1.21E-04	25.6711	-39.2366	3.82E-05	261.4834	1374447.	16.1459	26686.	0.00
7.0000	-1.13E-04	18.1467	-36.0090	4.14E-05	184.8405	1374447.	16.1303	28550.	0.00
7.2000	-1.04E-04	11.2675	-32.7906	4.35E-05	114.7697	1374447.	16.0534	30736.	0.00
7.4000	-9.56E-05	5.0304	-29.5937	4.47E-05	51.2396	1374447.	15.9160	33300.	0.00
7.6000	-8.66E-05	-0.5700	-26.4302	4.50E-05	5.8057	1374447.	15.7190	36311.	0.00
7.8000	-7.76E-05	-5.5416	-23.3119	4.46E-05	56.4465	1374447.	15.4631	39862.	0.00
8.0000	-6.87E-05	-9.8947	-20.0124	4.35E-05	100.7871	1374447.	17.5325	51004.	0.00

8.2000	-6.02E-05	-13.5466	-16.5815	4.17E-05	137.9843	1374447.	16.7759	55732.	0.00
8.4000	-5.20E-05	-16.5274	-13.3055	3.96E-05	168.3463	1374447.	15.9843	61420.	0.00
8.6000	-4.44E-05	-18.8688	-10.1911	3.70E-05	192.1958	1374447.	15.1599	68322.	0.00
8.8000	-3.73E-05	-20.6038	-7.2447	3.41E-05	209.8686	1374447.	14.3046	76793.	0.00
9.0000	-3.07E-05	-21.7666	-4.4722	3.10E-05	221.7132	1374447.	13.4198	87333.	0.00
9.2000	-2.48E-05	-22.3927	-1.8796	2.78E-05	228.0901	1374447.	12.5060	100681.	0.00
9.4000	-1.96E-05	-22.5185	0.5272	2.46E-05	229.3716	1374447.	11.5628	117957.	0.00
9.6000	-1.50E-05	-22.1818	2.7423	2.13E-05	225.9420	1374447.	10.5883	140963.	0.00
9.8000	-1.11E-05	-21.4216	4.7589	1.81E-05	218.1983	1374447.	9.5777	172792.	0.00
10.0000	-7.77E-06	-20.2782	6.5689	1.51E-05	206.5523	1374447.	8.5215	219274.	0.00
10.2000	-5.05E-06	-18.7940	8.1609	1.22E-05	191.4344	1374447.	7.3991	293085.	0.00
10.4000	-2.87E-06	-17.0139	9.5172	9.64E-06	173.3018	1374447.	6.1634	429086.	0.00
10.6000	-1.19E-06	-14.9872	10.6008	7.32E-06	152.6580	1374447.	4.6733	784361.	0.00
10.8000	5.34E-08	-12.7735	11.0660	5.30E-06	130.1101	1374447.	-0.02116	79233.	0.00
11.0000	9.27E-07	-10.5607	10.6589	3.60E-06	107.5709	1374447.	-4.0500	874081.	0.00
11.2000	1.49E-06	-8.5100	9.7728	2.21E-06	86.6818	1374447.	-4.8114	644689.	0.00
11.4000	1.81E-06	-6.6516	8.7761	1.11E-06	67.7530	1374447.	-5.1560	569443.	0.00
11.6000	1.94E-06	-4.9995	7.7320	2.60E-07	50.9249	1374447.	-5.2849	546084.	0.00
11.8000	1.91E-06	-3.5588	6.6760	-3.63E-07	36.2501	1374447.	-5.2744	550926.	0.00
12.0000	1.79E-06	-2.3291	5.6322	-7.91E-07	23.7243	1374447.	-5.1639	576858.	0.00
12.2000	1.60E-06	-1.3060	4.6181	-1.06E-06	13.3025	1374447.	-4.9773	622866.	0.00
12.4000	1.37E-06	-0.4819	3.6473	-1.19E-06	4.9086	1374447.	-4.7307	691602.	0.00
12.6000	1.12E-06	0.1529	2.7307	-1.21E-06	1.5579	1374447.	-4.4354	789337.	0.00
12.8000	8.84E-07	0.6104	1.8771	-1.15E-06	6.2172	1374447.	-4.1000	927506.	0.00
13.0000	6.62E-07	0.9038	1.0214	-1.04E-06	9.2060	1374447.	-4.4569	1346305.	0.00
13.2000	4.66E-07	1.0189	0.1048	-9.04E-07	10.3789	1374447.	-4.7096	2019495.	0.00
13.4000	3.00E-07	0.9457	-0.3866	-7.61E-07	9.6329	1374447.	-0.2040	135828.	0.00
13.6000	1.62E-07	0.8643	-0.4180	-6.30E-07	8.8038	1374447.	-0.1099	135828.	0.00
13.8000	4.85E-08	0.7785	-0.4323	-5.10E-07	7.9299	1374447.	-0.03296	135828.	0.00
14.0000	-4.22E-08	0.6914	-0.4327	-4.03E-07	7.0426	1374447.	0.02863	135828.	0.00
14.2000	-1.13E-07	0.6054	-0.4222	-3.09E-07	6.1669	1374447.	0.07656	135828.	0.00
14.4000	-1.66E-07	0.5225	-0.4033	-2.27E-07	5.3224	1374447.	0.1125	135828.	0.00
14.6000	-2.03E-07	0.4441	-0.3782	-1.56E-07	4.5238	1374447.	0.1382	135828.	0.00
14.8000	-2.28E-07	0.3712	-0.3489	-9.71E-08	3.7815	1374447.	0.1550	135828.	0.00
15.0000	-2.42E-07	0.3046	-0.3169	-4.79E-08	3.1023	1374447.	0.1645	135828.	0.00
15.2000	-2.47E-07	0.2445	-0.2837	-7.98E-09	2.4902	1374447.	0.1680	135828.	0.00
15.4000	-2.45E-07	0.1911	-0.2502	2.37E-08	1.9465	1374447.	0.1667	135828.	0.00
15.6000	-2.38E-07	0.1444	-0.2174	4.81E-08	1.4708	1374447.	0.1616	135828.	0.00
15.8000	-2.26E-07	0.1042	-0.1858	6.62E-08	1.0609	1374447.	0.1536	135828.	0.00
16.0000	-2.11E-07	0.07006	-0.1561	7.89E-08	0.7136	1374447.	0.1436	135828.	0.00
16.2000	-1.95E-07	0.04171	-0.1285	8.70E-08	0.4248	1374447.	0.1322	135828.	0.00
16.4000	-1.77E-07	0.01864	-0.1033	9.14E-08	0.1899	1374447.	0.1200	135828.	0.00
16.6000	-1.58E-07	3.77E-04	-0.08059	9.28E-08	0.00384	1374447.	0.1074	135828.	0.00
16.8000	-1.40E-07	-0.01359	-0.06037	9.18E-08	0.1385	1374447.	0.09477	135828.	0.00

17.0000	-1.21E-07	-0.02377	-0.04265	8.91E-08	0.2421	1374447.	0.08243	135828.	0.00
17.2000	-1.04E-07	-0.03065	-0.02735	8.51E-08	0.3122	1374447.	0.07056	135828.	0.00
17.4000	-8.73E-08	-0.03471	-0.01437	8.04E-08	0.3536	1374447.	0.05930	135828.	0.00
17.6000	-7.17E-08	-0.03640	-0.00357	7.52E-08	0.3708	1374447.	0.04872	135828.	0.00
17.8000	-5.72E-08	-0.03614	0.00519	6.99E-08	0.3681	1374447.	0.03887	135828.	0.00
18.0000	-4.38E-08	-0.03433	0.01205	6.48E-08	0.3496	1374447.	0.02972	135828.	0.00
18.2000	-3.13E-08	-0.03132	0.01715	6.00E-08	0.3190	1374447.	0.02126	135828.	0.00
18.4000	-1.98E-08	-0.02747	0.02062	5.58E-08	0.2798	1374447.	0.01341	135828.	0.00
18.6000	-9.00E-09	-0.02307	0.02257	5.21E-08	0.2350	1374447.	0.00611	135828.	0.00
18.8000	1.08E-09	-0.01844	0.02311	4.91E-08	0.1878	1374447.	-7.35E-04	135828.	0.00
19.0000	1.06E-08	-0.01383	0.02231	4.67E-08	0.1409	1374447.	-0.00722	135828.	0.00
19.2000	1.98E-08	-0.00951	0.02025	4.50E-08	0.09691	1374447.	-0.01342	135828.	0.00
19.4000	2.86E-08	-0.00573	0.01696	4.39E-08	0.05840	1374447.	-0.01944	135828.	0.00
19.6000	3.73E-08	-0.00273	0.01248	4.33E-08	0.02781	1374447.	-0.02535	135828.	0.00
19.8000	4.59E-08	-7.41E-04	0.00682	4.30E-08	0.00755	1374447.	-0.03120	135828.	0.00
20.0000	5.45E-08	0.00	0.00	4.30E-08	0.00	1374447.	-0.03704	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 5:

Pile-head deflection = 0.00203924 meters
Computed slope at pile head = -0.00077180 radians
Maximum bending moment = 278.65622885 kN-m
Maximum shear force = 200.00000000 kN
Depth of maximum bending moment = 2.40000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 11
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 6

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 225.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00242	-1.19E-10	225.0000	-9.01E-04	1.21E-09	1374447.	0.00	0.00	0.00
0.2000	0.00224	45.0000	219.2059	-8.98E-04	458.3662	1374447.	-57.9407	5169.	0.00
0.4000	0.00206	87.6824	206.5129	-8.89E-04	893.1253	1374447.	-68.9900	6688.	0.00
0.6000	0.00189	127.6051	191.7944	-8.73E-04	1300.	1374447.	-78.1948	8290.	0.00
0.8000	0.00171	164.4001	175.3572	-8.52E-04	1675.	1374447.	-86.1774	10057.	0.00
1.0000	0.00155	197.7480	157.4485	-8.25E-04	2014.	1374447.	-92.9090	12020.	0.00
1.2000	0.00138	227.3795	138.3209	-7.94E-04	2316.	1374447.	-98.3667	14218.	0.00
1.4000	0.00123	253.0764	118.2310	-7.59E-04	2578.	1374447.	-102.5329	16697.	0.00
1.6000	0.00108	274.6719	97.4383	-7.21E-04	2798.	1374447.	-105.3942	19519.	0.00
1.8000	9.40E-04	292.0517	76.2048	-6.80E-04	2975.	1374447.	-106.9403	22760.	0.00
2.0000	8.08E-04	305.1539	54.7946	-6.36E-04	3108.	1374447.	-107.1618	26524.	0.00
2.2000	6.85E-04	313.9696	33.4738	-5.91E-04	3198.	1374447.	-106.0469	30954.	0.00
2.4000	5.72E-04	318.5434	12.5114	-5.45E-04	3245.	1374447.	-103.5771	36247.	0.00
2.6000	4.67E-04	318.9741	-7.8183	-4.99E-04	3249.	1374447.	-99.7195	42698.	0.00
2.8000	3.72E-04	315.4161	-27.2316	-4.53E-04	3213.	1374447.	-94.4136	50765.	0.00
3.0000	2.86E-04	308.0815	-45.4277	-4.07E-04	3138.	1374447.	-87.5477	61220.	0.00
3.2000	2.09E-04	297.2450	-61.7860	-3.63E-04	3028.	1374447.	-76.0349	72753.	0.00
3.4000	1.41E-04	283.3671	-75.6273	-3.21E-04	2886.	1374447.	-62.3787	88679.	0.00
3.6000	8.06E-05	266.9940	-85.8031	-2.81E-04	2720.	1374447.	-39.3785	97721.	0.00
3.8000	2.83E-05	249.0458	-91.1991	-2.43E-04	2537.	1374447.	-14.5822	103150.	0.00
4.0000	-1.68E-05	230.5144	-91.7454	-2.09E-04	2348.	1374447.	9.1197	108579.	0.00
4.2000	-5.52E-05	212.3477	-87.6890	-1.76E-04	2163.	1374447.	31.4445	114008.	0.00
4.4000	-8.73E-05	195.4388	-83.4798	-1.47E-04	1991.	1374447.	10.6474	24380.	0.00
4.6000	-1.14E-04	178.9558	-81.2171	-1.19E-04	1823.	1374447.	11.9791	21045.	0.00
4.8000	-1.35E-04	162.9519	-78.7139	-9.46E-05	1660.	1374447.	13.0527	19319.	0.00
5.0000	-1.52E-04	147.4702	-76.0138	-7.20E-05	1502.	1374447.	13.9487	18393.	0.00
5.2000	-1.64E-04	132.5464	-73.1481	-5.16E-05	1350.	1374447.	14.7085	17945.	0.00
5.4000	-1.72E-04	118.2110	-70.1416	-3.34E-05	1204.	1374447.	15.3560	17822.	0.00
5.6000	-1.77E-04	104.4898	-67.0154	-1.72E-05	1064.	1374447.	15.9061	17945.	0.00
5.8000	-1.79E-04	91.4048	-63.7879	-2.93E-06	931.0417	1374447.	16.3690	18269.	0.00
6.0000	-1.78E-04	78.9746	-60.4759	9.47E-06	804.4287	1374447.	16.7515	18774.	0.00
6.2000	-1.75E-04	67.2145	-57.0948	2.01E-05	684.6408	1374447.	17.0587	19450.	0.00
6.4000	-1.70E-04	56.1367	-53.6595	2.91E-05	571.8034	1374447.	17.2943	20297.	0.00
6.6000	-1.64E-04	45.7506	-50.1840	3.65E-05	466.0122	1374447.	17.4608	21323.	0.00
6.8000	-1.56E-04	36.0631	-46.6819	4.24E-05	367.3352	1374447.	17.5605	22541.	0.00
7.0000	-1.47E-04	27.0779	-43.1663	4.70E-05	275.8131	1374447.	17.5950	23972.	0.00
7.2000	-1.37E-04	18.7965	-39.6503	5.04E-05	191.4597	1374447.	17.5656	25644.	0.00
7.4000	-1.27E-04	11.2178	-36.1464	5.26E-05	114.2633	1374447.	17.4734	27594.	0.00
7.6000	-1.16E-04	4.3380	-32.6671	5.37E-05	44.1862	1374447.	17.3192	29869.	0.00
7.8000	-1.05E-04	-1.8491	-29.2248	5.39E-05	18.8345	1374447.	17.1039	32527.	0.00

8.0000	-9.44E-05	-7.3520	-25.5668	5.32E-05	74.8864	1374447.	19.4758	41254.	0.00
8.2000	-8.39E-05	-12.0758	-21.7469	5.18E-05	123.0031	1374447.	18.7233	44641.	0.00
8.4000	-7.37E-05	-16.0507	-18.0813	4.97E-05	163.4913	1374447.	17.9332	48664.	0.00
8.6000	-6.40E-05	-19.3083	-14.5771	4.72E-05	196.6728	1374447.	17.1082	53475.	0.00
8.8000	-5.48E-05	-21.8816	-11.2412	4.42E-05	222.8838	1374447.	16.2505	59273.	0.00
9.0000	-4.63E-05	-23.8048	-8.0800	4.09E-05	242.4738	1374447.	15.3617	66335.	0.00
9.2000	-3.85E-05	-25.1136	-5.0995	3.73E-05	255.8048	1374447.	14.4431	75046.	0.00
9.4000	-3.14E-05	-25.8446	-2.3057	3.36E-05	263.2512	1374447.	13.4951	85961.	0.00
9.6000	-2.51E-05	-26.0359	0.2955	2.98E-05	265.1992	1374447.	12.5175	99912.	0.00
9.8000	-1.95E-05	-25.7264	2.6981	2.60E-05	262.0471	1374447.	11.5084	118194.	0.00
10.0000	-1.46E-05	-24.9566	4.8953	2.24E-05	254.2060	1374447.	10.4635	142955.	0.00
10.2000	-1.05E-05	-23.7683	6.8791	1.88E-05	242.1017	1374447.	9.3744	178042.	0.00
10.4000	-7.11E-06	-22.2050	8.6389	1.55E-05	226.1780	1374447.	8.2237	231201.	0.00
10.6000	-4.34E-06	-20.3127	10.1586	1.24E-05	206.9036	1374447.	6.9734	321101.	0.00
10.8000	-2.16E-06	-18.1415	11.4082	9.58E-06	184.7880	1374447.	5.5220	510313.	0.00
11.0000	-5.13E-07	-15.7494	12.2997	7.11E-06	160.4225	1374447.	3.3929	1323259.	0.00
11.2000	6.80E-07	-13.2216	12.2602	5.00E-06	134.6746	1374447.	-3.7877	1113740.	0.00
11.4000	1.49E-06	-10.8454	11.3917	3.25E-06	110.4700	1374447.	-4.8974	658092.	0.00
11.6000	1.98E-06	-8.6650	10.3639	1.83E-06	88.2608	1374447.	-5.3808	543258.	0.00
11.8000	2.22E-06	-6.6998	9.2672	7.15E-07	68.2439	1374447.	-5.5859	502936.	0.00
12.0000	2.27E-06	-4.9581	8.1466	-1.34E-07	50.5029	1374447.	-5.6197	495839.	0.00
12.2000	2.17E-06	-3.4412	7.0314	-7.45E-07	35.0516	1374447.	-5.5323	510389.	0.00
12.4000	1.97E-06	-2.1455	5.9430	-1.15E-06	21.8543	1374447.	-5.3521	543681.	0.00
12.6000	1.71E-06	-1.0640	4.8980	-1.38E-06	10.8378	1374447.	-5.0971	597065.	0.00
12.8000	1.41E-06	-0.1863	3.9104	-1.48E-06	1.8979	1374447.	-4.7790	675498.	0.00
13.0000	1.12E-06	0.5002	2.9062	-1.45E-06	5.0948	1374447.	-5.2639	942431.	0.00
13.2000	8.34E-07	0.9761	1.8165	-1.35E-06	9.9429	1374447.	-5.6329	1351151.	0.00
13.4000	5.79E-07	1.2268	0.7576	-1.19E-06	12.4959	1374447.	-4.9563	1712321.	0.00
13.6000	3.60E-07	1.2792	-0.1560	-1.00E-06	13.0295	1374447.	-4.1799	2324052.	0.00
13.8000	1.78E-07	1.1644	-0.5861	-8.25E-07	11.8601	1374447.	-0.1207	135828.	0.00
14.0000	2.97E-08	1.0447	-0.6002	-6.64E-07	10.6415	1374447.	-0.02015	135828.	0.00
14.2000	-8.80E-08	0.9243	-0.5962	-5.21E-07	9.4146	1374447.	0.05976	135828.	0.00
14.4000	-1.79E-07	0.8062	-0.5781	-3.95E-07	8.2122	1374447.	0.1214	135828.	0.00
14.6000	-2.46E-07	0.6930	-0.5493	-2.86E-07	7.0592	1374447.	0.1671	135828.	0.00
14.8000	-2.93E-07	0.5865	-0.5126	-1.93E-07	5.9743	1374447.	0.1991	135828.	0.00
15.0000	-3.23E-07	0.4880	-0.4708	-1.15E-07	4.9705	1374447.	0.2196	135828.	0.00
15.2000	-3.39E-07	0.3982	-0.4258	-5.04E-08	4.0562	1374447.	0.2303	135828.	0.00
15.4000	-3.43E-07	0.3177	-0.3794	1.71E-09	3.2357	1374447.	0.2332	135828.	0.00
15.6000	-3.38E-07	0.2464	-0.3331	4.28E-08	2.5103	1374447.	0.2299	135828.	0.00
15.8000	-3.26E-07	0.1844	-0.2880	7.41E-08	1.8785	1374447.	0.2216	135828.	0.00
16.0000	-3.09E-07	0.1313	-0.2448	9.71E-08	1.3370	1374447.	0.2097	135828.	0.00
16.2000	-2.88E-07	0.08649	-0.2043	1.13E-07	0.8810	1374447.	0.1953	135828.	0.00
16.4000	-2.64E-07	0.04954	-0.1669	1.23E-07	0.5046	1374447.	0.1791	135828.	0.00
16.6000	-2.38E-07	0.01974	-0.1328	1.28E-07	0.2011	1374447.	0.1619	135828.	0.00

16.8000	-2.13E-07	-0.00358	-0.1022	1.29E-07	0.03647	1374447.	0.1443	135828.	0.00
17.0000	-1.87E-07	-0.02113	-0.07505	1.27E-07	0.2152	1374447.	0.1268	135828.	0.00
17.2000	-1.62E-07	-0.03360	-0.05139	1.23E-07	0.3422	1374447.	0.1098	135828.	0.00
17.4000	-1.37E-07	-0.04168	-0.03107	1.18E-07	0.4246	1374447.	0.09337	135828.	0.00
17.6000	-1.15E-07	-0.04603	-0.01396	1.11E-07	0.4688	1374447.	0.07778	135828.	0.00
17.8000	-9.29E-08	-0.04726	1.33E-04	1.05E-07	0.4814	1374447.	0.06311	135828.	0.00
18.0000	-7.27E-08	-0.04597	0.01138	9.78E-08	0.4683	1374447.	0.04937	135828.	0.00
18.2000	-5.38E-08	-0.04271	0.01997	9.14E-08	0.4351	1374447.	0.03653	135828.	0.00
18.4000	-3.61E-08	-0.03799	0.02608	8.55E-08	0.3869	1374447.	0.02455	135828.	0.00
18.6000	-1.96E-08	-0.03228	0.02986	8.04E-08	0.3288	1374447.	0.01331	135828.	0.00
18.8000	-3.99E-09	-0.02604	0.03147	7.61E-08	0.2653	1374447.	0.00271	135828.	0.00
19.0000	1.09E-08	-0.01969	0.03100	7.28E-08	0.2006	1374447.	-0.00737	135828.	0.00
19.2000	2.51E-08	-0.01364	0.02856	7.04E-08	0.1389	1374447.	-0.01707	135828.	0.00
19.4000	3.90E-08	-0.00827	0.02420	6.88E-08	0.08425	1374447.	-0.02649	135828.	0.00
19.6000	5.26E-08	-0.00396	0.01797	6.79E-08	0.04035	1374447.	-0.03576	135828.	0.00
19.8000	6.62E-08	-0.00108	0.00990	6.75E-08	0.01102	1374447.	-0.04494	135828.	0.00
20.0000	7.97E-08	0.00	0.00	6.75E-08	0.00	1374447.	-0.05410	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 6:

Pile-head deflection = 0.00242224 meters
Computed slope at pile head = -0.00090147 radians
Maximum bending moment = 318.97409910 kN-m
Maximum shear force = 225.00000000 kN
Depth of maximum bending moment = 2.60000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 12
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 7

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 950.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.03918	-3.10E-09	950.0000	-0.00950	3.16E-08	1374447.	0.00	0.00	0.00
0.2000	0.03728	190.0000	949.3524	-0.00949	1935.	1374447.	-6.4759	34.7448	0.00
0.4000	0.03538	379.7410	945.7628	-0.00945	3868.	1374447.	-29.4205	166.3029	0.00
0.6000	0.03350	568.3051	936.9610	-0.00938	5789.	1374447.	-58.5972	349.8548	0.00
0.8000	0.03163	754.5254	921.9181	-0.00928	7686.	1374447.	-91.8315	580.6481	0.00
1.0000	0.02979	937.0724	899.9034	-0.00916	9545.	1374447.	-128.3157	861.6028	0.00
1.2000	0.02797	1114.	870.3368	-0.00901	11352.	1374447.	-167.3510	1197.	0.00
1.4000	0.02618	1285.	832.7688	-0.00883	13091.	1374447.	-208.3287	1591.	0.00
1.6000	0.02443	1448.	786.8642	-0.00864	14745.	1374447.	-250.7175	2052.	0.00
1.8000	0.02273	1600.	732.4603	-0.00841	16297.	1374447.	-293.3216	2581.	0.00
2.0000	0.02107	1741.	669.9441	-0.00817	17729.	1374447.	-331.8404	3150.	0.00
2.2000	0.01946	1868.	600.0687	-0.00791	19027.	1374447.	-366.9131	3771.	0.00
2.4000	0.01790	1981.	523.5177	-0.00763	20174.	1374447.	-398.5977	4453.	0.00
2.6000	0.01641	2077.	440.9647	-0.00733	21160.	1374447.	-426.9321	5204.	0.00
2.8000	0.01497	2157.	353.0779	-0.00703	21971.	1374447.	-451.9352	6037.	0.00
3.0000	0.01360	2219.	260.5586	-0.00671	22598.	1374447.	-473.2585	6961.	0.00
3.2000	0.01229	2261.	165.9149	-0.00638	23033.	1374447.	-473.1779	7701.	0.00
3.4000	0.01104	2285.	72.2396	-0.00605	23274.	1374447.	-463.5752	8394.	0.00
3.6000	0.00987	2290.	-19.3204	-0.00572	23327.	1374447.	-452.0249	9161.	0.00
3.8000	0.00876	2277.	-108.3783	-0.00538	23195.	1374447.	-438.5543	10015.	0.00
4.0000	0.00771	2247.	-194.5511	-0.00506	22885.	1374447.	-423.1739	10971.	0.00
4.2000	0.00674	2199.	-277.4546	-0.00473	22403.	1374447.	-405.8607	12051.	0.00
4.4000	0.00582	2136.	-322.3567	-0.00442	21755.	1374447.	-43.1605	1483.	0.00
4.6000	0.00497	2070.	-330.8897	-0.00411	21089.	1374447.	-42.1695	1697.	0.00
4.8000	0.00418	2003.	-339.2023	-0.00381	20407.	1374447.	-40.9565	1961.	0.00
5.0000	0.00344	1935.	-347.2468	-0.00353	19707.	1374447.	-39.4886	2294.	0.00
5.2000	0.00277	1865.	-354.9674	-0.00325	18992.	1374447.	-37.7173	2728.	0.00
5.4000	0.00214	1793.	-362.2959	-0.00299	18261.	1374447.	-35.5677	3320.	0.00
5.6000	0.00157	1720.	-369.1440	-0.00273	17516.	1374447.	-32.9129	4189.	0.00
5.8000	0.00105	1645.	-375.3863	-0.00249	16757.	1374447.	-29.5099	5618.	0.00
6.0000	5.77E-04	1569.	-380.8146	-0.00225	15986.	1374447.	-24.7730	8580.	0.00
6.2000	1.50E-04	1493.	-384.9112	-0.00203	15205.	1374447.	-16.1931	21585.	0.00
6.4000	-2.34E-04	1415.	-384.6092	-0.00182	14418.	1374447.	19.2126	16426.	0.00
6.6000	-5.77E-04	1339.	-380.0324	-0.00162	13638.	1374447.	26.5554	9209.	0.00
6.8000	-8.81E-04	1263.	-374.2500	-0.00143	12870.	1374447.	31.2684	7102.	0.00
7.0000	-0.00115	1189.	-367.6324	-0.00125	12114.	1374447.	34.9081	6084.	0.00
7.2000	-0.00138	1116.	-360.3493	-0.00108	11372.	1374447.	37.9226	5496.	0.00
7.4000	-0.00158	1045.	-352.5060	-9.24E-04	10645.	1374447.	40.5100	5128.	0.00
7.6000	-0.00175	975.4176	-344.1774	-7.77E-04	9936.	1374447.	42.7768	4890.	0.00

7.8000	-0.00189	907.4376	-335.4210	-6.40E-04	9243.	1374447.	44.7870	4738.	0.00
8.0000	-0.00201	841.2492	-325.5512	-5.12E-04	8569.	1374447.	53.9111	5377.	0.00
8.2000	-0.00210	777.2172	-314.6892	-3.95E-04	7917.	1374447.	54.7080	5221.	0.00
8.4000	-0.00216	715.3735	-303.6894	-2.86E-04	7287.	1374447.	55.2903	5112.	0.00
8.6000	-0.00221	655.7414	-292.5917	-1.86E-04	6679.	1374447.	55.6863	5040.	0.00
8.8000	-0.00224	598.3368	-281.4313	-9.51E-05	6095.	1374447.	55.9182	4998.	0.00
9.0000	-0.00225	543.1689	-270.2391	-1.20E-05	5533.	1374447.	56.0039	4983.	0.00
9.2000	-0.00224	490.2412	-259.0429	6.32E-05	4994.	1374447.	55.9582	4991.	0.00
9.4000	-0.00222	439.5517	-247.8677	1.31E-04	4477.	1374447.	55.7933	5020.	0.00
9.6000	-0.00219	391.0941	-236.7364	1.91E-04	3984.	1374447.	55.5196	5070.	0.00
9.8000	-0.00215	344.8572	-225.6699	2.45E-04	3513.	1374447.	55.1458	5139.	0.00
10.0000	-0.00209	300.8261	-214.6874	2.92E-04	3064.	1374447.	54.6795	5227.	0.00
10.2000	-0.00203	258.9822	-203.8067	3.33E-04	2638.	1374447.	54.1274	5334.	0.00
10.4000	-0.00196	219.3035	-193.0444	3.67E-04	2234.	1374447.	53.4954	5461.	0.00
10.6000	-0.00188	181.7645	-182.4160	3.96E-04	1851.	1374447.	52.7884	5608.	0.00
10.8000	-0.00180	146.3371	-171.9360	4.20E-04	1491.	1374447.	52.0111	5777.	0.00
11.0000	-0.00171	112.9901	-161.6182	4.39E-04	1151.	1374447.	51.1675	5969.	0.00
11.2000	-0.00162	81.6898	-151.4753	4.53E-04	832.0853	1374447.	50.2613	6186.	0.00
11.4000	-0.00153	52.3999	-141.5196	4.63E-04	533.7415	1374447.	49.2956	6431.	0.00
11.6000	-0.00144	25.0819	-131.7627	4.69E-04	255.4825	1374447.	48.2736	6706.	0.00
11.8000	-0.00135	-0.3051	-122.2156	4.71E-04	3.1080	1374447.	47.1977	7016.	0.00
12.0000	-0.00125	-23.8043	-112.8887	4.69E-04	242.4685	1374447.	46.0706	7363.	0.00
12.2000	-0.00116	-45.4606	-103.7922	4.64E-04	463.0581	1374447.	44.8944	7754.	0.00
12.4000	-0.00107	-65.3212	-94.9357	4.56E-04	665.3561	1374447.	43.6712	8194.	0.00
12.6000	-9.76E-04	-83.4349	-86.3283	4.45E-04	849.8608	1374447.	42.4029	8692.	0.00
12.8000	-8.88E-04	-99.8525	-77.9789	4.32E-04	1017.	1374447.	41.0913	9256.	0.00
13.0000	-8.03E-04	-114.6264	-69.1215	4.16E-04	1168.	1374447.	47.4821	11825.	0.00
13.2000	-7.22E-04	-127.5011	-58.9471	3.98E-04	1299.	1374447.	54.2626	15041.	0.00
13.4000	-6.44E-04	-138.2053	-48.2971	3.79E-04	1408.	1374447.	52.2372	16230.	0.00
13.6000	-5.70E-04	-146.8199	-38.0574	3.58E-04	1495.	1374447.	50.1595	17602.	0.00
13.8000	-5.00E-04	-153.4282	-28.2384	3.36E-04	1563.	1374447.	48.0309	19197.	0.00
14.0000	-4.35E-04	-158.1153	-18.8501	3.14E-04	1611.	1374447.	45.8520	21065.	0.00
14.2000	-3.75E-04	-160.9683	-9.9026	2.91E-04	1640.	1374447.	43.6230	23273.	0.00
14.4000	-3.19E-04	-162.0763	-1.4060	2.67E-04	1651.	1374447.	41.3426	25911.	0.00
14.6000	-2.68E-04	-161.5307	6.6291	2.44E-04	1645.	1374447.	39.0086	29105.	0.00
14.8000	-2.22E-04	-159.4247	14.1916	2.20E-04	1624.	1374447.	36.6164	33032.	0.00
15.0000	-1.80E-04	-155.8540	21.2691	1.97E-04	1588.	1374447.	34.1588	37956.	0.00
15.2000	-1.43E-04	-150.9170	27.8473	1.75E-04	1537.	1374447.	31.6234	44287.	0.00
15.4000	-1.10E-04	-144.7151	33.9087	1.53E-04	1474.	1374447.	28.9904	52697.	0.00
15.6000	-8.15E-05	-137.3535	39.4303	1.33E-04	1399.	1374447.	26.2257	64394.	0.00
15.8000	-5.69E-05	-128.9429	44.3796	1.14E-04	1313.	1374447.	23.2669	81814.	0.00
16.0000	-3.61E-05	-119.6017	48.7050	9.54E-05	1218.	1374447.	19.9869	110873.	0.00
16.2000	-1.87E-05	-109.4610	52.3099	7.88E-05	1115.	1374447.	16.0621	171691.	0.00
16.4000	-4.55E-06	-98.6777	54.9190	6.36E-05	1005.	1374447.	10.0293	440558.	0.00

16.6000	6.73E-06	-87.4934	54.7797	5.01E-05	891.2000	1374447.	-11.4224	339311.	0.00
16.8000	1.55E-05	-76.7659	52.1300	3.81E-05	781.9307	1374447.	-15.0746	194861.	0.00
17.0000	2.20E-05	-66.6414	48.9280	2.77E-05	678.8033	1374447.	-16.9458	154211.	0.00
17.2000	2.65E-05	-57.1947	45.4287	1.87E-05	582.5802	1374447.	-18.0464	135977.	0.00
17.4000	2.94E-05	-48.4699	41.7559	1.10E-05	493.7100	1374447.	-18.6815	126892.	0.00
17.6000	3.09E-05	-40.4923	37.9886	4.51E-06	412.4512	1374447.	-18.9916	122782.	0.00
17.8000	3.12E-05	-33.2744	34.1839	-8.59E-07	338.9303	1374447.	-19.0554	121963.	0.00
18.0000	3.06E-05	-26.8187	30.3863	-5.23E-06	273.1733	1374447.	-18.9211	123701.	0.00
18.2000	2.92E-05	-21.1199	26.6321	-8.72E-06	215.1255	1374447.	-18.6202	127731.	0.00
18.4000	2.71E-05	-16.1659	22.9528	-1.14E-05	164.6642	1374447.	-18.1730	134097.	0.00
18.6000	2.46E-05	-11.9388	19.3764	-1.35E-05	121.6073	1374447.	-17.5910	143118.	0.00
18.8000	2.17E-05	-8.4153	15.9295	-1.50E-05	85.7175	1374447.	-16.8782	155463.	0.00
19.0000	1.86E-05	-5.5670	12.6388	-1.60E-05	56.7046	1374447.	-16.0294	172364.	0.00
19.2000	1.53E-05	-3.3598	9.5331	-1.66E-05	34.2226	1374447.	-15.0270	196130.	0.00
19.4000	1.19E-05	-1.7537	6.6473	-1.70E-05	17.8631	1374447.	-13.8316	231498.	0.00
19.6000	8.52E-06	-0.7009	4.0282	-1.72E-05	7.1392	1374447.	-12.3592	289956.	0.00
19.8000	5.08E-06	-0.1424	1.7522	-1.72E-05	1.4508	1374447.	-10.4004	409494.	0.00
20.0000	1.63E-06	0.00	0.00	-1.72E-05	0.00	1374447.	-7.1218	436848.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 7:

Pile-head deflection = 0.03917715 meters
Computed slope at pile head = -0.00950211 radians
Maximum bending moment = 2290. kN-m
Maximum shear force = 950.00000000 kN
Depth of maximum bending moment = 3.60000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 77
Number of zero deflection points = 3

Summary of Pile-head Responses for Conventional Analyses

Definitions of Pile-head Loading Conditions:

Load Type 1: Load 1 = Shear, V, kN, and Load 2 = Moment, M, kN-m
Load Type 2: Load 1 = Shear, V, kN, and Load 2 = Slope, S, radians
Load Type 3: Load 1 = Shear, V, kN, and Load 2 = Rot. Stiffness, R, kN-m/rad.
Load Type 4: Load 1 = Top Deflection, y, m, and Load 2 = Moment, M, kN-m

Load Type 5: Load 1 = Top Deflection, y, m, and Load 2 = Slope, S, radians

Load Case No.	Load Type 1	Pile-head Load 1	Load Type 2	Pile-head Load 2	Axial Pile-head Loading kN	Pile-head Deflection meters	Pile-head Rotation radians	Max Shear in Pile kN	Max Moment in Pile kN-m
1	V, kN	100.0000	M, kN-m	0.00	0.00	7.74E-04	-3.18E-04	100.0000	127.0076
2	V, kN	125.0000	M, kN-m	0.00	0.00	0.00105	-4.21E-04	125.0000	163.1726
3	V, kN	150.0000	M, kN-m	0.00	0.00	0.00135	-5.32E-04	150.0000	201.2473
4	V, kN	175.0000	M, kN-m	0.00	0.00	0.00169	-6.49E-04	175.0000	239.8229
5	V, kN	200.0000	M, kN-m	0.00	0.00	0.00204	-7.72E-04	200.0000	278.6562
6	V, kN	225.0000	M, kN-m	0.00	0.00	0.00242	-9.01E-04	225.0000	318.9741
7	V, kN	950.0000	M, kN-m	0.00	0.00	0.03918	-0.00950	950.0000	2290.

Maximum pile-head deflection = 0.0391771461 meters

Maximum pile-head rotation = -0.0095021120 radians = -0.544431 deg.

The analysis ended normally.

Opera VI02 – D1200

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LPile for Windows, Version 2016-09.009

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method
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Files Used for Analysis

Path to file locations:
\m9159\Work\07_Pali\VI02\LPILE\

Name of input data file:
VI02_spalle-pila_D1200.lp9d

Name of output report file:
VI02_spalle-pila_D1200.lp9o

Name of plot output file:
VI02_spalle-pila_D1200.lp9p

Name of runtime message file:
VI02_spalle-pila_D1200.lp9r

Date and Time of Analysis

Date: June 10, 2019 Time: 14:41:20

Problem Title

Project Name: VI02 - Spalle e pila
Job Number:
Client:
Engineer:
Description:

Program Options and Settings

Computational Options:
- Use unfactored loads in computations (conventional analysis)

Engineering Units Used for Data Input and Computations:
- International System Units (kilonewtons, meters, millimeters)

Analysis Control Options:
- Maximum number of iterations allowed = 600
- Deflection tolerance for convergence = 2.5400E-07 m
- Maximum allowable deflection = 2.5400 m
- Number of pile increments = 100

Loading Type and Number of Cycles of Loading:
- Static loading specified

- Use of p-y modification factors for p-y curves not selected
- No distributed lateral loads are entered
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected

- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:
- Output files use decimal points to denote decimal symbols.
- Values of pile-head deflection, bending moment, shear force, and soil reaction are printed for full length of pile.
- Printing Increment (nodal spacing of output points) = 1
- No p-y curves to be computed and reported for user-specified depths
- Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined = 1
Total length of pile = 20.000 m
Depth of ground surface below top of pile = 0.0000 m

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point	Depth Below Pile Head meters	Pile Diameter millimeters
1	0.000	1200.00
2	20.000	1200.00

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is an elastic pile
Cross-sectional Shape = Circular Pile
Length of section = 20.000000 m

Width of top of section = 1.200000 m
Width of bottom of section = 1.200000 m
Top Area = 1.130973 sq. m
Bottom Area = 1.130973 sq. m
Moment of Inertia at Top = 0.101788 m^4
Moment of Inertia at Bottom = 0.101788 m^4
Elastic Modulus = 28000000. kPa

Ground Slope and Pile Batter Angles

Ground Slope Angle = 0.000 degrees
= 0.000 radians

Pile Batter Angle = 0.000 degrees
= 0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 3 layers

Layer 1 is stiff clay with water-induced erosion

Distance from top of pile to top of layer = 0.0000 m
Distance from top of pile to bottom of layer = 4.300000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 80.000000 kPa
Undrained cohesion at bottom of layer = 80.000000 kPa
Epsilon-50 at top of layer = 0.007000
Epsilon-50 at bottom of layer = 0.007000
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 2 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 4.300000 m
Distance from top of pile to bottom of layer = 13.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 35.000000 kPa
Undrained cohesion at bottom of layer = 35.000000 kPa
Epsilon-50 at top of layer = 0.020000
Epsilon-50 at bottom of layer = 0.020000

Layer 3 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 13.000000 m
Distance from top of pile to bottom of layer = 20.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 45.000000 kPa
Undrained cohesion at bottom of layer = 45.000000 kPa
Epsilon-50 at top of layer = 0.015000
Epsilon-50 at bottom of layer = 0.015000

(Depth of the lowest soil layer extends 0.000 m below the pile tip)

Summary of Input Soil Properties

Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth m	Effective Unit Wt. kN/m3	Undrained Cohesion kPa	E50 or krm	kpy kN/m3
1	Stiff Clay	0.00	9.0000	80.0000	0.00700	default
	with Free Water	4.3000	9.0000	80.0000	0.00700	default
2	Soft	4.3000	9.0000	35.0000	0.02000	--
	Clay	13.0000	9.0000	35.0000	0.02000	--
3	Soft	13.0000	9.0000	45.0000	0.01500	--
	Clay	20.0000	9.0000	45.0000	0.01500	--

Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 10

Load No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, kN	Compute Top y vs. Pile Length
1	1	V = 150.000000 kN	M = 0.0000 m-kN	0.0000000	No
2	1	V = 175.000000 kN	M = 0.0000 m-kN	0.0000000	No
3	1	V = 200.000000 kN	M = 0.0000 m-kN	0.0000000	No
4	1	V = 225.000000 kN	M = 0.0000 m-kN	0.0000000	No
5	1	V = 250.000000 kN	M = 0.0000 m-kN	0.0000000	No
6	1	V = 275.000000 kN	M = 0.0000 m-kN	0.0000000	No
7	1	V = 300.000000 kN	M = 0.0000 m-kN	0.0000000	No
8	1	V = 325.000000 kN	M = 0.0000 m-kN	0.0000000	No
9	1	V = 350.000000 kN	M = 0.0000 m-kN	0.0000000	No
10	1	V = 1200. kN	M = 0.0000 m-kN	0.0000000	No

V = shear force applied normal to pile axis
M = bending moment applied to pile head
y = lateral deflection normal to pile axis
S = pile slope relative to original pile batter angle
R = rotational stiffness applied to pile head
Values of top y vs. pile lengths can be computed only for load types with
specified shear loading (Load Types 1, 2, and 3).
Thrust force is assumed to be acting axially for all pile batter angles.

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

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Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Moment-curvature properties were derived from elastic section properties

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Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head meters	Equivalent Top Depth Below Grnd Surf meters	Same Layer Type As Layer Above	Layer is Rock or is Below Rock Layer	F0 Integral for Layer kN	F1 Integral for Layer kN
1	0.00	0.00	N.A.	No	0.00	242.0230
2	4.3000	1.6245	No	No	242.0230	2739.
3	13.0000	10.3245	Yes	No	2981.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals for Layer n. Layering correction equivalent depths are computed only for soil types with both shallow-depth and deep-depth expressions for peak lateral load transfer. These soil types are soft and stiff clays, non-liquefied sands, and cemented c-phi soil.

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 1

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 150.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X	Deflect. y	Bending Moment	Shear Force	Slope S	Total Stress	Bending Stiffness	Soil Res. p	Soil Spr. Es*h	Distrib. Lat. Load

meters	meters	kN-m	kN	radians	kPa*	kN-m^2	kN/m	kN/m	kN/m
0.00	9.45E-04	-1.39E-10	150.0000	-3.28E-04	8.20E-10	2850053.	0.00	0.00	0.00
0.2000	8.80E-04	30.0000	147.6119	-3.26E-04	176.8388	2850053.	-23.8813	5429.	0.00
0.4000	8.15E-04	59.0447	140.8008	-3.23E-04	348.0468	2850053.	-44.2291	10858.	0.00
0.6000	7.50E-04	86.3203	131.3813	-3.18E-04	508.8262	2850053.	-49.9665	13317.	0.00
0.8000	6.87E-04	111.5973	120.9239	-3.11E-04	657.8242	2850053.	-54.6075	15888.	0.00
1.0000	6.26E-04	134.6899	109.6047	-3.03E-04	793.9467	2850053.	-58.5838	18720.	0.00
1.2000	5.66E-04	155.4391	97.5579	-2.92E-04	916.2559	2850053.	-61.8850	21855.	0.00
1.4000	5.09E-04	173.7130	84.9190	-2.81E-04	1024.	2850053.	-64.5037	25350.	0.00
1.6000	4.54E-04	189.4067	71.8251	-2.68E-04	1116.	2850053.	-66.4353	29271.	0.00
1.8000	4.02E-04	202.4431	58.4138	-2.54E-04	1193.	2850053.	-67.6777	33702.	0.00
2.0000	3.52E-04	212.7723	44.8230	-2.40E-04	1254.	2850053.	-68.2303	38750.	0.00
2.2000	3.06E-04	220.3723	31.1906	-2.25E-04	1299.	2850053.	-68.0937	44554.	0.00
2.4000	2.62E-04	225.2485	17.6544	-2.09E-04	1328.	2850053.	-67.2683	51295.	0.00
2.6000	2.22E-04	227.4340	4.3523	-1.93E-04	1341.	2850053.	-65.7524	59224.	0.00
2.8000	1.85E-04	226.9894	-8.5770	-1.77E-04	1338.	2850053.	-63.5404	68689.	0.00
3.0000	1.51E-04	224.0032	-20.9927	-1.61E-04	1320.	2850053.	-60.6174	80205.	0.00
3.2000	1.20E-04	218.5923	-32.2857	-1.46E-04	1289.	2850053.	-52.3125	86863.	0.00
3.4000	9.28E-05	211.0889	-41.7997	-1.31E-04	1244.	2850053.	-42.8269	92292.	0.00
3.6000	6.81E-05	201.8725	-49.4112	-1.16E-04	1190.	2850053.	-33.2882	97721.	0.00
3.8000	4.63E-05	191.3245	-55.1271	-1.03E-04	1128.	2850053.	-23.8709	103150.	0.00
4.0000	2.71E-05	179.8216	-58.9867	-8.95E-05	1060.	2850053.	-14.7255	108579.	0.00
4.2000	1.05E-05	167.7298	-61.0571	-7.73E-05	988.7045	2850053.	-5.9786	114008.	0.00
4.4000	-3.79E-06	155.3988	-61.2515	-6.60E-05	916.0178	2850053.	4.0350	212705.	0.00
4.6000	-1.59E-05	143.2292	-60.1765	-5.55E-05	844.2826	2850053.	6.7146	84487.	0.00
4.8000	-2.60E-05	131.3281	-58.6922	-4.58E-05	774.1305	2850053.	8.1283	62559.	0.00
5.0000	-3.42E-05	119.7523	-56.9647	-3.70E-05	705.8950	2850053.	9.1470	53439.	0.00
5.2000	-4.08E-05	108.5423	-55.0552	-2.90E-05	639.8162	2850053.	9.9479	48764.	0.00
5.4000	-4.58E-05	97.7302	-53.0003	-2.18E-05	576.0830	2850053.	10.6013	46249.	0.00
5.6000	-4.95E-05	87.3421	-50.8259	-1.53E-05	514.8494	2850053.	11.1430	45008.	0.00
5.8000	-5.20E-05	77.3998	-48.5522	-9.51E-06	456.2431	2850053.	11.5936	44623.	0.00
6.0000	-5.33E-05	67.9212	-46.1963	-4.42E-06	400.3704	2850053.	11.9662	44883.	0.00
6.2000	-5.37E-05	58.9213	-43.7727	3.45E-08	347.3192	2850053.	12.2695	45672.	0.00
6.4000	-5.33E-05	50.4122	-41.2948	3.87E-06	297.1609	2850053.	12.5096	46933.	0.00
6.6000	-5.22E-05	42.4034	-38.7747	7.13E-06	249.9522	2850053.	12.6910	48643.	0.00
6.8000	-5.05E-05	34.9023	-36.2239	9.84E-06	205.7359	2850053.	12.8170	50803.	0.00
7.0000	-4.82E-05	27.9138	-33.6532	1.20E-05	164.5416	2850053.	12.8901	53437.	0.00
7.2000	-4.56E-05	21.4410	-31.0730	1.38E-05	126.3865	2850053.	12.9123	56584.	0.00
7.4000	-4.27E-05	15.4846	-28.4933	1.51E-05	91.2760	2850053.	12.8851	60304.	0.00
7.6000	-3.96E-05	10.0437	-25.9238	1.60E-05	59.2036	2850053.	12.8099	64678.	0.00
7.8000	-3.63E-05	5.1151	-23.3740	1.65E-05	30.1516	2850053.	12.6876	69813.	0.00
8.0000	-3.30E-05	0.6941	-20.8533	1.67E-05	4.0912	2850053.	12.5192	75847.	0.00
8.2000	-2.97E-05	-3.2262	-18.3709	1.66E-05	19.0175	2850053.	12.3054	82959.	0.00

8.4000	-2.64E-05	-6.6543	-15.9357	1.63E-05	39.2246	2850053.	12.0469	91381.	0.00
8.6000	-2.32E-05	-9.6005	-13.5566	1.57E-05	56.5914	2850053.	11.7441	101420.	0.00
8.8000	-2.01E-05	-12.0769	-11.2424	1.49E-05	71.1890	2850053.	11.3978	113481.	0.00
9.0000	-1.72E-05	-14.0974	-8.8563	1.40E-05	83.0992	2850053.	12.4630	145045.	0.00
9.2000	-1.45E-05	-15.6194	-6.4326	1.30E-05	92.0708	2850053.	11.7741	162621.	0.00
9.4000	-1.20E-05	-16.6705	-4.1490	1.18E-05	98.2663	2850053.	11.0613	184432.	0.00
9.6000	-9.74E-06	-17.2791	-2.0103	1.07E-05	101.8537	2850053.	10.3258	211951.	0.00
9.8000	-7.73E-06	-17.4746	-0.02095	9.43E-06	103.0064	2850053.	9.5680	247406.	0.00
10.0000	-5.97E-06	-17.2874	1.8146	8.21E-06	101.9031	2850053.	8.7875	294341.	0.00
10.2000	-4.45E-06	-16.7488	3.4916	7.02E-06	98.7278	2850053.	7.9826	358772.	0.00
10.4000	-3.16E-06	-15.8908	5.0047	5.87E-06	93.6704	2850053.	7.1487	451879.	0.00
10.6000	-2.10E-06	-14.7469	6.3472	4.80E-06	86.9274	2850053.	6.2763	597453.	0.00
10.8000	-1.25E-06	-13.3519	7.5094	3.81E-06	78.7045	2850053.	5.3453	858652.	0.00
11.0000	-5.76E-07	-11.7431	8.0668	2.93E-06	69.2213	2850053.	0.2284	79233.	0.00
11.2000	-7.27E-08	-10.1252	8.0925	2.16E-06	59.6843	2850053.	0.02879	79233.	0.00
11.4000	2.89E-07	-8.5061	8.0839	1.51E-06	50.1405	2850053.	-0.1145	79233.	0.00
11.6000	5.31E-07	-6.8916	7.7127	9.70E-07	40.6237	2850053.	-3.5975	1354221.	0.00
11.8000	6.77E-07	-5.4211	6.9564	5.38E-07	31.9551	2850053.	-3.9651	1171582.	0.00
12.0000	7.46E-07	-4.1091	6.1478	2.03E-07	24.2215	2850053.	-4.1213	1104364.	0.00
12.2000	7.58E-07	-2.9619	5.3211	-4.49E-08	17.4595	2850053.	-4.1461	1093715.	0.00
12.4000	7.28E-07	-1.9806	4.4987	-2.18E-07	11.6752	2850053.	-4.0778	1119620.	0.00
12.6000	6.71E-07	-1.1625	3.6971	-3.29E-07	6.8523	2850053.	-3.9383	1174088.	0.00
12.8000	5.97E-07	-0.5018	2.9290	-3.87E-07	2.9580	2850053.	-3.7427	1253849.	0.00
13.0000	5.16E-07	0.00913	2.1361	-4.04E-07	0.05381	2850053.	-4.1859	1622192.	0.00
13.2000	4.35E-07	0.3526	1.2602	-3.92E-07	2.0786	2850053.	-4.5735	2101285.	0.00
13.4000	3.59E-07	0.5132	0.3866	-3.61E-07	3.0251	2850053.	-4.1626	2315961.	0.00
13.6000	2.91E-07	0.5073	-0.04944	-3.25E-07	2.9901	2850053.	-0.1975	135828.	0.00
13.8000	2.29E-07	0.4934	-0.08476	-2.90E-07	2.9086	2850053.	-0.1557	135828.	0.00
14.0000	1.75E-07	0.4734	-0.1122	-2.56E-07	2.7903	2850053.	-0.1187	135828.	0.00
14.2000	1.27E-07	0.4485	-0.1327	-2.24E-07	2.6440	2850053.	-0.08611	135828.	0.00
14.4000	8.51E-08	0.4203	-0.1471	-1.93E-07	2.4774	2850053.	-0.05783	135828.	0.00
14.6000	4.94E-08	0.3897	-0.1562	-1.65E-07	2.2972	2850053.	-0.03355	135828.	0.00
14.8000	1.91E-08	0.3578	-0.1609	-1.39E-07	2.1091	2850053.	-0.01298	135828.	0.00
15.0000	-6.14E-09	0.3254	-0.1617	-1.15E-07	1.9179	2850053.	0.00417	135828.	0.00
15.2000	-2.68E-08	0.2931	-0.1595	-9.32E-08	1.7277	2850053.	0.01822	135828.	0.00
15.4000	-4.34E-08	0.2616	-0.1547	-7.37E-08	1.5418	2850053.	0.02948	135828.	0.00
15.6000	-5.63E-08	0.2312	-0.1480	-5.64E-08	1.3629	2850053.	0.03825	135828.	0.00
15.8000	-6.60E-08	0.2024	-0.1397	-4.12E-08	1.1929	2850053.	0.04481	135828.	0.00
16.0000	-7.28E-08	0.1753	-0.1302	-2.80E-08	1.0336	2850053.	0.04944	135828.	0.00
16.2000	-7.72E-08	0.1503	-0.1201	-1.65E-08	0.8858	2850053.	0.05240	135828.	0.00
16.4000	-7.94E-08	0.1273	-0.1094	-6.79E-09	0.7505	2850053.	0.05393	135828.	0.00
16.6000	-7.99E-08	0.1065	-0.09860	1.41E-09	0.6279	2850053.	0.05425	135828.	0.00
16.8000	-7.89E-08	0.08788	-0.08782	8.23E-09	0.5180	2850053.	0.05355	135828.	0.00
17.0000	-7.66E-08	0.07139	-0.07726	1.38E-08	0.4208	2850053.	0.05201	135828.	0.00

17.2000	-7.33E-08	0.05697	-0.06708	1.83E-08	0.3358	2850053.	0.04980	135828.	0.00
17.4000	-6.93E-08	0.04455	-0.05740	2.19E-08	0.2626	2850053.	0.04704	135828.	0.00
17.6000	-6.46E-08	0.03402	-0.04831	2.46E-08	0.2005	2850053.	0.04385	135828.	0.00
17.8000	-5.94E-08	0.02523	-0.03989	2.67E-08	0.1487	2850053.	0.04034	135828.	0.00
18.0000	-5.39E-08	0.01806	-0.03220	2.82E-08	0.1065	2850053.	0.03659	135828.	0.00
18.2000	-4.81E-08	0.01235	-0.02527	2.93E-08	0.07281	2850053.	0.03267	135828.	0.00
18.4000	-4.22E-08	0.00795	-0.01914	3.00E-08	0.04686	2850053.	0.02863	135828.	0.00
18.6000	-3.61E-08	0.00469	-0.01383	3.05E-08	0.02767	2850053.	0.02451	135828.	0.00
18.8000	-3.00E-08	0.00242	-0.00934	3.07E-08	0.01426	2850053.	0.02035	135828.	0.00
19.0000	-2.38E-08	9.58E-04	-0.00569	3.08E-08	0.00565	2850053.	0.01617	135828.	0.00
19.2000	-1.76E-08	1.44E-04	-0.00287	3.09E-08	8.48E-04	2850053.	0.01198	135828.	0.00
19.4000	-1.15E-08	-1.92E-04	-8.98E-04	3.09E-08	0.00113	2850053.	0.00778	135828.	0.00
19.6000	-5.29E-09	-2.15E-04	2.39E-04	3.09E-08	0.00127	2850053.	0.00359	135828.	0.00
19.8000	8.82E-10	-9.58E-05	5.39E-04	3.08E-08	5.64E-04	2850053.	-5.99E-04	135828.	0.00
20.0000	7.05E-09	0.00	0.00	3.08E-08	0.00	2850053.	-0.00479	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 1:

Pile-head deflection = 0.00094529 meters
Computed slope at pile head = -0.00032754 radians
Maximum bending moment = 227.43400499 kN-m
Maximum shear force = 150.00000000 kN
Depth of maximum bending moment = 2.60000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 8
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 2

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 175.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth	Deflect.	Bending	Shear	Slope	Total	Bending	Soil Res.	Soil Spr.	Distrib.

X	y	Moment	Force	S	Stress	Stiffness	p	Es*h	Lat. Load
meters	meters	kN-m	kN	radians	kPa*	kN-m^2	kN/m	kN/m	kN/m
0.00	0.00118	0.00	175.0000	-4.00E-04	0.00	2850053.	0.00	0.00	0.00
0.2000	0.00110	35.0000	172.0239	-3.99E-04	206.3120	2850053.	-29.7611	5429.	0.00
0.4000	0.00102	68.8096	164.0566	-3.95E-04	405.6067	2850053.	-49.9117	9816.	0.00
0.6000	9.38E-04	100.6226	153.4779	-3.89E-04	593.1330	2850053.	-55.8748	11909.	0.00
0.8000	8.61E-04	130.2007	141.7779	-3.81E-04	767.4848	2850053.	-61.1261	14194.	0.00
1.0000	7.86E-04	157.3338	129.1002	-3.71E-04	927.4240	2850053.	-65.6503	16705.	0.00
1.2000	7.13E-04	181.8408	115.5917	-3.59E-04	1072.	2850053.	-69.4353	19479.	0.00
1.4000	6.42E-04	203.5704	101.4009	-3.45E-04	1200.	2850053.	-72.4723	22563.	0.00
1.6000	5.75E-04	222.4012	86.6782	-3.31E-04	1311.	2850053.	-74.7550	26013.	0.00
1.8000	5.10E-04	238.2417	71.5747	-3.14E-04	1404.	2850053.	-76.2796	29901.	0.00
2.0000	4.49E-04	251.0311	56.2424	-2.97E-04	1480.	2850053.	-77.0438	34317.	0.00
2.2000	3.91E-04	260.7386	40.8333	-2.79E-04	1537.	2850053.	-77.0466	39376.	0.00
2.4000	3.37E-04	267.3644	25.5000	-2.61E-04	1576.	2850053.	-76.2864	45231.	0.00
2.6000	2.87E-04	270.9386	10.3954	-2.42E-04	1597.	2850053.	-74.7599	52086.	0.00
2.8000	2.41E-04	271.5225	-4.3265	-2.23E-04	1601.	2850053.	-72.4589	60231.	0.00
3.0000	1.98E-04	269.2081	-18.5090	-2.04E-04	1587.	2850053.	-69.3664	70084.	0.00
3.2000	1.59E-04	264.1189	-31.9906	-1.85E-04	1557.	2850053.	-65.4498	82284.	0.00
3.4000	1.24E-04	256.4118	-44.2540	-1.67E-04	1511.	2850053.	-57.1841	92292.	0.00
3.6000	9.24E-05	246.4173	-54.4850	-1.49E-04	1453.	2850053.	-45.1253	97721.	0.00
3.8000	6.42E-05	234.6178	-62.3112	-1.32E-04	1383.	2850053.	-33.1365	103150.	0.00
4.0000	3.94E-05	221.4928	-67.7658	-1.16E-04	1306.	2850053.	-21.4096	108579.	0.00
4.2000	1.77E-05	207.5115	-70.9175	-1.01E-04	1223.	2850053.	-10.1075	114008.	0.00
4.4000	-1.06E-06	193.1258	-71.6648	-8.72E-05	1138.	2850053.	2.6346	496642.	0.00
4.6000	-1.71E-05	178.8456	-70.7120	-7.41E-05	1054.	2850053.	6.8930	80418.	0.00
4.8000	-3.07E-05	164.8410	-69.1627	-6.21E-05	971.6765	2850053.	8.6002	56001.	0.00
5.0000	-4.20E-05	151.1805	-67.3231	-5.10E-05	891.1527	2850053.	9.7957	46677.	0.00
5.2000	-5.11E-05	137.9118	-65.2706	-4.08E-05	812.9386	2850053.	10.7292	41985.	0.00
5.4000	-5.83E-05	125.0722	-63.0485	-3.16E-05	737.2543	2850053.	11.4919	39417.	0.00
5.6000	-6.38E-05	112.6924	-60.6865	-2.33E-05	664.2796	2850053.	12.1283	38046.	0.00
5.8000	-6.76E-05	100.7977	-58.2073	-1.58E-05	594.1646	2850053.	12.6635	37455.	0.00
6.0000	-7.01E-05	89.4095	-55.6296	-9.11E-06	527.0355	2850053.	13.1131	37429.	0.00
6.2000	-7.13E-05	78.5458	-52.9696	-3.22E-06	462.9982	2850053.	13.4874	37852.	0.00
6.4000	-7.14E-05	68.2216	-50.2415	1.93E-06	402.1411	2850053.	13.7936	38662.	0.00
6.6000	-7.05E-05	58.4492	-47.4585	6.38E-06	344.5362	2850053.	14.0368	39827.	0.00
6.8000	-6.88E-05	49.2382	-44.6327	1.02E-05	290.2411	2850053.	14.2208	41337.	0.00
7.0000	-6.64E-05	40.5961	-41.7758	1.33E-05	239.2990	2850053.	14.3486	43201.	0.00
7.2000	-6.35E-05	32.5279	-38.8986	1.59E-05	191.7401	2850053.	14.4224	45439.	0.00
7.4000	-6.01E-05	25.0367	-36.0120	1.79E-05	147.5818	2850053.	14.4439	48085.	0.00
7.6000	-5.63E-05	18.1231	-33.1262	1.94E-05	106.8291	2850053.	14.4146	51186.	0.00
7.8000	-5.23E-05	11.7862	-30.2511	2.05E-05	69.4752	2850053.	14.3356	54806.	0.00
8.0000	-4.81E-05	6.0227	-27.3968	2.11E-05	35.5014	2850053.	14.2078	59028.	0.00

8.2000	-4.39E-05	0.8275	-24.5728	2.13E-05	4.8777	2850053.	14.0322	63956.	0.00
8.4000	-3.96E-05	-3.8064	-21.7887	2.12E-05	22.4375	2850053.	13.8092	69726.	0.00
8.6000	-3.54E-05	-7.8880	-19.0538	2.08E-05	46.4967	2850053.	13.5397	76511.	0.00
8.8000	-3.13E-05	-11.4279	-16.3774	2.01E-05	67.3635	2850053.	13.2241	84535.	0.00
9.0000	-2.73E-05	-14.4389	-13.5987	1.92E-05	85.1122	2850053.	14.5627	106528.	0.00
9.2000	-2.36E-05	-16.8674	-10.7557	1.81E-05	99.4272	2850053.	13.8676	117535.	0.00
9.4000	-2.01E-05	-18.7412	-8.0543	1.69E-05	110.4725	2850053.	13.1464	130869.	0.00
9.6000	-1.68E-05	-20.0891	-5.4996	1.55E-05	118.4180	2850053.	12.4002	147206.	0.00
9.8000	-1.39E-05	-20.9411	-3.0966	1.41E-05	123.4398	2850053.	11.6300	167510.	0.00
10.0000	-1.12E-05	-21.3278	-0.8500	1.26E-05	125.7193	2850053.	10.8361	193190.	0.00
10.2000	-8.85E-06	-21.2811	1.2354	1.11E-05	125.4439	2850053.	10.0179	226399.	0.00
10.4000	-6.78E-06	-20.8336	3.1545	9.62E-06	122.8064	2850053.	9.1733	270596.	0.00
10.6000	-5.00E-06	-20.0193	4.9017	8.18E-06	118.0060	2850053.	8.2980	331734.	0.00
10.8000	-3.51E-06	-18.8730	6.4698	6.82E-06	111.2491	2850053.	7.3830	421103.	0.00
11.0000	-2.28E-06	-17.4313	7.8490	5.55E-06	102.7513	2850053.	6.4097	563465.	0.00
11.2000	-1.29E-06	-15.7333	9.0235	4.38E-06	92.7422	2850053.	5.3349	828194.	0.00
11.4000	-5.22E-07	-13.8220	9.5777	3.34E-06	81.4752	2850053.	0.2069	79233.	0.00
11.6000	4.96E-08	-11.9023	9.5964	2.44E-06	70.1595	2850053.	-0.01966	79233.	0.00
11.8000	4.55E-07	-9.9834	9.5764	1.67E-06	58.8484	2850053.	-0.1801	79233.	0.00
12.0000	7.19E-07	-8.0717	9.1353	1.04E-06	47.5797	2850053.	-4.2308	1176249.	0.00
12.2000	8.71E-07	-6.3293	8.2599	5.36E-07	37.3086	2850053.	-4.5240	1038946.	0.00
12.4000	9.34E-07	-4.7678	7.3444	1.46E-07	28.1042	2850053.	-4.6302	991914.	0.00
12.6000	9.29E-07	-3.3915	6.4201	-1.40E-07	19.9915	2850053.	-4.6131	992736.	0.00
12.8000	8.78E-07	-2.1997	5.5082	-3.36E-07	12.9666	2850053.	-4.5057	1026869.	0.00
13.0000	7.95E-07	-1.1882	4.5405	-4.55E-07	7.0040	2850053.	-5.1714	1301194.	0.00
13.2000	6.96E-07	-0.3835	3.4440	-5.10E-07	2.2607	2850053.	-5.7937	1666063.	0.00
13.4000	5.91E-07	0.1894	2.3247	-5.17E-07	1.1165	2850053.	-5.3996	1828047.	0.00
13.6000	4.89E-07	0.5464	1.2891	-4.91E-07	3.2206	2850053.	-4.9563	2028517.	0.00
13.8000	3.94E-07	0.7050	0.3456	-4.47E-07	4.1560	2850053.	-4.4786	2271999.	0.00
14.0000	3.10E-07	0.6846	-0.1233	-3.99E-07	4.0354	2850053.	-0.2103	135828.	0.00
14.2000	2.35E-07	0.6557	-0.1603	-3.52E-07	3.8653	2850053.	-0.1595	135828.	0.00
14.4000	1.69E-07	0.6205	-0.1877	-3.07E-07	3.6575	2850053.	-0.1148	135828.	0.00
14.6000	1.12E-07	0.5806	-0.2068	-2.65E-07	3.4227	2850053.	-0.07611	135828.	0.00
14.8000	6.32E-08	0.5378	-0.2187	-2.25E-07	3.1699	2850053.	-0.04293	135828.	0.00
15.0000	2.19E-08	0.4932	-0.2245	-1.89E-07	2.9070	2850053.	-0.01488	135828.	0.00
15.2000	-1.25E-08	0.4480	-0.2251	-1.56E-07	2.6406	2850053.	0.00848	135828.	0.00
15.4000	-4.06E-08	0.4031	-0.2215	-1.26E-07	2.3762	2850053.	0.02756	135828.	0.00
15.6000	-6.30E-08	0.3594	-0.2145	-9.96E-08	2.1183	2850053.	0.04280	135828.	0.00
15.8000	-8.04E-08	0.3173	-0.2047	-7.59E-08	1.8705	2850053.	0.05462	135828.	0.00
16.0000	-9.34E-08	0.2775	-0.1929	-5.50E-08	1.6355	2850053.	0.06341	135828.	0.00
16.2000	-1.02E-07	0.2401	-0.1796	-3.68E-08	1.4156	2850053.	0.06956	135828.	0.00
16.4000	-1.08E-07	0.2056	-0.1653	-2.12E-08	1.2120	2850053.	0.07342	135828.	0.00
16.6000	-1.11E-07	0.1740	-0.1505	-7.88E-09	1.0257	2850053.	0.07532	135828.	0.00
16.8000	-1.11E-07	0.1454	-0.1354	3.33E-09	0.8572	2850053.	0.07556	135828.	0.00

17.0000	-1.10E-07	0.1199	-0.1204	1.26E-08	0.7065	2850053.	0.07441	135828.	0.00
17.2000	-1.06E-07	0.09726	-0.1057	2.03E-08	0.5733	2850053.	0.07213	135828.	0.00
17.4000	-1.01E-07	0.07756	-0.09163	2.64E-08	0.4572	2850053.	0.06891	135828.	0.00
17.6000	-9.56E-08	0.06061	-0.07824	3.12E-08	0.3573	2850053.	0.06496	135828.	0.00
17.8000	-8.90E-08	0.04626	-0.06570	3.50E-08	0.2727	2850053.	0.06042	135828.	0.00
18.0000	-8.17E-08	0.03433	-0.05411	3.78E-08	0.2024	2850053.	0.05545	135828.	0.00
18.2000	-7.38E-08	0.02462	-0.04355	3.99E-08	0.1451	2850053.	0.05015	135828.	0.00
18.4000	-6.57E-08	0.01691	-0.03408	4.13E-08	0.09968	2850053.	0.04462	135828.	0.00
18.6000	-5.73E-08	0.01099	-0.02572	4.23E-08	0.06477	2850053.	0.03892	135828.	0.00
18.8000	-4.88E-08	0.00662	-0.01852	4.29E-08	0.03903	2850053.	0.03312	135828.	0.00
19.0000	-4.01E-08	0.00358	-0.01248	4.33E-08	0.02110	2850053.	0.02726	135828.	0.00
19.2000	-3.14E-08	0.00163	-0.00762	4.35E-08	0.00960	2850053.	0.02136	135828.	0.00
19.4000	-2.27E-08	5.31E-04	-0.00394	4.36E-08	0.00313	2850053.	0.01545	135828.	0.00
19.6000	-1.40E-08	5.19E-05	-0.00144	4.36E-08	3.06E-04	2850053.	0.00953	135828.	0.00
19.8000	-5.31E-09	-4.62E-05	-1.30E-04	4.36E-08	2.72E-04	2850053.	0.00361	135828.	0.00
20.0000	3.40E-09	0.00	0.00	4.36E-08	0.00	2850053.	-0.00231	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 2:

Pile-head deflection = 0.00117636 meters
Computed slope at pile head = -0.00039988 radians
Maximum bending moment = 271.52252829 kN-m
Maximum shear force = 175.00000000 kN
Depth of maximum bending moment = 2.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 9
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 3

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 200.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00142	2.01E-10	200.0000	-4.76E-04	1.18E-09	2850053.	0.00	0.00	0.00
0.2000	0.00133	40.0000	196.3932	-4.74E-04	235.7851	2850053.	-36.0684	5429.	0.00
0.4000	0.00123	78.5573	187.2880	-4.70E-04	463.0658	2850053.	-54.9836	8910.	0.00
0.6000	0.00114	114.9152	175.6295	-4.64E-04	677.3822	2850053.	-61.6008	10801.	0.00
0.8000	0.00105	148.8091	162.7245	-4.54E-04	877.1740	2850053.	-67.4489	12863.	0.00
1.0000	9.59E-04	180.0050	148.7285	-4.43E-04	1061.	2850053.	-72.5112	15123.	0.00
1.2000	8.72E-04	208.3005	133.8000	-4.29E-04	1228.	2850053.	-76.7739	17616.	0.00
1.4000	7.87E-04	233.5250	118.1000	-4.14E-04	1377.	2850053.	-80.2266	20381.	0.00
1.6000	7.06E-04	255.5405	101.7912	-3.96E-04	1506.	2850053.	-82.8614	23467.	0.00
1.8000	6.29E-04	274.2415	85.0377	-3.78E-04	1617.	2850053.	-84.6729	26935.	0.00
2.0000	5.55E-04	289.5556	68.0047	-3.58E-04	1707.	2850053.	-85.6573	30864.	0.00
2.2000	4.85E-04	301.4434	50.8578	-3.37E-04	1777.	2850053.	-85.8118	35351.	0.00
2.4000	4.20E-04	309.8987	33.7633	-3.16E-04	1827.	2850053.	-85.1330	40527.	0.00
2.6000	3.59E-04	314.9487	16.8885	-2.94E-04	1857.	2850053.	-83.6155	46565.	0.00
2.8000	3.03E-04	316.6541	0.4020	-2.72E-04	1867.	2850053.	-81.2488	53709.	0.00
3.0000	2.50E-04	315.1095	-15.5242	-2.50E-04	1857.	2850053.	-78.0136	62307.	0.00
3.2000	2.03E-04	310.4444	-30.7130	-2.28E-04	1830.	2850053.	-73.8740	72890.	0.00
3.4000	1.59E-04	302.8243	-44.9770	-2.06E-04	1785.	2850053.	-68.7659	86311.	0.00
3.6000	1.20E-04	292.4536	-57.7284	-1.85E-04	1724.	2850053.	-58.7487	97721.	0.00
3.8000	8.52E-05	279.7329	-67.9993	-1.65E-04	1649.	2850053.	-43.9602	103150.	0.00
4.0000	5.42E-05	265.2539	-75.3356	-1.46E-04	1564.	2850053.	-29.4028	108579.	0.00
4.2000	2.68E-05	249.5987	-79.8039	-1.28E-04	1471.	2850053.	-15.2804	114008.	0.00
4.4000	2.96E-06	233.3323	-81.7049	-1.11E-04	1375.	2850053.	-3.7297	252385.	0.00
4.6000	-1.76E-05	216.9167	-81.3819	-9.53E-05	1279.	2850053.	6.9606	79008.	0.00
4.8000	-3.52E-05	200.7796	-79.7859	-8.06E-05	1184.	2850053.	8.9985	51199.	0.00
5.0000	-4.99E-05	185.0023	-77.8484	-6.71E-05	1091.	2850053.	10.3768	41620.	0.00
5.2000	-6.20E-05	169.6402	-75.6664	-5.46E-05	999.9658	2850053.	11.4434	36925.	0.00
5.4000	-7.17E-05	154.7358	-73.2906	-4.33E-05	912.1098	2850053.	12.3142	34341.	0.00
5.6000	-7.93E-05	140.3239	-70.7549	-3.29E-05	827.1574	2850053.	13.0435	32904.	0.00
5.8000	-8.49E-05	126.4338	-68.0844	-2.35E-05	745.2804	2850053.	13.6614	32191.	0.00
6.0000	-8.87E-05	113.0902	-65.2996	-1.51E-05	666.6246	2850053.	14.1861	31988.	0.00
6.2000	-9.09E-05	100.3140	-62.4181	-7.65E-06	591.3136	2850053.	14.6296	32178.	0.00
6.4000	-9.18E-05	88.1230	-59.4551	-1.03E-06	519.4521	2850053.	15.0003	32696.	0.00
6.6000	-9.13E-05	76.5320	-56.4247	4.74E-06	451.1274	2850053.	15.3039	33509.	0.00
6.8000	-8.99E-05	65.5531	-53.3398	9.73E-06	386.4111	2850053.	15.5449	34599.	0.00
7.0000	-8.75E-05	55.1960	-50.2126	1.40E-05	325.3601	2850053.	15.7264	35966.	0.00
7.2000	-8.43E-05	45.4680	-47.0549	1.75E-05	268.0172	2850053.	15.8511	37619.	0.00
7.4000	-8.05E-05	36.3741	-43.8777	2.04E-05	214.4117	2850053.	15.9208	39578.	0.00
7.6000	-7.61E-05	27.9170	-40.6919	2.26E-05	164.5601	2850053.	15.9373	41872.	0.00
7.8000	-7.14E-05	20.0973	-37.5080	2.43E-05	118.4663	2850053.	15.9017	44540.	0.00

8.0000	-6.64E-05	12.9138	-34.3363	2.55E-05	76.1218	2850053.	15.8151	47635.	0.00
8.2000	-6.12E-05	6.3628	-31.1870	2.61E-05	37.5063	2850053.	15.6784	51223.	0.00
8.4000	-5.59E-05	0.4390	-28.0699	2.64E-05	2.5876	2850053.	15.4925	55387.	0.00
8.6000	-5.07E-05	-4.8652	-24.9948	2.62E-05	28.6783	2850053.	15.2579	60232.	0.00
8.8000	-4.55E-05	-9.5590	-21.9715	2.57E-05	56.3465	2850053.	14.9754	65895.	0.00
9.0000	-4.04E-05	-13.6538	-18.8159	2.49E-05	80.4838	2850053.	16.5809	82134.	0.00
9.2000	-3.55E-05	-17.0853	-15.5693	2.38E-05	100.7116	2850053.	15.8852	89520.	0.00
9.4000	-3.08E-05	-19.8815	-12.4646	2.25E-05	117.1938	2850053.	15.1617	98313.	0.00
9.6000	-2.65E-05	-22.0711	-9.5072	2.11E-05	130.1011	2850053.	14.4121	108864.	0.00
9.8000	-2.24E-05	-23.6843	-6.7022	1.95E-05	139.6103	2850053.	13.6377	121655.	0.00
10.0000	-1.87E-05	-24.7520	-4.0545	1.78E-05	145.9039	2850053.	12.8397	137354.	0.00
10.2000	-1.53E-05	-25.3061	-1.5686	1.60E-05	149.1701	2850053.	12.0186	156913.	0.00
10.4000	-1.23E-05	-25.3795	0.7507	1.42E-05	149.6025	2850053.	11.1742	181743.	0.00
10.6000	-9.63E-06	-25.0059	2.8986	1.25E-05	147.4002	2850053.	10.3056	214009.	0.00
10.8000	-7.32E-06	-24.2200	4.8702	1.07E-05	142.7680	2850053.	9.4100	257237.	0.00
11.0000	-5.34E-06	-23.0578	6.6594	9.07E-06	135.9170	2850053.	8.4819	317595.	0.00
11.2000	-3.69E-06	-21.5562	8.2586	7.50E-06	127.0661	2850053.	7.5103	407054.	0.00
11.4000	-2.34E-06	-19.7543	9.6569	6.05E-06	116.4443	2850053.	6.4722	552857.	0.00
11.6000	-1.27E-06	-17.6935	10.8354	4.74E-06	104.2965	2850053.	5.3124	836670.	0.00
11.8000	-4.47E-07	-15.4202	11.3843	3.57E-06	90.8962	2850053.	0.1770	79233.	0.00
12.0000	1.60E-07	-13.1398	11.3957	2.57E-06	77.4541	2850053.	-0.06338	79233.	0.00
12.2000	5.82E-07	-10.8619	10.9969	1.73E-06	64.0269	2850053.	-3.9241	1347808.	0.00
12.4000	8.52E-07	-8.7410	10.1551	1.04E-06	51.5250	2850053.	-4.4939	1054686.	0.00
12.6000	9.99E-07	-6.7999	9.2308	4.97E-07	40.0827	2850053.	-4.7488	950365.	0.00
12.8000	1.05E-06	-5.0487	8.2733	8.16E-08	29.7600	2850053.	-4.8264	918328.	0.00
13.0000	1.03E-06	-3.4905	7.2191	-2.18E-07	20.5754	2850053.	-5.7163	1107778.	0.00
13.2000	9.64E-07	-2.1610	5.9890	-4.16E-07	12.7386	2850053.	-6.5846	1366183.	0.00
13.4000	8.66E-07	-1.0949	4.7003	-5.31E-07	6.4543	2850053.	-6.3021	1456255.	0.00
13.6000	7.52E-07	-0.2809	3.4759	-5.79E-07	1.6559	2850053.	-5.9417	1580794.	0.00
13.8000	6.34E-07	0.2954	2.3300	-5.78E-07	1.7415	2850053.	-5.5182	1740733.	0.00
14.0000	5.20E-07	0.6511	1.2737	-5.45E-07	3.8378	2850053.	-5.0448	1938729.	0.00
14.2000	4.16E-07	0.8049	0.3156	-4.94E-07	4.7446	2850053.	-4.5353	2180543.	0.00
14.4000	3.23E-07	0.7773	-0.1598	-4.38E-07	4.5820	2850053.	-0.2192	135828.	0.00
14.6000	2.41E-07	0.7410	-0.1981	-3.85E-07	4.3677	2850053.	-0.1634	135828.	0.00
14.8000	1.69E-07	0.6981	-0.2259	-3.35E-07	4.1149	2850053.	-0.1146	135828.	0.00
15.0000	1.07E-07	0.6506	-0.2446	-2.87E-07	3.8351	2850053.	-0.07248	135828.	0.00
15.2000	5.38E-08	0.6002	-0.2555	-2.43E-07	3.5382	2850053.	-0.03654	135828.	0.00
15.4000	9.32E-09	0.5484	-0.2598	-2.03E-07	3.2327	2850053.	-0.00633	135828.	0.00
15.6000	-2.75E-08	0.4963	-0.2586	-1.67E-07	2.9257	2850053.	0.01865	135828.	0.00
15.8000	-5.73E-08	0.4450	-0.2528	-1.33E-07	2.6230	2850053.	0.03891	135828.	0.00
16.0000	-8.09E-08	0.3952	-0.2434	-1.04E-07	2.3296	2850053.	0.05492	135828.	0.00
16.2000	-9.89E-08	0.3476	-0.2312	-7.80E-08	2.0491	2850053.	0.06716	135828.	0.00
16.4000	-1.12E-07	0.3027	-0.2169	-5.51E-08	1.7844	2850053.	0.07610	135828.	0.00
16.6000	-1.21E-07	0.2609	-0.2011	-3.54E-08	1.5377	2850053.	0.08214	135828.	0.00

16.8000	-1.26E-07	0.2223	-0.1843	-1.84E-08	1.3104	2850053.	0.08570	135828.	0.00
17.0000	-1.28E-07	0.1872	-0.1670	-4.04E-09	1.1032	2850053.	0.08714	135828.	0.00
17.2000	-1.28E-07	0.1555	-0.1496	7.98E-09	0.9166	2850053.	0.08680	135828.	0.00
17.4000	-1.25E-07	0.1273	-0.1324	1.79E-08	0.7505	2850053.	0.08498	135828.	0.00
17.6000	-1.21E-07	0.1025	-0.1157	2.60E-08	0.6044	2850053.	0.08194	135828.	0.00
17.8000	-1.15E-07	0.08103	-0.09974	3.24E-08	0.4777	2850053.	0.07792	135828.	0.00
18.0000	-1.08E-07	0.06264	-0.08463	3.75E-08	0.3693	2850053.	0.07313	135828.	0.00
18.2000	-9.98E-08	0.04718	-0.07055	4.13E-08	0.2781	2850053.	0.06775	135828.	0.00
18.4000	-9.12E-08	0.03442	-0.05758	4.42E-08	0.2029	2850053.	0.06191	135828.	0.00
18.6000	-8.21E-08	0.02415	-0.04581	4.62E-08	0.1423	2850053.	0.05575	135828.	0.00
18.8000	-7.27E-08	0.01610	-0.03530	4.76E-08	0.09489	2850053.	0.04936	135828.	0.00
19.0000	-6.30E-08	0.01002	-0.02609	4.86E-08	0.05909	2850053.	0.04281	135828.	0.00
19.2000	-5.33E-08	0.00566	-0.01819	4.91E-08	0.03338	2850053.	0.03617	135828.	0.00
19.4000	-4.34E-08	0.00275	-0.01163	4.94E-08	0.01620	2850053.	0.02947	135828.	0.00
19.6000	-3.35E-08	0.00101	-0.00641	4.95E-08	0.00596	2850053.	0.02275	135828.	0.00
19.8000	-2.36E-08	1.86E-04	-0.00253	4.96E-08	0.00109	2850053.	0.01601	135828.	0.00
20.0000	-1.37E-08	0.00	0.00	4.96E-08	0.00	2850053.	0.00928	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 3:

Pile-head deflection = 0.00142392 meters
Computed slope at pile head = -0.00047586 radians
Maximum bending moment = 316.65407164 kN-m
Maximum shear force = 200.00000000 kN
Depth of maximum bending moment = 2.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 10
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 4

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 225.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00169	-1.39E-10	225.0000	-5.54E-04	8.20E-10	2850053.	0.00	0.00	0.00
0.2000	0.00158	45.0000	220.7237	-5.53E-04	265.2582	2850053.	-42.7626	5429.	0.00
0.4000	0.00147	88.2895	210.4566	-5.48E-04	520.4337	2850053.	-59.9091	8178.	0.00
0.6000	0.00136	129.1826	197.7489	-5.41E-04	761.4835	2850053.	-67.1682	9906.	0.00
0.8000	0.00125	167.3890	183.6715	-5.30E-04	986.6960	2850053.	-73.6052	11788.	0.00
1.0000	0.00114	202.6512	168.3908	-5.17E-04	1195.	2850053.	-79.2017	13846.	0.00
1.2000	0.00104	234.7454	152.0764	-5.02E-04	1384.	2850053.	-83.9429	16112.	0.00
1.4000	9.43E-04	263.4818	134.9004	-4.84E-04	1553.	2850053.	-87.8168	18620.	0.00
1.6000	8.48E-04	288.7055	117.0372	-4.65E-04	1702.	2850053.	-90.8146	21413.	0.00
1.8000	7.57E-04	310.2967	98.6628	-4.44E-04	1829.	2850053.	-92.9294	24544.	0.00
2.0000	6.71E-04	328.1707	79.9542	-4.22E-04	1934.	2850053.	-94.1566	28079.	0.00
2.2000	5.89E-04	342.2784	61.0894	-3.98E-04	2018.	2850053.	-94.4919	32105.	0.00
2.4000	5.11E-04	352.6064	42.2471	-3.74E-04	2078.	2850053.	-93.9310	36733.	0.00
2.6000	4.39E-04	359.1772	23.6073	-3.49E-04	2117.	2850053.	-92.4673	42110.	0.00
2.8000	3.72E-04	362.0493	5.3516	-3.23E-04	2134.	2850053.	-90.0896	48442.	0.00
3.0000	3.10E-04	361.3179	-12.3351	-2.98E-04	2130.	2850053.	-86.7773	56019.	0.00
3.2000	2.53E-04	357.1153	-29.2623	-2.73E-04	2105.	2850053.	-82.4946	65278.	0.00
3.4000	2.01E-04	349.6130	-45.2295	-2.48E-04	2061.	2850053.	-77.1779	76911.	0.00
3.6000	1.54E-04	339.0235	-60.0188	-2.24E-04	1998.	2850053.	-70.7148	92108.	0.00
3.8000	1.11E-04	325.6054	-72.8233	-2.01E-04	1919.	2850053.	-57.3300	103150.	0.00
4.0000	7.33E-05	309.8942	-82.5379	-1.78E-04	1827.	2850053.	-39.8158	108579.	0.00
4.2000	3.99E-05	292.5903	-88.7922	-1.57E-04	1725.	2850053.	-22.7276	114008.	0.00
4.4000	1.05E-05	274.3773	-91.6351	-1.37E-04	1617.	2850053.	-5.7009	108513.	0.00
4.6000	-1.50E-05	255.9363	-91.5456	-1.19E-04	1509.	2850053.	6.5953	87909.	0.00
4.8000	-3.69E-05	237.7591	-89.9715	-1.01E-04	1402.	2850053.	9.1461	49539.	0.00
5.0000	-5.55E-05	219.9477	-87.9815	-8.52E-05	1297.	2850053.	10.7535	38746.	0.00
5.2000	-7.10E-05	202.5664	-85.7089	-7.04E-05	1194.	2850053.	11.9730	33725.	0.00
5.4000	-8.37E-05	185.6641	-83.2153	-5.68E-05	1094.	2850053.	12.9622	30989.	0.00
5.6000	-9.37E-05	169.2803	-80.5401	-4.43E-05	997.8444	2850053.	13.7904	29433.	0.00
5.8000	-1.01E-04	153.4481	-77.7116	-3.30E-05	904.5195	2850053.	14.4944	28595.	0.00
6.0000	-1.07E-04	138.1957	-74.7525	-2.27E-05	814.6121	2850053.	15.0962	28245.	0.00
6.2000	-1.10E-04	123.5471	-71.6819	-1.36E-05	728.2641	2850053.	15.6102	28260.	0.00
6.4000	-1.12E-04	109.5229	-68.5163	-5.38E-06	645.5969	2850053.	16.0459	28572.	0.00
6.6000	-1.13E-04	96.1406	-65.2707	1.84E-06	566.7130	2850053.	16.4102	29141.	0.00
6.8000	-1.12E-04	83.4147	-61.9588	8.14E-06	491.6984	2850053.	16.7080	29947.	0.00
7.0000	-1.09E-04	71.3571	-58.5937	1.36E-05	420.6232	2850053.	16.9432	30983.	0.00
7.2000	-1.06E-04	59.9772	-55.1875	1.82E-05	353.5431	2850053.	17.1186	32251.	0.00
7.4000	-1.02E-04	49.2820	-51.7520	2.20E-05	290.4993	2850053.	17.2364	33763.	0.00
7.6000	-9.74E-05	39.2764	-48.2985	2.51E-05	231.5195	2850053.	17.2985	35537.	0.00

7.8000	-9.21E-05	29.9626	-44.8381	2.75E-05	176.6185	2850053.	17.3061	37599.	0.00
8.0000	-8.63E-05	21.3411	-41.3814	2.93E-05	125.7980	2850053.	17.2605	39984.	0.00
8.2000	-8.03E-05	13.4101	-37.9391	3.06E-05	79.0473	2850053.	17.1627	42737.	0.00
8.4000	-7.41E-05	6.1655	-34.5215	3.13E-05	36.3433	2850053.	17.0135	45913.	0.00
8.6000	-6.78E-05	-0.3985	-31.1387	3.15E-05	2.3492	2850053.	16.8137	49585.	0.00
8.8000	-6.15E-05	-6.2900	-27.8010	3.12E-05	37.0772	2850053.	16.5639	53840.	0.00
9.0000	-5.53E-05	-11.5189	-24.3032	3.06E-05	67.8997	2850053.	18.4142	66560.	0.00
9.2000	-4.93E-05	-16.0113	-20.6898	2.96E-05	94.3805	2850053.	17.7200	71897.	0.00
9.4000	-4.35E-05	-19.7948	-17.2182	2.84E-05	116.6831	2850053.	16.9957	78178.	0.00
9.6000	-3.79E-05	-22.8985	-13.8943	2.69E-05	134.9784	2850053.	16.2433	85617.	0.00
9.8000	-3.27E-05	-25.3525	-10.7235	2.52E-05	149.4438	2850053.	15.4644	94496.	0.00
10.0000	-2.79E-05	-27.1880	-7.7111	2.33E-05	160.2629	2850053.	14.6600	105195.	0.00
10.2000	-2.34E-05	-28.4370	-4.8619	2.14E-05	167.6253	2850053.	13.8313	118239.	0.00
10.4000	-1.93E-05	-29.1327	-2.1810	1.94E-05	171.7266	2850053.	12.9785	134367.	0.00
10.6000	-1.56E-05	-29.3093	0.3270	1.73E-05	172.7677	2850053.	12.1015	154658.	0.00
10.8000	-1.24E-05	-29.0019	2.6571	1.53E-05	170.9555	2850053.	11.1990	180744.	0.00
11.0000	-9.54E-06	-28.2465	4.8038	1.33E-05	166.5027	2850053.	10.2683	215226.	0.00
11.2000	-7.09E-06	-27.0804	6.7611	1.13E-05	159.6287	2850053.	9.3040	262526.	0.00
11.4000	-5.01E-06	-25.5421	8.5211	9.47E-06	150.5611	2850053.	8.2958	330881.	0.00
11.6000	-3.30E-06	-23.6720	10.0729	7.75E-06	139.5374	2850053.	7.2229	437868.	0.00
11.8000	-1.92E-06	-21.5129	11.3991	6.16E-06	126.8106	2850053.	6.0386	630291.	0.00
12.0000	-8.35E-07	-19.1123	12.4635	4.73E-06	112.6600	2850053.	4.6053	1103008.	0.00
12.2000	-2.22E-08	-16.5275	12.9249	3.48E-06	97.4236	2850053.	0.00879	79233.	0.00
12.4000	5.59E-07	-13.9424	12.9036	2.42E-06	82.1851	2850053.	-0.2213	79233.	0.00
12.6000	9.44E-07	-11.3661	12.4108	1.53E-06	66.9988	2850053.	-4.7071	997373.	0.00
12.8000	1.17E-06	-8.9781	11.4338	8.13E-07	52.9224	2850053.	-5.0623	865659.	0.00
13.0000	1.27E-06	-6.7926	10.3062	2.60E-07	40.0396	2850053.	-6.2143	979204.	0.00
13.2000	1.27E-06	-4.8556	8.9490	-1.49E-07	28.6220	2850053.	-7.3574	1155361.	0.00
13.4000	1.21E-06	-3.2130	7.4921	-4.32E-07	18.9392	2850053.	-7.2119	1192236.	0.00
13.6000	1.10E-06	-1.8588	6.0753	-6.10E-07	10.9568	2850053.	-6.9557	1263624.	0.00
13.8000	9.66E-07	-0.7828	4.7188	-7.02E-07	4.6145	2850053.	-6.6097	1368569.	0.00
14.0000	8.20E-07	0.02874	3.4390	-7.29E-07	0.1694	2850053.	-6.1881	1509368.	0.00
14.2000	6.74E-07	0.5928	2.2501	-7.07E-07	3.4942	2850053.	-5.7012	1690757.	0.00
14.4000	5.37E-07	0.9288	1.1642	-6.54E-07	5.4747	2850053.	-5.1572	1920228.	0.00
14.6000	4.13E-07	1.0585	0.1921	-5.84E-07	6.2393	2850053.	-4.5641	2210539.	0.00
14.8000	3.04E-07	1.0056	-0.2849	-5.11E-07	5.9277	2850053.	-0.2062	135828.	0.00
15.0000	2.08E-07	0.9445	-0.3197	-4.43E-07	5.5674	2850053.	-0.1415	135828.	0.00
15.2000	1.26E-07	0.8777	-0.3424	-3.79E-07	5.1739	2850053.	-0.08581	135828.	0.00
15.4000	5.67E-08	0.8075	-0.3549	-3.20E-07	4.7601	2850053.	-0.03850	135828.	0.00
15.6000	-1.65E-09	0.7358	-0.3586	-2.66E-07	4.3372	2850053.	0.00112	135828.	0.00
15.8000	-4.97E-08	0.6641	-0.3551	-2.17E-07	3.9146	2850053.	0.03372	135828.	0.00
16.0000	-8.83E-08	0.5937	-0.3457	-1.73E-07	3.4999	2850053.	0.06000	135828.	0.00
16.2000	-1.19E-07	0.5258	-0.3317	-1.33E-07	3.0994	2850053.	0.08061	135828.	0.00
16.4000	-1.42E-07	0.4611	-0.3140	-9.87E-08	2.7179	2850053.	0.09622	135828.	0.00

16.6000	-1.58E-07	0.4002	-0.2936	-6.85E-08	2.3590	2850053.	0.1074	135828.	0.00
16.8000	-1.69E-07	0.3436	-0.2714	-4.24E-08	2.0255	2850053.	0.1148	135828.	0.00
17.0000	-1.75E-07	0.2916	-0.2480	-2.01E-08	1.7191	2850053.	0.1189	135828.	0.00
17.2000	-1.77E-07	0.2444	-0.2241	-1.28E-09	1.4407	2850053.	0.1203	135828.	0.00
17.4000	-1.76E-07	0.2020	-0.2001	1.44E-08	1.1907	2850053.	0.1193	135828.	0.00
17.6000	-1.71E-07	0.1644	-0.1766	2.72E-08	0.9688	2850053.	0.1164	135828.	0.00
17.8000	-1.65E-07	0.1314	-0.1538	3.76E-08	0.7743	2850053.	0.1119	135828.	0.00
18.0000	-1.56E-07	0.1028	-0.1320	4.58E-08	0.6063	2850053.	0.1062	135828.	0.00
18.2000	-1.46E-07	0.07858	-0.1114	5.22E-08	0.4632	2850053.	0.09944	135828.	0.00
18.4000	-1.35E-07	0.05829	-0.09226	5.70E-08	0.3436	2850053.	0.09197	135828.	0.00
18.6000	-1.24E-07	0.04168	-0.07466	6.05E-08	0.2457	2850053.	0.08395	135828.	0.00
18.8000	-1.11E-07	0.02842	-0.05871	6.30E-08	0.1675	2850053.	0.07553	135828.	0.00
19.0000	-9.84E-08	0.01819	-0.04448	6.46E-08	0.1072	2850053.	0.06685	135828.	0.00
19.2000	-8.54E-08	0.01063	-0.03199	6.56E-08	0.06268	2850053.	0.05799	135828.	0.00
19.4000	-7.22E-08	0.00539	-0.02129	6.62E-08	0.03180	2850053.	0.04902	135828.	0.00
19.6000	-5.89E-08	0.00212	-0.01239	6.64E-08	0.01248	2850053.	0.04001	135828.	0.00
19.8000	-4.56E-08	4.39E-04	-0.00529	6.65E-08	0.00259	2850053.	0.03097	135828.	0.00
20.0000	-3.23E-08	0.00	0.00	6.65E-08	0.00	2850053.	0.02194	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 4:

Pile-head deflection = 0.00168625 meters
Computed slope at pile head = -0.00055447 radians
Maximum bending moment = 362.04933493 kN-m
Maximum shear force = 225.00000000 kN
Depth of maximum bending moment = 2.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 10
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 5

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 250.000 kN
Applied moment at pile head = 0.000 kN-m

Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00196	2.78E-10	250.0000	-6.36E-04	1.64E-09	2850053.	0.00	0.00	0.00
0.2000	0.00184	50.0000	245.0163	-6.34E-04	294.7314	2850053.	-49.8366	5429.	0.00
0.4000	0.00171	98.0065	233.5614	-6.29E-04	577.7120	2850053.	-64.7126	7571.	0.00
0.6000	0.00158	143.4246	219.8298	-6.20E-04	845.4344	2850053.	-72.6033	9164.	0.00
0.8000	0.00146	185.9385	204.6073	-6.09E-04	1096.	2850053.	-79.6219	10896.	0.00
1.0000	0.00134	225.2675	188.0702	-5.94E-04	1328.	2850053.	-85.7489	12789.	0.00
1.2000	0.00122	261.1666	170.3985	-5.77E-04	1539.	2850053.	-90.9681	14867.	0.00
1.4000	0.00111	293.4269	151.7750	-5.58E-04	1730.	2850053.	-95.2668	17163.	0.00
1.6000	0.00100	321.8766	132.3849	-5.36E-04	1897.	2850053.	-98.6348	19714.	0.00
1.8000	8.96E-04	346.3808	112.4149	-5.13E-04	2042.	2850053.	-101.0647	22567.	0.00
2.0000	7.96E-04	366.8425	92.0534	-4.88E-04	2162.	2850053.	-102.5506	25779.	0.00
2.2000	7.01E-04	383.2022	71.4896	-4.61E-04	2259.	2850053.	-103.0877	29427.	0.00
2.4000	6.11E-04	395.4384	50.9137	-4.34E-04	2331.	2850053.	-102.6709	33604.	0.00
2.6000	5.27E-04	403.5677	30.5173	-4.06E-04	2379.	2850053.	-101.2931	38438.	0.00
2.8000	4.49E-04	407.6453	10.4937	-3.78E-04	2403.	2850053.	-98.9426	44104.	0.00
3.0000	3.76E-04	407.7652	-8.9604	-3.49E-04	2404.	2850053.	-95.5991	50846.	0.00
3.2000	3.09E-04	404.0611	-27.6431	-3.20E-04	2382.	2850053.	-91.2273	59025.	0.00
3.4000	2.48E-04	396.7079	-45.3424	-2.92E-04	2338.	2850053.	-85.7664	69203.	0.00
3.6000	1.92E-04	385.9241	-61.8301	-2.65E-04	2275.	2850053.	-79.1100	82326.	0.00
3.8000	1.42E-04	371.9759	-76.6049	-2.38E-04	2193.	2850053.	-68.6380	96725.	0.00
4.0000	9.69E-05	355.2822	-88.7283	-2.13E-04	2094.	2850053.	-52.5961	108579.	0.00
4.2000	5.68E-05	336.4846	-97.2271	-1.88E-04	1983.	2850053.	-32.3918	114008.	0.00
4.4000	2.15E-05	316.3913	-101.1897	-1.66E-04	1865.	2850053.	-7.2344	67330.	0.00
4.6000	-9.40E-06	296.0087	-101.3487	-1.44E-04	1745.	2850053.	5.6443	120032.	0.00
4.8000	-3.61E-05	275.8519	-99.8762	-1.24E-04	1626.	2850053.	9.0810	50249.	0.00
5.0000	-5.90E-05	256.0582	-97.8706	-1.05E-04	1509.	2850053.	10.9748	37195.	0.00
5.2000	-7.83E-05	236.7036	-95.5363	-8.81E-05	1395.	2850053.	12.3685	31598.	0.00
5.4000	-9.42E-05	217.8437	-92.9508	-7.21E-05	1284.	2850053.	13.4864	28622.	0.00
5.6000	-1.07E-04	199.5233	-90.1602	-5.75E-05	1176.	2850053.	14.4191	26918.	0.00
5.8000	-1.17E-04	181.7796	-87.1971	-4.41E-05	1072.	2850053.	15.2125	25954.	0.00
6.0000	-1.25E-04	164.6445	-84.0865	-3.19E-05	970.5178	2850053.	15.8937	25476.	0.00
6.2000	-1.30E-04	148.1450	-80.8491	-2.10E-05	873.2598	2850053.	16.4794	25352.	0.00
6.4000	-1.33E-04	132.3048	-77.5031	-1.11E-05	779.8875	2850053.	16.9812	25505.	0.00
6.6000	-1.34E-04	117.1438	-74.0643	-2.37E-06	690.5191	2850053.	17.4070	25893.	0.00
6.8000	-1.34E-04	102.6791	-70.5473	5.34E-06	605.2550	2850053.	17.7625	26490.	0.00
7.0000	-1.32E-04	88.9249	-66.9659	1.21E-05	524.1790	2850053.	18.0522	27286.	0.00
7.2000	-1.29E-04	75.8928	-63.3327	1.78E-05	447.3595	2850053.	18.2792	28278.	0.00
7.4000	-1.25E-04	63.5918	-59.6602	2.27E-05	374.8500	2850053.	18.4462	29472.	0.00

7.6000	-1.20E-04	52.0287	-55.9600	2.68E-05	306.6897	2850053.	18.5551	30878.	0.00
7.8000	-1.14E-04	41.2078	-52.2437	3.01E-05	242.9045	2850053.	18.6077	32514.	0.00
8.0000	-1.08E-04	31.1312	-48.5225	3.26E-05	183.5068	2850053.	18.6051	34404.	0.00
8.2000	-1.01E-04	21.7988	-44.8071	3.45E-05	128.4958	2850053.	18.5486	36579.	0.00
8.4000	-9.44E-05	13.2084	-41.1083	3.57E-05	77.8583	2850053.	18.4392	39078.	0.00
8.6000	-8.71E-05	5.3555	-37.4366	3.63E-05	31.5685	2850053.	18.2776	41950.	0.00
8.8000	-7.98E-05	-1.7663	-33.8024	3.65E-05	10.4117	2850053.	18.0647	45256.	0.00
9.0000	-7.26E-05	-8.1655	-29.9806	3.61E-05	48.1325	2850053.	20.1536	55557.	0.00
9.2000	-6.54E-05	-13.7585	-26.0183	3.54E-05	81.1015	2850053.	19.4689	59552.	0.00
9.4000	-5.84E-05	-18.5728	-22.1962	3.42E-05	109.4799	2850053.	18.7528	64210.	0.00
9.6000	-5.17E-05	-22.6370	-18.5201	3.28E-05	133.4367	2850053.	18.0075	69665.	0.00
9.8000	-4.53E-05	-25.9809	-14.9959	3.11E-05	153.1476	2850053.	17.2349	76089.	0.00
10.0000	-3.93E-05	-28.6354	-11.6287	2.91E-05	168.7948	2850053.	16.4366	83708.	0.00
10.2000	-3.36E-05	-30.6324	-8.4237	2.71E-05	180.5665	2850053.	15.6142	92825.	0.00
10.4000	-2.84E-05	-32.0048	-5.3854	2.49E-05	188.6565	2850053.	14.7688	103847.	0.00
10.6000	-2.37E-05	-32.7865	-2.5184	2.26E-05	193.2643	2850053.	13.9011	117342.	0.00
10.8000	-1.94E-05	-33.0122	0.1729	2.03E-05	194.5945	2850053.	13.0116	134115.	0.00
11.0000	-1.56E-05	-32.7174	2.6840	1.80E-05	192.8567	2850053.	12.0999	155354.	0.00
11.2000	-1.22E-05	-31.9386	5.0105	1.57E-05	188.2659	2850053.	11.1649	182881.	0.00
11.4000	-9.29E-06	-30.7131	7.1474	1.35E-05	181.0426	2850053.	10.2037	219645.	0.00
11.6000	-6.80E-06	-29.0796	9.0888	1.14E-05	171.4134	2850053.	9.2106	270773.	0.00
11.8000	-4.72E-06	-27.0776	10.8273	9.45E-06	159.6125	2850053.	8.1745	346130.	0.00
12.0000	-3.02E-06	-24.7487	12.3521	7.63E-06	145.8841	2850053.	7.0729	467845.	0.00
12.2000	-1.67E-06	-22.1368	13.6447	5.99E-06	130.4881	2850053.	5.8532	700479.	0.00
12.4000	-6.29E-07	-19.2908	14.2549	4.53E-06	113.7120	2850053.	0.2494	79233.	0.00
12.6000	1.42E-07	-16.4348	14.2743	3.28E-06	96.8771	2850053.	-0.05606	79233.	0.00
12.8000	6.82E-07	-13.5811	13.8573	2.23E-06	80.0554	2850053.	-4.1137	1206657.	0.00
13.0000	1.03E-06	-10.8919	12.8732	1.37E-06	64.2037	2850053.	-5.7276	1110494.	0.00
13.2000	1.23E-06	-8.4318	11.5769	6.88E-07	49.7024	2850053.	-7.2353	1178009.	0.00
13.4000	1.31E-06	-6.2612	10.1118	1.73E-07	36.9072	2850053.	-7.4157	1134849.	0.00
13.6000	1.30E-06	-4.3871	8.6280	-2.01E-07	25.8604	2850053.	-7.4219	1143993.	0.00
13.8000	1.23E-06	-2.8100	7.1551	-4.53E-07	16.5636	2850053.	-7.3069	1191405.	0.00
14.0000	1.12E-06	-1.5251	5.7139	-6.05E-07	8.9897	2850053.	-7.1049	1273022.	0.00
14.2000	9.84E-07	-0.5244	4.3194	-6.77E-07	3.0910	2850053.	-6.8406	1389728.	0.00
14.4000	8.45E-07	0.2027	2.9820	-6.89E-07	1.1948	2850053.	-6.5331	1545724.	0.00
14.6000	7.09E-07	0.6684	1.7089	-6.58E-07	3.9401	2850053.	-6.1978	1748266.	0.00
14.8000	5.82E-07	0.8862	0.5045	-6.03E-07	5.2241	2850053.	-5.8463	2008663.	0.00
15.0000	4.68E-07	0.8702	-0.1119	-5.42E-07	5.1296	2850053.	-0.3176	135828.	0.00
15.2000	3.65E-07	0.8415	-0.1685	-4.82E-07	4.9603	2850053.	-0.2481	135828.	0.00
15.4000	2.75E-07	0.8028	-0.2120	-4.24E-07	4.7324	2850053.	-0.1867	135828.	0.00
15.6000	1.96E-07	0.7567	-0.2439	-3.69E-07	4.4605	2850053.	-0.1329	135828.	0.00
15.8000	1.27E-07	0.7053	-0.2659	-3.18E-07	4.1573	2850053.	-0.08638	135828.	0.00
16.0000	6.85E-08	0.6504	-0.2791	-2.70E-07	3.8336	2850053.	-0.04654	135828.	0.00
16.2000	1.90E-08	0.5936	-0.2851	-2.27E-07	3.4991	2850053.	-0.01289	135828.	0.00

16.4000	-2.22E-08	0.5363	-0.2849	-1.87E-07	3.1614	2850053.	0.01509	135828.	0.00
16.6000	-5.59E-08	0.4797	-0.2796	-1.52E-07	2.8274	2850053.	0.03796	135828.	0.00
16.8000	-8.28E-08	0.4245	-0.2701	-1.20E-07	2.5023	2850053.	0.05626	135828.	0.00
17.0000	-1.04E-07	0.3716	-0.2575	-9.19E-08	2.1904	2850053.	0.07052	135828.	0.00
17.2000	-1.20E-07	0.3215	-0.2423	-6.76E-08	1.8952	2850053.	0.08123	135828.	0.00
17.4000	-1.31E-07	0.2747	-0.2253	-4.67E-08	1.6191	2850053.	0.08887	135828.	0.00
17.6000	-1.38E-07	0.2314	-0.2070	-2.89E-08	1.3640	2850053.	0.09390	135828.	0.00
17.8000	-1.42E-07	0.1919	-0.1879	-1.41E-08	1.1311	2850053.	0.09673	135828.	0.00
18.0000	-1.44E-07	0.1562	-0.1685	-1.84E-09	0.9209	2850053.	0.09772	135828.	0.00
18.2000	-1.43E-07	0.1245	-0.1490	8.01E-09	0.7338	2850053.	0.09723	135828.	0.00
18.4000	-1.41E-07	0.09663	-0.1297	1.58E-08	0.5696	2850053.	0.09555	135828.	0.00
18.6000	-1.37E-07	0.07259	-0.1109	2.17E-08	0.4279	2850053.	0.09294	135828.	0.00
18.8000	-1.32E-07	0.05228	-0.09262	2.61E-08	0.3081	2850053.	0.08965	135828.	0.00
19.0000	-1.26E-07	0.03555	-0.07506	2.92E-08	0.2095	2850053.	0.08586	135828.	0.00
19.2000	-1.20E-07	0.02225	-0.05831	3.12E-08	0.1312	2850053.	0.08173	135828.	0.00
19.4000	-1.14E-07	0.01222	-0.04239	3.24E-08	0.07205	2850053.	0.07738	135828.	0.00
19.6000	-1.07E-07	0.00529	-0.02736	3.30E-08	0.03120	2850053.	0.07292	135828.	0.00
19.8000	-1.01E-07	0.00128	-0.01323	3.32E-08	0.00753	2850053.	0.06841	135828.	0.00
20.0000	-9.41E-08	0.00	0.00	3.33E-08	0.00	2850053.	0.06389	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 5:

Pile-head deflection = 0.00196309 meters
Computed slope at pile head = -0.00063564 radians
Maximum bending moment = 407.76517402 kN-m
Maximum shear force = 250.00000000 kN
Depth of maximum bending moment = 3.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 11
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 6

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 275.000 kN

Applied moment at pile head = 0.000 kN-m

Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00225	9.27E-11	275.0000	-7.19E-04	5.46E-10	2850053.	0.00	0.00	0.00
0.2000	0.00211	55.0000	269.2741	-7.17E-04	324.2045	2850053.	-57.2588	5429.	0.00
0.4000	0.00197	107.7096	256.6079	-7.12E-04	634.9083	2850053.	-69.4039	7059.	0.00
0.6000	0.00182	157.6431	241.8759	-7.02E-04	929.2476	2850053.	-77.9156	8540.	0.00
0.8000	0.00169	204.4600	225.5336	-6.89E-04	1205.	2850053.	-85.5078	10147.	0.00
1.0000	0.00155	247.8566	207.7668	-6.74E-04	1461.	2850053.	-92.1599	11899.	0.00
1.2000	0.00142	287.5667	188.7653	-6.55E-04	1695.	2850053.	-97.8549	13821.	0.00
1.4000	0.00129	323.3627	168.7220	-6.33E-04	1906.	2850053.	-102.5787	15940.	0.00
1.6000	0.00116	355.0555	147.8320	-6.10E-04	2093.	2850053.	-106.3207	18289.	0.00
1.8000	0.00104	382.4955	126.2927	-5.84E-04	2255.	2850053.	-109.0724	20911.	0.00
2.0000	9.29E-04	405.5726	104.3027	-5.56E-04	2391.	2850053.	-110.8274	23855.	0.00
2.2000	8.21E-04	424.2166	82.0620	-5.27E-04	2501.	2850053.	-111.5802	27188.	0.00
2.4000	7.18E-04	438.3974	59.7714	-4.97E-04	2584.	2850053.	-111.3253	30993.	0.00
2.6000	6.22E-04	448.1252	37.6333	-4.66E-04	2642.	2850053.	-110.0553	35380.	0.00
2.8000	5.32E-04	453.4507	15.8520	-4.34E-04	2673.	2850053.	-107.7585	40499.	0.00
3.0000	4.49E-04	454.4659	-5.3654	-4.02E-04	2679.	2850053.	-104.4151	46557.	0.00
3.2000	3.71E-04	451.3046	-25.8060	-3.70E-04	2660.	2850053.	-99.9910	53857.	0.00
3.4000	3.00E-04	444.1435	-45.2480	-3.39E-04	2618.	2850053.	-94.4285	62863.	0.00
3.6000	2.36E-04	433.2054	-63.4536	-3.08E-04	2554.	2850053.	-87.6281	74335.	0.00
3.8000	1.77E-04	418.7621	-79.8864	-2.78E-04	2468.	2850053.	-76.7001	86576.	0.00
4.0000	1.24E-04	401.2508	-93.9856	-2.49E-04	2365.	2850053.	-64.2920	103295.	0.00
4.2000	7.74E-05	381.1678	-104.8275	-2.22E-04	2247.	2850053.	-44.1271	114008.	0.00
4.4000	3.57E-05	359.3198	-110.0975	-1.96E-04	2118.	2850053.	-8.5726	48041.	0.00
4.6000	-9.91E-07	337.1288	-110.6944	-1.72E-04	1987.	2850053.	2.6032	525538.	0.00
4.8000	-3.29E-05	315.0420	-109.5543	-1.49E-04	1857.	2850053.	8.7981	53422.	0.00
5.0000	-6.05E-05	293.3071	-107.5685	-1.27E-04	1729.	2850053.	11.0600	36584.	0.00
5.2000	-8.39E-05	272.0146	-105.1972	-1.08E-04	1603.	2850053.	12.6527	30171.	0.00
5.4000	-1.03E-04	251.2282	-102.5409	-8.91E-05	1481.	2850053.	13.9101	26888.	0.00
5.6000	-1.20E-04	230.9982	-99.6547	-7.22E-05	1362.	2850053.	14.9526	25019.	0.00
5.8000	-1.32E-04	211.3664	-96.5756	-5.67E-05	1246.	2850053.	15.8382	23933.	0.00
6.0000	-1.42E-04	192.3680	-93.3318	-4.25E-05	1134.	2850053.	16.5999	23345.	0.00
6.2000	-1.49E-04	174.0337	-89.9460	-2.97E-05	1026.	2850053.	17.2579	23107.	0.00
6.4000	-1.54E-04	156.3896	-86.4376	-1.81E-05	921.8585	2850053.	17.8257	23137.	0.00
6.6000	-1.57E-04	139.4586	-82.8238	-7.71E-06	822.0565	2850053.	18.3126	23387.	0.00
6.8000	-1.57E-04	123.2601	-79.1200	1.51E-06	726.5724	2850053.	18.7252	23828.	0.00
7.0000	-1.56E-04	107.8106	-75.3406	9.62E-06	635.5033	2850053.	19.0685	24447.	0.00
7.2000	-1.53E-04	93.1238	-71.4992	1.67E-05	548.9304	2850053.	19.3463	25236.	0.00

7.4000	-1.49E-04	79.2109	-67.6084	2.27E-05	466.9190	2850053.	19.5613	26198.	0.00
7.6000	-1.44E-04	66.0805	-63.6807	2.78E-05	389.5199	2850053.	19.7160	27339.	0.00
7.8000	-1.38E-04	53.7387	-59.7278	3.20E-05	316.7695	2850053.	19.8122	28670.	0.00
8.0000	-1.31E-04	42.1894	-55.7615	3.54E-05	248.6905	2850053.	19.8512	30208.	0.00
8.2000	-1.24E-04	31.4341	-51.7929	3.80E-05	185.2922	2850053.	19.8344	31976.	0.00
8.4000	-1.16E-04	21.4722	-47.8332	3.98E-05	126.5705	2850053.	19.7629	34003.	0.00
8.6000	-1.08E-04	12.3008	-43.8932	4.10E-05	72.5086	2850053.	19.6375	36323.	0.00
8.8000	-9.98E-05	3.9149	-39.9835	4.16E-05	23.0770	2850053.	19.4592	38981.	0.00
9.0000	-9.15E-05	-3.6926	-35.8606	4.16E-05	21.7665	2850053.	21.7697	47585.	0.00
9.2000	-8.32E-05	-10.4293	-31.5743	4.11E-05	61.4770	2850053.	21.0929	50700.	0.00
9.4000	-7.51E-05	-16.3223	-27.4268	4.01E-05	96.2141	2850053.	20.3828	54309.	0.00
9.6000	-6.71E-05	-21.4000	-23.4243	3.88E-05	126.1452	2850053.	19.6416	58504.	0.00
9.8000	-5.95E-05	-25.6921	-19.5730	3.72E-05	151.4451	2850053.	18.8714	63400.	0.00
10.0000	-5.23E-05	-29.2292	-15.8785	3.52E-05	172.2955	2850053.	18.0740	69147.	0.00
10.2000	-4.54E-05	-32.0435	-12.3460	3.31E-05	188.8842	2850053.	17.2509	75941.	0.00
10.4000	-3.90E-05	-34.1676	-8.9805	3.08E-05	201.4055	2850053.	16.4036	84039.	0.00
10.6000	-3.31E-05	-35.6357	-5.7869	2.83E-05	210.0590	2850053.	15.5331	93790.	0.00
10.8000	-2.77E-05	-36.4824	-2.7696	2.58E-05	215.0501	2850053.	14.6401	105674.	0.00
11.0000	-2.28E-05	-36.7435	0.06695	2.32E-05	216.5893	2850053.	13.7250	120367.	0.00
11.2000	-1.84E-05	-36.4556	2.7182	2.07E-05	214.8923	2850053.	12.7875	138858.	0.00
11.4000	-1.45E-05	-35.6562	5.1796	1.81E-05	210.1802	2850053.	11.8262	162644.	0.00
11.6000	-1.12E-05	-34.3838	7.4461	1.57E-05	202.6796	2850053.	10.8387	194112.	0.00
11.8000	-8.27E-06	-32.6778	9.5119	1.33E-05	192.6235	2850053.	9.8194	237329.	0.00
12.0000	-5.84E-06	-30.5790	11.3696	1.11E-05	180.2521	2850053.	8.7584	299893.	0.00
12.2000	-3.84E-06	-28.1299	13.0091	9.04E-06	165.8156	2850053.	7.6357	398076.	0.00
12.4000	-2.23E-06	-25.3754	14.4133	7.16E-06	149.5787	2850053.	6.4069	575541.	0.00
12.6000	-9.73E-07	-22.3646	15.5488	5.48E-06	131.8311	2850053.	4.9478	1017411.	0.00
12.8000	-3.27E-08	-19.1559	16.0449	4.03E-06	112.9169	2850053.	0.01297	79233.	0.00
13.0000	6.38E-07	-15.9467	15.5680	2.80E-06	93.9997	2850053.	-4.7816	1498216.	0.00
13.2000	1.09E-06	-12.9287	14.4013	1.78E-06	76.2099	2850053.	-6.8854	1268568.	0.00
13.4000	1.35E-06	-10.1861	12.9675	9.72E-07	60.0435	2850053.	-7.4528	1103037.	0.00
13.6000	1.47E-06	-7.7417	11.4526	3.42E-07	45.6344	2850053.	-7.6965	1044204.	0.00
13.8000	1.49E-06	-5.6051	9.9092	-1.26E-07	33.0401	2850053.	-7.7368	1039674.	0.00
14.0000	1.42E-06	-3.7780	8.3721	-4.55E-07	22.2699	2850053.	-7.6348	1072448.	0.00
14.2000	1.31E-06	-2.2563	6.8658	-6.67E-07	13.3000	2850053.	-7.4280	1137276.	0.00
14.4000	1.16E-06	-1.0317	5.4088	-7.82E-07	6.0814	2850053.	-7.1422	1234507.	0.00
14.6000	9.93E-07	-0.09278	4.0149	-8.22E-07	0.5469	2850053.	-6.7966	1368319.	0.00
14.8000	8.28E-07	0.5743	2.6946	-8.05E-07	3.3851	2850053.	-6.4065	1546605.	0.00
15.0000	6.72E-07	0.9850	1.4555	-7.50E-07	5.8065	2850053.	-5.9838	1782086.	0.00
15.2000	5.28E-07	1.1565	0.3035	-6.75E-07	6.8170	2850053.	-5.5369	2095484.	0.00
15.4000	4.02E-07	1.1064	-0.2775	-5.95E-07	6.5220	2850053.	-0.2727	135828.	0.00
15.6000	2.90E-07	1.0455	-0.3245	-5.20E-07	6.1627	2850053.	-0.1971	135828.	0.00
15.8000	1.94E-07	0.9766	-0.3573	-4.49E-07	5.7570	2850053.	-0.1315	135828.	0.00
16.0000	1.11E-07	0.9025	-0.3780	-3.83E-07	5.3202	2850053.	-0.07516	135828.	0.00

16.2000	4.04E-08	0.8254	-0.3883	-3.22E-07	4.8657	2850053.	-0.02743	135828.	0.00
16.4000	-1.83E-08	0.7472	-0.3898	-2.67E-07	4.4047	2850053.	0.01243	135828.	0.00
16.6000	-6.65E-08	0.6695	-0.3840	-2.18E-07	3.9467	2850053.	0.04517	135828.	0.00
16.8000	-1.05E-07	0.5936	-0.3723	-1.73E-07	3.4993	2850053.	0.07152	135828.	0.00
17.0000	-1.36E-07	0.5206	-0.3560	-1.34E-07	3.0688	2850053.	0.09222	135828.	0.00
17.2000	-1.59E-07	0.4513	-0.3359	-1.00E-07	2.6600	2850053.	0.1080	135828.	0.00
17.4000	-1.76E-07	0.3862	-0.3132	-7.06E-08	2.2767	2850053.	0.1194	135828.	0.00
17.6000	-1.87E-07	0.3260	-0.2886	-4.57E-08	1.9215	2850053.	0.1272	135828.	0.00
17.8000	-1.94E-07	0.2708	-0.2627	-2.47E-08	1.5963	2850053.	0.1318	135828.	0.00
18.0000	-1.97E-07	0.2209	-0.2361	-7.46E-09	1.3022	2850053.	0.1339	135828.	0.00
18.2000	-1.97E-07	0.1764	-0.2093	6.48E-09	1.0396	2850053.	0.1338	135828.	0.00
18.4000	-1.95E-07	0.1372	-0.1827	1.75E-08	0.8086	2850053.	0.1321	135828.	0.00
18.6000	-1.90E-07	0.1033	-0.1566	2.59E-08	0.6088	2850053.	0.1291	135828.	0.00
18.8000	-1.84E-07	0.07454	-0.1312	3.22E-08	0.4394	2850053.	0.1251	135828.	0.00
19.0000	-1.77E-07	0.05080	-0.1067	3.66E-08	0.2995	2850053.	0.1203	135828.	0.00
19.2000	-1.70E-07	0.03188	-0.08311	3.95E-08	0.1879	2850053.	0.1151	135828.	0.00
19.4000	-1.61E-07	0.01756	-0.06063	4.12E-08	0.1035	2850053.	0.1096	135828.	0.00
19.6000	-1.53E-07	0.00762	-0.03928	4.21E-08	0.04494	2850053.	0.1039	135828.	0.00
19.8000	-1.45E-07	0.00185	-0.01906	4.24E-08	0.01090	2850053.	0.09819	135828.	0.00
20.0000	-1.36E-07	0.00	0.00	4.25E-08	0.00	2850053.	0.09242	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 6:

Pile-head deflection = 0.00225322 meters
Computed slope at pile head = -0.00071914 radians
Maximum bending moment = 454.46594457 kN-m
Maximum shear force = 275.00000000 kN
Depth of maximum bending moment = 3.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 11
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 7

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 300.000 kN

Applied moment at pile head = 0.000 kN-m

Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00256	-5.87E-10	300.0000	-8.06E-04	3.46E-09	2850053.	0.00	0.00	0.00
0.2000	0.00240	60.0000	293.6099	-8.04E-04	353.6777	2850053.	-63.9014	5331.	0.00
0.4000	0.00224	117.4439	279.8171	-7.97E-04	692.2883	2850053.	-74.0261	6618.	0.00
0.6000	0.00208	171.9268	264.0993	-7.87E-04	1013.	2850053.	-83.1519	8002.	0.00
0.8000	0.00192	223.0837	246.6529	-7.73E-04	1315.	2850053.	-91.3122	9501.	0.00
1.0000	0.00177	270.5880	227.6732	-7.56E-04	1595.	2850053.	-98.4853	11135.	0.00
1.2000	0.00162	314.1529	207.3593	-7.36E-04	1852.	2850053.	-104.6531	12923.	0.00
1.4000	0.00147	353.5317	185.9139	-7.12E-04	2084.	2850053.	-109.8009	14891.	0.00
1.6000	0.00133	388.5185	163.5421	-6.86E-04	2290.	2850053.	-113.9169	17069.	0.00
1.8000	0.00120	418.9486	140.4512	-6.58E-04	2470.	2850053.	-116.9919	19494.	0.00
2.0000	0.00107	444.6990	116.8502	-6.28E-04	2621.	2850053.	-119.0188	22212.	0.00
2.2000	9.49E-04	465.6887	92.9491	-5.96E-04	2745.	2850053.	-119.9915	25281.	0.00
2.4000	8.33E-04	481.8787	68.9596	-5.62E-04	2840.	2850053.	-119.9038	28774.	0.00
2.6000	7.24E-04	493.2725	45.0944	-5.28E-04	2908.	2850053.	-118.7479	32788.	0.00
2.8000	6.22E-04	499.9164	21.5685	-4.93E-04	2947.	2850053.	-116.5120	37453.	0.00
3.0000	5.27E-04	501.8999	-1.4004	-4.58E-04	2959.	2850053.	-113.1762	42949.	0.00
3.2000	4.39E-04	499.3563	-23.5887	-4.23E-04	2944.	2850053.	-108.7074	49533.	0.00
3.4000	3.58E-04	492.4644	-44.7645	-3.88E-04	2903.	2850053.	-103.0499	57597.	0.00
3.6000	2.84E-04	481.4505	-64.6803	-3.54E-04	2838.	2850053.	-96.1088	67766.	0.00
3.8000	2.16E-04	466.5923	-82.7634	-3.21E-04	2750.	2850053.	-84.7220	78365.	0.00
4.0000	1.55E-04	448.3451	-98.4170	-2.89E-04	2643.	2850053.	-71.8136	92455.	0.00
4.2000	1.01E-04	427.2255	-111.3423	-2.58E-04	2518.	2850053.	-57.4398	114008.	0.00
4.4000	5.22E-05	403.8082	-118.0588	-2.29E-04	2380.	2850053.	-9.7250	37277.	0.00
4.6000	9.26E-06	380.0020	-119.5936	-2.01E-04	2240.	2850053.	-5.6231	121495.	0.00
4.8000	-2.83E-05	355.9708	-119.3190	-1.75E-04	2098.	2850053.	8.3687	59079.	0.00
5.0000	-6.09E-05	332.2744	-117.3732	-1.51E-04	1959.	2850053.	11.0891	36404.	0.00
5.2000	-8.88E-05	309.0215	-114.9744	-1.29E-04	1822.	2850053.	12.8990	29035.	0.00
5.4000	-1.12E-04	286.2846	-112.2544	-1.08E-04	1688.	2850053.	14.3017	25439.	0.00
5.6000	-1.32E-04	264.1197	-109.2786	-8.86E-05	1557.	2850053.	15.4561	23416.	0.00
5.8000	-1.48E-04	242.5731	-106.0895	-7.08E-05	1430.	2850053.	16.4347	22227.	0.00
6.0000	-1.60E-04	221.6839	-102.7184	-5.45E-05	1307.	2850053.	17.2770	21550.	0.00
6.2000	-1.70E-04	201.4858	-99.1900	-3.97E-05	1188.	2850053.	18.0070	21223.	0.00
6.4000	-1.76E-04	182.0080	-95.5252	-2.62E-05	1073.	2850053.	18.6404	21157.	0.00
6.6000	-1.80E-04	163.2757	-91.7424	-1.41E-05	962.4495	2850053.	19.1880	21299.	0.00
6.8000	-1.82E-04	145.3110	-87.8579	-3.28E-06	856.5542	2850053.	19.6572	21618.	0.00
7.0000	-1.81E-04	128.1326	-83.8867	6.31E-06	755.2938	2850053.	20.0538	22099.	0.00

7.2000	-1.79E-04	111.7563	-79.8432	1.47E-05	658.7618	2850053.	20.3820	22731.	0.00
7.4000	-1.76E-04	96.1953	-75.7405	2.20E-05	567.0355	2850053.	20.6450	23513.	0.00
7.6000	-1.71E-04	81.4601	-71.5914	2.83E-05	480.1770	2850053.	20.8453	24449.	0.00
7.8000	-1.64E-04	67.5587	-67.4084	3.35E-05	398.2336	2850053.	20.9851	25545.	0.00
8.0000	-1.57E-04	54.4968	-63.2033	3.78E-05	321.2381	2850053.	21.0659	26814.	0.00
8.2000	-1.49E-04	42.2774	-58.9878	4.12E-05	249.2096	2850053.	21.0891	28271.	0.00
8.4000	-1.41E-04	30.9016	-54.7733	4.37E-05	182.1536	2850053.	21.0560	29938.	0.00
8.6000	-1.32E-04	20.3681	-50.5709	4.55E-05	120.0623	2850053.	20.9675	31842.	0.00
8.8000	-1.22E-04	10.6733	-46.3917	4.66E-05	62.9149	2850053.	20.8245	34013.	0.00
9.0000	-1.13E-04	1.8114	-41.9739	4.71E-05	10.6775	2850053.	23.3540	41316.	0.00
9.2000	-1.04E-04	-6.1163	-37.3698	4.69E-05	36.0533	2850053.	22.6871	43787.	0.00
9.4000	-9.43E-05	-13.1365	-32.9025	4.62E-05	77.4348	2850053.	21.9852	46635.	0.00
9.6000	-8.51E-05	-19.2773	-28.5789	4.51E-05	113.6326	2850053.	21.2506	49923.	0.00
9.8000	-7.62E-05	-24.5681	-24.4053	4.36E-05	144.8197	2850053.	20.4855	53733.	0.00
10.0000	-6.77E-05	-29.0394	-20.3876	4.17E-05	171.1767	2850053.	19.6919	58165.	0.00
10.2000	-5.96E-05	-32.7231	-16.5312	3.95E-05	192.8906	2850053.	18.8715	63350.	0.00
10.4000	-5.19E-05	-35.6519	-12.8415	3.71E-05	210.1549	2850053.	18.0259	69455.	0.00
10.6000	-4.47E-05	-37.8597	-9.3233	3.45E-05	223.1690	2850053.	17.1565	76702.	0.00
10.8000	-3.81E-05	-39.3812	-5.9812	3.18E-05	232.1378	2850053.	16.2642	85388.	0.00
11.0000	-3.20E-05	-40.2522	-2.8198	2.90E-05	237.2717	2850053.	15.3500	95916.	0.00
11.2000	-2.65E-05	-40.5092	0.1567	2.62E-05	238.7864	2850053.	14.4143	108850.	0.00
11.4000	-2.15E-05	-40.1895	2.9438	2.34E-05	236.9023	2850053.	13.4568	125002.	0.00
11.6000	-1.71E-05	-39.3316	5.5371	2.06E-05	231.8454	2850053.	12.4766	145582.	0.00
11.8000	-1.33E-05	-37.9747	7.9319	1.79E-05	223.8466	2850053.	11.4716	172476.	0.00
12.0000	-1.00E-05	-36.1589	10.1228	1.53E-05	213.1431	2850053.	10.4375	208808.	0.00
12.2000	-7.20E-06	-33.9255	12.1032	1.28E-05	199.9785	2850053.	9.3659	260180.	0.00
12.4000	-4.88E-06	-31.3176	13.8639	1.05E-05	184.6056	2850053.	8.2410	337880.	0.00
12.6000	-3.00E-06	-28.3800	15.3909	8.41E-06	167.2895	2850053.	7.0290	469212.	0.00
12.8000	-1.51E-06	-25.1612	16.6582	6.54E-06	148.3162	2850053.	5.6446	746418.	0.00
13.0000	-3.82E-07	-21.7167	17.2425	4.89E-06	128.0119	2850053.	0.1976	103488.	0.00
13.2000	4.44E-07	-18.2643	16.7676	3.49E-06	107.6610	2850053.	-4.9467	2229436.	0.00
13.4000	1.01E-06	-15.0097	15.6016	2.32E-06	88.4765	2850053.	-6.7124	1325060.	0.00
13.6000	1.37E-06	-12.0236	14.1830	1.37E-06	70.8746	2850053.	-7.4742	1089639.	0.00
13.8000	1.56E-06	-9.3365	12.6532	6.22E-07	55.0351	2850053.	-7.8231	1001773.	0.00
14.0000	1.62E-06	-6.9623	11.0783	5.04E-08	41.0402	2850053.	-7.9267	978130.	0.00
14.2000	1.58E-06	-4.9052	9.4994	-3.66E-07	28.9142	2850053.	-7.8622	993943.	0.00
14.4000	1.47E-06	-3.1626	7.9458	-6.49E-07	18.6421	2850053.	-7.6733	1040880.	0.00
14.6000	1.32E-06	-1.7269	6.4396	-8.21E-07	10.1792	2850053.	-7.3887	1117475.	0.00
14.8000	1.15E-06	-0.5867	4.9979	-9.02E-07	3.4584	2850053.	-7.0282	1226409.	0.00
15.0000	9.62E-07	0.2723	3.6344	-9.13E-07	1.6052	2850053.	-6.6069	1374032.	0.00
15.2000	7.81E-07	0.8671	2.3602	-8.73E-07	5.1110	2850053.	-6.1356	1571178.	0.00
15.4000	6.13E-07	1.2164	1.1844	-8.00E-07	7.1701	2850053.	-5.6219	1835597.	0.00
15.6000	4.61E-07	1.3408	0.1155	-7.10E-07	7.9037	2850053.	-5.0675	2197880.	0.00
15.8000	3.29E-07	1.2626	-0.4136	-6.19E-07	7.4424	2850053.	-0.2231	135828.	0.00

16.0000	2.14E-07	1.1754	-0.4504	-5.33E-07	6.9286	2850053.	-0.1451	135828.	0.00
16.2000	1.15E-07	1.0824	-0.4727	-4.54E-07	6.3805	2850053.	-0.07829	135828.	0.00
16.4000	3.21E-08	0.9863	-0.4828	-3.81E-07	5.8139	2850053.	-0.02180	135828.	0.00
16.6000	-3.72E-08	0.8893	-0.4824	-3.16E-07	5.2422	2850053.	0.02529	135828.	0.00
16.8000	-9.41E-08	0.7933	-0.4735	-2.56E-07	4.6765	2850053.	0.06391	135828.	0.00
17.0000	-1.40E-07	0.6999	-0.4576	-2.04E-07	4.1258	2850053.	0.09497	135828.	0.00
17.2000	-1.76E-07	0.6103	-0.4362	-1.58E-07	3.5975	2850053.	0.1193	135828.	0.00
17.4000	-2.03E-07	0.5255	-0.4104	-1.18E-07	3.0974	2850053.	0.1379	135828.	0.00
17.6000	-2.23E-07	0.4461	-0.3815	-8.42E-08	2.6298	2850053.	0.1515	135828.	0.00
17.8000	-2.37E-07	0.3729	-0.3503	-5.54E-08	2.1979	2850053.	0.1608	135828.	0.00
18.0000	-2.45E-07	0.3060	-0.3175	-3.16E-08	1.8039	2850053.	0.1665	135828.	0.00
18.2000	-2.49E-07	0.2458	-0.2840	-1.22E-08	1.4492	2850053.	0.1694	135828.	0.00
18.4000	-2.50E-07	0.1924	-0.2500	3.14E-09	1.1344	2850053.	0.1699	135828.	0.00
18.6000	-2.48E-07	0.1458	-0.2162	1.50E-08	0.8596	2850053.	0.1685	135828.	0.00
18.8000	-2.44E-07	0.1060	-0.1828	2.38E-08	0.6246	2850053.	0.1658	135828.	0.00
19.0000	-2.39E-07	0.07273	-0.1500	3.01E-08	0.4287	2850053.	0.1620	135828.	0.00
19.2000	-2.32E-07	0.04597	-0.1180	3.43E-08	0.2710	2850053.	0.1576	135828.	0.00
19.4000	-2.25E-07	0.02552	-0.08698	3.68E-08	0.1504	2850053.	0.1527	135828.	0.00
19.6000	-2.17E-07	0.01118	-0.05695	3.81E-08	0.06591	2850053.	0.1476	135828.	0.00
19.8000	-2.10E-07	0.00274	-0.02795	3.86E-08	0.01617	2850053.	0.1424	135828.	0.00
20.0000	-2.02E-07	0.00	0.00	3.87E-08	0.00	2850053.	0.1371	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 7:

Pile-head deflection = 0.00255853 meters
Computed slope at pile head = -0.00080580 radians
Maximum bending moment = 501.89988292 kN-m
Maximum shear force = 300.00000000 kN
Depth of maximum bending moment = 3.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 12
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 8

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 325.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00289	-4.33E-10	325.0000	-8.97E-04	2.55E-09	2850053.	0.00	0.00	0.00
0.2000	0.00271	65.0000	318.3185	-8.94E-04	383.1508	2850053.	-66.8145	4932.	0.00
0.4000	0.00253	127.3274	303.7634	-8.88E-04	750.5477	2850053.	-78.7366	6222.	0.00
0.6000	0.00235	186.5054	287.0401	-8.77E-04	1099.	2850053.	-88.4969	7518.	0.00
0.8000	0.00218	242.1435	268.4656	-8.62E-04	1427.	2850053.	-97.2480	8921.	0.00
1.0000	0.00201	293.8916	248.2441	-8.43E-04	1732.	2850053.	-104.9672	10447.	0.00
1.2000	0.00184	341.4411	226.5838	-8.21E-04	2013.	2850053.	-111.6358	12114.	0.00
1.4000	0.00168	384.5251	203.6964	-7.95E-04	2267.	2850053.	-117.2384	13946.	0.00
1.6000	0.00153	422.9196	179.7962	-7.67E-04	2493.	2850053.	-121.7629	15969.	0.00
1.8000	0.00137	456.4436	155.0999	-7.36E-04	2691.	2850053.	-125.1998	18216.	0.00
2.0000	0.00123	484.9596	129.8258	-7.03E-04	2859.	2850053.	-127.5418	20727.	0.00
2.2000	0.00109	508.3739	104.1933	-6.68E-04	2997.	2850053.	-128.7829	23555.	0.00
2.4000	9.63E-04	526.6369	78.4233	-6.32E-04	3104.	2850053.	-128.9175	26762.	0.00
2.6000	8.41E-04	539.7432	52.7377	-5.94E-04	3182.	2850053.	-127.9385	30432.	0.00
2.8000	7.26E-04	547.7320	27.3603	-5.56E-04	3229.	2850053.	-125.8354	34678.	0.00
3.0000	6.18E-04	550.6874	2.5177	-5.18E-04	3246.	2850053.	-122.5906	39650.	0.00
3.2000	5.19E-04	548.7391	-21.5588	-4.79E-04	3235.	2850053.	-118.1746	45565.	0.00
3.4000	4.27E-04	542.0638	-44.6301	-4.41E-04	3195.	2850053.	-112.5380	52741.	0.00
3.6000	3.42E-04	530.8870	-66.4436	-4.03E-04	3129.	2850053.	-105.5968	61677.	0.00
3.8000	2.66E-04	515.4864	-86.3918	-3.66E-04	3039.	2850053.	-93.8859	70717.	0.00
4.0000	1.96E-04	496.3303	-103.8443	-3.31E-04	2926.	2850053.	-80.6388	82339.	0.00
4.2000	1.33E-04	473.9487	-118.5579	-2.97E-04	2794.	2850053.	-66.4969	99861.	0.00
4.4000	7.71E-05	448.9072	-126.3155	-2.64E-04	2646.	2850053.	-11.0795	28726.	0.00
4.6000	2.74E-05	423.4225	-128.2305	-2.34E-04	2496.	2850053.	-8.0702	58902.	0.00
4.8000	-1.64E-05	397.6150	-128.3410	-2.05E-04	2344.	2850053.	6.9647	84967.	0.00
5.0000	-5.46E-05	372.0861	-126.5757	-1.78E-04	2193.	2850053.	10.6883	39145.	0.00
5.2000	-8.76E-05	346.9847	-124.2233	-1.53E-04	2045.	2850053.	12.8355	29304.	0.00
5.4000	-1.16E-04	322.3967	-121.4961	-1.29E-04	1900.	2850053.	14.4371	24950.	0.00
5.6000	-1.39E-04	298.3862	-118.4790	-1.08E-04	1759.	2850053.	15.7338	22586.	0.00
5.8000	-1.59E-04	275.0051	-115.2232	-8.74E-05	1621.	2850053.	16.8248	21199.	0.00
6.0000	-1.74E-04	252.2970	-111.7645	-6.89E-05	1487.	2850053.	17.7614	20382.	0.00
6.2000	-1.86E-04	230.2993	-108.1311	-5.20E-05	1358.	2850053.	18.5735	19940.	0.00
6.4000	-1.95E-04	209.0446	-104.3457	-3.66E-05	1232.	2850053.	19.2802	19767.	0.00
6.6000	-2.01E-04	188.5610	-100.4282	-2.26E-05	1111.	2850053.	19.8944	19803.	0.00
6.8000	-2.04E-04	168.8733	-96.3963	-1.01E-05	995.4451	2850053.	20.4252	20013.	0.00

7.0000	-2.05E-04	150.0025	-92.2658	1.13E-06	884.2090	2850053.	20.8791	20375.	0.00
7.2000	-2.04E-04	131.9669	-88.0518	1.10E-05	777.8960	2850053.	21.2611	20878.	0.00
7.4000	-2.01E-04	114.7818	-83.7682	1.97E-05	676.5960	2850053.	21.5748	21517.	0.00
7.6000	-1.96E-04	98.4597	-79.4284	2.72E-05	580.3830	2850053.	21.8233	22292.	0.00
7.8000	-1.90E-04	83.0104	-75.0452	3.35E-05	489.3156	2850053.	22.0088	23207.	0.00
8.0000	-1.82E-04	68.4416	-70.6310	3.88E-05	403.4376	2850053.	22.1332	24271.	0.00
8.2000	-1.74E-04	54.7580	-66.1979	4.32E-05	322.7783	2850053.	22.1980	25495.	0.00
8.4000	-1.65E-04	41.9624	-61.7576	4.66E-05	247.3529	2850053.	22.2045	26895.	0.00
8.6000	-1.56E-04	30.0550	-57.3218	4.91E-05	177.1630	2850053.	22.1539	28491.	0.00
8.8000	-1.45E-04	19.0337	-52.9017	5.08E-05	112.1967	2850053.	22.0470	30308.	0.00
9.0000	-1.35E-04	8.8943	-48.2193	5.18E-05	52.4287	2850053.	24.7769	36654.	0.00
9.2000	-1.25E-04	-0.2540	-43.3293	5.21E-05	1.4972	2850053.	24.1227	38667.	0.00
9.4000	-1.14E-04	-8.4374	-38.5739	5.18E-05	49.7353	2850053.	23.4311	40979.	0.00
9.6000	-1.04E-04	-15.6836	-33.9604	5.09E-05	92.4488	2850053.	22.7045	43638.	0.00
9.8000	-9.40E-05	-22.0216	-29.4954	4.96E-05	129.8089	2850053.	21.9452	46701.	0.00
10.0000	-8.42E-05	-27.4817	-25.1854	4.79E-05	161.9946	2850053.	21.1552	50242.	0.00
10.2000	-7.48E-05	-32.0957	-21.0362	4.58E-05	189.1922	2850053.	20.3362	54353.	0.00
10.4000	-6.59E-05	-35.8962	-17.0536	4.34E-05	211.5948	2850053.	19.4898	59151.	0.00
10.6000	-5.75E-05	-38.9171	-13.2429	4.08E-05	229.4021	2850053.	18.6172	64789.	0.00
10.8000	-4.96E-05	-41.1934	-9.6093	3.80E-05	242.8197	2850053.	17.7194	71467.	0.00
11.0000	-4.23E-05	-42.7608	-6.1576	3.50E-05	252.0593	2850053.	16.7971	79449.	0.00
11.2000	-3.56E-05	-43.6564	-2.8928	3.20E-05	257.3384	2850053.	15.8506	89098.	0.00
11.4000	-2.95E-05	-43.9180	0.1802	2.89E-05	258.8801	2850053.	14.8795	100916.	0.00
11.6000	-2.40E-05	-43.5844	3.0564	2.58E-05	256.9135	2850053.	13.8828	115623.	0.00
11.8000	-1.92E-05	-42.6954	5.7305	2.28E-05	251.6736	2850053.	12.8581	134283.	0.00
12.0000	-1.49E-05	-41.2922	8.1965	1.99E-05	243.4019	2850053.	11.8014	158547.	0.00
12.2000	-1.12E-05	-39.4168	10.4471	1.70E-05	232.3476	2850053.	10.7052	191121.	0.00
12.4000	-8.07E-06	-37.1133	12.4733	1.44E-05	218.7691	2850053.	9.5563	236793.	0.00
12.6000	-5.46E-06	-34.4275	14.2618	1.18E-05	202.9375	2850053.	8.3292	305034.	0.00
12.8000	-3.33E-06	-31.4086	15.7916	9.53E-06	185.1419	2850053.	6.9690	418048.	0.00
13.0000	-1.65E-06	-28.1109	17.1248	7.45E-06	165.7032	2850053.	6.3628	772290.	0.00
13.2000	-3.56E-07	-24.5587	18.1318	5.60E-06	144.7642	2850053.	3.7071	2082492.	0.00
13.4000	5.91E-07	-20.8582	18.4624	4.00E-06	122.9511	2850053.	-0.4014	135828.	0.00
13.6000	1.25E-06	-17.1737	17.6213	2.67E-06	101.2327	2850053.	-8.0094	1286265.	0.00
13.8000	1.66E-06	-13.8096	15.9661	1.58E-06	81.4027	2850053.	-8.5421	1029989.	0.00
14.0000	1.88E-06	-10.7873	14.2349	7.19E-07	63.5869	2850053.	-8.7704	933936.	0.00
14.2000	1.95E-06	-8.1157	12.4791	5.57E-08	47.8390	2850053.	-8.7879	903060.	0.00
14.4000	1.90E-06	-5.7956	10.7354	-4.32E-07	34.1631	2850053.	-8.6491	910223.	0.00
14.6000	1.77E-06	-3.8215	9.0317	-7.70E-07	22.5266	2850053.	-8.3876	946002.	0.00
14.8000	1.59E-06	-2.1829	7.3904	-9.81E-07	12.8677	2850053.	-8.0251	1007883.	0.00
15.0000	1.38E-06	-0.8654	5.8303	-1.09E-06	5.1010	2850053.	-7.5760	1097132.	0.00
15.2000	1.16E-06	0.1492	4.3679	-1.11E-06	0.8794	2850053.	-7.0486	1217926.	0.00
15.4000	9.36E-07	0.8818	3.0183	-1.08E-06	5.1978	2850053.	-6.4469	1377546.	0.00
15.6000	7.27E-07	1.3565	1.7967	-9.98E-07	7.9962	2850053.	-5.7698	1587529.	0.00

15.8000	5.37E-07	1.6005	0.7187	-8.94E-07	9.4341	2850053.	-5.0103	1866648.	0.00
16.0000	3.69E-07	1.6440	-0.1975	-7.80E-07	9.6907	2850053.	-4.1514	2248786.	0.00
16.2000	2.25E-07	1.5215	-0.6279	-6.69E-07	8.9684	2850053.	-0.1526	135828.	0.00
16.4000	1.02E-07	1.3928	-0.6501	-5.67E-07	8.2102	2850053.	-0.06894	135828.	0.00
16.6000	-2.12E-09	1.2614	-0.6568	-4.74E-07	7.4357	2850053.	0.00144	135828.	0.00
16.8000	-8.80E-08	1.1301	-0.6507	-3.90E-07	6.6615	2850053.	0.05980	135828.	0.00
17.0000	-1.58E-07	1.0012	-0.6340	-3.15E-07	5.9015	2850053.	0.1074	135828.	0.00
17.2000	-2.14E-07	0.8765	-0.6087	-2.49E-07	5.1667	2850053.	0.1454	135828.	0.00
17.4000	-2.58E-07	0.7577	-0.5766	-1.92E-07	4.4663	2850053.	0.1751	135828.	0.00
17.6000	-2.91E-07	0.6459	-0.5394	-1.43E-07	3.8071	2850053.	0.1976	135828.	0.00
17.8000	-3.15E-07	0.5419	-0.4982	-1.01E-07	3.1945	2850053.	0.2139	135828.	0.00
18.0000	-3.31E-07	0.4466	-0.4543	-6.64E-08	2.6324	2850053.	0.2250	135828.	0.00
18.2000	-3.41E-07	0.3602	-0.4086	-3.81E-08	2.1233	2850053.	0.2319	135828.	0.00
18.4000	-3.47E-07	0.2831	-0.3619	-1.55E-08	1.6689	2850053.	0.2354	135828.	0.00
18.6000	-3.48E-07	0.2154	-0.3148	2.01E-09	1.2700	2850053.	0.2361	135828.	0.00
18.8000	-3.46E-07	0.1572	-0.2677	1.51E-08	0.9267	2850053.	0.2348	135828.	0.00
19.0000	-3.42E-07	0.1084	-0.2210	2.44E-08	0.6388	2850053.	0.2320	135828.	0.00
19.2000	-3.36E-07	0.06882	-0.1750	3.06E-08	0.4057	2850053.	0.2282	135828.	0.00
19.4000	-3.29E-07	0.03839	-0.1298	3.44E-08	0.2263	2850053.	0.2237	135828.	0.00
19.6000	-3.22E-07	0.01690	-0.08553	3.63E-08	0.09964	2850053.	0.2188	135828.	0.00
19.8000	-3.15E-07	0.00418	-0.04226	3.71E-08	0.02461	2850053.	0.2138	135828.	0.00
20.0000	-3.07E-07	0.00	0.00	3.72E-08	0.00	2850053.	0.2088	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 8:

Pile-head deflection = 0.00288863 meters
Computed slope at pile head = -0.00089673 radians
Maximum bending moment = 550.68735490 kN-m
Maximum shear force = 325.00000000 kN
Depth of maximum bending moment = 3.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 13
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 9

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 350.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00323	3.40E-10	350.0000	-9.91E-04	2.00E-09	2850053.	0.00	0.00	0.00
0.2000	0.00304	70.0000	343.0743	-9.88E-04	412.6239	2850053.	-69.2574	4562.	0.00
0.4000	0.00284	137.2297	327.8384	-9.81E-04	808.9180	2850053.	-83.1012	5854.	0.00
0.6000	0.00264	201.1354	310.1501	-9.69E-04	1186.	2850053.	-93.7818	7095.	0.00
0.8000	0.00245	261.2897	290.4599	-9.53E-04	1540.	2850053.	-103.1199	8413.	0.00
1.0000	0.00226	317.3193	269.0097	-9.32E-04	1870.	2850053.	-111.3829	9845.	0.00
1.2000	0.00208	368.8936	246.0162	-9.08E-04	2174.	2850053.	-118.5513	11408.	0.00
1.4000	0.00190	415.7258	221.7002	-8.81E-04	2451.	2850053.	-124.6092	13121.	0.00
1.6000	0.00173	457.5737	196.2848	-8.50E-04	2697.	2850053.	-129.5440	15010.	0.00
1.8000	0.00156	494.2398	169.9958	-8.17E-04	2913.	2850053.	-133.3460	17103.	0.00
2.0000	0.00140	525.5720	143.0605	-7.81E-04	3098.	2850053.	-136.0077	19438.	0.00
2.2000	0.00125	551.4640	115.7074	-7.43E-04	3251.	2850053.	-137.5233	22058.	0.00
2.4000	0.00110	571.8550	88.1663	-7.04E-04	3371.	2850053.	-137.8874	25022.	0.00
2.6000	9.65E-04	586.7305	60.6682	-6.63E-04	3459.	2850053.	-137.0937	28401.	0.00
2.8000	8.37E-04	596.1223	33.4456	-6.22E-04	3514.	2850053.	-135.1328	32293.	0.00
3.0000	7.17E-04	600.1087	6.7334	-5.80E-04	3537.	2850053.	-131.9891	36829.	0.00
3.2000	6.05E-04	598.8156	-19.2292	-5.38E-04	3530.	2850053.	-127.6364	42190.	0.00
3.4000	5.02E-04	592.4171	-44.1958	-4.96E-04	3492.	2850053.	-122.0301	48641.	0.00
3.6000	4.07E-04	581.1373	-67.9084	-4.55E-04	3426.	2850053.	-115.0956	56592.	0.00
3.8000	3.20E-04	565.2537	-89.7239	-4.14E-04	3332.	2850053.	-103.0599	64428.	0.00
4.0000	2.41E-04	545.2477	-108.9756	-3.75E-04	3214.	2850053.	-89.4562	74233.	0.00
4.2000	1.70E-04	521.6635	-125.4295	-3.38E-04	3075.	2850053.	-75.0830	88456.	0.00
4.4000	1.06E-04	495.0759	-134.1691	-3.02E-04	2918.	2850053.	-12.3130	23269.	0.00
4.6000	4.88E-05	467.9958	-136.3790	-2.68E-04	2759.	2850053.	-9.7861	40066.	0.00
4.8000	-1.56E-06	440.5243	-137.0493	-2.37E-04	2597.	2850053.	3.0829	394046.	0.00
5.0000	-4.58E-05	413.1761	-135.7337	-2.07E-04	2436.	2850053.	10.0728	43989.	0.00
5.2000	-8.42E-05	386.2308	-133.4600	-1.79E-04	2277.	2850053.	12.6647	30072.	0.00
5.4000	-1.17E-04	359.7921	-130.7438	-1.52E-04	2121.	2850053.	14.4969	24730.	0.00
5.6000	-1.45E-04	333.9333	-127.6992	-1.28E-04	1968.	2850053.	15.9496	21968.	0.00
5.8000	-1.68E-04	308.7124	-124.3882	-1.06E-04	1820.	2850053.	17.1601	20370.	0.00
6.0000	-1.87E-04	284.1780	-120.8527	-8.47E-05	1675.	2850053.	18.1949	19416.	0.00
6.2000	-2.02E-04	260.3714	-117.1241	-6.56E-05	1535.	2850053.	19.0914	18867.	0.00
6.4000	-2.14E-04	237.3284	-113.2276	-4.82E-05	1399.	2850053.	19.8729	18601.	0.00
6.6000	-2.22E-04	215.0803	-109.1849	-3.23E-05	1268.	2850053.	20.5548	18547.	0.00

6.8000	-2.27E-04	193.6544	-105.0146	-1.80E-05	1142.	2850053.	21.1478	18665.	0.00
7.0000	-2.29E-04	173.0745	-100.7339	-5.09E-06	1020.	2850053.	21.6595	18930.	0.00
7.2000	-2.29E-04	153.3609	-96.3584	6.36E-06	904.0052	2850053.	22.0956	19328.	0.00
7.4000	-2.26E-04	134.5311	-91.9028	1.65E-05	793.0107	2850053.	22.4604	19851.	0.00
7.6000	-2.22E-04	116.5998	-87.3810	2.53E-05	687.3121	2850053.	22.7574	20497.	0.00
7.8000	-2.16E-04	99.5787	-82.8064	3.29E-05	586.9794	2850053.	22.9890	21268.	0.00
8.0000	-2.09E-04	83.4772	-78.1917	3.93E-05	492.0671	2850053.	23.1575	22170.	0.00
8.2000	-2.00E-04	68.3020	-73.5495	4.46E-05	402.6150	2850053.	23.2646	23210.	0.00
8.4000	-1.91E-04	54.0574	-68.8919	4.89E-05	318.6483	2850053.	23.3117	24402.	0.00
8.6000	-1.81E-04	40.7453	-64.2307	5.22E-05	240.1782	2850053.	23.3000	25759.	0.00
8.8000	-1.70E-04	28.3651	-59.5776	5.47E-05	167.2020	2850053.	23.2307	27302.	0.00
9.0000	-1.59E-04	16.9142	-54.6387	5.62E-05	99.7031	2850053.	26.1580	32894.	0.00
9.2000	-1.48E-04	6.5096	-49.4710	5.71E-05	38.3720	2850053.	25.5195	34561.	0.00
9.4000	-1.36E-04	-2.8742	-44.4349	5.72E-05	16.9421	2850053.	24.8418	36473.	0.00
9.6000	-1.25E-04	-11.2643	-39.5379	5.67E-05	66.3988	2850053.	24.1275	38665.	0.00
9.8000	-1.14E-04	-18.6893	-34.7873	5.56E-05	110.1666	2850053.	23.3790	41180.	0.00
10.0000	-1.03E-04	-25.1792	-30.1895	5.41E-05	148.4220	2850053.	22.5984	44074.	0.00
10.2000	-9.19E-05	-30.7651	-25.7509	5.21E-05	181.3490	2850053.	21.7877	47415.	0.00
10.4000	-8.17E-05	-35.4796	-21.4773	4.98E-05	209.1388	2850053.	20.9486	51287.	0.00
10.6000	-7.20E-05	-39.3560	-17.3742	4.72E-05	231.9892	2850053.	20.0826	55803.	0.00
10.8000	-6.28E-05	-42.4292	-13.4468	4.43E-05	250.1045	2850053.	19.1909	61103.	0.00
11.0000	-5.42E-05	-44.7348	-9.7003	4.13E-05	263.6948	2850053.	18.2747	67374.	0.00
11.2000	-4.63E-05	-46.3093	-6.1393	3.81E-05	272.9762	2850053.	17.3347	74863.	0.00
11.4000	-3.90E-05	-47.1905	-2.7687	3.48E-05	278.1704	2850053.	16.3712	83908.	0.00
11.6000	-3.24E-05	-47.4168	0.4068	3.15E-05	279.5045	2850053.	15.3842	94978.	0.00
11.8000	-2.64E-05	-47.0278	3.3825	2.82E-05	277.2112	2850053.	14.3729	108743.	0.00
12.0000	-2.11E-05	-46.0638	6.1534	2.49E-05	271.5290	2850053.	13.3355	126201.	0.00
12.2000	-1.65E-05	-44.5664	8.7138	2.17E-05	262.7025	2850053.	12.2686	148895.	0.00
12.4000	-1.25E-05	-42.5783	11.0573	1.86E-05	250.9832	2850053.	11.1662	179364.	0.00
12.6000	-9.02E-06	-40.1435	13.1756	1.57E-05	236.6311	2850053.	10.0172	222118.	0.00
12.8000	-6.15E-06	-37.3081	15.0574	1.30E-05	219.9171	2850053.	8.8009	286119.	0.00
13.0000	-3.81E-06	-34.1206	16.8305	1.05E-05	201.1280	2850053.	8.9300	469038.	0.00
13.2000	-1.94E-06	-30.5759	18.5614	8.25E-06	180.2333	2850053.	8.3785	862652.	0.00
13.4000	-5.06E-07	-26.6960	19.9109	6.24E-06	157.3631	2850053.	5.1172	2021168.	0.00
13.6000	5.55E-07	-22.6115	19.8289	4.51E-06	133.2863	2850053.	-5.9378	2139318.	0.00
13.8000	1.30E-06	-18.7645	18.4746	3.06E-06	110.6096	2850053.	-7.6044	1170594.	0.00
14.0000	1.78E-06	-15.2216	16.8765	1.87E-06	89.7259	2850053.	-8.3769	941225.	0.00
14.2000	2.05E-06	-12.0139	15.1646	9.14E-07	70.8173	2850053.	-8.7421	854081.	0.00
14.4000	2.15E-06	-9.1558	13.4046	1.71E-07	53.9700	2850053.	-8.8579	825658.	0.00
14.6000	2.12E-06	-6.6520	11.6388	-3.83E-07	39.2112	2850053.	-8.7999	831875.	0.00
14.8000	1.99E-06	-4.5003	9.8976	-7.75E-07	26.5274	2850053.	-8.6120	864506.	0.00
15.0000	1.81E-06	-2.6930	8.2042	-1.03E-06	15.8741	2850053.	-8.3225	921728.	0.00
15.2000	1.58E-06	-1.2186	6.5768	-1.16E-06	7.1832	2850053.	-7.9514	1005520.	0.00
15.4000	1.34E-06	-0.06227	5.0303	-1.21E-06	0.3670	2850053.	-7.5132	1121234.	0.00

15.6000	1.10E-06	0.7935	3.5772	-1.18E-06	4.6776	2850053.	-7.0181	1278467.	0.00
15.8000	8.67E-07	1.3686	2.2281	-1.11E-06	8.0674	2850053.	-6.4727	1493529.	0.00
16.0000	6.55E-07	1.6848	0.9930	-1.00E-06	9.9311	2850053.	-5.8782	1795328.	0.00
16.2000	4.67E-07	1.7658	-0.1175	-8.79E-07	10.4089	2850053.	-5.2273	2240791.	0.00
16.4000	3.03E-07	1.6378	-0.6608	-7.60E-07	9.6541	2850053.	-0.2058	135828.	0.00
16.6000	1.63E-07	1.5015	-0.6925	-6.50E-07	8.8507	2850053.	-0.1104	135828.	0.00
16.8000	4.31E-08	1.3608	-0.7064	-5.49E-07	8.0214	2850053.	-0.02928	135828.	0.00
17.0000	-5.72E-08	1.2189	-0.7055	-4.59E-07	7.1851	2850053.	0.03886	135828.	0.00
17.2000	-1.40E-07	1.0786	-0.6920	-3.78E-07	6.3580	2850053.	0.09539	135828.	0.00
17.4000	-2.09E-07	0.9421	-0.6683	-3.07E-07	5.5534	2850053.	0.1416	135828.	0.00
17.6000	-2.63E-07	0.8113	-0.6363	-2.46E-07	4.7822	2850053.	0.1789	135828.	0.00
17.8000	-3.07E-07	0.6876	-0.5975	-1.93E-07	4.0531	2850053.	0.2084	135828.	0.00
18.0000	-3.41E-07	0.5723	-0.5536	-1.49E-07	3.3732	2850053.	0.2314	135828.	0.00
18.2000	-3.67E-07	0.4662	-0.5055	-1.13E-07	2.7479	2850053.	0.2489	135828.	0.00
18.4000	-3.86E-07	0.3700	-0.4544	-8.33E-08	2.1813	2850053.	0.2620	135828.	0.00
18.6000	-4.00E-07	0.2844	-0.4011	-6.04E-08	1.6764	2850053.	0.2716	135828.	0.00
18.8000	-4.10E-07	0.2096	-0.3461	-4.30E-08	1.2356	2850053.	0.2784	135828.	0.00
19.0000	-4.17E-07	0.1460	-0.2899	-3.05E-08	0.8604	2850053.	0.2833	135828.	0.00
19.2000	-4.22E-07	0.09365	-0.2329	-2.21E-08	0.5520	2850053.	0.2867	135828.	0.00
19.4000	-4.26E-07	0.05280	-0.1753	-1.70E-08	0.3112	2850053.	0.2893	135828.	0.00
19.6000	-4.29E-07	0.02352	-0.1173	-1.43E-08	0.1387	2850053.	0.2913	135828.	0.00
19.8000	-4.32E-07	0.00590	-0.05881	-1.33E-08	0.03477	2850053.	0.2932	135828.	0.00
20.0000	-4.34E-07	0.00	0.00	-1.31E-08	0.00	2850053.	0.2949	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 9:

Pile-head deflection = 0.00323415 meters
Computed slope at pile head = -0.00099051 radians
Maximum bending moment = 600.10871320 kN-m
Maximum shear force = 350.00000000 kN
Depth of maximum bending moment = 3.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 13
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 10

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 1200.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.04327	8.90E-09	1200.	-0.00824	5.25E-08	2850053.	0.00	0.00	0.00
0.2000	0.04162	240.0000	1199.	-0.00823	1415.	2850053.	-8.3630	40.1851	0.00
0.4000	0.03998	479.6655	1195.	-0.00820	2827.	2850053.	-31.8783	159.4778	0.00
0.6000	0.03834	718.0558	1186.	-0.00816	4233.	2850053.	-59.7294	311.5708	0.00
0.8000	0.03671	954.0570	1171.	-0.00810	5624.	2850053.	-91.2028	496.8365	0.00
1.0000	0.03510	1186.	1149.	-0.00803	6993.	2850053.	-125.6817	716.1484	0.00
1.2000	0.03350	1414.	1120.	-0.00794	8333.	2850053.	-162.6251	970.8394	0.00
1.4000	0.03192	1635.	1084.	-0.00783	9635.	2850053.	-201.5538	1263.	0.00
1.6000	0.03037	1847.	1040.	-0.00771	10889.	2850053.	-242.0416	1594.	0.00
1.8000	0.02884	2050.	987.0139	-0.00757	12086.	2850053.	-283.7094	1967.	0.00
2.0000	0.02734	2242.	926.0209	-0.00742	13216.	2850053.	-326.2210	2386.	0.00
2.2000	0.02587	2421.	856.8299	-0.00726	14270.	2850053.	-365.6885	2827.	0.00
2.4000	0.02444	2585.	779.9957	-0.00708	15237.	2850053.	-402.6542	3295.	0.00
2.6000	0.02304	2733.	696.0203	-0.00690	16109.	2850053.	-437.0995	3794.	0.00
2.8000	0.02168	2863.	605.4016	-0.00670	16878.	2850053.	-469.0871	4327.	0.00
3.0000	0.02036	2975.	508.6257	-0.00649	17536.	2850053.	-498.6725	4898.	0.00
3.2000	0.01908	3067.	406.1679	-0.00628	18077.	2850053.	-525.9052	5512.	0.00
3.4000	0.01785	3137.	298.4944	-0.00606	18494.	2850053.	-550.8294	6172.	0.00
3.6000	0.01666	3186.	186.1064	-0.00584	18781.	2850053.	-573.0508	6881.	0.00
3.8000	0.01551	3212.	71.5390	-0.00562	18933.	2850053.	-572.6233	7383.	0.00
4.0000	0.01441	3215.	-42.2707	-0.00539	18950.	2850053.	-565.4738	7848.	0.00
4.2000	0.01335	3195.	-154.5338	-0.00517	18833.	2850053.	-557.1577	8344.	0.00
4.4000	0.01234	3153.	-216.2621	-0.00494	18585.	2850053.	-60.1244	974.2204	0.00
4.6000	0.01138	3108.	-228.2882	-0.00472	18323.	2850053.	-60.1375	1057.	0.00
4.8000	0.01045	3062.	-240.3065	-0.00451	18047.	2850053.	-60.0453	1149.	0.00
5.0000	0.00957	3012.	-252.2956	-0.00430	17757.	2850053.	-59.8452	1250.	0.00
5.2000	0.00873	2961.	-264.2335	-0.00409	17452.	2850053.	-59.5343	1363.	0.00
5.4000	0.00794	2907.	-276.0979	-0.00388	17134.	2850053.	-59.1091	1489.	0.00
5.6000	0.00718	2850.	-287.8653	-0.00368	16801.	2850053.	-58.5657	1631.	0.00
5.8000	0.00647	2791.	-299.5118	-0.00348	16455.	2850053.	-57.8993	1791.	0.00
6.0000	0.00579	2730.	-311.0122	-0.00329	16095.	2850053.	-57.1042	1972.	0.00
6.2000	0.00515	2667.	-322.3400	-0.00310	15721.	2850053.	-56.1734	2180.	0.00
6.4000	0.00455	2601.	-333.4671	-0.00291	15335.	2850053.	-55.0980	2421.	0.00

6.6000	0.00399	2534.	-344.3636	-0.00273	14935.	2850053.	-53.8673	2701.	0.00
6.8000	0.00346	2464.	-354.9971	-0.00256	14523.	2850053.	-52.4672	3033.	0.00
7.0000	0.00297	2392.	-365.3317	-0.00239	14098.	2850053.	-50.8791	3431.	0.00
7.2000	0.00251	2318.	-375.3274	-0.00222	13662.	2850053.	-49.0783	3918.	0.00
7.4000	0.00208	2242.	-384.9383	-0.00206	13213.	2850053.	-47.0300	4528.	0.00
7.6000	0.00168	2164.	-394.1097	-0.00191	12754.	2850053.	-44.6840	5317.	0.00
7.8000	0.00131	2084.	-402.7743	-0.00176	12284.	2850053.	-41.9627	6384.	0.00
8.0000	9.78E-04	2003.	-410.8444	-0.00161	11804.	2850053.	-38.7375	7924.	0.00
8.2000	6.69E-04	1920.	-418.1949	-0.00148	11315.	2850053.	-34.7678	10393.	0.00
8.4000	3.87E-04	1835.	-424.6219	-0.00134	10818.	2850053.	-29.5025	15237.	0.00
8.6000	1.31E-04	1750.	-429.6659	-0.00122	10314.	2850053.	-20.9372	31915.	0.00
8.8000	-1.00E-04	1663.	-429.8125	-0.00110	9805.	2850053.	19.4708	38838.	0.00
9.0000	-3.08E-04	1578.	-424.6039	-9.85E-04	9301.	2850053.	32.6155	21152.	0.00
9.2000	-4.94E-04	1494.	-417.5251	-8.78E-04	8804.	2850053.	38.1726	15442.	0.00
9.4000	-6.59E-04	1411.	-409.5059	-7.76E-04	8316.	2850053.	42.0197	12745.	0.00
9.6000	-8.05E-04	1330.	-400.8137	-6.79E-04	7838.	2850053.	44.9024	11161.	0.00
9.8000	-9.31E-04	1250.	-391.6091	-5.89E-04	7371.	2850053.	47.1432	10125.	0.00
10.0000	-0.00104	1173.	-382.0032	-5.04E-04	6915.	2850053.	48.9155	9405.	0.00
10.2000	-0.00113	1098.	-372.0791	-4.24E-04	6470.	2850053.	50.3252	8885.	0.00
10.4000	-0.00121	1024.	-361.9024	-3.50E-04	6038.	2850053.	51.4427	8504.	0.00
10.6000	-0.00127	952.9193	-351.5263	-2.80E-04	5617.	2850053.	52.3174	8222.	0.00
10.8000	-0.00132	883.6604	-340.9960	-2.16E-04	5209.	2850053.	52.9857	8016.	0.00
11.0000	-0.00136	816.5209	-330.3499	-1.56E-04	4813.	2850053.	53.4753	7870.	0.00
11.2000	-0.00138	751.5204	-319.6216	-1.01E-04	4430.	2850053.	53.8081	7773.	0.00
11.4000	-0.00140	688.6723	-308.8406	-5.07E-05	4059.	2850053.	54.0016	7717.	0.00
11.6000	-0.00140	627.9842	-298.0335	-4.55E-06	3702.	2850053.	54.0699	7698.	0.00
11.8000	-0.00140	569.4589	-287.2240	3.75E-05	3357.	2850053.	54.0250	7710.	0.00
12.0000	-0.00139	513.0946	-276.4338	7.55E-05	3025.	2850053.	53.8770	7753.	0.00
12.2000	-0.00137	458.8854	-265.6827	1.10E-04	2705.	2850053.	53.6344	7823.	0.00
12.4000	-0.00135	406.8215	-254.9887	1.40E-04	2398.	2850053.	53.3047	7920.	0.00
12.6000	-0.00132	356.8899	-244.3688	1.67E-04	2104.	2850053.	52.8945	8043.	0.00
12.8000	-0.00128	309.0740	-233.8384	1.90E-04	1822.	2850053.	52.4095	8193.	0.00
13.0000	-0.00124	263.3545	-222.4015	2.10E-04	1552.	2850053.	61.9601	10000.	0.00
13.2000	-0.00120	220.1134	-208.9551	2.27E-04	1297.	2850053.	72.5038	12132.	0.00
13.4000	-0.00115	179.7725	-194.5505	2.41E-04	1060.	2850053.	71.5414	12460.	0.00
13.6000	-0.00110	142.2932	-180.3466	2.52E-04	838.7655	2850053.	70.4984	12832.	0.00
13.8000	-0.00105	107.6339	-166.3588	2.61E-04	634.4616	2850053.	69.3795	13249.	0.00
14.0000	-9.94E-04	75.7497	-152.6019	2.68E-04	446.5164	2850053.	68.1889	13716.	0.00
14.2000	-9.40E-04	46.5931	-139.0900	2.72E-04	274.6490	2850053.	66.9299	14236.	0.00
14.4000	-8.86E-04	20.1137	-125.8365	2.74E-04	118.5628	2850053.	65.6055	14817.	0.00
14.6000	-8.31E-04	-3.7415	-112.8542	2.75E-04	22.0547	2850053.	64.2181	15464.	0.00
14.8000	-7.76E-04	-25.0280	-100.1554	2.74E-04	147.5305	2850053.	62.7694	16186.	0.00
15.0000	-7.21E-04	-43.8037	-87.7524	2.71E-04	258.2063	2850053.	61.2605	16993.	0.00
15.2000	-6.67E-04	-60.1289	-75.6572	2.68E-04	354.4377	2850053.	59.6917	17898.	0.00

15.4000	-6.14E-04	-74.0665	-63.8818	2.63E-04	436.5947	2850053.	58.0625	18917.	0.00
15.6000	-5.62E-04	-85.6817	-52.4384	2.57E-04	505.0614	2850053.	56.3710	20069.	0.00
15.8000	-5.11E-04	-95.0419	-41.3399	2.51E-04	560.2367	2850053.	54.6144	21381.	0.00
16.0000	-4.61E-04	-102.2176	-30.5997	2.44E-04	602.5348	2850053.	52.7878	22886.	0.00
16.2000	-4.13E-04	-107.2818	-20.2325	2.37E-04	632.3862	2850053.	50.8841	24631.	0.00
16.4000	-3.67E-04	-110.3106	-10.2548	2.29E-04	650.2400	2850053.	48.8933	26678.	0.00
16.6000	-3.21E-04	-111.3837	-0.6854	2.21E-04	656.5654	2850053.	46.8008	29117.	0.00
16.8000	-2.78E-04	-110.5848	8.4533	2.14E-04	651.8560	2850053.	44.5861	32081.	0.00
17.0000	-2.36E-04	-108.0024	17.1339	2.06E-04	636.6337	2850053.	42.2192	35779.	0.00
17.2000	-1.96E-04	-103.7312	25.3213	1.99E-04	611.4568	2850053.	39.6548	40556.	0.00
17.4000	-1.57E-04	-97.8739	32.9689	1.92E-04	576.9300	2850053.	36.8219	47037.	0.00
17.6000	-1.19E-04	-90.5436	40.0110	1.85E-04	533.7210	2850053.	33.5993	56494.	0.00
17.8000	-8.26E-05	-81.8694	46.3464	1.79E-04	482.5899	2850053.	29.7541	72040.	0.00
18.0000	-4.74E-05	-72.0051	51.7945	1.73E-04	424.4432	2850053.	24.7269	104314.	0.00
18.2000	-1.32E-05	-61.1517	55.8829	1.69E-04	360.4662	2850053.	16.1574	244370.	0.00
18.4000	2.01E-05	-49.6519	55.6412	1.65E-04	292.6796	2850053.	-18.5749	184796.	0.00
18.6000	5.27E-05	-38.8952	51.2218	1.62E-04	229.2727	2850053.	-25.6185	97163.	0.00
18.8000	8.48E-05	-29.1632	45.6583	1.59E-04	171.9062	2850053.	-30.0163	70779.	0.00
19.0000	1.16E-04	-20.6319	39.3202	1.58E-04	121.6171	2850053.	-33.3655	57284.	0.00
19.2000	1.48E-04	-13.4351	32.3709	1.56E-04	79.1951	2850053.	-36.1271	48861.	0.00
19.4000	1.79E-04	-7.6835	24.9074	1.56E-04	45.2914	2850053.	-38.5074	43007.	0.00
19.6000	2.10E-04	-3.4722	16.9949	1.55E-04	20.4671	2850053.	-40.6181	38654.	0.00
19.8000	2.41E-04	-0.8855	8.6804	1.55E-04	5.2200	2850053.	-42.5268	35262.	0.00
20.0000	2.72E-04	0.00	0.00	1.55E-04	0.00	2850053.	-44.2773	16265.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 10:

Pile-head deflection = 0.04327017 meters
Computed slope at pile head = -0.00823803 radians
Maximum bending moment = 3215. kN-m
Maximum shear force = 1200. kN
Depth of maximum bending moment = 4.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 133
Number of zero deflection points = 2

Summary of Pile-head Responses for Conventional Analyses

Definitions of Pile-head Loading Conditions:

Load Type 1: Load 1 = Shear, V, kN, and Load 2 = Moment, M, kN-m
Load Type 2: Load 1 = Shear, V, kN, and Load 2 = Slope, S, radians
Load Type 3: Load 1 = Shear, V, kN, and Load 2 = Rot. Stiffness, R, kN-m/rad.
Load Type 4: Load 1 = Top Deflection, y, m, and Load 2 = Moment, M, kN-m
Load Type 5: Load 1 = Top Deflection, y, m, and Load 2 = Slope, S, radians

Load Case No.	Load Type 1	Pile-head Load 1	Load Type 2	Pile-head Load 2	Axial Loading kN	Pile-head Deflection meters	Pile-head Rotation radians	Max Shear in Pile kN	Max Moment in Pile kN-m
1	V, kN	150.0000	M, kN-m	0.00	0.00	9.45E-04	-3.28E-04	150.0000	227.4340
2	V, kN	175.0000	M, kN-m	0.00	0.00	0.00118	-4.00E-04	175.0000	271.5225
3	V, kN	200.0000	M, kN-m	0.00	0.00	0.00142	-4.76E-04	200.0000	316.6541
4	V, kN	225.0000	M, kN-m	0.00	0.00	0.00169	-5.54E-04	225.0000	362.0493
5	V, kN	250.0000	M, kN-m	0.00	0.00	0.00196	-6.36E-04	250.0000	407.7652
6	V, kN	275.0000	M, kN-m	0.00	0.00	0.00225	-7.19E-04	275.0000	454.4659
7	V, kN	300.0000	M, kN-m	0.00	0.00	0.00256	-8.06E-04	300.0000	501.8999
8	V, kN	325.0000	M, kN-m	0.00	0.00	0.00289	-8.97E-04	325.0000	550.6874
9	V, kN	350.0000	M, kN-m	0.00	0.00	0.00323	-9.91E-04	350.0000	600.1087
10	V, kN	1200.	M, kN-m	0.00	0.00	0.04327	-0.00824	1200.	3215.

Maximum pile-head deflection = 0.0432701668 meters
Maximum pile-head rotation = -0.0082380327 radians = -0.472005 deg.

The analysis ended normally.

Opera VI02 – D1500

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LPile for Windows, Version 2016-09.009

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method
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Serial Number of Security Device: 164278050

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Files Used for Analysis

Path to file locations:
\m9159\Work\07_Pali\VI02\LPILE\

Name of input data file:
VI02_spalle-pila_D1500.lp9d

Name of output report file:
VI02_spalle-pila_D1500.lp9o

Name of plot output file:
VI02_spalle-pila_D1500.lp9p

Name of runtime message file:
VI02_spalle-pila_D1500.lp9r

Date and Time of Analysis

Date: June 10, 2019 Time: 14:45:05

Problem Title

Project Name: VI02 - Spalle e pila
Job Number:
Client:
Engineer:
Description:

Program Options and Settings

Computational Options:
- Use unfactored loads in computations (conventional analysis)

Engineering Units Used for Data Input and Computations:
- International System Units (kilonewtons, meters, millimeters)

Analysis Control Options:
- Maximum number of iterations allowed = 600
- Deflection tolerance for convergence = 2.5400E-07 m
- Maximum allowable deflection = 2.5400 m
- Number of pile increments = 100

Loading Type and Number of Cycles of Loading:
- Static loading specified

- Use of p-y modification factors for p-y curves not selected
- No distributed lateral loads are entered
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected

- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:
- Output files use decimal points to denote decimal symbols.
- Report only summary tables of pile-head deflection, maximum bending moment, and maximum shear force in output report file.
- p-y curves computed and reported at user-specified depths
- Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined = 1
Total length of pile = 20.000 m
Depth of ground surface below top of pile = 0.0000 m

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point	Depth Below Pile Head meters	Pile Diameter millimeters
1	0.000	1500.00
2	20.000	1500.00

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is an elastic pile
Cross-sectional Shape = Circular Pile
Length of section = 20.000000 m
Width of top of section = 1.500000 m

Width of bottom of section = 1.500000 m
Top Area = 1.767146 sq. m
Bottom Area = 1.767146 sq. m
Moment of Inertia at Top = 0.248505 m^4
Moment of Inertia at Bottom = 0.248505 m^4
Elastic Modulus = 28000000. kPa

Ground Slope and Pile Batter Angles

Ground Slope Angle = 0.000 degrees
= 0.000 radians

Pile Batter Angle = 0.000 degrees
= 0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 3 layers

Layer 1 is stiff clay with water-induced erosion

Distance from top of pile to top of layer = 0.0000 m
Distance from top of pile to bottom of layer = 4.300000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 80.000000 kPa
Undrained cohesion at bottom of layer = 80.000000 kPa
Epsilon-50 at top of layer = 0.007000
Epsilon-50 at bottom of layer = 0.007000
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 2 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 4.300000 m
Distance from top of pile to bottom of layer = 13.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 35.000000 kPa
Undrained cohesion at bottom of layer = 35.000000 kPa
Epsilon-50 at top of layer = 0.020000
Epsilon-50 at bottom of layer = 0.020000

Layer 3 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 13.000000 m
Distance from top of pile to bottom of layer = 20.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 45.000000 kPa
Undrained cohesion at bottom of layer = 45.000000 kPa
Epsilon-50 at top of layer = 0.015000
Epsilon-50 at bottom of layer = 0.015000

(Depth of the lowest soil layer extends 0.000 m below the pile tip)

Summary of Input Soil Properties

Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth m	Effective Unit Wt. kN/m3	Undrained Cohesion kPa	E50 or krm	kpy kN/m3
1	Stiff Clay	0.00	9.0000	80.0000	0.00700	default
	with Free Water	4.3000	9.0000	80.0000	0.00700	default
2	Soft	4.3000	9.0000	35.0000	0.02000	--
	Clay	13.0000	9.0000	35.0000	0.02000	--
3	Soft	13.0000	9.0000	45.0000	0.01500	--
	Clay	20.0000	9.0000	45.0000	0.01500	--

Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 3

Load No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, kN	Compute Top y vs. Pile Length
1	1	V = 250.000000 kN	M = 0.0000 m-kN	0.0000000	No
2	1	V = 275.000000 kN	M = 0.0000 m-kN	0.0000000	No
3	1	V = 1500. kN	M = 0.0000 m-kN	0.0000000	No

V = shear force applied normal to pile axis
M = bending moment applied to pile head
y = lateral deflection normal to pile axis
S = pile slope relative to original pile batter angle
R = rotational stiffness applied to pile head
Values of top y vs. pile lengths can be computed only for load types with
specified shear loading (Load Types 1, 2, and 3).
Thrust force is assumed to be acting axially for all pile batter angles.

Specified Depths for Output of p-y Curves

Lateral load-transfer (p-y) curves are computed and output at 2 depths.
(Note that load-transfer values are computeded at the specified depths and
may differ from values computed at nodal points)

Depth No.	Depth Below Pile Head m	Depth Below Ground Surface m
1	5.000	5.000
2	10.000	10.000

Depth of ground surface below top of pile = 0.0000 m

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

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Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Moment-curvature properties were derived from elastic section properties

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Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head meters	Equivalent Top Depth Below Grnd Surf meters	Same Layer Type As Layer Above	Layer is Rock or is Below Rock Layer	F0 Integral for Layer kN	F1 Integral for Layer kN
1	0.00	0.00	N.A.	No	0.00	256.6122
2	4.3000	1.4285	No	No	256.6122	3248.
3	13.0000	10.1285	Yes	No	3505.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals for Layer n. Layering correction equivalent depths are computed only for soil types with both shallow-depth and deep-depth expressions for peak lateral load transfer. These soil types are soft and stiff clays, non-liquefied sands, and cemented c-phi soil.

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p-y Curves Reported for Specified Depths

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p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 4.300 m
Depth of p-y curve below pile head = 5.000 m
Depth of p-y curve below ground surface = 5.000 m
Equiv. depth of p-y curve below ground surface = 2.128 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1500.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 10.161 m
Static pu_s for flat ground = 262.248 kN/m
Static pu_d for flat ground = 472.500 kN/m
y_50 = 0.07500 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 262.248 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00017778	17.48321
0.00142	34.96643
0.00480	52.44964
0.01138	69.93286
0.02222	87.41607
0.03840	104.89928
0.06098	122.38250
0.09102	139.86571
0.12960	157.34893
0.17778	174.83214
0.23662	192.31536

0.30720	209.79857
0.39058	227.28178
0.48782	244.76500
0.60000	262.24821
0.63750	262.24821

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 4.300 m
Depth of p-y curve below pile head = 10.000 m
Depth of p-y curve below ground surface = 10.000 m
Equiv. depth of p-y curve below ground surface = 7.128 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1500.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 10.161 m
Static pu_s for flat ground = 417.248 kN/m
Static pu_d for flat ground = 472.500 kN/m
y_50 = 0.07500 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 417.248 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00017778	27.81655
0.00142	55.63309
0.00480	83.44964
0.01138	111.26619
0.02222	139.08274
0.03840	166.89928
0.06098	194.71583
0.09102	222.53238

0.12960	250.34893
0.17778	278.16547
0.23662	305.98202
0.30720	333.79857
0.39058	361.61512
0.48782	389.43166
0.60000	417.24821
0.63750	417.24821

Summary of Pile-head Responses for Conventional Analyses

Definitions of Pile-head Loading Conditions:

Load Type 1: Load 1 = Shear, V, kN, and Load 2 = Moment, M, kN-m
Load Type 2: Load 1 = Shear, V, kN, and Load 2 = Slope, S, radians
Load Type 3: Load 1 = Shear, V, kN, and Load 2 = Rot. Stiffness, R, kN-m/rad.
Load Type 4: Load 1 = Top Deflection, y, m, and Load 2 = Moment, M, kN-m
Load Type 5: Load 1 = Top Deflection, y, m, and Load 2 = Slope, S, radians

Load Case No.	Load Type 1	Pile-head Load 1	Load Type 2	Pile-head Load 2	Axial Pile-head Loading kN	Pile-head Deflection meters	Pile-head Rotation radians	Max Shear in Pile kN	Max Moment in Pile kN-m
1	V, kN	250.0000	M, kN-m	0.00	0.00	0.00128	-3.49E-04	250.0000	468.2996
2	V, kN	275.0000	M, kN-m	0.00	0.00	0.00148	-3.95E-04	275.0000	521.0899
3	V, kN	1500.	M, kN-m	0.00	0.00	0.04061	-0.00606	1500.	4292.

Maximum pile-head deflection = 0.0406123775 meters
Maximum pile-head rotation = -0.0060561406 radians = -0.346991 deg.

The analysis ended normally.

Opera VI03 – D800

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LPile for Windows, Version 2016-09.009

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method
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Files Used for Analysis

Path to file locations:
\m9159\Work\07_Pali\VI03\LPILE\

Name of input data file:
VI03_spalle-pila_D800.lp9d

Name of output report file:
VI03_spalle-pila_D800.lp9o

Name of plot output file:
VI03_spalle-pila_D800.lp9p

Name of runtime message file:
VI03_spalle-pila_D800.lp9r

Date and Time of Analysis

Date: June 10, 2019 Time: 14:46:47

Problem Title

Project Name: VI02 - Spalle e pila
Job Number:
Client:
Engineer:
Description:

Program Options and Settings

Computational Options:
- Use unfactored loads in computations (conventional analysis)

Engineering Units Used for Data Input and Computations:
- International System Units (kilonewtons, meters, millimeters)

Analysis Control Options:
- Maximum number of iterations allowed = 500
- Deflection tolerance for convergence = 2.5400E-07 m
- Maximum allowable deflection = 2.5400 m
- Number of pile increments = 100

Loading Type and Number of Cycles of Loading:
- Static loading specified

- Use of p-y modification factors for p-y curves not selected
- No distributed lateral loads are entered
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected

- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:
- Output files use decimal points to denote decimal symbols.
- Values of pile-head deflection, bending moment, shear force, and soil reaction are printed for full length of pile.
- Printing Increment (nodal spacing of output points) = 1
- p-y curves computed and reported at user-specified depths
- Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined = 1
Total length of pile = 20.000 m
Depth of ground surface below top of pile = 0.0000 m

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point	Depth Below Pile Head meters	Pile Diameter millimeters
1	0.000	800.00
2	20.000	800.00

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is an elastic pile
Cross-sectional Shape = Circular Pile
Length of section = 20.000000 m

Width of top of section = 0.800000 m
Width of bottom of section = 0.800000 m
Top Area = 0.502655 sq. m
Bottom Area = 0.502655 sq. m
Moment of Inertia at Top = 0.020106 m^4
Moment of Inertia at Bottom = 0.020106 m^4
Elastic Modulus = 28000000. kPa

Ground Slope and Pile Batter Angles

Ground Slope Angle = 0.000 degrees
= 0.000 radians

Pile Batter Angle = 0.000 degrees
= 0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 3 layers

Layer 1 is stiff clay with water-induced erosion

Distance from top of pile to top of layer = 0.0000 m
Distance from top of pile to bottom of layer = 3.600000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 80.000000 kPa
Undrained cohesion at bottom of layer = 80.000000 kPa
Epsilon-50 at top of layer = 0.007000
Epsilon-50 at bottom of layer = 0.007000
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 2 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 3.600000 m
Distance from top of pile to bottom of layer = 11.200000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 35.000000 kPa
Undrained cohesion at bottom of layer = 35.000000 kPa
Epsilon-50 at top of layer = 0.020000
Epsilon-50 at bottom of layer = 0.020000

Layer 3 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 11.200000 m
Distance from top of pile to bottom of layer = 20.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 45.000000 kPa
Undrained cohesion at bottom of layer = 45.000000 kPa
Epsilon-50 at top of layer = 0.015000
Epsilon-50 at bottom of layer = 0.015000

(Depth of the lowest soil layer extends 0.000 m below the pile tip)

Summary of Input Soil Properties

Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth m	Effective Unit Wt. kN/m3	Undrained Cohesion kPa	E50 or krm	kpy kN/m3
1	Stiff Clay	0.00	9.0000	80.0000	0.00700	default
	with Free Water	3.6000	9.0000	80.0000	0.00700	default
2	Soft	3.6000	9.0000	35.0000	0.02000	--
	Clay	11.2000	9.0000	35.0000	0.02000	--
3	Soft	11.2000	9.0000	45.0000	0.01500	--
	Clay	20.0000	9.0000	45.0000	0.01500	--

Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 6

Load No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, kN	Compute Top y vs. Pile Length
1	1	V = 50.000000 kN	M = 0.0000 m-kN	0.0000000	No
2	1	V = 75.000000 kN	M = 0.0000 m-kN	0.0000000	No
3	1	V = 100.000000 kN	M = 0.0000 m-kN	0.0000000	No
4	1	V = 125.000000 kN	M = 0.0000 m-kN	0.0000000	No
5	1	V = 150.000000 kN	M = 0.0000 m-kN	0.0000000	No
6	1	V = 600.000000 kN	M = 0.0000 m-kN	0.0000000	No

V = shear force applied normal to pile axis
M = bending moment applied to pile head
y = lateral deflection normal to pile axis
S = pile slope relative to original pile batter angle
R = rotational stiffness applied to pile head
Values of top y vs. pile lengths can be computed only for load types with specified shear loading (Load Types 1, 2, and 3).
Thrust force is assumed to be acting axially for all pile batter angles.

Specified Depths for Output of p-y Curves

Lateral load-transfer (p-y) curves are computed and output at 8 depths.
(Note that load-transfer values are computeded at the specified depths and may differ from values computed at nodal points)

Depth Depth Below Pile Head Depth Below Ground Surface

No.	m	m
1	0.200	0.200
2	3.400	3.400
3	3.800	3.800
4	9.000	9.000
5	11.000	11.000
6	11.400	11.400
7	16.000	16.000
8	19.800	19.800

Depth of ground surface below top of pile = 0.0000 m

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

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Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Moment-curvature properties were derived from elastic section properties

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Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head meters	Equivalent Top Depth Below Grnd Surf meters	Same Layer Type As Layer Above	Layer is Rock or is Below Rock Layer	F0 Integral for Layer kN	F1 Integral for Layer kN
1	0.00	0.00	N.A.	No	0.00	151.8967
2	3.6000	1.4844	No	No	151.8967	1645.
3	11.2000	9.0844	Yes	No	1797.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals for Layer n. Layering correction equivalent depths are computed only for soil types with both shallow-depth and deep-depth expressions for peak lateral load transfer. These soil types are soft and stiff clays, non-liquefied sands, and cemented c-phi soil.

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p-y Curves Reported for Specified Depths

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p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 0.200 m
Depth of p-y curve below ground surface = 0.200 m
Equivalent depth of p-y curve = 0.200 m
Pile diameter = 800.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.006 m
As = 0.30366
Ac (not used) = 0.23383
pct = 174.720 kN/m
pcd = 704.000 kN/m
pc = 174.720 kN/m
pu = 6.317 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000

0.00085026	23.08008
0.00170	46.16015
0.00255	54.91936
0.00340	58.47120
0.00425	60.16449
0.00510	60.52600
0.00595	59.85385
0.00680	58.33995
0.00765	56.11775
0.00850	53.28508
0.00935	49.91658
0.01020	46.07088
0.01701	32.84541
0.02381	19.58135
0.03061	6.31728
0.03231	6.31728

p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 3.400 m
Depth of p-y curve below ground surface = 3.400 m
Equivalent depth of p-y curve = 3.400 m
Pile diameter = 800.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.006 m
As = 0.60000
Ac (not used) = 0.30000
pct = 922.240 kN/m
pcd = 704.000 kN/m
pc = 704.000 kN/m
pu = 61.729 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00168	192.79834
0.00336	272.65803
0.00504	317.65677
0.00672	346.87668
0.00840	366.83411
0.01008	380.16536
0.01176	388.37691
0.01344	392.44090
0.01512	393.03315
0.01680	390.64849
0.01848	385.66350
0.02016	378.52904
0.03360	272.92904
0.04704	167.32904
0.06048	61.72904
0.06384	61.72904

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 3.600 m
Depth of p-y curve below pile head = 3.800 m
Depth of p-y curve below ground surface = 3.800 m
Equiv. depth of p-y curve below ground surface = 1.684 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 6.802 m
Static pu_s for flat ground = 140.836 kN/m
Static pu_d for flat ground = 252.000 kN/m
y_50 = 0.04000 m

p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 140.836 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00009481	9.38908
0.00075852	18.77816
0.00256	28.16723
0.00607	37.55631
0.01185	46.94539
0.02048	56.33447
0.03252	65.72355
0.04855	75.11262
0.06912	84.50170
0.09481	93.89078
0.12620	103.27986
0.16384	112.66894
0.20831	122.05801
0.26017	131.44709
0.32000	140.83617
0.34000	140.83617

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 3.600 m
Depth of p-y curve below pile head = 9.000 m
Depth of p-y curve below ground surface = 9.000 m
Equiv. depth of p-y curve below ground surface = 9.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 6.802 m

Static pu_s for flat ground = 306.300 kN/m
Static pu_d for flat ground = 252.000 kN/m
y_50 = 0.04000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 252.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00009481	16.80000
0.00075852	33.60000
0.00256	50.40000
0.00607	67.20000
0.01185	84.00000
0.02048	100.80000
0.03252	117.60000
0.04855	134.40000
0.06912	151.20000
0.09481	168.00000
0.12620	184.80000
0.16384	201.60000
0.20831	218.40000
0.26017	235.20000
0.32000	252.00000
0.34000	252.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 3.600 m
Depth of p-y curve below pile head = 11.000 m
Depth of p-y curve below ground surface = 11.000 m
Equiv. depth of p-y curve below ground surface = 11.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa

Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 6.802 m
Static pu_s for flat ground = 355.700 kN/m
Static pu_d for flat ground = 252.000 kN/m
y_50 = 0.04000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 252.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00009481	16.80000
0.00075852	33.60000
0.00256	50.40000
0.00607	67.20000
0.01185	84.00000
0.02048	100.80000
0.03252	117.60000
0.04855	134.40000
0.06912	151.20000
0.09481	168.00000
0.12620	184.80000
0.16384	201.60000
0.20831	218.40000
0.26017	235.20000
0.32000	252.00000
0.34000	252.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 11.200 m
Depth of p-y curve below pile head = 11.400 m
Depth of p-y curve below ground surface = 11.400 m
Equiv. depth of p-y curve below ground surface = 11.400 m

Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 7.273 m
Static pu_s for flat ground = 446.580 kN/m
Static pu_d for flat ground = 324.000 kN/m
y_50 = 0.03000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 324.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00007111	21.60000
0.00056889	43.20000
0.00192	64.80000
0.00455	86.40000
0.00889	108.00000
0.01536	129.60000
0.02439	151.20000
0.03641	172.80000
0.05184	194.40000
0.07111	216.00000
0.09465	237.60000
0.12288	259.20000
0.15623	280.80000
0.19513	302.40000
0.24000	324.00000
0.25500	324.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 11.200 m

Depth of p-y curve below pile head = 16.000 m
Depth of p-y curve below ground surface = 16.000 m
Equiv. depth of p-y curve below ground surface = 16.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 7.273 m
Static pu_s for flat ground = 583.200 kN/m
Static pu_d for flat ground = 324.000 kN/m
y_50 = 0.03000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 324.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00007111	21.60000
0.00056889	43.20000
0.00192	64.80000
0.00455	86.40000
0.00889	108.00000
0.01536	129.60000
0.02439	151.20000
0.03641	172.80000
0.05184	194.40000
0.07111	216.00000
0.09465	237.60000
0.12288	259.20000
0.15623	280.80000
0.19513	302.40000
0.24000	324.00000
0.25500	324.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 11.200 m
Depth of p-y curve below pile head = 19.800 m
Depth of p-y curve below ground surface = 19.800 m
Equiv. depth of p-y curve below ground surface = 19.800 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 7.273 m
Static pu_s for flat ground = 696.060 kN/m
Static pu_d for flat ground = 324.000 kN/m
y_50 = 0.03000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 324.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00007111	21.60000
0.00056889	43.20000
0.00192	64.80000
0.00455	86.40000
0.00889	108.00000
0.01536	129.60000
0.02439	151.20000
0.03641	172.80000
0.05184	194.40000
0.07111	216.00000
0.09465	237.60000
0.12288	259.20000
0.15623	280.80000
0.19513	302.40000
0.24000	324.00000
0.25500	324.00000

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 1

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 50.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	5.13E-04	0.00	50.0000	-2.57E-04	0.00	562973.	0.00	0.00	0.00
0.2000	4.61E-04	10.0000	48.7482	-2.56E-04	198.9437	562973.	-12.5176	5429.	0.00
0.4000	4.10E-04	19.4993	45.2685	-2.50E-04	387.9262	562973.	-22.2799	10858.	0.00
0.6000	3.61E-04	28.1074	40.1005	-2.42E-04	559.1789	562973.	-29.3998	16287.	0.00
0.8000	3.14E-04	35.5395	33.7549	-2.31E-04	707.0360	562973.	-34.0566	21716.	0.00
1.0000	2.69E-04	41.6093	26.7008	-2.17E-04	827.7917	562973.	-36.4844	27145.	0.00
1.2000	2.27E-04	46.2198	19.3564	-2.01E-04	919.5140	562973.	-36.9592	32574.	0.00
1.4000	1.88E-04	49.3519	12.0821	-1.84E-04	981.8252	562973.	-35.7840	38003.	0.00
1.6000	1.53E-04	51.0527	5.1762	-1.66E-04	1016.	562973.	-33.2745	43432.	0.00
1.8000	1.22E-04	51.4224	-1.1258	-1.48E-04	1023.	562973.	-29.7459	48860.	0.00
2.0000	9.39E-05	50.6023	-6.6504	-1.30E-04	1007.	562973.	-25.5005	54289.	0.00
2.2000	6.97E-05	48.7622	-11.2824	-1.12E-04	970.0938	562973.	-20.8187	59718.	0.00
2.4000	4.90E-05	46.0894	-14.9593	-9.56E-05	916.9192	562973.	-15.9504	65147.	0.00
2.6000	3.15E-05	42.7785	-17.6654	-7.98E-05	851.0517	562973.	-11.1110	70576.	0.00
2.8000	1.70E-05	39.0232	-19.4243	-6.53E-05	776.3422	562973.	-6.4776	76005.	0.00
3.0000	5.38E-06	35.0088	-20.2910	-5.21E-05	696.4781	562973.	-2.1892	81434.	0.00
3.2000	-3.80E-06	30.9068	-20.3446	-4.04E-05	614.8719	562973.	1.6525	86863.	0.00
3.4000	-1.08E-05	26.8710	-19.6815	-3.02E-05	534.5807	562973.	4.9792	92292.	0.00
3.6000	-1.59E-05	23.0342	-18.3195	-2.13E-05	458.2517	562973.	8.6407	108921.	0.00
3.8000	-1.93E-05	19.5432	-16.9037	-1.37E-05	388.7989	562973.	5.5170	57155.	0.00
4.0000	-2.14E-05	16.2728	-15.7614	-7.36E-06	323.7364	562973.	5.9062	55311.	0.00
4.2000	-2.23E-05	13.2386	-14.5517	-2.12E-06	263.3738	562973.	6.1903	55641.	0.00
4.4000	-2.22E-05	10.4521	-13.2938	2.09E-06	207.9374	562973.	6.3885	57541.	0.00
4.6000	-2.14E-05	7.9211	-12.0038	5.35E-06	157.5848	562973.	6.5118	60811.	0.00

4.8000	-2.01E-05	5.6506	-10.6959	7.76E-06	112.4142	562973.	6.5673	65460.	0.00
5.0000	-1.83E-05	3.6427	-9.3832	9.41E-06	72.4697	562973.	6.5597	71642.	0.00
5.2000	-1.63E-05	1.8973	-8.0780	1.04E-05	37.7453	562973.	6.4924	79657.	0.00
5.4000	-1.42E-05	0.4115	-6.7920	1.08E-05	8.1873	562973.	6.3678	89976.	0.00
5.6000	-1.20E-05	-0.8195	-5.5364	1.07E-05	16.3034	562973.	6.1878	103314.	0.00
5.8000	-9.86E-06	-1.8030	-4.3222	1.03E-05	35.8700	562973.	5.9538	120754.	0.00
6.0000	-7.87E-06	-2.5484	-3.1601	9.49E-06	50.6987	562973.	5.6671	143987.	0.00
6.2000	-6.06E-06	-3.0671	-2.0606	8.50E-06	61.0176	562973.	5.3282	175750.	0.00
6.4000	-4.47E-06	-3.3726	-1.0341	7.35E-06	67.0965	562973.	4.9373	220759.	0.00
6.6000	-3.12E-06	-3.4807	-0.09099	6.14E-06	69.2464	562973.	4.4934	287836.	0.00
6.8000	-2.02E-06	-3.4090	0.7578	4.91E-06	67.8206	562973.	3.9942	395704.	0.00
7.0000	-1.16E-06	-3.1776	1.5508	3.74E-06	63.2163	562973.	3.9361	680077.	0.00
7.2000	-5.22E-07	-2.7887	2.2597	2.68E-06	55.4797	562973.	3.1534	1208028.	0.00
7.4000	-8.48E-08	-2.2737	2.5784	1.78E-06	45.2338	562973.	0.03358	79233.	0.00
7.6000	1.91E-07	-1.7573	2.5742	1.07E-06	34.9611	562973.	-0.07568	79233.	0.00
7.8000	3.42E-07	-1.2440	2.3576	5.34E-07	24.7487	562973.	-2.0906	1222818.	0.00
8.0000	4.04E-07	-0.8143	1.9272	1.68E-07	16.1999	562973.	-2.2132	1094408.	0.00
8.2000	4.09E-07	-0.4731	1.4863	-6.07E-08	9.4123	562973.	-2.1957	1073359.	0.00
8.4000	3.80E-07	-0.2198	1.0552	-1.84E-07	4.3721	562973.	-2.1158	1113049.	0.00
8.6000	3.36E-07	-0.05105	0.6418	-2.32E-07	1.0156	562973.	-2.0178	1202432.	0.00
8.8000	2.87E-07	0.03696	0.2468	-2.34E-07	0.7352	562973.	-1.9320	1344342.	0.00
9.0000	2.42E-07	0.04768	0.04403	-2.19E-07	0.9485	562973.	-0.09582	79233.	0.00
9.2000	2.00E-07	0.05457	0.02654	-2.01E-07	1.0856	562973.	-0.07911	79233.	0.00
9.4000	1.61E-07	0.05829	0.01223	-1.81E-07	1.1597	562973.	-0.06394	79233.	0.00
9.6000	1.27E-07	0.05946	7.99E-04	-1.60E-07	1.1830	562973.	-0.05041	79233.	0.00
9.8000	9.73E-08	0.05861	-0.00810	-1.39E-07	1.1661	562973.	-0.03855	79233.	0.00
10.0000	7.15E-08	0.05622	-0.01479	-1.19E-07	1.1185	562973.	-0.02834	79233.	0.00
10.2000	4.98E-08	0.05270	-0.01959	-9.95E-08	1.0484	562973.	-0.01972	79233.	0.00
10.4000	3.17E-08	0.04839	-0.02282	-8.15E-08	0.9626	562973.	-0.01258	79233.	0.00
10.6000	1.72E-08	0.04357	-0.02476	-6.52E-08	0.8668	562973.	-0.00680	79233.	0.00
10.8000	5.66E-09	0.03848	-0.02566	-5.06E-08	0.7656	562973.	-0.00224	79233.	0.00
11.0000	-3.10E-09	0.03331	-0.02576	-3.79E-08	0.6626	562973.	0.00123	79233.	0.00
11.2000	-9.49E-09	0.02818	-0.02507	-2.70E-08	0.5606	562973.	0.00573	120736.	0.00
11.4000	-1.39E-08	0.02328	-0.02355	-1.78E-08	0.4631	562973.	0.00943	135828.	0.00
11.6000	-1.66E-08	0.01876	-0.02148	-1.04E-08	0.3731	562973.	0.01129	135828.	0.00
11.8000	-1.80E-08	0.01469	-0.01913	-4.41E-09	0.2922	562973.	0.01224	135828.	0.00
12.0000	-1.84E-08	0.01111	-0.01666	1.67E-10	0.2209	562973.	0.01249	135828.	0.00
12.2000	-1.80E-08	0.00802	-0.01419	3.57E-09	0.1596	562973.	0.01220	135828.	0.00
12.4000	-1.70E-08	0.00543	-0.01182	5.95E-09	0.1080	562973.	0.01152	135828.	0.00
12.6000	-1.56E-08	0.00330	-0.00961	7.51E-09	0.06560	562973.	0.01058	135828.	0.00
12.8000	-1.40E-08	0.00159	-0.00760	8.37E-09	0.03159	562973.	0.00948	135828.	0.00
13.0000	-1.22E-08	2.57E-04	-0.00582	8.70E-09	0.00512	562973.	0.00830	135828.	0.00
13.2000	-1.05E-08	-7.41E-04	-0.00428	8.61E-09	0.01474	562973.	0.00712	135828.	0.00
13.4000	-8.78E-09	-0.00145	-0.00297	8.22E-09	0.02894	562973.	0.00596	135828.	0.00

13.6000	-7.19E-09	-0.00193	-0.00189	7.62E-09	0.03839	562973.	0.00488	135828.	0.00
13.8000	-5.73E-09	-0.00221	-0.00101	6.89E-09	0.04396	562973.	0.00389	135828.	0.00
14.0000	-4.43E-09	-0.00233	-3.20E-04	6.08E-09	0.04643	562973.	0.00301	135828.	0.00
14.2000	-3.30E-09	-0.00234	2.05E-04	5.25E-09	0.04651	562973.	0.00224	135828.	0.00
14.4000	-2.33E-09	-0.00225	5.87E-04	4.44E-09	0.04480	562973.	0.00158	135828.	0.00
14.6000	-1.52E-09	-0.00210	8.49E-04	3.66E-09	0.04183	562973.	0.00104	135828.	0.00
14.8000	-8.66E-10	-0.00191	0.00101	2.95E-09	0.03804	562973.	5.88E-04	135828.	0.00
15.0000	-3.44E-10	-0.00170	0.00109	2.31E-09	0.03378	562973.	2.34E-04	135828.	0.00
15.2000	5.71E-11	-0.00147	0.00111	1.74E-09	0.02934	562973.	-3.88E-05	135828.	0.00
15.4000	3.54E-10	-0.00125	0.00109	1.26E-09	0.02493	562973.	-2.40E-04	135828.	0.00
15.6000	5.61E-10	-0.00104	0.00102	8.53E-10	0.02070	562973.	-3.81E-04	135828.	0.00
15.8000	6.95E-10	-8.44E-04	9.38E-04	5.18E-10	0.01678	562973.	-4.72E-04	135828.	0.00
16.0000	7.68E-10	-6.65E-04	8.39E-04	2.50E-10	0.01324	562973.	-5.22E-04	135828.	0.00
16.2000	7.95E-10	-5.08E-04	7.32E-04	4.17E-11	0.01011	562973.	-5.40E-04	135828.	0.00
16.4000	7.85E-10	-3.73E-04	6.25E-04	-1.15E-10	0.00741	562973.	-5.33E-04	135828.	0.00
16.6000	7.49E-10	-2.58E-04	5.21E-04	-2.27E-10	0.00514	562973.	-5.09E-04	135828.	0.00
16.8000	6.94E-10	-1.64E-04	4.23E-04	-3.02E-10	0.00327	562973.	-4.72E-04	135828.	0.00
17.0000	6.28E-10	-8.90E-05	3.33E-04	-3.47E-10	0.00177	562973.	-4.27E-04	135828.	0.00
17.2000	5.56E-10	-3.09E-05	2.53E-04	-3.68E-10	6.15E-04	562973.	-3.77E-04	135828.	0.00
17.4000	4.81E-10	1.21E-05	1.82E-04	-3.71E-10	2.40E-04	562973.	-3.27E-04	135828.	0.00
17.6000	4.07E-10	4.20E-05	1.22E-04	-3.62E-10	8.35E-04	562973.	-2.76E-04	135828.	0.00
17.8000	3.36E-10	6.08E-05	7.15E-05	-3.44E-10	0.00121	562973.	-2.28E-04	135828.	0.00
18.0000	2.70E-10	7.06E-05	3.03E-05	-3.20E-10	0.00140	562973.	-1.83E-04	135828.	0.00
18.2000	2.08E-10	7.30E-05	-2.13E-06	-2.95E-10	0.00145	562973.	-1.41E-04	135828.	0.00
18.4000	1.52E-10	6.97E-05	-2.66E-05	-2.69E-10	0.00139	562973.	-1.03E-04	135828.	0.00
18.6000	1.00E-10	6.23E-05	-4.37E-05	-2.46E-10	0.00124	562973.	-6.82E-05	135828.	0.00
18.8000	5.34E-11	5.22E-05	-5.41E-05	-2.26E-10	0.00104	562973.	-3.63E-05	135828.	0.00
19.0000	1.02E-11	4.07E-05	-5.85E-05	-2.09E-10	8.09E-04	562973.	-6.89E-06	135828.	0.00
19.2000	-3.02E-11	2.89E-05	-5.71E-05	-1.97E-10	5.74E-04	562973.	2.05E-05	135828.	0.00
19.4000	-6.85E-11	1.78E-05	-5.04E-05	-1.88E-10	3.55E-04	562973.	4.65E-05	135828.	0.00
19.6000	-1.06E-10	8.70E-06	-3.86E-05	-1.84E-10	1.73E-04	562973.	7.17E-05	135828.	0.00
19.8000	-1.42E-10	2.42E-06	-2.18E-05	-1.82E-10	4.82E-05	562973.	9.64E-05	135828.	0.00
20.0000	-1.78E-10	0.00	0.00	-1.81E-10	0.00	562973.	1.21E-04	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 1:

Pile-head deflection = 0.00051260 meters
Computed slope at pile head = -0.00025731 radians
Maximum bending moment = 51.42241191 kN-m
Maximum shear force = 50.00000000 kN
Depth of maximum bending moment = 1.80000000 meters below pile head

Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 15
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 2

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 75.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	8.07E-04	-1.53E-11	75.0000	-4.01E-04	3.04E-10	562973.	0.00	0.00	0.00
0.2000	7.27E-04	15.0000	73.0275	-3.98E-04	298.4155	562973.	-19.7248	5429.	0.00
0.4000	6.48E-04	29.2110	67.5393	-3.90E-04	581.1346	562973.	-35.1579	10858.	0.00
0.6000	5.71E-04	42.0157	59.7432	-3.77E-04	835.8758	562973.	-42.8029	15002.	0.00
0.8000	4.97E-04	53.1083	50.7740	-3.61E-04	1057.	562973.	-46.8887	18883.	0.00
1.0000	4.26E-04	62.3253	41.0957	-3.40E-04	1240.	562973.	-49.8945	23402.	0.00
1.2000	3.61E-04	69.5466	30.9250	-3.17E-04	1384.	562973.	-51.8130	28735.	0.00
1.4000	3.00E-04	74.6953	20.4791	-2.91E-04	1486.	562973.	-52.6455	35123.	0.00
1.6000	2.44E-04	77.7382	9.9747	-2.64E-04	1547.	562973.	-52.3982	42907.	0.00
1.8000	1.94E-04	78.6852	-0.00992	-2.36E-04	1565.	562973.	-47.4485	48860.	0.00
2.0000	1.50E-04	77.7342	-8.8209	-2.08E-04	1546.	562973.	-40.6611	54289.	0.00
2.2000	1.11E-04	75.1568	-16.1981	-1.81E-04	1495.	562973.	-33.1109	59718.	0.00
2.4000	7.73E-05	71.2550	-22.0280	-1.55E-04	1418.	562973.	-25.1881	65147.	0.00
2.6000	4.88E-05	66.3456	-26.2698	-1.31E-04	1320.	562973.	-17.2297	70576.	0.00
2.8000	2.50E-05	60.7471	-28.9443	-1.08E-04	1209.	562973.	-9.5154	76005.	0.00
3.0000	5.57E-06	54.7679	-30.1225	-8.76E-05	1090.	562973.	-2.2672	81434.	0.00
3.2000	-1.00E-05	48.6981	-29.9144	-6.92E-05	968.8176	562973.	4.3480	86863.	0.00
3.4000	-2.21E-05	42.8022	-28.4584	-5.30E-05	851.5218	562973.	10.2124	92292.	0.00
3.6000	-3.12E-05	37.3147	-26.3530	-3.88E-05	742.3528	562973.	10.8419	69480.	0.00
3.8000	-3.76E-05	32.2610	-24.5787	-2.64E-05	641.8115	562973.	6.9012	36674.	0.00
4.0000	-4.18E-05	27.4833	-23.1490	-1.58E-05	546.7619	562973.	7.3960	35413.	0.00
4.2000	-4.40E-05	23.0014	-21.6316	-6.82E-06	457.5979	562973.	7.7778	35392.	0.00
4.4000	-4.45E-05	18.8306	-20.0472	6.06E-07	374.6233	562973.	8.0663	36253.	0.00

4.6000	-4.37E-05	14.9825	-18.4132	6.61E-06	298.0676	562973.	8.2730	37854.	0.00
4.8000	-4.19E-05	11.4653	-16.7454	1.13E-05	228.0954	562973.	8.4056	40165.	0.00
5.0000	-3.92E-05	8.2844	-15.0579	1.48E-05	164.8122	562973.	8.4690	43225.	0.00
5.2000	-3.59E-05	5.4422	-13.3644	1.73E-05	108.2684	562973.	8.4666	47131.	0.00
5.4000	-3.23E-05	2.9386	-11.6776	1.87E-05	58.4621	562973.	8.4012	52047.	0.00
5.6000	-2.84E-05	0.7711	-10.0100	1.94E-05	15.3412	562973.	8.2747	58211.	0.00
5.8000	-2.45E-05	-1.0654	-8.3737	1.94E-05	21.1949	562973.	8.0886	65972.	0.00
6.0000	-2.07E-05	-2.5783	-6.7804	1.87E-05	51.2942	562973.	7.8443	75831.	0.00
6.2000	-1.70E-05	-3.7775	-5.2416	1.76E-05	75.1513	562973.	7.5430	88535.	0.00
6.4000	-1.37E-05	-4.6750	-3.7688	1.61E-05	93.0058	562973.	7.1854	105214.	0.00
6.6000	-1.06E-05	-5.2850	-2.3730	1.43E-05	105.1424	562973.	6.7724	127662.	0.00
6.8000	-7.94E-06	-5.6242	-1.0654	1.24E-05	111.8898	562973.	6.3043	158868.	0.00
7.0000	-5.66E-06	-5.7112	0.2277	1.04E-05	113.6203	562973.	6.6258	234010.	0.00
7.2000	-3.79E-06	-5.5331	1.4733	8.36E-06	110.0781	562973.	5.8308	307292.	0.00
7.4000	-2.32E-06	-5.1218	2.5567	6.46E-06	101.8959	562973.	5.0029	431243.	0.00
7.6000	-1.21E-06	-4.5104	3.4699	4.75E-06	89.7325	562973.	4.1294	682888.	0.00
7.8000	-4.19E-07	-3.7339	3.8995	3.29E-06	74.2830	562973.	0.1660	79233.	0.00
8.0000	1.06E-07	-2.9507	3.9119	2.10E-06	58.7015	562973.	-0.04201	79233.	0.00
8.2000	4.21E-07	-2.1691	3.6522	1.19E-06	43.1533	562973.	-2.5545	1212229.	0.00
8.4000	5.83E-07	-1.4898	3.0985	5.42E-07	29.6379	562973.	-2.9826	1023633.	0.00
8.6000	6.38E-07	-0.9297	2.4829	1.12E-07	18.4961	562973.	-3.1734	994488.	0.00
8.8000	6.28E-07	-0.4966	1.8388	-1.41E-07	9.8795	562973.	-3.2677	1041356.	0.00
9.0000	5.82E-07	-0.1942	1.1782	-2.64E-07	3.8633	562973.	-3.3381	1147714.	0.00
9.2000	5.22E-07	-0.02531	0.5007	-3.03E-07	0.5034	562973.	-3.4372	1316928.	0.00
9.4000	4.61E-07	0.00609	0.1387	-3.06E-07	0.1211	562973.	-0.1824	79233.	0.00
9.6000	3.99E-07	0.03018	0.1047	-3.00E-07	0.6005	562973.	-0.1583	79233.	0.00
9.8000	3.41E-07	0.04795	0.07534	-2.86E-07	0.9540	562973.	-0.1349	79233.	0.00
10.0000	2.85E-07	0.06032	0.05056	-2.67E-07	1.2000	562973.	-0.1129	79233.	0.00
10.2000	2.34E-07	0.06817	0.03000	-2.44E-07	1.3563	562973.	-0.09264	79233.	0.00
10.4000	1.87E-07	0.07232	0.01331	-2.19E-07	1.4388	562973.	-0.07426	79233.	0.00
10.6000	1.46E-07	0.07350	9.05E-05	-1.93E-07	1.4622	562973.	-0.05793	79233.	0.00
10.8000	1.10E-07	0.07236	-0.01007	-1.67E-07	1.4395	562973.	-0.04366	79233.	0.00
11.0000	7.93E-08	0.06947	-0.01758	-1.42E-07	1.3821	562973.	-0.03143	79233.	0.00
11.2000	5.34E-08	0.06533	-0.02394	-1.18E-07	1.2996	562973.	-0.03224	120736.	0.00
11.4000	3.21E-08	0.05989	-0.02935	-9.58E-08	1.1915	562973.	-0.02180	135828.	0.00
11.6000	1.51E-08	0.05359	-0.03255	-7.57E-08	1.0661	562973.	-0.01023	135828.	0.00
11.8000	1.83E-09	0.04687	-0.03370	-5.78E-08	0.9325	562973.	-0.00124	135828.	0.00
12.0000	-8.07E-09	0.04011	-0.03328	-4.24E-08	0.7979	562973.	0.00548	135828.	0.00
12.2000	-1.51E-08	0.03356	-0.03170	-2.93E-08	0.6677	562973.	0.01027	135828.	0.00
12.4000	-1.98E-08	0.02743	-0.02933	-1.85E-08	0.5456	562973.	0.01344	135828.	0.00
12.6000	-2.25E-08	0.02183	-0.02646	-9.72E-09	0.4343	562973.	0.01529	135828.	0.00
12.8000	-2.37E-08	0.01684	-0.02332	-2.85E-09	0.3351	562973.	0.01608	135828.	0.00
13.0000	-2.36E-08	0.01250	-0.02011	2.36E-09	0.2487	562973.	0.01606	135828.	0.00
13.2000	-2.27E-08	0.00880	-0.01696	6.15E-09	0.1751	562973.	0.01544	135828.	0.00

13.4000	-2.12E-08	0.00572	-0.01397	8.73E-09	0.1138	562973.	0.01439	135828.	0.00
13.6000	-1.92E-08	0.00321	-0.01123	1.03E-08	0.06388	562973.	0.01307	135828.	0.00
13.8000	-1.71E-08	0.00123	-0.00876	1.11E-08	0.02441	562973.	0.01159	135828.	0.00
14.0000	-1.48E-08	-2.94E-04	-0.00660	1.13E-08	0.00585	562973.	0.01005	135828.	0.00
14.2000	-1.26E-08	-0.00141	-0.00474	1.10E-08	0.02810	562973.	0.00853	135828.	0.00
14.4000	-1.04E-08	-0.00219	-0.00318	1.03E-08	0.04357	562973.	0.00707	135828.	0.00
14.6000	-8.43E-09	-0.00268	-0.00190	9.46E-09	0.05341	562973.	0.00572	135828.	0.00
14.8000	-6.63E-09	-0.00295	-8.78E-04	8.46E-09	0.05869	562973.	0.00450	135828.	0.00
15.0000	-5.05E-09	-0.00304	-8.46E-05	7.39E-09	0.06039	562973.	0.00343	135828.	0.00
15.2000	-3.68E-09	-0.00298	5.08E-04	6.32E-09	0.05937	562973.	0.00250	135828.	0.00
15.4000	-2.52E-09	-0.00283	9.28E-04	5.29E-09	0.05635	562973.	0.00171	135828.	0.00
15.6000	-1.56E-09	-0.00261	0.00120	4.32E-09	0.05198	562973.	0.00106	135828.	0.00
15.8000	-7.87E-10	-0.00235	0.00136	3.44E-09	0.04676	562973.	5.34E-04	135828.	0.00
16.0000	-1.82E-10	-0.00207	0.00143	2.66E-09	0.04112	562973.	1.23E-04	135828.	0.00
16.2000	2.76E-10	-0.00178	0.00142	1.97E-09	0.03538	562973.	-1.88E-04	135828.	0.00
16.4000	6.08E-10	-0.00150	0.00136	1.39E-09	0.02979	562973.	-4.13E-04	135828.	0.00
16.6000	8.33E-10	-0.00123	0.00127	9.07E-10	0.02453	562973.	-5.66E-04	135828.	0.00
16.8000	9.71E-10	-9.91E-04	0.00114	5.12E-10	0.01972	562973.	-6.59E-04	135828.	0.00
17.0000	1.04E-09	-7.76E-04	0.00101	1.98E-10	0.01544	562973.	-7.05E-04	135828.	0.00
17.2000	1.05E-09	-5.89E-04	8.65E-04	-4.42E-11	0.01171	562973.	-7.13E-04	135828.	0.00
17.4000	1.02E-09	-4.30E-04	7.24E-04	-2.25E-10	0.00855	562973.	-6.93E-04	135828.	0.00
17.6000	9.60E-10	-2.99E-04	5.90E-04	-3.55E-10	0.00595	562973.	-6.52E-04	135828.	0.00
17.8000	8.78E-10	-1.94E-04	4.65E-04	-4.42E-10	0.00386	562973.	-5.97E-04	135828.	0.00
18.0000	7.83E-10	-1.13E-04	3.52E-04	-4.97E-10	0.00225	562973.	-5.32E-04	135828.	0.00
18.2000	6.80E-10	-5.32E-05	2.53E-04	-5.26E-10	0.00106	562973.	-4.62E-04	135828.	0.00
18.4000	5.73E-10	-1.18E-05	1.68E-04	-5.38E-10	2.35E-04	562973.	-3.89E-04	135828.	0.00
18.6000	4.65E-10	1.40E-05	9.73E-05	-5.37E-10	2.78E-04	562973.	-3.16E-04	135828.	0.00
18.8000	3.58E-10	2.71E-05	4.15E-05	-5.30E-10	5.39E-04	562973.	-2.43E-04	135828.	0.00
19.0000	2.53E-10	3.05E-05	2.75E-08	-5.20E-10	6.08E-04	562973.	-1.72E-04	135828.	0.00
19.2000	1.50E-10	2.71E-05	-2.73E-05	-5.10E-10	5.39E-04	562973.	-1.02E-04	135828.	0.00
19.4000	4.87E-11	1.96E-05	-4.08E-05	-5.01E-10	3.90E-04	562973.	-3.31E-05	135828.	0.00
19.6000	-5.08E-11	1.08E-05	-4.06E-05	-4.96E-10	2.15E-04	562973.	3.45E-05	135828.	0.00
19.8000	-1.50E-10	3.37E-06	-2.70E-05	-4.93E-10	6.71E-05	562973.	1.02E-04	135828.	0.00
20.0000	-2.48E-10	0.00	0.00	-4.93E-10	0.00	562973.	1.69E-04	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 2:

Pile-head deflection = 0.00080677 meters
Computed slope at pile head = -0.00040059 radians
Maximum bending moment = 78.68518478 kN-m
Maximum shear force = 75.00000000 kN

Depth of maximum bending moment = 1.80000000 meters below pile head

Depth of maximum shear force = 0.000000 meters below pile head

Number of iterations = 6

Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 3

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 100.000 kN

Applied moment at pile head = 0.000 kN-m

Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00119	-1.22E-11	100.0000	-5.73E-04	2.43E-10	562973.	0.00	0.00	0.00
0.2000	0.00107	20.0000	97.0941	-5.69E-04	397.8874	562973.	-29.0591	5429.	0.00
0.4000	9.57E-04	38.8376	89.6096	-5.59E-04	772.6502	562973.	-45.7861	9564.	0.00
0.6000	8.47E-04	55.8438	79.8156	-5.42E-04	1111.	562973.	-52.1540	12313.	0.00
0.8000	7.41E-04	70.7639	68.8734	-5.19E-04	1408.	562973.	-57.2672	15462.	0.00
1.0000	6.39E-04	83.3932	57.0366	-4.92E-04	1659.	562973.	-61.1009	19111.	0.00
1.2000	5.44E-04	93.5785	44.5625	-4.60E-04	1862.	562973.	-63.6404	23397.	0.00
1.4000	4.55E-04	101.2182	31.7105	-4.26E-04	2014.	562973.	-64.8793	28502.	0.00
1.6000	3.74E-04	106.2627	18.7410	-3.89E-04	2114.	562973.	-64.8159	34690.	0.00
1.8000	3.00E-04	108.7146	5.9147	-3.51E-04	2163.	562973.	-63.4476	42345.	0.00
2.0000	2.33E-04	108.6286	-6.5062	-3.12E-04	2161.	562973.	-60.7610	52070.	0.00
2.2000	1.75E-04	106.1121	-17.8019	-2.74E-04	2111.	562973.	-52.1959	59718.	0.00
2.4000	1.24E-04	101.5078	-27.0532	-2.37E-04	2019.	562973.	-40.3173	65147.	0.00
2.6000	8.00E-05	95.2908	-33.9063	-2.02E-04	1896.	562973.	-28.2131	70576.	0.00
2.8000	4.29E-05	87.9453	-38.3578	-1.70E-04	1750.	562973.	-16.3028	76005.	0.00
3.0000	1.21E-05	79.9477	-40.4807	-1.40E-04	1591.	562973.	-4.9253	81434.	0.00
3.2000	-1.30E-05	71.7531	-40.4074	-1.13E-04	1427.	562973.	5.6574	86863.	0.00
3.4000	-3.31E-05	63.7847	-38.3166	-8.88E-05	1269.	562973.	15.2514	92292.	0.00
3.6000	-4.85E-05	56.4264	-35.5341	-6.74E-05	1123.	562973.	12.5730	51802.	0.00
3.8000	-6.00E-05	49.5711	-33.4698	-4.86E-05	986.1853	562973.	8.0697	26887.	0.00
4.0000	-6.80E-05	43.0385	-31.7922	-3.22E-05	856.2239	562973.	8.7069	25614.	0.00
4.2000	-7.29E-05	36.8542	-30.0001	-1.80E-05	733.1912	562973.	9.2137	25281.	0.00

4.4000	-7.52E-05	31.0385	-28.1173	-5.91E-06	617.4906	562973.	9.6147	25580.	0.00
4.6000	-7.53E-05	25.6073	-26.1634	4.15E-06	509.4412	562973.	9.9241	26375.	0.00
4.8000	-7.35E-05	20.5731	-24.1559	1.24E-05	409.2891	562973.	10.1508	27616.	0.00
5.0000	-7.03E-05	15.9450	-22.1107	1.88E-05	317.2147	562973.	10.3008	29300.	0.00
5.2000	-6.60E-05	11.7288	-20.0428	2.38E-05	233.3375	562973.	10.3782	31460.	0.00
5.4000	-6.08E-05	7.9278	-17.9664	2.72E-05	157.7190	562973.	10.3857	34159.	0.00
5.6000	-5.51E-05	4.5422	-15.8953	2.95E-05	90.3651	562973.	10.3256	37495.	0.00
5.8000	-4.90E-05	1.5697	-13.8428	3.05E-05	31.2281	562973.	10.1993	41610.	0.00
6.0000	-4.29E-05	-0.9949	-11.8221	3.07E-05	19.7925	562973.	10.0080	46704.	0.00
6.2000	-3.68E-05	-3.1591	-9.8461	2.99E-05	62.8491	562973.	9.7525	53057.	0.00
6.4000	-3.09E-05	-4.9333	-7.9275	2.85E-05	98.1449	562973.	9.4333	61074.	0.00
6.6000	-2.54E-05	-6.3301	-6.0791	2.65E-05	125.9340	562973.	9.0506	71345.	0.00
6.8000	-2.03E-05	-7.3649	-4.3136	2.40E-05	146.5208	562973.	8.6044	84768.	0.00
7.0000	-1.58E-05	-8.0556	-2.5255	2.13E-05	160.2604	562973.	9.2766	117767.	0.00
7.2000	-1.18E-05	-8.3751	-0.7551	1.84E-05	166.6179	562973.	8.4271	143081.	0.00
7.4000	-8.40E-06	-8.3576	0.8414	1.54E-05	166.2694	562973.	7.5380	179481.	0.00
7.6000	-5.61E-06	-8.0386	2.2555	1.25E-05	159.9223	562973.	6.6031	235234.	0.00
7.8000	-3.40E-06	-7.4554	3.4763	9.75E-06	148.3206	562973.	5.6048	329751.	0.00
8.0000	-1.71E-06	-6.6481	4.4863	7.24E-06	132.2588	562973.	4.4951	524361.	0.00
8.2000	-5.02E-07	-5.6609	5.2449	5.06E-06	112.6198	562973.	3.0913	1231699.	0.00
8.4000	3.08E-07	-4.5501	5.5419	3.24E-06	90.5209	562973.	-0.1222	79233.	0.00
8.6000	7.95E-07	-3.4441	5.1948	1.82E-06	68.5192	562973.	-3.3483	841866.	0.00
8.8000	1.04E-06	-2.4722	4.4909	7.73E-07	49.1819	562973.	-3.6907	711265.	0.00
9.0000	1.10E-06	-1.6478	3.7433	4.08E-08	32.7817	562973.	-3.7853	685432.	0.00
9.2000	1.05E-06	-0.9748	2.9906	-4.25E-07	19.3936	562973.	-3.7420	709982.	0.00
9.4000	9.34E-07	-0.4516	2.2549	-6.78E-07	8.9834	562973.	-3.6144	773573.	0.00
9.6000	7.83E-07	-0.07285	1.5497	-7.72E-07	1.4494	562973.	-3.4379	878429.	0.00
9.8000	6.26E-07	0.1683	0.8818	-7.55E-07	3.3489	562973.	-3.2416	1035943.	0.00
10.0000	4.81E-07	0.2799	0.2524	-6.75E-07	5.5675	562973.	-3.0523	1269427.	0.00
10.2000	3.56E-07	0.2693	-0.06696	-5.77E-07	5.3572	562973.	-0.1410	79233.	0.00
10.4000	2.50E-07	0.2531	-0.09095	-4.85E-07	5.0347	562973.	-0.09900	79233.	0.00
10.6000	1.62E-07	0.2329	-0.1073	-3.98E-07	4.6334	562973.	-0.06416	79233.	0.00
10.8000	9.06E-08	0.2102	-0.1173	-3.20E-07	4.1810	562973.	-0.03588	79233.	0.00
11.0000	3.41E-08	0.1860	-0.1222	-2.49E-07	3.7001	562973.	-0.01351	79233.	0.00
11.2000	-9.15E-09	0.1613	-0.1230	-1.88E-07	3.2085	562973.	0.00553	120736.	0.00
11.4000	-4.09E-08	0.1368	-0.1197	-1.35E-07	2.7213	562973.	0.02781	135828.	0.00
11.6000	-6.30E-08	0.1134	-0.1126	-9.02E-08	2.2562	562973.	0.04280	135828.	0.00
11.8000	-7.70E-08	0.09174	-0.1031	-5.38E-08	1.8251	562973.	0.05232	135828.	0.00
12.0000	-8.45E-08	0.07216	-0.09213	-2.47E-08	1.4357	562973.	0.05741	135828.	0.00
12.2000	-8.69E-08	0.05489	-0.08049	-2.10E-09	1.0919	562973.	0.05902	135828.	0.00
12.4000	-8.54E-08	0.03997	-0.06879	1.47E-08	0.7952	562973.	0.05798	135828.	0.00
12.6000	-8.10E-08	0.02737	-0.05749	2.67E-08	0.5445	562973.	0.05501	135828.	0.00
12.8000	-7.47E-08	0.01697	-0.04692	3.46E-08	0.3377	562973.	0.05072	135828.	0.00
13.0000	-6.72E-08	0.00860	-0.03728	3.91E-08	0.1712	562973.	0.04562	135828.	0.00

13.2000	-5.90E-08	0.00206	-0.02871	4.10E-08	0.04100	562973.	0.04009	135828.	0.00
13.4000	-5.08E-08	-0.00288	-0.02125	4.09E-08	0.05729	562973.	0.03447	135828.	0.00
13.6000	-4.27E-08	-0.00644	-0.01491	3.92E-08	0.1281	562973.	0.02899	135828.	0.00
13.8000	-3.51E-08	-0.00884	-0.00963	3.65E-08	0.1759	562973.	0.02382	135828.	0.00
14.0000	-2.81E-08	-0.01029	-0.00534	3.31E-08	0.2048	562973.	0.01907	135828.	0.00
14.2000	-2.18E-08	-0.01098	-0.00195	2.93E-08	0.2184	562973.	0.01482	135828.	0.00
14.4000	-1.63E-08	-0.01107	6.41E-04	2.54E-08	0.2203	562973.	0.01110	135828.	0.00
14.6000	-1.17E-08	-0.01072	0.00254	2.15E-08	0.2133	562973.	0.00792	135828.	0.00
14.8000	-7.73E-09	-0.01006	0.00386	1.79E-08	0.2001	562973.	0.00525	135828.	0.00
15.0000	-4.52E-09	-0.00918	0.00469	1.44E-08	0.1826	562973.	0.00307	135828.	0.00
15.2000	-1.95E-09	-0.00818	0.00513	1.14E-08	0.1627	562973.	0.00133	135828.	0.00
15.4000	2.55E-11	-0.00713	0.00526	8.63E-09	0.1418	562973.	-1.73E-05	135828.	0.00
15.6000	1.50E-09	-0.00608	0.00516	6.29E-09	0.1209	562973.	-0.00102	135828.	0.00
15.8000	2.54E-09	-0.00506	0.00488	4.31E-09	0.1008	562973.	-0.00173	135828.	0.00
16.0000	3.22E-09	-0.00412	0.00449	2.68E-09	0.08202	562973.	-0.00219	135828.	0.00
16.2000	3.61E-09	-0.00327	0.00403	1.36E-09	0.06502	562973.	-0.00245	135828.	0.00
16.4000	3.77E-09	-0.00251	0.00353	3.37E-10	0.04997	562973.	-0.00256	135828.	0.00
16.6000	3.75E-09	-0.00186	0.00302	-4.40E-10	0.03696	562973.	-0.00254	135828.	0.00
16.8000	3.59E-09	-0.00131	0.00252	-1.00E-09	0.02597	562973.	-0.00244	135828.	0.00
17.0000	3.34E-09	-8.51E-04	0.00205	-1.38E-09	0.01692	562973.	-0.00227	135828.	0.00
17.2000	3.04E-09	-4.87E-04	0.00161	-1.62E-09	0.00968	562973.	-0.00206	135828.	0.00
17.4000	2.70E-09	-2.05E-04	0.00122	-1.74E-09	0.00408	562973.	-0.00183	135828.	0.00
17.6000	2.34E-09	2.90E-06	8.82E-04	-1.78E-09	5.77E-05	562973.	-0.00159	135828.	0.00
17.8000	1.98E-09	1.48E-04	5.88E-04	-1.75E-09	0.00293	562973.	-0.00135	135828.	0.00
18.0000	1.64E-09	2.38E-04	3.42E-04	-1.69E-09	0.00474	562973.	-0.00111	135828.	0.00
18.2000	1.31E-09	2.84E-04	1.42E-04	-1.59E-09	0.00566	562973.	-8.89E-04	135828.	0.00
18.4000	1.00E-09	2.95E-04	-1.47E-05	-1.49E-09	0.00587	562973.	-6.80E-04	135828.	0.00
18.6000	7.13E-10	2.79E-04	-1.31E-04	-1.39E-09	0.00554	562973.	-4.85E-04	135828.	0.00
18.8000	4.46E-10	2.43E-04	-2.10E-04	-1.30E-09	0.00483	562973.	-3.03E-04	135828.	0.00
19.0000	1.95E-10	1.95E-04	-2.53E-04	-1.22E-09	0.00387	562973.	-1.33E-04	135828.	0.00
19.2000	-4.13E-11	1.41E-04	-2.64E-04	-1.16E-09	0.00281	562973.	2.80E-05	135828.	0.00
19.4000	-2.68E-10	8.91E-05	-2.43E-04	-1.12E-09	0.00177	562973.	1.82E-04	135828.	0.00
19.6000	-4.88E-10	4.42E-05	-1.92E-04	-1.09E-09	8.79E-04	562973.	3.31E-04	135828.	0.00
19.8000	-7.05E-10	1.25E-05	-1.10E-04	-1.08E-09	2.49E-04	562973.	4.79E-04	135828.	0.00
20.0000	-9.21E-10	0.00	0.00	-1.08E-09	0.00	562973.	6.26E-04	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 3:

Pile-head deflection = 0.00118503 meters
Computed slope at pile head = -0.00057254 radians
Maximum bending moment = 108.71460165 kN-m

Maximum shear force = 100.00000000 kN

Depth of maximum bending moment = 1.80000000 meters below pile head

Depth of maximum shear force = 0.000000 meters below pile head

Number of iterations = 8

Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 4

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 125.000 kN

Applied moment at pile head = 0.000 kN-m

Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00162	-2.75E-11	125.0000	-7.61E-04	5.46E-10	562973.	0.00	0.00	0.00
0.2000	0.00147	25.0000	121.0227	-7.57E-04	497.3592	562973.	-39.7732	5429.	0.00
0.4000	0.00131	48.4091	111.6803	-7.44E-04	963.0679	562973.	-53.6504	8161.	0.00
0.6000	0.00117	69.6721	100.1924	-7.23E-04	1386.	562973.	-61.2291	10487.	0.00
0.8000	0.00103	88.4860	87.3314	-6.95E-04	1760.	562973.	-67.3808	13139.	0.00
1.0000	8.90E-04	104.6047	73.3859	-6.60E-04	2081.	562973.	-72.0739	16199.	0.00
1.2000	7.61E-04	117.8404	58.6498	-6.21E-04	2344.	562973.	-75.2872	19774.	0.00
1.4000	6.41E-04	128.0646	43.4203	-5.77E-04	2548.	562973.	-77.0076	24010.	0.00
1.6000	5.31E-04	135.2085	27.9969	-5.30E-04	2690.	562973.	-77.2262	29111.	0.00
1.8000	4.29E-04	139.2634	12.6811	-4.82E-04	2771.	562973.	-75.9327	35376.	0.00
2.0000	3.38E-04	140.2809	-2.2227	-4.32E-04	2791.	562973.	-73.1046	43271.	0.00
2.2000	2.56E-04	138.3743	-16.4020	-3.83E-04	2753.	562973.	-68.6885	53566.	0.00
2.4000	1.85E-04	133.7201	-29.2927	-3.34E-04	2660.	562973.	-60.2181	65147.	0.00
2.6000	1.23E-04	126.6572	-39.6469	-2.88E-04	2520.	562973.	-43.3245	70576.	0.00
2.8000	6.97E-05	117.8614	-46.6273	-2.45E-04	2345.	562973.	-26.4797	76005.	0.00
3.0000	2.50E-05	108.0063	-50.2915	-2.04E-04	2149.	562973.	-10.1621	81434.	0.00
3.2000	-1.21E-05	97.7448	-50.7827	-1.68E-04	1945.	562973.	5.2504	86863.	0.00
3.4000	-4.22E-05	87.6932	-48.3107	-1.35E-04	1745.	562973.	19.4693	92292.	0.00
3.6000	-6.61E-05	78.4205	-44.9711	-1.05E-04	1560.	562973.	13.9271	42164.	0.00
3.8000	-8.44E-05	69.7048	-42.6749	-7.91E-05	1387.	562973.	9.0351	21420.	0.00
4.0000	-9.77E-05	61.3505	-40.7892	-5.58E-05	1221.	562973.	9.8212	20103.	0.00

4.2000	-1.07E-04	53.3891	-38.7615	-3.55E-05	1062.	562973.	10.4564	19601.	0.00
4.4000	-1.12E-04	45.8460	-36.6186	-1.78E-05	912.0763	562973.	10.9718	19612.	0.00
4.6000	-1.14E-04	38.7417	-34.3829	-2.80E-06	770.7409	562973.	11.3853	20005.	0.00
4.8000	-1.13E-04	32.0928	-32.0736	9.78E-06	638.4657	562973.	11.7078	20720.	0.00
5.0000	-1.10E-04	25.9122	-29.7082	2.01E-05	515.5072	562973.	11.9465	21738.	0.00
5.2000	-1.05E-04	20.2095	-27.3029	2.83E-05	402.0555	562973.	12.1064	23065.	0.00
5.4000	-9.86E-05	14.9911	-24.8732	3.45E-05	298.2378	562973.	12.1908	24727.	0.00
5.6000	-9.12E-05	10.2602	-22.4339	3.90E-05	204.1212	562973.	12.2022	26769.	0.00
5.8000	-8.30E-05	6.0175	-19.9994	4.19E-05	119.7147	562973.	12.1423	29259.	0.00
6.0000	-7.44E-05	2.2605	-17.5839	4.34E-05	44.9708	562973.	12.0126	32290.	0.00
6.2000	-6.56E-05	-1.0161	-15.2013	4.36E-05	20.2137	562973.	11.8140	35992.	0.00
6.4000	-5.70E-05	-3.8200	-12.8652	4.27E-05	75.9970	562973.	11.5471	40541.	0.00
6.6000	-4.86E-05	-6.1621	-10.5892	4.10E-05	122.5914	562973.	11.2125	46186.	0.00
6.8000	-4.06E-05	-8.0557	-8.3869	3.84E-05	160.2632	562973.	10.8104	53280.	0.00
7.0000	-3.32E-05	-9.5169	-6.1207	3.53E-05	189.3323	562973.	11.8515	71443.	0.00
7.2000	-2.65E-05	-10.5040	-3.8367	3.18E-05	208.9702	562973.	10.9886	83083.	0.00
7.4000	-2.05E-05	-11.0516	-1.7292	2.79E-05	219.8637	562973.	10.0868	98537.	0.00
7.6000	-1.53E-05	-11.1957	0.1941	2.40E-05	222.7304	562973.	9.1452	119707.	0.00
7.8000	-1.09E-05	-10.9739	1.9245	2.00E-05	218.3195	562973.	8.1590	149969.	0.00
8.0000	-7.26E-06	-10.4259	3.4520	1.62E-05	207.4159	562973.	7.1167	195991.	0.00
8.2000	-4.38E-06	-9.5931	4.7627	1.27E-05	190.8491	562973.	5.9896	273226.	0.00
8.4000	-2.19E-06	-8.5208	5.8314	9.47E-06	169.5159	562973.	4.6979	429417.	0.00
8.6000	-5.97E-07	-7.2606	6.5888	6.66E-06	144.4442	562973.	2.8759	963221.	0.00
8.8000	4.78E-07	-5.8853	6.8574	4.33E-06	117.0840	562973.	-0.1893	79233.	0.00
9.0000	1.13E-06	-4.5176	6.4356	2.48E-06	89.8744	562973.	-4.0290	710114.	0.00
9.2000	1.47E-06	-3.3110	5.5997	1.09E-06	65.8711	562973.	-4.3305	588933.	0.00
9.4000	1.57E-06	-2.2777	4.7267	9.86E-08	45.3138	562973.	-4.3990	559935.	0.00
9.6000	1.51E-06	-1.4204	3.8543	-5.58E-07	28.2572	562973.	-4.3247	572791.	0.00
9.8000	1.35E-06	-0.7360	3.0065	-9.41E-07	14.6421	562973.	-4.1530	616204.	0.00
10.0000	1.13E-06	-0.2177	2.2001	-1.11E-06	4.3319	562973.	-3.9116	690175.	0.00
10.2000	9.04E-07	0.1440	1.4469	-1.12E-06	2.8656	562973.	-3.6199	801181.	0.00
10.4000	6.84E-07	0.3610	0.7558	-1.03E-06	7.1825	562973.	-3.2919	962576.	0.00
10.6000	4.90E-07	0.4463	0.1328	-8.91E-07	8.8797	562973.	-2.9373	1198953.	0.00
10.8000	3.28E-07	0.4142	-0.1739	-7.38E-07	8.2395	562973.	-0.1298	79233.	0.00
11.0000	1.95E-07	0.3768	-0.1946	-5.97E-07	7.4960	562973.	-0.07718	79233.	0.00
11.2000	8.87E-08	0.3363	-0.2077	-4.71E-07	6.6911	562973.	-0.05357	120736.	0.00
11.4000	6.55E-09	0.2937	-0.2135	-3.59E-07	5.8435	562973.	-0.00445	135828.	0.00
11.6000	-5.48E-08	0.2509	-0.2102	-2.62E-07	4.9924	562973.	0.03720	135828.	0.00
11.8000	-9.83E-08	0.2097	-0.1998	-1.80E-07	4.1709	562973.	0.06674	135828.	0.00
12.0000	-1.27E-07	0.1710	-0.1845	-1.13E-07	3.4025	562973.	0.08616	135828.	0.00
12.2000	-1.43E-07	0.1359	-0.1661	-5.81E-08	2.7027	562973.	0.09733	135828.	0.00
12.4000	-1.50E-07	0.1046	-0.1462	-1.54E-08	2.0803	562973.	0.1019	135828.	0.00
12.6000	-1.49E-07	0.07736	-0.1259	1.69E-08	1.5391	562973.	0.1015	135828.	0.00
12.8000	-1.43E-07	0.05422	-0.1060	4.03E-08	1.0786	562973.	0.09735	135828.	0.00

13.0000	-1.33E-07	0.03497	-0.08720	5.61E-08	0.6957	562973.	0.09056	135828.	0.00
13.2000	-1.21E-07	0.01934	-0.06993	6.58E-08	0.3847	562973.	0.08210	135828.	0.00
13.4000	-1.07E-07	0.00699	-0.05445	7.05E-08	0.1391	562973.	0.07269	135828.	0.00
13.6000	-9.27E-08	-0.00244	-0.04089	7.13E-08	0.04860	562973.	0.06295	135828.	0.00
13.8000	-7.85E-08	-0.00936	-0.02926	6.92E-08	0.1862	562973.	0.05333	135828.	0.00
14.0000	-6.50E-08	-0.01415	-0.01951	6.50E-08	0.2815	562973.	0.04416	135828.	0.00
14.2000	-5.25E-08	-0.01717	-0.01153	5.94E-08	0.3415	562973.	0.03568	135828.	0.00
14.4000	-4.13E-08	-0.01876	-0.00516	5.31E-08	0.3732	562973.	0.02802	135828.	0.00
14.6000	-3.13E-08	-0.01923	-2.31E-04	4.63E-08	0.3826	562973.	0.02126	135828.	0.00
14.8000	-2.27E-08	-0.01885	0.00344	3.95E-08	0.3750	562973.	0.01544	135828.	0.00
15.0000	-1.55E-08	-0.01785	0.00603	3.30E-08	0.3552	562973.	0.01052	135828.	0.00
15.2000	-9.52E-09	-0.01644	0.00773	2.69E-08	0.3270	562973.	0.00647	135828.	0.00
15.4000	-4.72E-09	-0.01476	0.00870	2.14E-08	0.2937	562973.	0.00320	135828.	0.00
15.6000	-9.64E-10	-0.01296	0.00909	1.65E-08	0.2578	562973.	6.55E-04	135828.	0.00
15.8000	1.87E-09	-0.01113	0.00902	1.22E-08	0.2214	562973.	-0.00127	135828.	0.00
16.0000	3.91E-09	-0.00935	0.00863	8.55E-09	0.1860	562973.	-0.00266	135828.	0.00
16.2000	5.29E-09	-0.00767	0.00801	5.53E-09	0.1527	562973.	-0.00359	135828.	0.00
16.4000	6.12E-09	-0.00615	0.00723	3.07E-09	0.1223	562973.	-0.00416	135828.	0.00
16.6000	6.52E-09	-0.00478	0.00637	1.13E-09	0.09513	562973.	-0.00443	135828.	0.00
16.8000	6.58E-09	-0.00360	0.00548	-3.56E-10	0.07154	562973.	-0.00447	135828.	0.00
17.0000	6.38E-09	-0.00259	0.00460	-1.45E-09	0.05150	562973.	-0.00433	135828.	0.00
17.2000	5.99E-09	-0.00175	0.00376	-2.23E-09	0.03490	562973.	-0.00407	135828.	0.00
17.4000	5.49E-09	-0.00108	0.00298	-2.73E-09	0.02154	562973.	-0.00373	135828.	0.00
17.6000	4.90E-09	-5.61E-04	0.00228	-3.02E-09	0.01115	562973.	-0.00333	135828.	0.00
17.8000	4.28E-09	-1.72E-04	0.00165	-3.15E-09	0.00341	562973.	-0.00291	135828.	0.00
18.0000	3.64E-09	1.01E-04	0.00112	-3.16E-09	0.00202	562973.	-0.00247	135828.	0.00
18.2000	3.01E-09	2.75E-04	6.65E-04	-3.10E-09	0.00548	562973.	-0.00205	135828.	0.00
18.4000	2.40E-09	3.67E-04	2.97E-04	-2.98E-09	0.00731	562973.	-0.00163	135828.	0.00
18.6000	1.82E-09	3.94E-04	1.06E-05	-2.85E-09	0.00784	562973.	-0.00124	135828.	0.00
18.8000	1.26E-09	3.72E-04	-1.99E-04	-2.71E-09	0.00739	562973.	-8.58E-04	135828.	0.00
19.0000	7.35E-10	3.15E-04	-3.35E-04	-2.59E-09	0.00626	562973.	-4.99E-04	135828.	0.00
19.2000	2.28E-10	2.38E-04	-4.00E-04	-2.49E-09	0.00473	562973.	-1.55E-04	135828.	0.00
19.4000	-2.62E-10	1.55E-04	-3.98E-04	-2.42E-09	0.00308	562973.	1.78E-04	135828.	0.00
19.6000	-7.41E-10	7.88E-05	-3.30E-04	-2.38E-09	0.00157	562973.	5.03E-04	135828.	0.00
19.8000	-1.21E-09	2.29E-05	-1.97E-04	-2.36E-09	4.55E-04	562973.	8.24E-04	135828.	0.00
20.0000	-1.69E-09	0.00	0.00	-2.36E-09	0.00	562973.	0.00114	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 4:

Pile-head deflection = 0.00161748 meters

Computed slope at pile head = -0.00076126 radians

Maximum bending moment = 140.28093517 kN-m

Maximum shear force = 125.00000000 kN

Depth of maximum bending moment = 2.00000000 meters below pile head

Depth of maximum shear force = 0.000000 meters below pile head

Number of iterations = 10

Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 5

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 150.000 kN

Applied moment at pile head = 0.000 kN-m

Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00209	3.05E-11	150.0000	-9.63E-04	6.07E-10	562973.	0.00	0.00	0.00
0.2000	0.00190	30.0000	144.9751	-9.58E-04	596.8310	562973.	-50.2489	5283.	0.00
0.4000	0.00171	57.9900	133.8287	-9.42E-04	1154.	562973.	-61.2149	7153.	0.00
0.6000	0.00153	83.5315	120.7095	-9.17E-04	1662.	562973.	-69.9775	9176.	0.00
0.8000	0.00134	106.2738	105.9962	-8.83E-04	2114.	562973.	-77.1551	11475.	0.00
1.0000	0.00117	125.9300	90.0097	-8.42E-04	2505.	562973.	-82.7106	14116.	0.00
1.2000	0.00101	142.2777	73.0769	-7.95E-04	2831.	562973.	-86.6168	17188.	0.00
1.4000	8.54E-04	155.1608	55.5298	-7.42E-04	3087.	562973.	-88.8548	20809.	0.00
1.6000	7.11E-04	164.4896	37.7033	-6.85E-04	3272.	562973.	-89.4097	25144.	0.00
1.8000	5.80E-04	170.2421	19.9359	-6.26E-04	3387.	562973.	-88.2643	30435.	0.00
2.0000	4.61E-04	172.4640	2.5706	-5.65E-04	3431.	562973.	-85.3889	37047.	0.00
2.2000	3.54E-04	171.2703	-14.0405	-5.04E-04	3407.	562973.	-80.7215	45583.	0.00
2.4000	2.60E-04	166.8478	-29.5256	-4.44E-04	3319.	562973.	-74.1302	57123.	0.00
2.6000	1.77E-04	159.4601	-43.1765	-3.86E-04	3172.	562973.	-62.3786	70576.	0.00
2.8000	1.05E-04	149.5772	-53.4169	-3.31E-04	2976.	562973.	-40.0258	76005.	0.00
3.0000	4.45E-05	138.0933	-59.2317	-2.80E-04	2747.	562973.	-18.1214	81434.	0.00
3.2000	-6.50E-06	125.8845	-60.7615	-2.33E-04	2504.	562973.	2.8233	86863.	0.00
3.4000	-4.86E-05	113.7887	-58.2382	-1.90E-04	2264.	562973.	22.4097	92292.	0.00
3.6000	-8.25E-05	102.5893	-54.4974	-1.52E-04	2041.	562973.	14.9983	36342.	0.00
3.8000	-1.09E-04	91.9898	-52.0129	-1.17E-04	1830.	562973.	9.8465	18029.	0.00

4.0000	-1.29E-04	81.7841	-49.9499	-8.62E-05	1627.	562973.	10.7836	16670.	0.00
4.2000	-1.44E-04	72.0098	-47.7168	-5.89E-05	1433.	562973.	11.5468	16068.	0.00
4.4000	-1.53E-04	62.6974	-45.3446	-3.50E-05	1247.	562973.	12.1754	15921.	0.00
4.6000	-1.58E-04	53.8720	-42.8579	-1.43E-05	1072.	562973.	12.6914	16094.	0.00
4.8000	-1.59E-04	45.5542	-40.2779	3.38E-06	906.2726	562973.	13.1083	16524.	0.00
5.0000	-1.56E-04	37.7608	-37.6236	1.82E-05	751.2275	562973.	13.4347	17184.	0.00
5.2000	-1.51E-04	30.5048	-34.9125	3.03E-05	606.8733	562973.	13.6764	18068.	0.00
5.4000	-1.44E-04	23.7958	-32.1611	3.99E-05	473.4025	562973.	13.8376	19187.	0.00
5.6000	-1.35E-04	17.6403	-29.3852	4.73E-05	350.9433	562973.	13.9212	20562.	0.00
5.8000	-1.25E-04	12.0417	-26.6002	5.26E-05	239.5622	562973.	13.9293	22230.	0.00
6.0000	-1.14E-04	7.0003	-23.8209	5.60E-05	139.2656	562973.	13.8635	24242.	0.00
6.2000	-1.03E-04	2.5133	-21.0621	5.77E-05	50.0013	562973.	13.7252	26668.	0.00
6.4000	-9.13E-05	-1.4246	-18.3380	5.78E-05	28.3409	562973.	13.5153	29602.	0.00
6.6000	-7.98E-05	-4.8219	-15.6630	5.67E-05	95.9279	562973.	13.2346	33172.	0.00
6.8000	-6.86E-05	-7.6898	-13.0512	5.45E-05	152.9832	562973.	12.8839	37553.	0.00
7.0000	-5.80E-05	-10.0423	-10.3343	5.14E-05	199.7858	562973.	14.2848	49269.	0.00
7.2000	-4.81E-05	-11.8235	-7.5635	4.75E-05	235.2209	562973.	13.4231	55847.	0.00
7.4000	-3.90E-05	-13.0677	-4.9688	4.31E-05	259.9742	562973.	12.5235	64232.	0.00
7.6000	-3.08E-05	-13.8110	-2.5577	3.83E-05	274.7617	562973.	11.5880	75133.	0.00
7.8000	-2.37E-05	-14.0908	-0.3371	3.33E-05	280.3277	562973.	10.6176	89675.	0.00
8.0000	-1.75E-05	-13.9459	1.6857	2.84E-05	277.4445	562973.	9.6112	109751.	0.00
8.2000	-1.23E-05	-13.4165	3.5033	2.35E-05	266.9129	562973.	8.5646	138811.	0.00
8.4000	-8.12E-06	-12.5445	5.1065	1.89E-05	249.5659	562973.	7.4666	183937.	0.00
8.6000	-4.79E-06	-11.3739	6.4821	1.46E-05	226.2771	562973.	6.2901	262711.	0.00
8.8000	-2.27E-06	-9.9517	7.6071	1.08E-05	197.9829	562973.	4.9597	437615.	0.00
9.0000	-4.52E-07	-8.3311	8.1210	7.59E-06	165.7418	562973.	0.1790	79233.	0.00
9.2000	7.71E-07	-6.7033	7.8184	4.92E-06	133.3583	562973.	-3.2044	831193.	0.00
9.4000	1.52E-06	-5.2037	7.0846	2.81E-06	103.5248	562973.	-4.1339	544773.	0.00
9.6000	1.89E-06	-3.8695	6.2229	1.20E-06	76.9809	562973.	-4.4835	473310.	0.00
9.8000	2.00E-06	-2.7146	5.3169	2.75E-08	54.0049	562973.	-4.5764	458445.	0.00
10.0000	1.91E-06	-1.7427	4.4080	-7.64E-07	34.6706	562973.	-4.5120	473572.	0.00
10.2000	1.69E-06	-0.9514	3.5231	-1.24E-06	18.9269	562973.	-4.3377	513101.	0.00
10.4000	1.41E-06	-0.3335	2.6813	-1.47E-06	6.6350	562973.	-4.0803	579410.	0.00
10.6000	1.10E-06	0.1211	1.8976	-1.51E-06	2.4099	562973.	-3.7565	681511.	0.00
10.8000	8.05E-07	0.4255	1.1844	-1.41E-06	8.4655	562973.	-3.3757	838725.	0.00
11.0000	5.38E-07	0.5949	0.5528	-1.23E-06	11.8348	562973.	-2.9397	1093331.	0.00
11.2000	3.13E-07	0.6467	-0.04742	-1.01E-06	12.8648	562973.	-3.0628	1958224.	0.00
11.4000	1.34E-07	0.5759	-0.3628	-7.93E-07	11.4574	562973.	-0.09088	135828.	0.00
11.6000	-4.25E-09	0.5015	-0.3716	-6.01E-07	9.9778	562973.	0.00289	135828.	0.00
11.8000	-1.07E-07	0.4273	-0.3641	-4.36E-07	8.5004	562973.	0.07246	135828.	0.00
12.0000	-1.79E-07	0.3559	-0.3447	-2.97E-07	7.0807	562973.	0.1214	135828.	0.00
12.2000	-2.26E-07	0.2894	-0.3172	-1.83E-07	5.7576	562973.	0.1532	135828.	0.00
12.4000	-2.52E-07	0.2290	-0.2848	-9.05E-08	4.5565	562973.	0.1710	135828.	0.00
12.6000	-2.62E-07	0.1755	-0.2499	-1.86E-08	3.4913	562973.	0.1778	135828.	0.00

12.8000	-2.59E-07	0.1291	-0.2145	3.55E-08	2.5677	562973.	0.1760	135828.	0.00
13.0000	-2.48E-07	0.08968	-0.1801	7.44E-08	1.7841	562973.	0.1681	135828.	0.00
13.2000	-2.29E-07	0.05702	-0.1477	1.00E-07	1.1343	562973.	0.1558	135828.	0.00
13.4000	-2.07E-07	0.03059	-0.1181	1.16E-07	0.6086	562973.	0.1408	135828.	0.00
13.6000	-1.83E-07	0.00980	-0.09154	1.23E-07	0.1949	562973.	0.1243	135828.	0.00
13.8000	-1.58E-07	-0.00603	-0.06837	1.24E-07	0.1199	562973.	0.1074	135828.	0.00
14.0000	-1.34E-07	-0.01755	-0.04856	1.20E-07	0.3492	562973.	0.09071	135828.	0.00
14.2000	-1.10E-07	-0.02545	-0.03200	1.12E-07	0.5063	562973.	0.07488	135828.	0.00
14.4000	-8.88E-08	-0.03035	-0.01848	1.02E-07	0.6038	562973.	0.06028	135828.	0.00
14.6000	-6.94E-08	-0.03284	-0.00774	9.09E-08	0.6534	562973.	0.04715	135828.	0.00
14.8000	-5.24E-08	-0.03345	5.34E-04	7.91E-08	0.6654	562973.	0.03560	135828.	0.00
15.0000	-3.78E-08	-0.03263	0.00666	6.73E-08	0.6491	562973.	0.02567	135828.	0.00
15.2000	-2.55E-08	-0.03078	0.01096	5.61E-08	0.6124	562973.	0.01731	135828.	0.00
15.4000	-1.54E-08	-0.02825	0.01373	4.56E-08	0.5619	562973.	0.01043	135828.	0.00
15.6000	-7.25E-09	-0.02529	0.01527	3.61E-08	0.5031	562973.	0.00492	135828.	0.00
15.8000	-9.27E-10	-0.02214	0.01582	2.77E-08	0.4404	562973.	6.30E-04	135828.	0.00
16.0000	3.82E-09	-0.01896	0.01563	2.04E-08	0.3772	562973.	-0.00259	135828.	0.00
16.2000	7.22E-09	-0.01589	0.01488	1.42E-08	0.3161	562973.	-0.00490	135828.	0.00
16.4000	9.49E-09	-0.01301	0.01374	9.04E-09	0.2588	562973.	-0.00644	135828.	0.00
16.6000	1.08E-08	-0.01039	0.01236	4.88E-09	0.2067	562973.	-0.00736	135828.	0.00
16.8000	1.14E-08	-0.00807	0.01085	1.60E-09	0.1605	562973.	-0.00777	135828.	0.00
17.0000	1.15E-08	-0.00605	0.00929	-9.06E-10	0.1204	562973.	-0.00779	135828.	0.00
17.2000	1.11E-08	-0.00435	0.00776	-2.75E-09	0.08650	562973.	-0.00752	135828.	0.00
17.4000	1.04E-08	-0.00295	0.00631	-4.05E-09	0.05860	562973.	-0.00704	135828.	0.00
17.6000	9.46E-09	-0.00183	0.00496	-4.90E-09	0.03631	562973.	-0.00642	135828.	0.00
17.8000	8.41E-09	-9.62E-04	0.00375	-5.39E-09	0.01913	562973.	-0.00571	135828.	0.00
18.0000	7.30E-09	-3.27E-04	0.00268	-5.62E-09	0.00650	562973.	-0.00496	135828.	0.00
18.2000	6.16E-09	1.10E-04	0.00176	-5.66E-09	0.00219	562973.	-0.00419	135828.	0.00
18.4000	5.04E-09	3.79E-04	0.00100	-5.57E-09	0.00755	562973.	-0.00342	135828.	0.00
18.6000	3.94E-09	5.12E-04	3.95E-04	-5.41E-09	0.01018	562973.	-0.00267	135828.	0.00
18.8000	2.87E-09	5.37E-04	-6.74E-05	-5.23E-09	0.01069	562973.	-0.00195	135828.	0.00
19.0000	1.84E-09	4.85E-04	-3.88E-04	-5.05E-09	0.00965	562973.	-0.00125	135828.	0.00
19.2000	8.53E-10	3.82E-04	-5.71E-04	-4.89E-09	0.00760	562973.	-5.79E-04	135828.	0.00
19.4000	-1.12E-10	2.56E-04	-6.21E-04	-4.78E-09	0.00510	562973.	7.58E-05	135828.	0.00
19.6000	-1.06E-09	1.34E-04	-5.42E-04	-4.71E-09	0.00266	562973.	7.19E-04	135828.	0.00
19.8000	-2.00E-09	3.98E-05	-3.34E-04	-4.68E-09	7.92E-04	562973.	0.00135	135828.	0.00
20.0000	-2.93E-09	0.00	0.00	-4.67E-09	0.00	562973.	0.00199	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 5:

Pile-head deflection = 0.00209481 meters

Computed slope at pile head = -0.00096327 radians

Maximum bending moment = 172.46397634 kN-m

Maximum shear force = 150.00000000 kN

Depth of maximum bending moment = 2.00000000 meters below pile head

Depth of maximum shear force = 0.000000 meters below pile head

Number of iterations = 11

Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 6

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 600.000 kN

Applied moment at pile head = 0.000 kN-m

Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.02829	-9.77E-11	600.0000	-0.00893	1.94E-09	562973.	0.00	0.00	0.00
0.2000	0.02651	120.0000	598.5684	-0.00890	2387.	562973.	-14.3157	108.0109	0.00
0.4000	0.02473	239.4274	592.9757	-0.00884	4763.	562973.	-41.6118	336.5102	0.00
0.6000	0.02297	357.1903	581.3766	-0.00873	7106.	562973.	-74.3790	647.5657	0.00
0.8000	0.02124	471.9780	562.8098	-0.00859	9390.	562973.	-111.2895	1048.	0.00
1.0000	0.01954	582.3142	536.5566	-0.00840	11585.	562973.	-151.2419	1548.	0.00
1.2000	0.01788	686.6007	502.1014	-0.00817	13659.	562973.	-193.3102	2163.	0.00
1.4000	0.01627	783.1547	459.4710	-0.00791	15580.	562973.	-232.9943	2865.	0.00
1.6000	0.01471	870.3891	409.3512	-0.00762	17316.	562973.	-268.2031	3646.	0.00
1.8000	0.01322	946.8952	352.6253	-0.00730	18838.	562973.	-299.0565	4524.	0.00
2.0000	0.01179	1011.	290.1602	-0.00695	20122.	562973.	-325.5947	5521.	0.00
2.2000	0.01044	1063.	222.8193	-0.00658	21147.	562973.	-347.8140	6663.	0.00
2.4000	0.00916	1101.	151.4932	-0.00620	21895.	562973.	-365.4471	7977.	0.00
2.6000	0.00796	1124.	78.7134	-0.00580	22352.	562973.	-362.3512	9102.	0.00
2.8000	0.00684	1132.	7.6188	-0.00540	22521.	562973.	-348.5943	10190.	0.00
3.0000	0.00580	1127.	-60.4715	-0.00500	22413.	562973.	-332.3091	11455.	0.00
3.2000	0.00484	1108.	-125.0422	-0.00460	22040.	562973.	-313.3974	12945.	0.00
3.4000	0.00396	1077.	-185.5358	-0.00421	21418.	562973.	-291.5385	14721.	0.00
3.6000	0.00316	1034.	-219.7406	-0.00384	20564.	562973.	-50.5093	3200.	0.00

3.8000	0.00243	988.6910	-227.5579	-0.00348	19669.	562973.	-27.6646	2281.	0.00
4.0000	0.00176	942.6261	-232.8998	-0.00314	18753.	562973.	-25.7539	2919.	0.00
4.2000	0.00117	895.5311	-237.7974	-0.00281	17816.	562973.	-23.2225	3968.	0.00
4.4000	6.40E-04	847.5071	-242.0811	-0.00250	16861.	562973.	-19.6143	6128.	0.00
4.6000	1.70E-04	798.6986	-245.3437	-0.00221	15890.	562973.	-13.0120	15297.	0.00
4.8000	-2.43E-04	749.3697	-245.1345	-0.00193	14908.	562973.	15.1048	12422.	0.00
5.0000	-6.03E-04	700.6449	-241.5181	-0.00168	13939.	562973.	21.0588	6982.	0.00
5.2000	-9.14E-04	652.7624	-236.9238	-0.00144	12986.	562973.	24.8841	5448.	0.00
5.4000	-0.00118	605.8753	-231.6511	-0.00121	12054.	562973.	27.8435	4729.	0.00
5.6000	-0.00140	560.1020	-225.8374	-0.00100	11143.	562973.	30.2934	4333.	0.00
5.8000	-0.00158	515.5404	-219.5691	-8.14E-04	10256.	562973.	32.3894	4102.	0.00
6.0000	-0.00172	472.2744	-212.9087	-6.38E-04	9396.	562973.	34.2141	3970.	0.00
6.2000	-0.00183	430.3769	-205.9057	-4.78E-04	8562.	562973.	35.8167	3904.	0.00
6.4000	-0.00191	389.9121	-198.6011	-3.32E-04	7757.	562973.	37.2287	3888.	0.00
6.6000	-0.00197	350.9364	-191.0311	-2.01E-04	6982.	562973.	38.4715	3911.	0.00
6.8000	-0.00200	313.4996	-183.2279	-8.26E-05	6237.	562973.	39.5602	3965.	0.00
7.0000	-0.00200	277.6453	-174.6295	2.24E-05	5524.	562973.	46.4237	4641.	0.00
7.2000	-0.00199	243.6478	-165.3559	1.15E-04	4847.	562973.	46.3126	4663.	0.00
7.4000	-0.00195	211.5029	-156.1181	1.96E-04	4208.	562973.	46.0653	4713.	0.00
7.6000	-0.00191	181.2006	-146.9420	2.66E-04	3605.	562973.	45.6956	4790.	0.00
7.8000	-0.00185	152.7261	-137.8510	3.25E-04	3038.	562973.	45.2152	4892.	0.00
8.0000	-0.00178	126.0602	-128.8661	3.74E-04	2508.	562973.	44.6336	5021.	0.00
8.2000	-0.00170	101.1796	-120.0068	4.15E-04	2013.	562973.	43.9594	5176.	0.00
8.4000	-0.00161	78.0575	-111.2909	4.47E-04	1553.	562973.	43.1997	5360.	0.00
8.6000	-0.00152	56.6633	-102.7348	4.71E-04	1127.	562973.	42.3608	5574.	0.00
8.8000	-0.00142	36.9635	-94.3539	4.87E-04	735.3662	562973.	41.4483	5822.	0.00
9.0000	-0.00133	18.9217	-86.1624	4.97E-04	376.4356	562973.	40.4670	6108.	0.00
9.2000	-0.00122	2.4986	-78.1736	5.01E-04	49.7076	562973.	39.4212	6436.	0.00
9.4000	-0.00112	-12.3477	-70.4000	4.99E-04	245.6500	562973.	38.3147	6813.	0.00
9.6000	-0.00103	-25.6614	-62.8534	4.92E-04	510.5177	562973.	37.1509	7247.	0.00
9.8000	-9.28E-04	-37.4891	-55.5451	4.81E-04	745.8216	562973.	35.9328	7746.	0.00
10.0000	-8.33E-04	-47.8794	-48.4855	4.66E-04	952.5312	562973.	34.6630	8324.	0.00
10.2000	-7.41E-04	-56.8833	-41.6848	4.47E-04	1132.	562973.	33.3436	8996.	0.00
10.4000	-6.54E-04	-64.5534	-35.1528	4.26E-04	1284.	562973.	31.9766	9781.	0.00
10.6000	-5.71E-04	-70.9444	-28.8988	4.02E-04	1411.	562973.	30.5637	10705.	0.00
10.8000	-4.93E-04	-76.1129	-22.9318	3.76E-04	1514.	562973.	29.1058	11804.	0.00
11.0000	-4.21E-04	-80.1171	-17.2608	3.48E-04	1594.	562973.	27.6040	13122.	0.00
11.2000	-3.54E-04	-83.0172	-11.2226	3.19E-04	1652.	562973.	32.7784	18519.	0.00
11.4000	-2.93E-04	-84.6062	-4.4821	2.89E-04	1683.	562973.	34.6269	23624.	0.00
11.6000	-2.38E-04	-84.8100	2.2121	2.59E-04	1687.	562973.	32.3148	27119.	0.00
11.8000	-1.90E-04	-83.7213	8.4371	2.29E-04	1666.	562973.	29.9349	31590.	0.00
12.0000	-1.47E-04	-81.4352	14.1784	2.00E-04	1620.	562973.	27.4783	37470.	0.00
12.2000	-1.10E-04	-78.0500	19.4191	1.71E-04	1553.	562973.	24.9283	45489.	0.00
12.4000	-7.81E-05	-73.6676	24.1372	1.45E-04	1466.	562973.	22.2534	57003.	0.00

12.6000	-5.18E-05	-68.3951	28.3017	1.19E-04	1361.	562973.	19.3915	74884.	0.00
12.8000	-3.04E-05	-62.3469	31.8611	9.61E-05	1240.	562973.	16.2019	106721.	0.00
13.0000	-1.34E-05	-55.6506	34.7074	7.51E-05	1107.	562973.	12.2617	183490.	0.00
13.2000	-3.21E-07	-48.4639	36.1990	5.66E-05	964.1591	562973.	2.6541	1653864.	0.00
13.4000	9.28E-06	-41.1710	35.3554	4.07E-05	819.0717	562973.	-11.0906	239031.	0.00
13.6000	1.60E-05	-34.3218	32.9254	2.73E-05	682.8100	562973.	-13.2092	165581.	0.00
13.8000	2.02E-05	-28.0009	30.1785	1.62E-05	557.0599	562973.	-14.2596	141242.	0.00
14.0000	2.24E-05	-22.2504	27.2771	7.28E-06	442.6571	562973.	-14.7546	131509.	0.00
14.2000	2.31E-05	-17.0901	24.3127	2.96E-07	339.9958	562973.	-14.8892	128881.	0.00
14.4000	2.26E-05	-12.5253	21.3474	-4.96E-06	249.1828	562973.	-14.7633	130895.	0.00
14.6000	2.11E-05	-8.5511	18.4274	-8.71E-06	170.1182	562973.	-14.4371	136718.	0.00
14.8000	1.91E-05	-5.1543	15.5887	-1.11E-05	102.5421	562973.	-13.9504	146276.	0.00
15.0000	1.67E-05	-2.3156	12.8605	-1.25E-05	46.0675	562973.	-13.3317	160021.	0.00
15.2000	1.41E-05	-0.01015	10.2671	-1.29E-05	0.2018	562973.	-12.6018	178924.	0.00
15.4000	1.15E-05	1.7912	7.8293	-1.26E-05	35.6356	562973.	-11.7767	204647.	0.00
15.6000	9.06E-06	3.1216	5.5647	-1.17E-05	62.1014	562973.	-10.8684	239930.	0.00
15.8000	6.83E-06	4.0171	3.4894	-1.04E-05	79.9184	562973.	-9.8851	289384.	0.00
16.0000	4.89E-06	4.5173	1.6179	-8.91E-06	89.8691	562973.	-8.8303	361204.	0.00
16.2000	3.27E-06	4.6643	-0.03521	-7.28E-06	92.7929	562973.	-7.7004	471274.	0.00
16.4000	1.98E-06	4.5032	-1.4528	-5.65E-06	89.5889	562973.	-6.4756	654816.	0.00
16.6000	1.01E-06	4.0832	-2.6094	-4.13E-06	81.2318	562973.	-5.0905	1010293.	0.00
16.8000	3.28E-07	3.4595	-3.4451	-2.79E-06	68.8238	562973.	-3.2665	1993309.	0.00
17.0000	-1.06E-07	2.7051	-3.7645	-1.69E-06	53.8163	562973.	0.07229	135828.	0.00
17.2000	-3.48E-07	1.9536	-3.7337	-8.63E-07	38.8665	562973.	0.2366	135828.	0.00
17.4000	-4.52E-07	1.2116	-3.2649	-3.01E-07	24.1049	562973.	4.4512	1971231.	0.00
17.6000	-4.69E-07	0.6477	-2.3709	2.96E-08	12.8855	562973.	4.4886	1915289.	0.00
17.8000	-4.40E-07	0.2633	-1.4770	1.91E-07	5.2380	562973.	4.4504	2023883.	0.00
18.0000	-3.92E-07	0.05691	-0.5910	2.48E-07	1.1321	562973.	4.4096	2248936.	0.00
18.2000	-3.40E-07	0.02690	-0.1269	2.63E-07	0.5353	562973.	0.2312	135828.	0.00
18.4000	-2.87E-07	0.00615	-0.08427	2.69E-07	0.1224	562973.	0.1948	135828.	0.00
18.6000	-2.33E-07	-0.00681	-0.04898	2.69E-07	0.1354	562973.	0.1581	135828.	0.00
18.8000	-1.79E-07	-0.01344	-0.02098	2.65E-07	0.2673	562973.	0.1218	135828.	0.00
19.0000	-1.27E-07	-0.01520	-1.98E-04	2.60E-07	0.3024	562973.	0.08607	135828.	0.00
19.2000	-7.52E-08	-0.01352	0.01352	2.55E-07	0.2689	562973.	0.05109	135828.	0.00
19.4000	-2.47E-08	-0.00979	0.02030	2.51E-07	0.1948	562973.	0.01676	135828.	0.00
19.6000	2.52E-08	-0.00540	0.02027	2.48E-07	0.1073	562973.	-0.01710	135828.	0.00
19.8000	7.46E-08	-0.00168	0.01349	2.47E-07	0.03350	562973.	-0.05069	135828.	0.00
20.0000	1.24E-07	0.00	0.00	2.47E-07	0.00	562973.	-0.08421	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 6:

Pile-head deflection = 0.02829294 meters
Computed slope at pile head = -0.00892524 radians
Maximum bending moment = 1132. kN-m
Maximum shear force = 600.00000000 kN
Depth of maximum bending moment = 2.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 55
Number of zero deflection points = 4

Summary of Pile-head Responses for Conventional Analyses

Definitions of Pile-head Loading Conditions:

Load Type 1: Load 1 = Shear, V, kN, and Load 2 = Moment, M, kN-m
Load Type 2: Load 1 = Shear, V, kN, and Load 2 = Slope, S, radians
Load Type 3: Load 1 = Shear, V, kN, and Load 2 = Rot. Stiffness, R, kN-m/rad.
Load Type 4: Load 1 = Top Deflection, y, m, and Load 2 = Moment, M, kN-m
Load Type 5: Load 1 = Top Deflection, y, m, and Load 2 = Slope, S, radians

Load Case No.	Load Type 1	Pile-head Load 1	Load Type 2	Pile-head Load 2	Axial Loading kN	Pile-head Deflection meters	Pile-head Rotation radians	Max Shear in Pile kN	Max Moment in Pile kN-m
1	V, kN	50.0000	M, kN-m	0.00	0.00	5.13E-04	-2.57E-04	50.0000	51.4224
2	V, kN	75.0000	M, kN-m	0.00	0.00	8.07E-04	-4.01E-04	75.0000	78.6852
3	V, kN	100.0000	M, kN-m	0.00	0.00	0.00119	-5.73E-04	100.0000	108.7146
4	V, kN	125.0000	M, kN-m	0.00	0.00	0.00162	-7.61E-04	125.0000	140.2809
5	V, kN	150.0000	M, kN-m	0.00	0.00	0.00209	-9.63E-04	150.0000	172.4640
6	V, kN	600.0000	M, kN-m	0.00	0.00	0.02829	-0.00893	600.0000	1132.

Maximum pile-head deflection = 0.0282929432 meters
Maximum pile-head rotation = -0.0089252415 radians = -0.511379 deg.

The analysis ended normally.

Opera VI03 – D1000

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LPile for Windows, Version 2016-09.009

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method
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Files Used for Analysis

Path to file locations:
\m9159\Work\07_Pali\VI03\LPILE\

Name of input data file:
VI03_spalle-pila_D1000.lp9d

Name of output report file:
VI03_spalle-pila_D1000.lp9o

Name of plot output file:
VI03_spalle-pila_D1000.lp9p

Name of runtime message file:
VI03_spalle-pila_D1000.lp9r

Date and Time of Analysis

Date: June 10, 2019 Time: 14:47:45

Problem Title

Project Name: VI02 - Spalle e pila
Job Number:
Client:
Engineer:
Description:

Program Options and Settings

Computational Options:
- Use unfactored loads in computations (conventional analysis)

Engineering Units Used for Data Input and Computations:
- International System Units (kilonewtons, meters, millimeters)

Analysis Control Options:
- Maximum number of iterations allowed = 500
- Deflection tolerance for convergence = 2.5400E-07 m
- Maximum allowable deflection = 2.5400 m
- Number of pile increments = 100

Loading Type and Number of Cycles of Loading:
- Static loading specified

- Use of p-y modification factors for p-y curves not selected
- No distributed lateral loads are entered
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected

- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:
- Output files use decimal points to denote decimal symbols.
- Values of pile-head deflection, bending moment, shear force, and soil reaction are printed for full length of pile.
- Printing Increment (nodal spacing of output points) = 1
- p-y curves computed and reported at user-specified depths
- Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined = 1
Total length of pile = 20.000 m
Depth of ground surface below top of pile = 0.0000 m

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point	Depth Below Pile Head meters	Pile Diameter millimeters
1	0.000	1000.00
2	20.000	1000.00

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is an elastic pile
Cross-sectional Shape = Circular Pile
Length of section = 20.000000 m

Width of top of section = 1.000000 m
Width of bottom of section = 1.000000 m
Top Area = 0.785398 sq. m
Bottom Area = 0.785398 sq. m
Moment of Inertia at Top = 0.049087 m^4
Moment of Inertia at Bottom = 0.049087 m^4
Elastic Modulus = 28000000. kPa

Ground Slope and Pile Batter Angles

Ground Slope Angle = 0.000 degrees
= 0.000 radians

Pile Batter Angle = 0.000 degrees
= 0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 3 layers

Layer 1 is stiff clay with water-induced erosion

Distance from top of pile to top of layer = 0.0000 m
Distance from top of pile to bottom of layer = 3.600000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 80.000000 kPa
Undrained cohesion at bottom of layer = 80.000000 kPa
Epsilon-50 at top of layer = 0.007000
Epsilon-50 at bottom of layer = 0.007000
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 2 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 3.600000 m
Distance from top of pile to bottom of layer = 11.200000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 35.000000 kPa
Undrained cohesion at bottom of layer = 35.000000 kPa
Epsilon-50 at top of layer = 0.020000
Epsilon-50 at bottom of layer = 0.020000

Layer 3 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 11.200000 m
Distance from top of pile to bottom of layer = 20.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 45.000000 kPa
Undrained cohesion at bottom of layer = 45.000000 kPa
Epsilon-50 at top of layer = 0.015000
Epsilon-50 at bottom of layer = 0.015000

(Depth of the lowest soil layer extends 0.000 m below the pile tip)

Summary of Input Soil Properties

Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth m	Effective Unit Wt. kN/m3	Undrained Cohesion kPa	E50 or krm	kpy kN/m3
1	Stiff Clay	0.00	9.0000	80.0000	0.00700	default
	with Free Water	3.6000	9.0000	80.0000	0.00700	default
2	Soft	3.6000	9.0000	35.0000	0.02000	--
	Clay	11.2000	9.0000	35.0000	0.02000	--
3	Soft	11.2000	9.0000	45.0000	0.01500	--
	Clay	20.0000	9.0000	45.0000	0.01500	--

Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 9

Load No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, kN	Compute Top y vs. Pile Length
1	1	V = 75.000000 kN	M = 0.0000 m-kN	0.0000000	No
2	1	V = 80.000000 kN	M = 0.0000 m-kN	0.0000000	No
3	1	V = 105.000000 kN	M = 0.0000 m-kN	0.0000000	No
4	1	V = 120.000000 kN	M = 0.0000 m-kN	0.0000000	No
5	1	V = 150.000000 kN	M = 0.0000 m-kN	0.0000000	No
6	1	V = 175.000000 kN	M = 0.0000 m-kN	0.0000000	No
7	1	V = 200.000000 kN	M = 0.0000 m-kN	0.0000000	No
8	1	V = 250.000000 kN	M = 0.0000 m-kN	0.0000000	No
9	1	V = 800.000000 kN	M = 0.0000 m-kN	0.0000000	No

V = shear force applied normal to pile axis
M = bending moment applied to pile head
y = lateral deflection normal to pile axis
S = pile slope relative to original pile batter angle
R = rotational stiffness applied to pile head
Values of top y vs. pile lengths can be computed only for load types with specified shear loading (Load Types 1, 2, and 3).
Thrust force is assumed to be acting axially for all pile batter angles.

Specified Depths for Output of p-y Curves

Lateral load-transfer (p-y) curves are computed and output at 8 depths.
(Note that load-transfer values are computeded at the specified depths and may differ from values computed at nodal points)

Depth No.	Depth Below Pile Head m	Depth Below Ground Surface m
1	0.200	0.200
2	3.400	3.400
3	3.800	3.800
4	9.000	9.000
5	11.000	11.000
6	11.400	11.400
7	16.000	16.000
8	19.800	19.800

Depth of ground surface below top of pile = 0.0000 m

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

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Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Moment-curvature properties were derived from elastic section properties

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Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head meters	Equivalent Top Depth Below Grnd Surf meters	Same Layer Type As Layer Above	Layer is Rock or is Below Rock Layer	F0 Integral for Layer kN	F1 Integral for Layer kN
1	0.00	0.00	N.A.	No	0.00	168.6675

2	3.6000	1.3696	No	No	168.6675	1952.
3	11.2000	8.9696	Yes	No	2121.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals for Layer n. Layering correction equivalent depths are computed only for soil types with both shallow-depth and deep-depth expressions for peak lateral load transfer. These soil types are soft and stiff clays, non-liquefied sands, and cemented c-phi soil.

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p-y Curves Reported for Specified Depths

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p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 0.200 m
Depth of p-y curve below ground surface = 0.200 m
Equivalent depth of p-y curve = 0.200 m
Pile diameter = 1000.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.007 m
As = 0.29059
Ac (not used) = 0.22776
pct = 207.080 kN/m
pcd = 880.000 kN/m
pc = 207.080 kN/m
pu = 6.476 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00102	27.60762
0.00203	55.21523
0.00305	63.56971
0.00407	67.54403
0.00509	69.34360
0.00610	69.58461
0.00712	68.61559
0.00814	66.66085
0.00915	63.87638
0.01017	60.37654
0.01119	56.24858
0.01220	51.60684
0.02034	36.56317
0.02848	21.51949
0.03661	6.47582
0.03865	6.47582

p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 3.400 m
Depth of p-y curve below ground surface = 3.400 m
Equivalent depth of p-y curve = 3.400 m
Pile diameter = 1000.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.007 m
As = 0.60000
Ac (not used) = 0.30000
pct = 960.360 kN/m
pcd = 880.000 kN/m
pc = 880.000 kN/m
pu = 77.161 kN/m

p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00210	240.99793
0.00420	340.82253
0.00630	397.07096
0.00840	433.59585
0.01050	458.54264
0.01260	475.20670
0.01470	485.47113
0.01680	490.55112
0.01890	491.29144
0.02100	488.31061
0.02310	482.07937
0.02520	473.16130
0.04200	341.16130
0.05880	209.16130
0.07560	77.16130
0.07980	77.16130

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 3.600 m
Depth of p-y curve below pile head = 3.800 m
Depth of p-y curve below ground surface = 3.800 m
Equiv. depth of p-y curve below ground surface = 1.570 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1000.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 7.925 m

Static pu_s for flat ground = 166.669 kN/m
Static pu_d for flat ground = 315.000 kN/m
y_50 = 0.05000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 166.669 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00011852	11.11124
0.00094815	22.22248
0.00320	33.33373
0.00759	44.44497
0.01481	55.55621
0.02560	66.66745
0.04065	77.77869
0.06068	88.88993
0.08640	100.00118
0.11852	111.11242
0.15775	122.22366
0.20480	133.33490
0.26039	144.44614
0.32521	155.55739
0.40000	166.66863
0.42500	166.66863

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 3.600 m
Depth of p-y curve below pile head = 9.000 m
Depth of p-y curve below ground surface = 9.000 m
Equiv. depth of p-y curve below ground surface = 9.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1000.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa

Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 7.925 m
Static pu_s for flat ground = 343.500 kN/m
Static pu_d for flat ground = 315.000 kN/m
y_50 = 0.05000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 315.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00011852	21.00000
0.00094815	42.00000
0.00320	63.00000
0.00759	84.00000
0.01481	105.00000
0.02560	126.00000
0.04065	147.00000
0.06068	168.00000
0.08640	189.00000
0.11852	210.00000
0.15775	231.00000
0.20480	252.00000
0.26039	273.00000
0.32521	294.00000
0.40000	315.00000
0.42500	315.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 3.600 m
Depth of p-y curve below pile head = 11.000 m
Depth of p-y curve below ground surface = 11.000 m
Equiv. depth of p-y curve below ground surface = 11.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees

Pile diameter = 1000.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 7.925 m
Static pu_s for flat ground = 396.500 kN/m
Static pu_d for flat ground = 315.000 kN/m
y_50 = 0.05000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 315.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00011852	21.00000
0.00094815	42.00000
0.00320	63.00000
0.00759	84.00000
0.01481	105.00000
0.02560	126.00000
0.04065	147.00000
0.06068	168.00000
0.08640	189.00000
0.11852	210.00000
0.15775	231.00000
0.20480	252.00000
0.26039	273.00000
0.32521	294.00000
0.40000	315.00000
0.42500	315.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 11.200 m

Depth of p-y curve below pile head = 11.400 m
Depth of p-y curve below ground surface = 11.400 m
Equiv. depth of p-y curve below ground surface = 11.400 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1000.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 8.571 m
Static pu_s for flat ground = 494.100 kN/m
Static pu_d for flat ground = 405.000 kN/m
y_50 = 0.03750 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 405.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00008889	27.00000
0.00071111	54.00000
0.00240	81.00000
0.00569	108.00000
0.01111	135.00000
0.01920	162.00000
0.03049	189.00000
0.04551	216.00000
0.06480	243.00000
0.08889	270.00000
0.11831	297.00000
0.15360	324.00000
0.19529	351.00000
0.24391	378.00000
0.30000	405.00000
0.31875	405.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 11.200 m
Depth of p-y curve below pile head = 16.000 m
Depth of p-y curve below ground surface = 16.000 m
Equiv. depth of p-y curve below ground surface = 16.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1000.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 8.571 m
Static pu_s for flat ground = 639.000 kN/m
Static pu_d for flat ground = 405.000 kN/m
y_50 = 0.03750 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 405.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00008889	27.00000
0.00071111	54.00000
0.00240	81.00000
0.00569	108.00000
0.01111	135.00000
0.01920	162.00000
0.03049	189.00000
0.04551	216.00000
0.06480	243.00000
0.08889	270.00000
0.11831	297.00000
0.15360	324.00000
0.19529	351.00000
0.24391	378.00000
0.30000	405.00000
0.31875	405.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 11.200 m
Depth of p-y curve below pile head = 19.800 m
Depth of p-y curve below ground surface = 19.800 m
Equiv. depth of p-y curve below ground surface = 19.800 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1000.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 8.571 m
Static pu_s for flat ground = 758.700 kN/m
Static pu_d for flat ground = 405.000 kN/m
y_50 = 0.03750 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 405.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00008889	27.00000
0.00071111	54.00000
0.00240	81.00000
0.00569	108.00000
0.01111	135.00000
0.01920	162.00000
0.03049	189.00000
0.04551	216.00000
0.06480	243.00000
0.08889	270.00000
0.11831	297.00000
0.15360	324.00000
0.19529	351.00000

0.24391	378.00000
0.30000	405.00000
0.31875	405.00000

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 1

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 75.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	5.41E-04	1.86E-11	75.0000	-2.27E-04	1.90E-10	1374447.	0.00	0.00	0.00
0.2000	4.95E-04	15.0000	73.6560	-2.26E-04	152.7887	1374447.	-13.4402	5429.	0.00
0.4000	4.50E-04	29.4624	69.8681	-2.23E-04	300.1014	1374447.	-24.4383	10858.	0.00
0.6000	4.06E-04	42.9473	64.1179	-2.18E-04	437.4571	1374447.	-33.0639	16287.	0.00
0.8000	3.63E-04	55.1096	56.8685	-2.10E-04	561.3413	1374447.	-39.4297	21716.	0.00
1.0000	3.22E-04	65.6947	48.6863	-2.02E-04	669.1604	1374447.	-42.3924	26341.	0.00
1.2000	2.83E-04	74.5841	40.0026	-1.91E-04	759.7073	1374447.	-44.4449	31464.	0.00
1.4000	2.45E-04	81.6957	30.9758	-1.80E-04	832.1457	1374447.	-45.8231	37358.	0.00
1.6000	2.11E-04	86.9744	21.8223	-1.68E-04	885.9141	1374447.	-45.7125	43432.	0.00
1.8000	1.78E-04	90.4246	12.8970	-1.55E-04	921.0576	1374447.	-43.5399	48860.	0.00
2.0000	1.49E-04	92.1332	4.5101	-1.42E-04	938.4614	1374447.	-40.3290	54289.	0.00
2.2000	1.22E-04	92.2287	-3.1537	-1.28E-04	939.4336	1374447.	-36.3091	59718.	0.00
2.4000	9.73E-05	90.8718	-9.9545	-1.15E-04	925.6122	1374447.	-31.6993	65147.	0.00
2.6000	7.57E-05	88.2469	-15.7949	-1.02E-04	898.8753	1374447.	-26.7043	70576.	0.00
2.8000	5.66E-05	84.5538	-20.6163	-8.92E-05	861.2581	1374447.	-21.5104	76005.	0.00
3.0000	4.00E-05	80.0003	-24.3957	-7.72E-05	814.8768	1374447.	-16.2831	81434.	0.00
3.2000	2.57E-05	74.7955	-27.1405	-6.60E-05	761.8612	1374447.	-11.1651	86863.	0.00
3.4000	1.36E-05	69.1441	-28.8846	-5.55E-05	704.2965	1374447.	-6.2761	92292.	0.00
3.6000	3.51E-06	63.2417	-30.0902	-4.59E-05	644.1747	1374447.	-5.7793	329681.	0.00
3.8000	-4.75E-06	57.1081	-30.2899	-3.71E-05	581.6982	1374447.	3.7818	159301.	0.00
4.0000	-1.13E-05	51.1257	-29.3886	-2.92E-05	520.7625	1374447.	5.2309	92256.	0.00

4.2000	-1.64E-05	45.3526	-28.2548	-2.22E-05	461.9582	1374447.	6.1071	74276.	0.00
4.4000	-2.02E-05	39.8238	-26.9700	-1.60E-05	405.6420	1374447.	6.7409	66647.	0.00
4.6000	-2.29E-05	34.5646	-25.5734	-1.06E-05	352.0724	1374447.	7.2253	63231.	0.00
4.8000	-2.45E-05	29.5945	-24.0908	-5.94E-06	301.4466	1374447.	7.6010	62117.	0.00
5.0000	-2.52E-05	24.9283	-22.5417	-1.98E-06	253.9177	1374447.	7.8895	62538.	0.00
5.2000	-2.53E-05	20.5778	-20.9424	1.33E-06	209.6033	1374447.	8.1036	64152.	0.00
5.4000	-2.47E-05	16.5513	-19.3069	4.04E-06	168.5906	1374447.	8.2516	66822.	0.00
5.6000	-2.36E-05	12.8550	-17.6478	6.18E-06	130.9400	1374447.	8.3392	70523.	0.00
5.8000	-2.22E-05	9.4922	-15.9769	7.80E-06	96.6870	1374447.	8.3704	75316.	0.00
6.0000	-2.05E-05	6.4643	-14.3050	8.96E-06	65.8444	1374447.	8.3481	81330.	0.00
6.2000	-1.86E-05	3.7702	-12.6427	9.71E-06	38.4032	1374447.	8.2747	88772.	0.00
6.4000	-1.66E-05	1.4072	-11.0001	1.01E-05	14.3333	1374447.	8.1519	97941.	0.00
6.6000	-1.46E-05	-0.6298	-9.3868	1.01E-05	6.4151	1374447.	7.9812	109261.	0.00
6.8000	-1.26E-05	-2.3475	-7.8123	9.92E-06	23.9118	1374447.	7.7637	123326.	0.00
7.0000	-1.06E-05	-3.7547	-6.2859	9.48E-06	38.2452	1374447.	7.5004	140985.	0.00
7.2000	-8.80E-06	-4.8619	-4.8166	8.85E-06	49.5227	1374447.	7.1922	163480.	0.00
7.4000	-7.10E-06	-5.6814	-3.4134	8.09E-06	57.8698	1374447.	6.8394	192682.	0.00
7.6000	-5.56E-06	-6.2273	-2.0853	7.22E-06	63.4303	1374447.	6.4423	231538.	0.00
7.8000	-4.21E-06	-6.5155	-0.8410	6.29E-06	66.3661	1374447.	6.0005	284951.	0.00
8.0000	-3.05E-06	-6.5637	0.3838	5.34E-06	66.8569	1374447.	6.2475	409927.	0.00
8.2000	-2.08E-06	-6.3620	1.5620	4.40E-06	64.8024	1374447.	5.5350	533350.	0.00
8.4000	-1.29E-06	-5.9389	2.5947	3.50E-06	60.4926	1374447.	4.7917	743921.	0.00
8.6000	-6.74E-07	-5.3241	3.4759	2.69E-06	54.2306	1374447.	4.0198	1193343.	0.00
8.8000	-2.14E-07	-4.5485	3.8863	1.97E-06	46.3308	1374447.	0.08483	79233.	0.00
9.0000	1.13E-07	-3.7696	3.8903	1.36E-06	38.3963	1374447.	-0.04480	79233.	0.00
9.2000	3.31E-07	-2.9924	3.8727	8.70E-07	30.4802	1374447.	-0.1310	79233.	0.00
9.4000	4.61E-07	-2.2205	3.5783	4.91E-07	22.6174	1374447.	-2.8131	1220495.	0.00
9.6000	5.27E-07	-1.5611	2.9996	2.15E-07	15.9008	1374447.	-2.9742	1129213.	0.00
9.8000	5.47E-07	-1.0206	2.3988	2.75E-08	10.3959	1374447.	-3.0334	1108846.	0.00
10.0000	5.38E-07	-0.6015	1.7908	-9.05E-08	6.1270	1374447.	-3.0470	1133162.	0.00
10.2000	5.11E-07	-0.3043	1.1811	-1.56E-07	3.0996	1374447.	-3.0501	1193915.	0.00
10.4000	4.75E-07	-0.1291	0.5694	-1.88E-07	1.3148	1374447.	-3.0672	1290840.	0.00
10.6000	4.36E-07	-0.07655	0.2454	-2.03E-07	0.7798	1374447.	-0.1726	79233.	0.00
10.8000	3.94E-07	-0.03093	0.2125	-2.11E-07	0.3151	1374447.	-0.1561	79233.	0.00
11.0000	3.51E-07	0.00844	0.1830	-2.12E-07	0.08600	1374447.	-0.1392	79233.	0.00
11.2000	3.09E-07	0.04225	0.1504	-2.09E-07	0.4303	1374447.	-0.1866	120736.	0.00
11.4000	2.68E-07	0.06859	0.1135	-2.01E-07	0.6987	1374447.	-0.1820	135828.	0.00
11.6000	2.29E-07	0.08765	0.07975	-1.89E-07	0.8928	1374447.	-0.1555	135828.	0.00
11.8000	1.92E-07	0.1005	0.05114	-1.76E-07	1.0236	1374447.	-0.1306	135828.	0.00
12.0000	1.59E-07	0.1081	0.02730	-1.60E-07	1.1012	1374447.	-0.1078	135828.	0.00
12.2000	1.28E-07	0.1114	0.00782	-1.44E-07	1.1348	1374447.	-0.08707	135828.	0.00
12.4000	1.01E-07	0.1112	-0.00774	-1.28E-07	1.1330	1374447.	-0.06856	135828.	0.00
12.6000	7.69E-08	0.1083	-0.01982	-1.12E-07	1.1033	1374447.	-0.05225	135828.	0.00
12.8000	5.61E-08	0.1033	-0.02886	-9.68E-08	1.0523	1374447.	-0.03808	135828.	0.00

13.0000	3.82E-08	0.09677	-0.03526	-8.23E-08	0.9857	1374447.	-0.02595	135828.	0.00
13.2000	2.32E-08	0.08920	-0.03943	-6.87E-08	0.9086	1374447.	-0.01573	135828.	0.00
13.4000	1.07E-08	0.08100	-0.04173	-5.63E-08	0.8251	1374447.	-0.00728	135828.	0.00
13.6000	6.33E-10	0.07251	-0.04250	-4.52E-08	0.7386	1374447.	-4.30E-04	135828.	0.00
13.8000	-7.35E-09	0.06400	-0.04205	-3.52E-08	0.6519	1374447.	0.00499	135828.	0.00
14.0000	-1.35E-08	0.05569	-0.04063	-2.65E-08	0.5673	1374447.	0.00914	135828.	0.00
14.2000	-1.80E-08	0.04775	-0.03850	-1.90E-08	0.4863	1374447.	0.01219	135828.	0.00
14.4000	-2.11E-08	0.04029	-0.03585	-1.26E-08	0.4104	1374447.	0.01430	135828.	0.00
14.6000	-2.30E-08	0.03341	-0.03286	-7.23E-09	0.3403	1374447.	0.01562	135828.	0.00
14.8000	-2.40E-08	0.02715	-0.02967	-2.83E-09	0.2765	1374447.	0.01627	135828.	0.00
15.0000	-2.41E-08	0.02154	-0.02640	7.13E-10	0.2194	1374447.	0.01639	135828.	0.00
15.2000	-2.37E-08	0.01659	-0.02316	3.49E-09	0.1690	1374447.	0.01608	135828.	0.00
15.4000	-2.27E-08	0.01228	-0.02001	5.59E-09	0.1251	1374447.	0.01544	135828.	0.00
15.6000	-2.14E-08	0.00858	-0.01701	7.11E-09	0.08744	1374447.	0.01456	135828.	0.00
15.8000	-1.99E-08	0.00547	-0.01420	8.13E-09	0.05576	1374447.	0.01351	135828.	0.00
16.0000	-1.82E-08	0.00290	-0.01161	8.74E-09	0.02959	1374447.	0.01235	135828.	0.00
16.2000	-1.64E-08	8.29E-04	-0.00927	9.01E-09	0.00844	1374447.	0.01113	135828.	0.00
16.4000	-1.46E-08	-8.01E-04	-0.00716	9.01E-09	0.00816	1374447.	0.00990	135828.	0.00
16.6000	-1.28E-08	-0.00204	-0.00530	8.81E-09	0.02074	1374447.	0.00869	135828.	0.00
16.8000	-1.11E-08	-0.00292	-0.00368	8.44E-09	0.02977	1374447.	0.00751	135828.	0.00
17.0000	-9.41E-09	-0.00351	-0.00229	7.98E-09	0.03575	1374447.	0.00639	135828.	0.00
17.2000	-7.87E-09	-0.00384	-0.00112	7.44E-09	0.03912	1374447.	0.00534	135828.	0.00
17.4000	-6.44E-09	-0.00396	-1.49E-04	6.87E-09	0.04031	1374447.	0.00437	135828.	0.00
17.6000	-5.12E-09	-0.00390	6.36E-04	6.30E-09	0.03972	1374447.	0.00348	135828.	0.00
17.8000	-3.91E-09	-0.00370	0.00125	5.75E-09	0.03772	1374447.	0.00266	135828.	0.00
18.0000	-2.82E-09	-0.00340	0.00171	5.23E-09	0.03463	1374447.	0.00191	135828.	0.00
18.2000	-1.82E-09	-0.00302	0.00202	4.77E-09	0.03076	1374447.	0.00124	135828.	0.00
18.4000	-9.12E-10	-0.00259	0.00221	4.36E-09	0.02639	1374447.	6.19E-04	135828.	0.00
18.6000	-7.81E-11	-0.00214	0.00227	4.01E-09	0.02177	1374447.	5.30E-05	135828.	0.00
18.8000	6.93E-10	-0.00168	0.00223	3.74E-09	0.01713	1374447.	-4.71E-04	135828.	0.00
19.0000	1.42E-09	-0.00124	0.00209	3.52E-09	0.01267	1374447.	-9.62E-04	135828.	0.00
19.2000	2.10E-09	-8.45E-04	0.00185	3.37E-09	0.00861	1374447.	-0.00143	135828.	0.00
19.4000	2.76E-09	-5.04E-04	0.00152	3.27E-09	0.00513	1374447.	-0.00188	135828.	0.00
19.6000	3.41E-09	-2.37E-04	0.00110	3.22E-09	0.00242	1374447.	-0.00232	135828.	0.00
19.8000	4.05E-09	-6.37E-05	5.94E-04	3.20E-09	6.49E-04	1374447.	-0.00275	135828.	0.00
20.0000	4.69E-09	0.00	0.00	3.19E-09	0.00	1374447.	-0.00319	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 1:

Pile-head deflection = 0.00054055 meters

Computed slope at pile head = -0.00022711 radians

Maximum bending moment = 92.22868014 kN-m

Maximum shear force = 75.00000000 kN

Depth of maximum bending moment = 2.20000000 meters below pile head

Depth of maximum shear force = 0.000000 meters below pile head

Number of iterations = 11

Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 2

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 80.000 kN

Applied moment at pile head = 0.000 kN-m

Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	5.83E-04	-2.24E-11	80.0000	-2.44E-04	2.28E-10	1374447.	0.00	0.00	0.00
0.2000	5.35E-04	16.0000	78.5491	-2.43E-04	162.9747	1374447.	-14.5094	5429.	0.00
0.4000	4.86E-04	31.4196	74.4591	-2.40E-04	320.0377	1374447.	-26.3899	10858.	0.00
0.6000	4.39E-04	45.7837	68.2486	-2.34E-04	466.3484	1374447.	-35.7158	16287.	0.00
0.8000	3.92E-04	58.7190	60.5538	-2.27E-04	598.1073	1374447.	-41.2322	21015.	0.00
1.0000	3.48E-04	70.0052	52.0232	-2.17E-04	713.0667	1374447.	-44.0739	25334.	0.00
1.2000	3.06E-04	79.5283	42.9940	-2.06E-04	810.0687	1374447.	-46.2171	30256.	0.00
1.4000	2.65E-04	87.2028	33.6063	-1.94E-04	888.2402	1374447.	-47.6600	35917.	0.00
1.6000	2.28E-04	92.9708	23.9999	-1.81E-04	946.9933	1374447.	-48.4044	42496.	0.00
1.8000	1.93E-04	96.8027	14.4461	-1.67E-04	986.0246	1374447.	-47.1337	48860.	0.00
2.0000	1.61E-04	98.7493	5.3658	-1.53E-04	1006.	1374447.	-43.6690	54289.	0.00
2.2000	1.32E-04	98.9491	-2.9333	-1.39E-04	1008.	1374447.	-39.3220	59718.	0.00
2.4000	1.05E-04	97.5760	-10.2983	-1.24E-04	993.9007	1374447.	-34.3286	65147.	0.00
2.6000	8.19E-05	94.8297	-16.6221	-1.10E-04	965.9277	1374447.	-28.9094	70576.	0.00
2.8000	6.12E-05	90.9271	-21.8396	-9.69E-05	926.1760	1374447.	-23.2651	76005.	0.00
3.0000	4.32E-05	86.0939	-25.9235	-8.40E-05	876.9453	1374447.	-17.5742	81434.	0.00
3.2000	2.76E-05	80.5577	-28.8801	-7.19E-05	820.5541	1374447.	-11.9912	86863.	0.00
3.4000	1.44E-05	74.5419	-30.7438	-6.06E-05	759.2773	1374447.	-6.6458	92292.	0.00
3.6000	3.36E-06	68.2602	-31.9902	-5.02E-05	695.2928	1374447.	-5.8187	346027.	0.00
3.8000	-5.69E-06	61.7458	-32.1751	-4.08E-05	628.9375	1374447.	3.9700	139573.	0.00

4.0000	-1.29E-05	55.3902	-31.2345	-3.22E-05	564.1997	1374447.	5.4358	83990.	0.00
4.2000	-1.86E-05	49.2520	-30.0574	-2.46E-05	501.6767	1374447.	6.3348	68164.	0.00
4.4000	-2.28E-05	43.3672	-28.7250	-1.79E-05	441.7348	1374447.	6.9896	61321.	0.00
4.6000	-2.57E-05	37.7620	-27.2767	-1.20E-05	384.6406	1374447.	7.4930	58212.	0.00
4.8000	-2.76E-05	32.4565	-25.7388	-6.88E-06	330.5993	1374447.	7.8861	57161.	0.00
5.0000	-2.85E-05	27.4665	-24.1312	-2.52E-06	279.7712	1374447.	8.1905	57484.	0.00
5.2000	-2.86E-05	22.8040	-22.4702	1.14E-06	232.2801	1374447.	8.4195	58875.	0.00
5.4000	-2.80E-05	18.4784	-20.7701	4.14E-06	188.2195	1374447.	8.5813	61203.	0.00
5.6000	-2.69E-05	14.4960	-19.0438	6.54E-06	147.6551	1374447.	8.6819	64440.	0.00
5.8000	-2.54E-05	10.8609	-17.3031	8.38E-06	110.6281	1374447.	8.7253	68630.	0.00
6.0000	-2.36E-05	7.5748	-15.5591	9.72E-06	77.1561	1374447.	8.7146	73877.	0.00
6.2000	-2.15E-05	4.6373	-13.8224	1.06E-05	47.2347	1374447.	8.6523	80349.	0.00
6.4000	-1.93E-05	2.0458	-12.1031	1.11E-05	20.8386	1374447.	8.5404	88288.	0.00
6.6000	-1.71E-05	-0.2040	-10.4110	1.12E-05	2.0778	1374447.	8.3806	98035.	0.00
6.8000	-1.49E-05	-2.1186	-8.7555	1.11E-05	21.5796	1374447.	8.1744	110067.	0.00
7.0000	-1.27E-05	-3.7062	-7.1457	1.06E-05	37.7508	1374447.	7.9233	125057.	0.00
7.2000	-1.06E-05	-4.9769	-5.5905	1.00E-05	50.6939	1374447.	7.6286	143974.	0.00
7.4000	-8.67E-06	-5.9424	-4.0985	9.21E-06	60.5288	1374447.	7.2920	168254.	0.00
7.6000	-6.91E-06	-6.6163	-2.6778	8.30E-06	67.3926	1374447.	6.9153	200112.	0.00
7.8000	-5.35E-06	-7.0135	-1.3362	7.31E-06	71.4389	1374447.	6.5006	243124.	0.00
8.0000	-3.99E-06	-7.1507	-4.08E-04	6.28E-06	72.8367	1374447.	6.8571	343905.	0.00
8.2000	-2.84E-06	-7.0137	1.3049	5.25E-06	71.4406	1374447.	6.1955	436906.	0.00
8.4000	-1.89E-06	-6.6288	2.4781	4.26E-06	67.5202	1374447.	5.5366	586332.	0.00
8.6000	-1.13E-06	-6.0224	3.5231	3.33E-06	61.3441	1374447.	4.9134	866636.	0.00
8.8000	-5.55E-07	-5.2196	4.0364	2.52E-06	53.1660	1374447.	0.2197	79233.	0.00
9.0000	-1.27E-07	-4.4079	4.0634	1.82E-06	44.8984	1374447.	0.05035	79233.	0.00
9.2000	1.72E-07	-3.5942	4.0616	1.23E-06	36.6103	1374447.	-0.06818	79233.	0.00
9.4000	3.67E-07	-2.7833	3.8310	7.70E-07	28.3500	1374447.	-2.2374	1220354.	0.00
9.6000	4.80E-07	-2.0618	3.3477	4.18E-07	21.0012	1374447.	-2.5963	1081204.	0.00
9.8000	5.34E-07	-1.4442	2.8119	1.63E-07	14.7103	1374447.	-2.7612	1034454.	0.00
10.0000	5.45E-07	-0.9370	2.2528	-1.04E-08	9.5444	1374447.	-2.8296	1037663.	0.00
10.2000	5.30E-07	-0.5430	1.6846	-1.18E-07	5.5314	1374447.	-2.8524	1077060.	0.00
10.4000	4.98E-07	-0.2632	1.1132	-1.77E-07	2.6806	1374447.	-2.8625	1149296.	0.00
10.6000	4.59E-07	-0.09779	0.5385	-2.03E-07	0.9960	1374447.	-2.8840	1256782.	0.00
10.8000	4.17E-07	-0.04777	0.2336	-2.14E-07	0.4866	1374447.	-0.1652	79233.	0.00
11.0000	3.73E-07	-0.00435	0.2023	-2.17E-07	0.04436	1374447.	-0.1480	79233.	0.00
11.2000	3.30E-07	0.03314	0.1676	-2.15E-07	0.3376	1374447.	-0.1992	120736.	0.00
11.4000	2.87E-07	0.06267	0.1281	-2.08E-07	0.6383	1374447.	-0.1952	135828.	0.00
11.6000	2.47E-07	0.08439	0.09185	-1.98E-07	0.8595	1374447.	-0.1675	135828.	0.00
11.8000	2.08E-07	0.09941	0.06096	-1.84E-07	1.0125	1374447.	-0.1415	135828.	0.00
12.0000	1.73E-07	0.1088	0.03507	-1.69E-07	1.1079	1374447.	-0.1174	135828.	0.00
12.2000	1.41E-07	0.1134	0.01377	-1.53E-07	1.1554	1374447.	-0.09552	135828.	0.00
12.4000	1.12E-07	0.1143	-0.00336	-1.36E-07	1.1640	1374447.	-0.07586	135828.	0.00
12.6000	8.61E-08	0.1121	-0.01680	-1.20E-07	1.1417	1374447.	-0.05846	135828.	0.00

12.8000	6.37E-08	0.1076	-0.02697	-1.04E-07	1.0956	1374447.	-0.04328	135828.	0.00
13.0000	4.45E-08	0.1013	-0.03432	-8.88E-08	1.0318	1374447.	-0.03022	135828.	0.00
13.2000	2.82E-08	0.09383	-0.03926	-7.46E-08	0.9557	1374447.	-0.01917	135828.	0.00
13.4000	1.47E-08	0.08559	-0.04217	-6.15E-08	0.8719	1374447.	-0.00997	135828.	0.00
13.6000	3.62E-09	0.07696	-0.04342	-4.97E-08	0.7839	1374447.	-0.00246	135828.	0.00
13.8000	-5.20E-09	0.06823	-0.04331	-3.91E-08	0.6950	1374447.	0.00353	135828.	0.00
14.0000	-1.20E-08	0.05964	-0.04214	-2.98E-08	0.6074	1374447.	0.00817	135828.	0.00
14.2000	-1.71E-08	0.05137	-0.04016	-2.17E-08	0.5233	1374447.	0.01163	135828.	0.00
14.4000	-2.07E-08	0.04357	-0.03759	-1.48E-08	0.4438	1374447.	0.01407	135828.	0.00
14.6000	-2.31E-08	0.03633	-0.03462	-9.02E-09	0.3701	1374447.	0.01566	135828.	0.00
14.8000	-2.43E-08	0.02972	-0.03140	-4.21E-09	0.3028	1374447.	0.01652	135828.	0.00
15.0000	-2.47E-08	0.02378	-0.02807	-3.21E-10	0.2422	1374447.	0.01680	135828.	0.00
15.2000	-2.45E-08	0.01850	-0.02472	2.76E-09	0.1884	1374447.	0.01661	135828.	0.00
15.4000	-2.36E-08	0.01389	-0.02146	5.11E-09	0.1414	1374447.	0.01605	135828.	0.00
15.6000	-2.24E-08	0.00992	-0.01833	6.84E-09	0.1010	1374447.	0.01522	135828.	0.00
15.8000	-2.09E-08	0.00655	-0.01539	8.04E-09	0.06675	1374447.	0.01420	135828.	0.00
16.0000	-1.92E-08	0.00376	-0.01266	8.79E-09	0.03830	1374447.	0.01304	135828.	0.00
16.2000	-1.74E-08	0.00149	-0.01018	9.17E-09	0.01515	1374447.	0.01181	135828.	0.00
16.4000	-1.55E-08	-3.12E-04	-0.00794	9.26E-09	0.00318	1374447.	0.01055	135828.	0.00
16.6000	-1.37E-08	-0.00169	-0.00596	9.11E-09	0.01722	1374447.	0.00929	135828.	0.00
16.8000	-1.19E-08	-0.00270	-0.00422	8.79E-09	0.02746	1374447.	0.00807	135828.	0.00
17.0000	-1.02E-08	-0.00338	-0.00273	8.35E-09	0.03443	1374447.	0.00690	135828.	0.00
17.2000	-8.54E-09	-0.00379	-0.00146	7.83E-09	0.03857	1374447.	0.00580	135828.	0.00
17.4000	-7.03E-09	-0.00396	-3.98E-04	7.27E-09	0.04036	1374447.	0.00478	135828.	0.00
17.6000	-5.64E-09	-0.00395	4.62E-04	6.69E-09	0.04020	1374447.	0.00383	135828.	0.00
17.8000	-4.36E-09	-0.00378	0.00114	6.13E-09	0.03848	1374447.	0.00296	135828.	0.00
18.0000	-3.19E-09	-0.00349	0.00165	5.60E-09	0.03555	1374447.	0.00216	135828.	0.00
18.2000	-2.12E-09	-0.00312	0.00201	5.12E-09	0.03174	1374447.	0.00144	135828.	0.00
18.4000	-1.14E-09	-0.00268	0.00223	4.70E-09	0.02735	1374447.	7.73E-04	135828.	0.00
18.6000	-2.37E-10	-0.00222	0.00233	4.34E-09	0.02264	1374447.	1.61E-04	135828.	0.00
18.8000	5.99E-10	-0.00175	0.00230	4.05E-09	0.01786	1374447.	-4.07E-04	135828.	0.00
19.0000	1.38E-09	-0.00130	0.00217	3.83E-09	0.01326	1374447.	-9.40E-04	135828.	0.00
19.2000	2.13E-09	-8.87E-04	0.00193	3.67E-09	0.00903	1374447.	-0.00145	135828.	0.00
19.4000	2.85E-09	-5.30E-04	0.00159	3.57E-09	0.00539	1374447.	-0.00194	135828.	0.00
19.6000	3.56E-09	-2.50E-04	0.00116	3.51E-09	0.00255	1374447.	-0.00242	135828.	0.00
19.8000	4.26E-09	-6.73E-05	6.25E-04	3.49E-09	6.85E-04	1374447.	-0.00289	135828.	0.00
20.0000	4.95E-09	0.00	0.00	3.48E-09	0.00	1374447.	-0.00336	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 2:

Pile-head deflection = 0.00058341 meters

Computed slope at pile head = -0.00024446 radians

Maximum bending moment = 98.94906647 kN-m

Maximum shear force = 80.00000000 kN

Depth of maximum bending moment = 2.20000000 meters below pile head

Depth of maximum shear force = 0.000000 meters below pile head

Number of iterations = 7

Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 3

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 105.000 kN

Applied moment at pile head = 0.000 kN-m

Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	8.25E-04	-5.22E-11	105.0000	-3.39E-04	5.31E-10	1374447.	0.00	0.00	0.00
0.2000	7.58E-04	21.0000	102.9434	-3.37E-04	213.9042	1374447.	-20.5656	5429.	0.00
0.4000	6.90E-04	41.1774	97.1384	-3.33E-04	419.4293	1374447.	-37.4850	10858.	0.00
0.6000	6.25E-04	59.8554	88.8910	-3.25E-04	609.6817	1374447.	-44.9892	14408.	0.00
0.8000	5.60E-04	76.7338	79.4647	-3.16E-04	781.6037	1374447.	-49.2733	17589.	0.00
1.0000	4.98E-04	91.6412	69.2625	-3.03E-04	933.4500	1374447.	-52.7486	21172.	0.00
1.2000	4.39E-04	104.4388	58.4472	-2.89E-04	1064.	1374447.	-55.4047	25243.	0.00
1.4000	3.83E-04	115.0201	47.1832	-2.73E-04	1172.	1374447.	-57.2357	29912.	0.00
1.6000	3.30E-04	123.3120	35.6356	-2.56E-04	1256.	1374447.	-58.2399	35322.	0.00
1.8000	2.80E-04	129.2744	23.9698	-2.37E-04	1317.	1374447.	-58.4181	41665.	0.00
2.0000	2.35E-04	132.9000	12.3508	-2.18E-04	1354.	1374447.	-57.7720	49202.	0.00
2.2000	1.93E-04	134.2147	0.9435	-1.99E-04	1367.	1374447.	-56.3012	58307.	0.00
2.4000	1.55E-04	133.2774	-9.7457	-1.79E-04	1358.	1374447.	-50.5905	65147.	0.00
2.6000	1.21E-04	130.3164	-19.0880	-1.60E-04	1327.	1374447.	-42.8331	70576.	0.00
2.8000	9.12E-05	125.6422	-26.8388	-1.42E-04	1280.	1374447.	-34.6749	76005.	0.00
3.0000	6.48E-05	119.5809	-32.9433	-1.24E-04	1218.	1374447.	-26.3694	81434.	0.00
3.2000	4.18E-05	112.4648	-37.3940	-1.07E-04	1146.	1374447.	-18.1378	86863.	0.00
3.4000	2.20E-05	104.6233	-40.2245	-9.10E-05	1066.	1374447.	-10.1678	92292.	0.00
3.6000	5.35E-06	96.3750	-41.9052	-7.64E-05	981.6681	1374447.	-6.6391	248144.	0.00

3.8000	-8.53E-06	87.8612	-42.1083	-6.30E-05	894.9469	1374447.	4.6086	108090.	0.00
4.0000	-1.98E-05	79.5317	-41.0163	-5.08E-05	810.1035	1374447.	6.3116	63598.	0.00
4.2000	-2.89E-05	71.4547	-39.6478	-3.98E-05	727.8317	1374447.	7.3730	51103.	0.00
4.4000	-3.58E-05	63.6726	-38.0946	-3.00E-05	648.5639	1374447.	8.1593	45605.	0.00
4.6000	-4.09E-05	56.2169	-36.4010	-2.13E-05	572.6204	1374447.	8.7763	42962.	0.00
4.8000	-4.43E-05	49.1122	-34.5963	-1.36E-05	500.2528	1374447.	9.2707	41859.	0.00
5.0000	-4.63E-05	42.3784	-32.7025	-6.96E-06	431.6624	1374447.	9.6672	41756.	0.00
5.2000	-4.71E-05	36.0312	-30.7377	-1.26E-06	367.0107	1374447.	9.9806	42400.	0.00
5.4000	-4.68E-05	30.0833	-28.7177	3.55E-06	306.4255	1374447.	10.2204	43672.	0.00
5.6000	-4.57E-05	24.5441	-26.6563	7.53E-06	250.0045	1374447.	10.3931	45527.	0.00
5.8000	-4.38E-05	19.4207	-24.5667	1.07E-05	197.8180	1374447.	10.5031	47966.	0.00
6.0000	-4.14E-05	14.7175	-22.4610	1.32E-05	149.9108	1374447.	10.5539	51028.	0.00
6.2000	-3.85E-05	10.4363	-20.3508	1.50E-05	106.3037	1374447.	10.5480	54782.	0.00
6.4000	-3.53E-05	6.5771	-18.2473	1.63E-05	66.9943	1374447.	10.4871	59335.	0.00
6.6000	-3.20E-05	3.1374	-16.1613	1.70E-05	31.9576	1374447.	10.3730	64837.	0.00
6.8000	-2.86E-05	0.1126	-14.1033	1.72E-05	1.1473	1374447.	10.2066	71490.	0.00
7.0000	-2.51E-05	-2.5039	-12.0837	1.70E-05	25.5044	1374447.	9.9892	79570.	0.00
7.2000	-2.17E-05	-4.7209	-10.1127	1.65E-05	48.0862	1374447.	9.7214	89455.	0.00
7.4000	-1.85E-05	-6.5490	-8.2001	1.57E-05	66.7071	1374447.	9.4039	101671.	0.00
7.6000	-1.55E-05	-8.0009	-6.3560	1.46E-05	81.4966	1374447.	9.0371	116961.	0.00
7.8000	-1.26E-05	-9.0914	-4.5902	1.34E-05	92.6039	1374447.	8.6215	136407.	0.00
8.0000	-1.01E-05	-9.8370	-2.8037	1.20E-05	100.1986	1374447.	9.2435	183170.	0.00
8.2000	-7.83E-06	-10.2128	-1.0294	1.06E-05	104.0271	1374447.	8.4991	217058.	0.00
8.4000	-5.87E-06	-10.2487	0.5932	9.08E-06	104.3928	1374447.	7.7267	263405.	0.00
8.6000	-4.20E-06	-9.9756	2.0582	7.61E-06	101.6104	1374447.	6.9237	329657.	0.00
8.8000	-2.82E-06	-9.4255	3.3589	6.19E-06	96.0070	1374447.	6.0835	430732.	0.00
9.0000	-1.72E-06	-8.6320	4.4861	4.88E-06	87.9249	1374447.	5.1887	602228.	0.00
9.2000	-8.73E-07	-7.6310	5.4244	3.70E-06	77.7288	1374447.	4.1938	960975.	0.00
9.4000	-2.45E-07	-6.4623	5.8535	2.67E-06	65.8240	1374447.	0.09689	79233.	0.00
9.6000	1.96E-07	-5.2896	5.8554	1.82E-06	53.8797	1374447.	-0.07750	79233.	0.00
9.8000	4.82E-07	-4.1201	5.5237	1.13E-06	41.9669	1374447.	-3.2397	1344661.	0.00
10.0000	6.48E-07	-3.0802	4.8354	6.08E-07	31.3742	1374447.	-3.6436	1124216.	0.00
10.2000	7.25E-07	-2.1860	4.0870	2.24E-07	22.2659	1374447.	-3.8396	1059355.	0.00
10.4000	7.38E-07	-1.4453	3.3097	-3.98E-08	14.7221	1374447.	-3.9337	1066065.	0.00
10.6000	7.09E-07	-0.8621	2.5183	-2.08E-07	8.7810	1374447.	-3.9805	1122868.	0.00
10.8000	6.55E-07	-0.4380	1.7184	-3.02E-07	4.4616	1374447.	-4.0188	1227271.	0.00
11.0000	5.88E-07	-0.1747	1.2932	-3.47E-07	1.7798	1374447.	-0.2330	79233.	0.00
11.2000	5.16E-07	0.07925	0.7423	-3.54E-07	0.8072	1374447.	-5.2755	2043968.	0.00
11.4000	4.47E-07	0.1222	0.1844	-3.39E-07	1.2448	1374447.	-0.3033	135828.	0.00
11.6000	3.81E-07	0.1530	0.1283	-3.19E-07	1.5587	1374447.	-0.2585	135828.	0.00
11.8000	3.19E-07	0.1735	0.08076	-2.95E-07	1.7674	1374447.	-0.2166	135828.	0.00
12.0000	2.62E-07	0.1853	0.04128	-2.69E-07	1.8878	1374447.	-0.1782	135828.	0.00
12.2000	2.11E-07	0.1900	0.00910	-2.42E-07	1.9356	1374447.	-0.1435	135828.	0.00
12.4000	1.66E-07	0.1890	-0.01650	-2.14E-07	1.9249	1374447.	-0.1125	135828.	0.00

12.6000	1.26E-07	0.1834	-0.03628	-1.87E-07	1.8683	1374447.	-0.08528	135828.	0.00
12.8000	9.08E-08	0.1745	-0.05097	-1.61E-07	1.7771	1374447.	-0.06166	135828.	0.00
13.0000	6.11E-08	0.1630	-0.06129	-1.37E-07	1.6607	1374447.	-0.04149	135828.	0.00
13.2000	3.61E-08	0.1499	-0.06789	-1.14E-07	1.5273	1374447.	-0.02454	135828.	0.00
13.4000	1.55E-08	0.1359	-0.07140	-9.31E-08	1.3840	1374447.	-0.01056	135828.	0.00
13.6000	-1.09E-09	0.1214	-0.07238	-7.43E-08	1.2364	1374447.	7.37E-04	135828.	0.00
13.8000	-1.42E-08	0.1069	-0.07135	-5.77E-08	1.0891	1374447.	0.00964	135828.	0.00
14.0000	-2.42E-08	0.09285	-0.06874	-4.32E-08	0.9457	1374447.	0.01642	135828.	0.00
14.2000	-3.15E-08	0.07943	-0.06496	-3.07E-08	0.8090	1374447.	0.02137	135828.	0.00
14.4000	-3.64E-08	0.06686	-0.06035	-2.00E-08	0.6811	1374447.	0.02475	135828.	0.00
14.6000	-3.95E-08	0.05529	-0.05519	-1.11E-08	0.5632	1374447.	0.02681	135828.	0.00
14.8000	-4.09E-08	0.04479	-0.04973	-3.85E-09	0.4562	1374447.	0.02778	135828.	0.00
15.0000	-4.10E-08	0.03539	-0.04417	1.98E-09	0.3605	1374447.	0.02786	135828.	0.00
15.2000	-4.01E-08	0.02712	-0.03866	6.53E-09	0.2762	1374447.	0.02724	135828.	0.00
15.4000	-3.84E-08	0.01993	-0.03333	9.95E-09	0.2030	1374447.	0.02608	135828.	0.00
15.6000	-3.61E-08	0.01379	-0.02827	1.24E-08	0.1404	1374447.	0.02454	135828.	0.00
15.8000	-3.34E-08	0.00862	-0.02354	1.40E-08	0.08784	1374447.	0.02272	135828.	0.00
16.0000	-3.05E-08	0.00437	-0.01920	1.50E-08	0.04451	1374447.	0.02072	135828.	0.00
16.2000	-2.75E-08	9.45E-04	-0.01526	1.54E-08	0.00963	1374447.	0.01865	135828.	0.00
16.4000	-2.44E-08	-0.00173	-0.01174	1.53E-08	0.01766	1374447.	0.01655	135828.	0.00
16.6000	-2.13E-08	-0.00375	-0.00864	1.49E-08	0.03821	1374447.	0.01449	135828.	0.00
16.8000	-1.84E-08	-0.00519	-0.00594	1.43E-08	0.05285	1374447.	0.01250	135828.	0.00
17.0000	-1.56E-08	-0.00613	-0.00363	1.34E-08	0.06240	1374447.	0.01061	135828.	0.00
17.2000	-1.30E-08	-0.00664	-0.00168	1.25E-08	0.06762	1374447.	0.00885	135828.	0.00
17.4000	-1.06E-08	-0.00680	-7.35E-05	1.15E-08	0.06924	1374447.	0.00722	135828.	0.00
17.6000	-8.42E-09	-0.00667	0.00122	1.05E-08	0.06792	1374447.	0.00572	135828.	0.00
17.8000	-6.41E-09	-0.00631	0.00223	9.61E-09	0.06427	1374447.	0.00435	135828.	0.00
18.0000	-4.58E-09	-0.00578	0.00297	8.73E-09	0.05885	1374447.	0.00311	135828.	0.00
18.2000	-2.92E-09	-0.00512	0.00348	7.93E-09	0.05216	1374447.	0.00198	135828.	0.00
18.4000	-1.40E-09	-0.00439	0.00377	7.24E-09	0.04467	1374447.	9.53E-04	135828.	0.00
18.6000	-1.85E-11	-0.00361	0.00387	6.66E-09	0.03679	1374447.	1.26E-05	135828.	0.00
18.8000	1.26E-09	-0.00284	0.00379	6.19E-09	0.02890	1374447.	-8.56E-04	135828.	0.00
19.0000	2.46E-09	-0.00210	0.00353	5.83E-09	0.02136	1374447.	-0.00167	135828.	0.00
19.2000	3.59E-09	-0.00142	0.00312	5.58E-09	0.01450	1374447.	-0.00244	135828.	0.00
19.4000	4.69E-09	-8.47E-04	0.00256	5.41E-09	0.00863	1374447.	-0.00318	135828.	0.00
19.6000	5.76E-09	-3.99E-04	0.00185	5.32E-09	0.00406	1374447.	-0.00391	135828.	0.00
19.8000	6.82E-09	-1.07E-04	9.97E-04	5.28E-09	0.00109	1374447.	-0.00463	135828.	0.00
20.0000	7.87E-09	0.00	0.00	5.28E-09	0.00	1374447.	-0.00535	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 3:

Pile-head deflection = 0.00082540 meters
Computed slope at pile head = -0.00033886 radians
Maximum bending moment = 134.21468850 kN-m
Maximum shear force = 105.00000000 kN
Depth of maximum bending moment = 2.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 8
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 4

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 120.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	9.88E-04	7.45E-12	120.0000	-4.00E-04	7.59E-11	1374447.	0.00	0.00	0.00
0.2000	9.08E-04	24.0000	117.5344	-3.98E-04	244.4620	1374447.	-24.6558	5429.	0.00
0.4000	8.29E-04	47.0138	110.6953	-3.93E-04	478.8783	1374447.	-43.7352	10552.	0.00
0.6000	7.51E-04	68.2781	101.3880	-3.85E-04	695.4753	1374447.	-49.3383	13140.	0.00
0.8000	6.75E-04	87.5690	91.0455	-3.74E-04	891.9700	1374447.	-54.0860	16026.	0.00
1.0000	6.02E-04	104.6963	79.8409	-3.60E-04	1066.	1374447.	-57.9601	19271.	0.00
1.2000	5.31E-04	119.5053	67.9501	-3.43E-04	1217.	1374447.	-60.9482	22950.	0.00
1.4000	4.64E-04	131.8764	55.5510	-3.25E-04	1343.	1374447.	-63.0423	27161.	0.00
1.6000	4.01E-04	141.7257	42.8230	-3.05E-04	1444.	1374447.	-64.2386	32029.	0.00
1.8000	3.42E-04	149.0056	29.9455	-2.84E-04	1518.	1374447.	-64.5357	37721.	0.00
2.0000	2.88E-04	153.7040	17.0987	-2.62E-04	1566.	1374447.	-63.9330	44468.	0.00
2.2000	2.37E-04	155.8450	4.4626	-2.39E-04	1587.	1374447.	-62.4274	52593.	0.00
2.4000	1.92E-04	155.4890	-7.7809	-2.17E-04	1584.	1374447.	-60.0082	62579.	0.00
2.6000	1.51E-04	152.7327	-19.0994	-1.94E-04	1556.	1374447.	-53.1768	70576.	0.00
2.8000	1.14E-04	147.8492	-28.7513	-1.72E-04	1506.	1374447.	-43.3415	76005.	0.00
3.0000	8.17E-05	141.2322	-36.4123	-1.51E-04	1439.	1374447.	-33.2689	81434.	0.00
3.2000	5.35E-05	133.2843	-42.0617	-1.31E-04	1358.	1374447.	-23.2255	86863.	0.00
3.4000	2.91E-05	124.4075	-45.7282	-1.13E-04	1267.	1374447.	-13.4395	92292.	0.00

3.6000	8.39E-06	114.9930	-47.8417	-9.53E-05	1171.	1374447.	-7.6956	183401.	0.00
3.8000	-8.99E-06	105.2708	-48.1416	-7.93E-05	1072.	1374447.	4.6973	104465.	0.00
4.0000	-2.33E-05	95.7364	-47.0053	-6.46E-05	975.1629	1374447.	6.6649	57174.	0.00
4.2000	-3.48E-05	86.4686	-45.5531	-5.14E-05	880.7622	1374447.	7.8573	45092.	0.00
4.4000	-4.39E-05	77.5151	-43.8936	-3.95E-05	789.5628	1374447.	8.7384	39839.	0.00
4.6000	-5.06E-05	68.9112	-42.0764	-2.88E-05	701.9237	1374447.	9.4329	37261.	0.00
4.8000	-5.54E-05	60.6846	-40.1337	-1.94E-05	618.1280	1374447.	9.9943	36087.	0.00
5.0000	-5.84E-05	52.8577	-38.0892	-1.11E-05	538.4043	1374447.	10.4506	35802.	0.00
5.2000	-5.98E-05	45.4489	-35.9623	-3.96E-06	462.9385	1374447.	10.8184	36162.	0.00
5.4000	-6.00E-05	38.4728	-33.7697	2.15E-06	391.8805	1374447.	11.1083	37050.	0.00
5.6000	-5.90E-05	31.9410	-31.5261	7.27E-06	325.3485	1374447.	11.3274	38414.	0.00
5.8000	-5.71E-05	25.8623	-29.2453	1.15E-05	263.4317	1374447.	11.4806	40243.	0.00
6.0000	-5.44E-05	20.2429	-26.9401	1.48E-05	206.1925	1374447.	11.5717	42555.	0.00
6.2000	-5.11E-05	15.0863	-24.6226	1.74E-05	153.6680	1374447.	11.6033	45393.	0.00
6.4000	-4.74E-05	10.3939	-22.3045	1.93E-05	105.8711	1374447.	11.5774	48825.	0.00
6.6000	-4.34E-05	6.1645	-19.9972	2.05E-05	62.7913	1374447.	11.4957	52949.	0.00
6.8000	-3.92E-05	2.3950	-17.7117	2.11E-05	24.3953	1374447.	11.3594	57896.	0.00
7.0000	-3.50E-05	-0.9201	-15.4588	2.12E-05	9.3726	1374447.	11.1695	63845.	0.00
7.2000	-3.08E-05	-3.7885	-13.2491	2.08E-05	38.5895	1374447.	10.9269	71035.	0.00
7.4000	-2.67E-05	-6.2198	-11.0933	2.01E-05	63.3544	1374447.	10.6321	79788.	0.00
7.6000	-2.27E-05	-8.2258	-9.0015	1.91E-05	83.7875	1374447.	10.2855	90552.	0.00
7.8000	-1.90E-05	-9.8204	-6.9842	1.78E-05	100.0298	1374447.	9.8876	103950.	0.00
8.0000	-1.56E-05	-11.0195	-4.9259	1.62E-05	112.2436	1374447.	10.6955	136985.	0.00
8.2000	-1.25E-05	-11.7908	-2.8625	1.46E-05	120.0996	1374447.	9.9383	158653.	0.00
8.4000	-9.78E-06	-12.1645	-0.9535	1.28E-05	123.9064	1374447.	9.1512	187062.	0.00
8.6000	-7.39E-06	-12.1722	0.7949	1.11E-05	123.9847	1374447.	8.3331	225403.	0.00
8.8000	-5.36E-06	-11.8465	2.3762	9.32E-06	120.6678	1374447.	7.4801	279207.	0.00
9.0000	-3.67E-06	-11.2217	3.7825	7.64E-06	114.3032	1374447.	6.5825	359018.	0.00
9.2000	-2.30E-06	-10.3335	5.0026	6.07E-06	105.2566	1374447.	5.6185	488058.	0.00
9.4000	-1.24E-06	-9.2207	6.0175	4.65E-06	93.9209	1374447.	4.5309	731653.	0.00
9.6000	-4.43E-07	-7.9265	6.4881	3.40E-06	80.7392	1374447.	0.1755	79233.	0.00
9.8000	1.22E-07	-6.6254	6.5009	2.34E-06	67.4859	1374447.	-0.04823	79233.	0.00
10.0000	4.94E-07	-5.3262	6.4765	1.47E-06	54.2522	1374447.	-0.1956	79233.	0.00
10.2000	7.11E-07	-4.0348	6.0566	7.91E-07	41.0983	1374447.	-4.0035	1126617.	0.00
10.4000	8.10E-07	-2.9036	5.2393	2.87E-07	29.5755	1374447.	-4.1696	1029190.	0.00
10.6000	8.25E-07	-1.9391	4.4012	-6.58E-08	19.7516	1374447.	-4.2113	1020518.	0.00
10.8000	7.84E-07	-1.1431	3.5617	-2.90E-07	11.6435	1374447.	-4.1835	1067315.	0.00
11.0000	7.09E-07	-0.5144	2.7308	-4.11E-07	5.2399	1374447.	-4.1255	1163269.	0.00
11.2000	6.20E-07	-0.05078	1.8060	-4.52E-07	0.5172	1374447.	-5.1221	1653157.	0.00
11.4000	5.29E-07	0.2080	0.7194	-4.40E-07	2.1185	1374447.	-5.7443	2173472.	0.00
11.6000	4.44E-07	0.2370	0.1149	-4.08E-07	2.4139	1374447.	-0.3012	135828.	0.00
11.8000	3.65E-07	0.2539	0.05992	-3.72E-07	2.5865	1374447.	-0.2482	135828.	0.00
12.0000	2.95E-07	0.2609	0.01509	-3.35E-07	2.6580	1374447.	-0.2001	135828.	0.00
12.2000	2.31E-07	0.2600	-0.02064	-2.97E-07	2.6480	1374447.	-0.1572	135828.	0.00

12.4000	1.76E-07	0.2527	-0.04830	-2.60E-07	2.5739	1374447.	-0.1194	135828.	0.00
12.6000	1.28E-07	0.2406	-0.06891	-2.24E-07	2.4512	1374447.	-0.08668	135828.	0.00
12.8000	8.64E-08	0.2251	-0.08345	-1.90E-07	2.2932	1374447.	-0.05867	135828.	0.00
13.0000	5.17E-08	0.2073	-0.09283	-1.58E-07	2.1112	1374447.	-0.03512	135828.	0.00
13.2000	2.31E-08	0.1880	-0.09790	-1.30E-07	1.9149	1374447.	-0.01566	135828.	0.00
13.4000	-1.30E-10	0.1681	-0.09946	-1.04E-07	1.7123	1374447.	8.83E-05	135828.	0.00
13.6000	-1.84E-08	0.1482	-0.09820	-8.07E-08	1.5097	1374447.	0.01251	135828.	0.00
13.8000	-3.24E-08	0.1288	-0.09475	-6.05E-08	1.3122	1374447.	0.02200	135828.	0.00
14.0000	-4.26E-08	0.1103	-0.08965	-4.31E-08	1.1237	1374447.	0.02895	135828.	0.00
14.2000	-4.96E-08	0.09296	-0.08339	-2.83E-08	0.9469	1374447.	0.03372	135828.	0.00
14.4000	-5.40E-08	0.07696	-0.07635	-1.60E-08	0.7839	1374447.	0.03665	135828.	0.00
14.6000	-5.60E-08	0.06242	-0.06888	-5.82E-09	0.6358	1374447.	0.03805	135828.	0.00
14.8000	-5.63E-08	0.04941	-0.06125	2.31E-09	0.5033	1374447.	0.03823	135828.	0.00
15.0000	-5.51E-08	0.03792	-0.05369	8.67E-09	0.3863	1374447.	0.03742	135828.	0.00
15.2000	-5.28E-08	0.02793	-0.04636	1.35E-08	0.2845	1374447.	0.03587	135828.	0.00
15.4000	-4.97E-08	0.01938	-0.03940	1.69E-08	0.1974	1374447.	0.03377	135828.	0.00
15.6000	-4.61E-08	0.01217	-0.03289	1.92E-08	0.1240	1374447.	0.03128	135828.	0.00
15.8000	-4.20E-08	0.00622	-0.02691	2.05E-08	0.06337	1374447.	0.02855	135828.	0.00
16.0000	-3.78E-08	0.00141	-0.02148	2.11E-08	0.01437	1374447.	0.02570	135828.	0.00
16.2000	-3.36E-08	-0.00237	-0.01663	2.10E-08	0.02415	1374447.	0.02282	135828.	0.00
16.4000	-2.94E-08	-0.00524	-0.01235	2.05E-08	0.05338	1374447.	0.01999	135828.	0.00
16.6000	-2.54E-08	-0.00731	-0.00862	1.96E-08	0.07446	1374447.	0.01726	135828.	0.00
16.8000	-2.16E-08	-0.00869	-0.00543	1.84E-08	0.08850	1374447.	0.01468	135828.	0.00
17.0000	-1.81E-08	-0.00948	-0.00273	1.71E-08	0.09657	1374447.	0.01227	135828.	0.00
17.2000	-1.48E-08	-0.00978	-5.00E-04	1.57E-08	0.09963	1374447.	0.01004	135828.	0.00
17.4000	-1.18E-08	-0.00968	0.00131	1.42E-08	0.09860	1374447.	0.00801	135828.	0.00
17.6000	-9.09E-09	-0.00926	0.00272	1.29E-08	0.09431	1374447.	0.00617	135828.	0.00
17.8000	-6.65E-09	-0.00859	0.00379	1.16E-08	0.08750	1374447.	0.00452	135828.	0.00
18.0000	-4.46E-09	-0.00774	0.00455	1.04E-08	0.07886	1374447.	0.00303	135828.	0.00
18.2000	-2.50E-09	-0.00677	0.00502	9.33E-09	0.06897	1374447.	0.00170	135828.	0.00
18.4000	-7.29E-10	-0.00573	0.00524	8.42E-09	0.05840	1374447.	4.95E-04	135828.	0.00
18.6000	8.71E-10	-0.00468	0.00523	7.66E-09	0.04763	1374447.	-5.92E-04	135828.	0.00
18.8000	2.34E-09	-0.00364	0.00501	7.06E-09	0.03709	1374447.	-0.00159	135828.	0.00
19.0000	3.69E-09	-0.00267	0.00460	6.60E-09	0.02720	1374447.	-0.00251	135828.	0.00
19.2000	4.97E-09	-0.00180	0.00401	6.27E-09	0.01834	1374447.	-0.00338	135828.	0.00
19.4000	6.20E-09	-0.00107	0.00326	6.06E-09	0.01085	1374447.	-0.00421	135828.	0.00
19.6000	7.40E-09	-4.98E-04	0.00233	5.95E-09	0.00508	1374447.	-0.00503	135828.	0.00
19.8000	8.58E-09	-1.33E-04	0.00125	5.90E-09	0.00135	1374447.	-0.00583	135828.	0.00
20.0000	9.76E-09	0.00	0.00	5.89E-09	0.00	1374447.	-0.00663	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 4:

Pile-head deflection = 0.00098836 meters
Computed slope at pile head = -0.00040025 radians
Maximum bending moment = 155.84502768 kN-m
Maximum shear force = 120.00000000 kN
Depth of maximum bending moment = 2.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 8
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 5

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 150.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00135	-5.22E-11	150.0000	-5.33E-04	5.31E-10	1374447.	0.00	0.00	0.00
0.2000	0.00125	30.0000	146.6159	-5.31E-04	305.5775	1374447.	-33.8411	5429.	0.00
0.4000	0.00114	58.6464	138.1009	-5.25E-04	597.3669	1374447.	-51.3088	8994.	0.00
0.6000	0.00104	85.2404	127.1727	-5.14E-04	868.2512	1374447.	-57.9730	11183.	0.00
0.8000	9.35E-04	109.5154	115.0090	-5.00E-04	1116.	1374447.	-63.6644	13615.	0.00
1.0000	8.37E-04	131.2440	101.8064	-4.83E-04	1337.	1374447.	-68.3615	16339.	0.00
1.2000	7.42E-04	150.2380	87.7655	-4.62E-04	1530.	1374447.	-72.0478	19415.	0.00
1.4000	6.52E-04	166.3501	73.0895	-4.39E-04	1694.	1374447.	-74.7119	22919.	0.00
1.6000	5.67E-04	179.4738	57.9837	-4.14E-04	1828.	1374447.	-76.3464	26950.	0.00
1.8000	4.86E-04	189.5436	42.6544	-3.87E-04	1931.	1374447.	-76.9464	31638.	0.00
2.0000	4.12E-04	196.5356	27.3090	-3.59E-04	2002.	1374447.	-76.5074	37159.	0.00
2.2000	3.43E-04	200.4672	12.1560	-3.30E-04	2042.	1374447.	-75.0224	43763.	0.00
2.4000	2.80E-04	201.3980	-2.5939	-3.01E-04	2051.	1374447.	-72.4766	51813.	0.00
2.6000	2.23E-04	199.4297	-16.7254	-2.72E-04	2031.	1374447.	-68.8385	61868.	0.00
2.8000	1.71E-04	194.7078	-30.0137	-2.43E-04	1983.	1374447.	-64.0446	74859.	0.00
3.0000	1.25E-04	187.4242	-41.5220	-2.15E-04	1909.	1374447.	-51.0381	81434.	0.00
3.2000	8.50E-05	178.0990	-50.3193	-1.89E-04	1814.	1374447.	-36.9356	86863.	0.00

3.4000	4.99E-05	167.2965	-56.3166	-1.63E-04	1704.	1374447.	-23.0369	92292.	0.00
3.6000	1.97E-05	155.5724	-59.6411	-1.40E-04	1585.	1374447.	-10.2083	103802.	0.00
3.8000	-6.06E-06	143.4400	-60.2499	-1.18E-04	1461.	1374447.	4.1198	136046.	0.00
4.0000	-2.76E-05	131.4724	-59.1325	-9.82E-05	1339.	1374447.	7.0545	51106.	0.00
4.2000	-4.53E-05	119.7870	-57.5690	-7.99E-05	1220.	1374447.	8.5801	37854.	0.00
4.4000	-5.96E-05	108.4448	-55.7431	-6.33E-05	1105.	1374447.	9.6795	32498.	0.00
4.6000	-7.07E-05	97.4898	-53.7207	-4.83E-05	993.0228	1374447.	10.5439	29847.	0.00
4.8000	-7.89E-05	86.9565	-51.5415	-3.49E-05	885.7318	1374447.	11.2481	28513.	0.00
5.0000	-8.46E-05	76.8732	-49.2338	-2.30E-05	783.0237	1374447.	11.8298	27962.	0.00
5.2000	-8.81E-05	67.2630	-46.8197	-1.25E-05	685.1354	1374447.	12.3103	27949.	0.00
5.4000	-8.96E-05	58.1453	-44.3184	-3.37E-06	592.2629	1374447.	12.7033	28352.	0.00
5.6000	-8.94E-05	49.5357	-41.7463	4.47E-06	504.5661	1374447.	13.0175	29110.	0.00
5.8000	-8.78E-05	41.4467	-39.1186	1.11E-05	422.1731	1374447.	13.2593	30195.	0.00
6.0000	-8.50E-05	33.8882	-36.4494	1.66E-05	345.1824	1374447.	13.4330	31605.	0.00
6.2000	-8.12E-05	26.8670	-33.7519	2.10E-05	273.6649	1374447.	13.5419	33355.	0.00
6.4000	-7.66E-05	20.3874	-31.0389	2.44E-05	207.6647	1374447.	13.5884	35475.	0.00
6.6000	-7.14E-05	14.4514	-28.3226	2.70E-05	147.2011	1374447.	13.5745	38009.	0.00
6.8000	-6.58E-05	9.0584	-25.6150	2.87E-05	92.2681	1374447.	13.5017	41023.	0.00
7.0000	-6.00E-05	4.2054	-22.9277	2.96E-05	42.8363	1374447.	13.3711	44600.	0.00
7.2000	-5.40E-05	-0.1127	-20.2722	2.99E-05	1.1477	1374447.	13.1838	48854.	0.00
7.4000	-4.80E-05	-3.9034	-17.6598	2.96E-05	39.7600	1374447.	12.9405	53933.	0.00
7.6000	-4.21E-05	-7.1766	-15.1015	2.88E-05	73.1000	1374447.	12.6419	60034.	0.00
7.8000	-3.65E-05	-9.9440	-12.6085	2.76E-05	101.2892	1374447.	12.2886	67421.	0.00
8.0000	-3.11E-05	-12.2200	-10.0332	2.60E-05	124.4715	1374447.	13.4641	86641.	0.00
8.2000	-2.61E-05	-13.9573	-7.4168	2.41E-05	142.1681	1374447.	12.6995	97452.	0.00
8.4000	-2.15E-05	-15.1867	-4.9564	2.20E-05	154.6904	1374447.	11.9046	110990.	0.00
8.6000	-1.73E-05	-15.9399	-2.6579	1.97E-05	162.3624	1374447.	11.0808	128232.	0.00
8.8000	-1.36E-05	-16.2499	-0.5269	1.73E-05	165.5196	1374447.	10.2286	150674.	0.00
9.0000	-1.03E-05	-16.1507	1.4306	1.50E-05	164.5093	1374447.	9.3473	180716.	0.00
9.2000	-7.58E-06	-15.6776	3.2088	1.27E-05	159.6906	1374447.	8.4339	222462.	0.00
9.4000	-5.28E-06	-14.8672	4.8003	1.04E-05	151.4356	1374447.	7.4816	283597.	0.00
9.6000	-3.40E-06	-13.7575	6.1960	8.37E-06	140.1324	1374447.	6.4751	380579.	0.00
9.8000	-1.93E-06	-12.3888	7.3813	6.46E-06	126.1909	1374447.	5.3779	557381.	0.00
10.0000	-8.17E-07	-10.8049	8.3270	4.78E-06	110.0583	1374447.	4.0797	998501.	0.00
10.2000	-1.91E-08	-9.0579	8.7358	3.33E-06	92.2635	1374447.	0.00756	79233.	0.00
10.4000	5.15E-07	-7.3106	8.4014	2.14E-06	74.4656	1374447.	-3.3516	1300592.	0.00
10.6000	8.37E-07	-5.6974	7.6684	1.19E-06	58.0332	1374447.	-3.9781	950431.	0.00
10.8000	9.93E-07	-4.2433	6.8487	4.71E-07	43.2217	1374447.	-4.2186	849649.	0.00
11.0000	1.03E-06	-2.9579	6.0010	-5.31E-08	30.1290	1374447.	-4.2588	830645.	0.00
11.2000	9.72E-07	-1.8429	5.0509	-4.02E-07	18.7715	1374447.	-5.2417	1078803.	0.00
11.4000	8.64E-07	-0.9375	3.9638	-6.05E-07	9.5497	1374447.	-5.6298	1302500.	0.00
11.6000	7.30E-07	-0.2574	2.8754	-6.92E-07	2.6216	1374447.	-5.2545	1439861.	0.00
11.8000	5.88E-07	0.2126	1.8709	-6.95E-07	2.1656	1374447.	-4.7896	1629713.	0.00
12.0000	4.52E-07	0.4910	0.9671	-6.44E-07	5.0014	1374447.	-4.2488	1880415.	0.00

12.2000	3.30E-07	0.5995	0.1777	-5.64E-07	6.1060	1374447.	-3.6456	2207466.	0.00
12.4000	2.26E-07	0.5621	-0.2023	-4.80E-07	5.7252	1374447.	-0.1536	135828.	0.00
12.6000	1.38E-07	0.5186	-0.2270	-4.01E-07	5.2819	1374447.	-0.09396	135828.	0.00
12.8000	6.56E-08	0.4713	-0.2409	-3.29E-07	4.8003	1374447.	-0.04458	135828.	0.00
13.0000	6.65E-09	0.4222	-0.2458	-2.64E-07	4.3006	1374447.	-0.00452	135828.	0.00
13.2000	-4.01E-08	0.3730	-0.2435	-2.06E-07	3.7990	1374447.	0.02720	135828.	0.00
13.4000	-7.59E-08	0.3248	-0.2356	-1.56E-07	3.3085	1374447.	0.05155	135828.	0.00
13.6000	-1.02E-07	0.2787	-0.2235	-1.12E-07	2.8390	1374447.	0.06948	135828.	0.00
13.8000	-1.21E-07	0.2354	-0.2084	-7.43E-08	2.3977	1374447.	0.08189	135828.	0.00
14.0000	-1.32E-07	0.1954	-0.1912	-4.30E-08	1.9899	1374447.	0.08966	135828.	0.00
14.2000	-1.38E-07	0.1589	-0.1729	-1.72E-08	1.6186	1374447.	0.09356	135828.	0.00
14.4000	-1.39E-07	0.1262	-0.1541	3.56E-09	1.2854	1374447.	0.09433	135828.	0.00
14.6000	-1.36E-07	0.09726	-0.1354	1.98E-08	0.9907	1374447.	0.09260	135828.	0.00
14.8000	-1.31E-07	0.07202	-0.1173	3.21E-08	0.7336	1374447.	0.08894	135828.	0.00
15.0000	-1.23E-07	0.05035	-0.09999	4.10E-08	0.5128	1374447.	0.08387	135828.	0.00
15.2000	-1.15E-07	0.03203	-0.08383	4.70E-08	0.3262	1374447.	0.07779	135828.	0.00
15.4000	-1.05E-07	0.01682	-0.06894	5.06E-08	0.1713	1374447.	0.07109	135828.	0.00
15.6000	-9.43E-08	0.00445	-0.05542	5.21E-08	0.04533	1374447.	0.06405	135828.	0.00
15.8000	-8.38E-08	-0.00535	-0.04333	5.21E-08	0.05453	1374447.	0.05693	135828.	0.00
16.0000	-7.35E-08	-0.01288	-0.03264	5.07E-08	0.1312	1374447.	0.04991	135828.	0.00
16.2000	-6.35E-08	-0.01841	-0.02334	4.85E-08	0.1875	1374447.	0.04315	135828.	0.00
16.4000	-5.41E-08	-0.02222	-0.01535	4.55E-08	0.2263	1374447.	0.03674	135828.	0.00
16.6000	-4.53E-08	-0.02455	-0.00860	4.21E-08	0.2501	1374447.	0.03078	135828.	0.00
16.8000	-3.73E-08	-0.02565	-0.00299	3.85E-08	0.2613	1374447.	0.02531	135828.	0.00
17.0000	-2.99E-08	-0.02574	0.00158	3.47E-08	0.2622	1374447.	0.02034	135828.	0.00
17.2000	-2.34E-08	-0.02502	0.00520	3.10E-08	0.2549	1374447.	0.01588	135828.	0.00
17.4000	-1.75E-08	-0.02366	0.00798	2.75E-08	0.2410	1374447.	0.01191	135828.	0.00
17.6000	-1.24E-08	-0.02183	0.01001	2.42E-08	0.2224	1374447.	0.00841	135828.	0.00
17.8000	-7.87E-09	-0.01966	0.01139	2.11E-08	0.2003	1374447.	0.00535	135828.	0.00
18.0000	-3.93E-09	-0.01728	0.01219	1.85E-08	0.1760	1374447.	0.00267	135828.	0.00
18.2000	-4.88E-10	-0.01479	0.01249	1.61E-08	0.1506	1374447.	3.32E-04	135828.	0.00
18.4000	2.52E-09	-0.01228	0.01235	1.42E-08	0.1251	1374447.	-0.00171	135828.	0.00
18.6000	5.17E-09	-0.00985	0.01183	1.25E-08	0.1003	1374447.	-0.00351	135828.	0.00
18.8000	7.54E-09	-0.00755	0.01096	1.13E-08	0.07691	1374447.	-0.00512	135828.	0.00
19.0000	9.69E-09	-0.00546	0.00979	1.03E-08	0.05561	1374447.	-0.00658	135828.	0.00
19.2000	1.17E-08	-0.00363	0.00834	9.67E-09	0.03700	1374447.	-0.00793	135828.	0.00
19.4000	1.36E-08	-0.00212	0.00663	9.26E-09	0.02162	1374447.	-0.00921	135828.	0.00
19.6000	1.54E-08	-9.81E-04	0.00466	9.03E-09	0.01000	1374447.	-0.01044	135828.	0.00
19.8000	1.72E-08	-2.57E-04	0.00245	8.94E-09	0.00262	1374447.	-0.01166	135828.	0.00
20.0000	1.90E-08	0.00	0.00	8.92E-09	0.00	1374447.	-0.01287	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 5:

Pile-head deflection = 0.00135336 meters
Computed slope at pile head = -0.00053333 radians
Maximum bending moment = 201.39797809 kN-m
Maximum shear force = 150.00000000 kN
Depth of maximum bending moment = 2.40000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 9
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 6

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 175.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00169	4.47E-11	175.0000	-6.51E-04	4.55E-10	1374447.	0.00	0.00	0.00
0.2000	0.00156	35.0000	170.7788	-6.48E-04	356.5071	1374447.	-42.2120	5429.	0.00
0.4000	0.00143	68.3115	160.8216	-6.41E-04	695.8154	1374447.	-57.3597	8045.	0.00
0.6000	0.00130	99.3287	148.5973	-6.28E-04	1012.	1374447.	-64.8838	9991.	0.00
0.8000	0.00117	127.7504	134.9743	-6.12E-04	1301.	1374447.	-71.3462	12148.	0.00
1.0000	0.00105	153.3184	120.1674	-5.91E-04	1562.	1374447.	-76.7225	14557.	0.00
1.2000	9.38E-04	175.8174	104.3958	-5.67E-04	1791.	1374447.	-80.9937	17269.	0.00
1.4000	8.27E-04	195.0767	87.8819	-5.40E-04	1987.	1374447.	-84.1459	20347.	0.00
1.6000	7.22E-04	210.9701	70.8503	-5.11E-04	2149.	1374447.	-86.1692	23875.	0.00
1.8000	6.23E-04	223.4168	53.5278	-4.79E-04	2276.	1374447.	-87.0562	27961.	0.00
2.0000	5.30E-04	232.3813	36.1422	-4.46E-04	2367.	1374447.	-86.8002	32749.	0.00
2.2000	4.44E-04	237.8737	18.9230	-4.12E-04	2423.	1374447.	-85.3914	38444.	0.00
2.4000	3.65E-04	239.9505	2.1026	-3.77E-04	2444.	1374447.	-82.8125	45339.	0.00
2.6000	2.93E-04	238.7147	-14.0816	-3.42E-04	2432.	1374447.	-79.0299	53881.	0.00
2.8000	2.28E-04	234.3178	-29.3825	-3.08E-04	2387.	1374447.	-73.9784	64795.	0.00
3.0000	1.70E-04	226.9618	-43.5335	-2.74E-04	2312.	1374447.	-67.5322	79373.	0.00

3.2000	1.19E-04	216.9044	-55.4371	-2.42E-04	2209.	1374447.	-51.5034	86863.	0.00
3.4000	7.33E-05	204.7869	-63.9708	-2.11E-04	2086.	1374447.	-33.8340	92292.	0.00
3.6000	3.40E-05	191.3161	-68.5788	-1.83E-04	1949.	1374447.	-12.2458	72006.	0.00
3.8000	2.75E-07	177.3554	-69.8091	-1.56E-04	1807.	1374447.	-0.05767	41923.	0.00
4.0000	-2.83E-05	163.3924	-69.1034	-1.31E-04	1664.	1374447.	7.1155	50283.	0.00
4.2000	-5.21E-05	149.7141	-67.4928	-1.08E-04	1525.	1374447.	8.9900	34495.	0.00
4.4000	-7.16E-05	136.3953	-65.5646	-8.74E-05	1389.	1374447.	10.2917	28753.	0.00
4.6000	-8.71E-05	123.4882	-63.4049	-6.85E-05	1258.	1374447.	11.3053	25964.	0.00
4.8000	-9.90E-05	111.0333	-61.0613	-5.14E-05	1131.	1374447.	12.1314	24512.	0.00
5.0000	-1.08E-04	99.0637	-58.5663	-3.61E-05	1009.	1374447.	12.8182	23814.	0.00
5.2000	-1.13E-04	87.6068	-55.9452	-2.26E-05	892.3554	1374447.	13.3925	23611.	0.00
5.4000	-1.17E-04	76.6856	-53.2189	-1.06E-05	781.1130	1374447.	13.8706	23776.	0.00
5.6000	-1.18E-04	66.3192	-50.4055	-2.02E-07	675.5219	1374447.	14.2633	24240.	0.00
5.8000	-1.17E-04	56.5234	-47.5214	8.74E-06	575.7423	1374447.	14.5780	24971.	0.00
6.0000	-1.14E-04	47.3106	-44.5816	1.63E-05	481.9023	1374447.	14.8198	25957.	0.00
6.2000	-1.10E-04	38.6907	-41.6004	2.25E-05	394.1004	1374447.	14.9927	27199.	0.00
6.4000	-1.05E-04	30.6705	-38.5912	2.76E-05	312.4070	1374447.	15.0994	28714.	0.00
6.6000	-9.92E-05	23.2542	-35.5670	3.15E-05	236.8657	1374447.	15.1421	30527.	0.00
6.8000	-9.26E-05	16.4437	-32.5406	3.44E-05	167.4939	1374447.	15.1226	32675.	0.00
7.0000	-8.54E-05	10.2380	-29.5241	3.63E-05	104.2836	1374447.	15.0423	35210.	0.00
7.2000	-7.80E-05	4.6340	-26.5296	3.74E-05	47.2020	1374447.	14.9021	38198.	0.00
7.4000	-7.05E-05	-0.3738	-23.5691	3.77E-05	3.8079	1374447.	14.7032	41728.	0.00
7.6000	-6.29E-05	-4.7936	-20.6542	3.74E-05	48.8271	1374447.	14.4461	45912.	0.00
7.8000	-5.55E-05	-8.6355	-17.7964	3.64E-05	87.9605	1374447.	14.1317	50900.	0.00
8.0000	-4.84E-05	-11.9122	-14.8238	3.49E-05	121.3362	1374447.	15.5938	64469.	0.00
8.2000	-4.16E-05	-14.5650	-11.7818	3.30E-05	148.3583	1374447.	14.8270	71333.	0.00
8.4000	-3.52E-05	-16.6249	-8.8963	3.07E-05	169.3394	1374447.	14.0276	79725.	0.00
8.6000	-2.93E-05	-18.1236	-6.1738	2.82E-05	184.6052	1374447.	13.1976	90107.	0.00
8.8000	-2.39E-05	-19.0944	-3.6202	2.55E-05	194.4937	1374447.	12.3384	103149.	0.00
9.0000	-1.91E-05	-19.5716	-1.2413	2.26E-05	199.3552	1374447.	11.4506	119841.	0.00
9.2000	-1.49E-05	-19.5909	0.9572	1.98E-05	199.5512	1374447.	10.5338	141724.	0.00
9.4000	-1.12E-05	-19.1888	2.9692	1.70E-05	195.4554	1374447.	9.5861	171316.	0.00
9.6000	-8.08E-06	-18.4032	4.7880	1.42E-05	187.4538	1374447.	8.6024	213052.	0.00
9.8000	-5.50E-06	-17.2736	6.4055	1.16E-05	175.9473	1374447.	7.5722	275591.	0.00
10.0000	-3.42E-06	-15.8410	7.8099	9.23E-06	161.3555	1374447.	6.4722	378730.	0.00
10.2000	-1.80E-06	-14.1496	8.9815	7.05E-06	144.1268	1374447.	5.2435	582146.	0.00
10.4000	-5.97E-07	-12.2484	9.8731	5.13E-06	124.7617	1374447.	3.6730	1230866.	0.00
10.6000	2.51E-07	-10.2004	10.2305	3.50E-06	103.9000	1374447.	-0.09958	79233.	0.00
10.8000	8.03E-07	-8.1563	9.8275	2.16E-06	83.0790	1374447.	-3.9302	979304.	0.00
11.0000	1.12E-06	-6.2694	8.9941	1.11E-06	63.8592	1374447.	-4.4032	788694.	0.00
11.2000	1.25E-06	-4.5586	7.9785	3.26E-07	46.4335	1374447.	-5.7527	921854.	0.00
11.4000	1.25E-06	-3.0779	6.7566	-2.30E-07	31.3517	1374447.	-6.4671	1037317.	0.00
11.6000	1.16E-06	-1.8560	5.4801	-5.89E-07	18.9048	1374447.	-6.2976	1089434.	0.00
11.8000	1.01E-06	-0.8859	4.2495	-7.88E-07	9.0238	1374447.	-6.0084	1188194.	0.00

12.0000	8.41E-07	-0.1562	3.0858	-8.64E-07	1.5908	1374447.	-5.6283	1338816.	0.00
12.2000	6.66E-07	0.3484	2.0053	-8.50E-07	3.5490	1374447.	-5.1773	1555477.	0.00
12.4000	5.01E-07	0.6459	1.0207	-7.78E-07	6.5794	1374447.	-4.6686	1864744.	0.00
12.6000	3.55E-07	0.7567	0.1431	-6.76E-07	7.7076	1374447.	-4.1073	2316828.	0.00
12.8000	2.30E-07	0.7032	-0.2833	-5.70E-07	7.1624	1374447.	-0.1565	135828.	0.00
13.0000	1.27E-07	0.6434	-0.3075	-4.72E-07	6.5534	1374447.	-0.08607	135828.	0.00
13.2000	4.18E-08	0.5802	-0.3190	-3.83E-07	5.9094	1374447.	-0.02838	135828.	0.00
13.4000	-2.63E-08	0.5158	-0.3200	-3.03E-07	5.2538	1374447.	0.01785	135828.	0.00
13.6000	-7.93E-08	0.4521	-0.3129	-2.32E-07	4.6054	1374447.	0.05389	135828.	0.00
13.8000	-1.19E-07	0.3906	-0.2994	-1.71E-07	3.9790	1374447.	0.08099	135828.	0.00
14.0000	-1.48E-07	0.3324	-0.2812	-1.18E-07	3.3856	1374447.	0.1004	135828.	0.00
14.2000	-1.67E-07	0.2781	-0.2599	-7.41E-08	2.8331	1374447.	0.1132	135828.	0.00
14.4000	-1.77E-07	0.2284	-0.2365	-3.72E-08	2.3268	1374447.	0.1205	135828.	0.00
14.6000	-1.82E-07	0.1835	-0.2121	-7.23E-09	1.8695	1374447.	0.1233	135828.	0.00
14.8000	-1.80E-07	0.1436	-0.1876	1.66E-08	1.4624	1374447.	0.1225	135828.	0.00
15.0000	-1.75E-07	0.1085	-0.1634	3.49E-08	1.1052	1374447.	0.1188	135828.	0.00
15.2000	-1.66E-07	0.07819	-0.1403	4.85E-08	0.7965	1374447.	0.1130	135828.	0.00
15.4000	-1.56E-07	0.05240	-0.1184	5.80E-08	0.5337	1374447.	0.1056	135828.	0.00
15.6000	-1.43E-07	0.03083	-0.09813	6.40E-08	0.3140	1374447.	0.09721	135828.	0.00
15.8000	-1.30E-07	0.01314	-0.07959	6.72E-08	0.1339	1374447.	0.08821	135828.	0.00
16.0000	-1.16E-07	-0.00101	-0.06288	6.81E-08	0.01030	1374447.	0.07895	135828.	0.00
16.2000	-1.03E-07	-0.01201	-0.04801	6.72E-08	0.1223	1374447.	0.06970	135828.	0.00
16.4000	-8.94E-08	-0.02022	-0.03497	6.48E-08	0.2059	1374447.	0.06070	135828.	0.00
16.6000	-7.67E-08	-0.02600	-0.02369	6.15E-08	0.2648	1374447.	0.05209	135828.	0.00
16.8000	-6.48E-08	-0.02969	-0.01408	5.74E-08	0.3024	1374447.	0.04400	135828.	0.00
17.0000	-5.37E-08	-0.03163	-0.00603	5.30E-08	0.3222	1374447.	0.03649	135828.	0.00
17.2000	-4.36E-08	-0.03211	5.76E-04	4.83E-08	0.3270	1374447.	0.02961	135828.	0.00
17.4000	-3.44E-08	-0.03140	0.00587	4.37E-08	0.3198	1374447.	0.02336	135828.	0.00
17.6000	-2.61E-08	-0.02976	0.00998	3.93E-08	0.3031	1374447.	0.01774	135828.	0.00
17.8000	-1.87E-08	-0.02741	0.01303	3.51E-08	0.2792	1374447.	0.01270	135828.	0.00
18.0000	-1.21E-08	-0.02455	0.01512	3.13E-08	0.2500	1374447.	0.00821	135828.	0.00
18.2000	-6.18E-09	-0.02136	0.01636	2.80E-08	0.2176	1374447.	0.00419	135828.	0.00
18.4000	-8.92E-10	-0.01800	0.01684	2.51E-08	0.1834	1374447.	6.06E-04	135828.	0.00
18.6000	3.87E-09	-0.01462	0.01664	2.27E-08	0.1490	1374447.	-0.00263	135828.	0.00
18.8000	8.20E-09	-0.01135	0.01582	2.08E-08	0.1156	1374447.	-0.00557	135828.	0.00
19.0000	1.22E-08	-0.00830	0.01443	1.94E-08	0.08451	1374447.	-0.00829	135828.	0.00
19.2000	1.60E-08	-0.00558	0.01252	1.84E-08	0.05680	1374447.	-0.01085	135828.	0.00
19.4000	1.96E-08	-0.00329	0.01010	1.78E-08	0.03351	1374447.	-0.01329	135828.	0.00
19.6000	2.31E-08	-0.00154	0.00721	1.74E-08	0.01564	1374447.	-0.01567	135828.	0.00
19.8000	2.65E-08	-4.07E-04	0.00384	1.73E-08	0.00415	1374447.	-0.01802	135828.	0.00
20.0000	3.00E-08	0.00	0.00	1.72E-08	0.00	1374447.	-0.02036	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 6:

Pile-head deflection = 0.00168520 meters
Computed slope at pile head = -0.00065066 radians
Maximum bending moment = 239.95046339 kN-m
Maximum shear force = 175.00000000 kN
Depth of maximum bending moment = 2.40000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 10
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 7

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 200.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00204	-2.98E-11	200.0000	-7.73E-04	3.04E-10	1374447.	0.00	0.00	0.00
0.2000	0.00189	40.0000	194.8812	-7.70E-04	407.4367	1374447.	-51.1884	5429.	0.00
0.4000	0.00173	77.9525	183.4401	-7.61E-04	794.0173	1374447.	-63.2222	7299.	0.00
0.6000	0.00158	113.3760	169.9588	-7.47E-04	1155.	1374447.	-71.5908	9055.	0.00
0.8000	0.00143	145.9360	154.9182	-7.28E-04	1486.	1374447.	-78.8157	10997.	0.00
1.0000	0.00129	175.3433	138.5495	-7.05E-04	1786.	1374447.	-84.8704	13159.	0.00
1.2000	0.00115	201.3558	121.0891	-6.78E-04	2051.	1374447.	-89.7339	15587.	0.00
1.4000	0.00102	223.7789	102.7767	-6.47E-04	2279.	1374447.	-93.3902	18333.	0.00
1.6000	8.93E-04	242.4665	83.8549	-6.13E-04	2470.	1374447.	-95.8278	21469.	0.00
1.8000	7.74E-04	257.3209	64.5684	-5.76E-04	2621.	1374447.	-97.0376	25084.	0.00
2.0000	6.62E-04	268.2938	45.1635	-5.38E-04	2733.	1374447.	-97.0113	29302.	0.00
2.2000	5.58E-04	275.3863	25.8885	-4.99E-04	2805.	1374447.	-95.7383	34290.	0.00
2.4000	4.63E-04	278.6492	6.9947	-4.58E-04	2838.	1374447.	-93.2003	40286.	0.00
2.6000	3.75E-04	278.1842	-11.2618	-4.18E-04	2834.	1374447.	-89.3639	47651.	0.00
2.8000	2.96E-04	274.1445	-28.6148	-3.78E-04	2792.	1374447.	-84.1660	56954.	0.00

3.0000	2.24E-04	266.7383	-44.7802	-3.38E-04	2717.	1374447.	-77.4882	69181.	0.00
3.2000	1.60E-04	256.2325	-59.1872	-3.00E-04	2610.	1374447.	-66.5820	83102.	0.00
3.4000	1.04E-04	243.0634	-70.6409	-2.64E-04	2476.	1374447.	-47.9555	92292.	0.00
3.6000	5.47E-05	227.9761	-76.8716	-2.30E-04	2322.	1374447.	-14.3506	52494.	0.00
3.8000	1.21E-05	212.3148	-78.8262	-1.98E-04	2163.	1374447.	-5.1954	86128.	0.00
4.0000	-2.44E-05	196.4456	-78.6694	-1.68E-04	2001.	1374447.	6.7632	55510.	0.00
4.2000	-5.51E-05	180.8470	-77.0778	-1.40E-04	1842.	1374447.	9.1530	33234.	0.00
4.4000	-8.05E-05	165.6145	-75.0924	-1.15E-04	1687.	1374447.	10.7001	26573.	0.00
4.6000	-1.01E-04	150.8100	-72.8343	-9.22E-05	1536.	1374447.	11.8812	23488.	0.00
4.8000	-1.17E-04	136.4808	-70.3624	-7.13E-05	1390.	1374447.	12.8385	21869.	0.00
5.0000	-1.30E-04	122.6651	-67.7150	-5.24E-05	1249.	1374447.	13.6355	21029.	0.00
5.2000	-1.38E-04	109.3948	-64.9208	-3.55E-05	1114.	1374447.	14.3064	20677.	0.00
5.4000	-1.44E-04	96.6968	-62.0030	-2.06E-05	984.9453	1374447.	14.8714	20669.	0.00
5.6000	-1.47E-04	84.5936	-58.9815	-7.36E-06	861.6635	1374447.	15.3437	20932.	0.00
5.8000	-1.47E-04	73.1042	-55.8739	4.11E-06	744.6332	1374447.	15.7322	21427.	0.00
6.0000	-1.45E-04	62.2441	-52.6964	1.40E-05	634.0128	1374447.	16.0429	22134.	0.00
6.2000	-1.41E-04	52.0256	-49.4640	2.23E-05	529.9289	1374447.	16.2806	23050.	0.00
6.4000	-1.36E-04	42.4585	-46.1911	2.91E-05	432.4783	1374447.	16.4485	24180.	0.00
6.6000	-1.30E-04	33.5492	-42.8913	3.47E-05	341.7294	1374447.	16.5493	25538.	0.00
6.8000	-1.22E-04	25.3019	-39.5779	3.90E-05	257.7233	1374447.	16.5849	27148.	0.00
7.0000	-1.14E-04	17.7180	-36.2637	4.21E-05	180.4746	1374447.	16.5570	29042.	0.00
7.2000	-1.05E-04	10.7964	-32.9613	4.42E-05	109.9717	1374447.	16.4669	31263.	0.00
7.4000	-9.64E-05	4.5335	-29.6831	4.53E-05	46.1781	1374447.	16.3157	33866.	0.00
7.6000	-8.72E-05	-1.0768	-26.4411	4.55E-05	10.9679	1374447.	16.1043	36922.	0.00
7.8000	-7.81E-05	-6.0429	-23.2473	4.50E-05	61.5525	1374447.	15.8337	40525.	0.00
8.0000	-6.92E-05	-10.3757	-19.9069	4.38E-05	105.6858	1374447.	17.5703	50760.	0.00
8.2000	-6.06E-05	-14.0056	-16.4686	4.20E-05	142.6603	1374447.	16.8120	55470.	0.00
8.4000	-5.24E-05	-16.9631	-13.1855	3.98E-05	172.7850	1374447.	16.0197	61131.	0.00
8.6000	-4.47E-05	-19.2798	-10.0639	3.72E-05	196.3827	1374447.	15.1959	67991.	0.00
8.8000	-3.75E-05	-20.9887	-7.1100	3.42E-05	213.7891	1374447.	14.3430	76395.	0.00
9.0000	-3.10E-05	-22.1238	-4.3294	3.11E-05	225.3515	1374447.	13.4628	86827.	0.00
9.2000	-2.51E-05	-22.7205	-1.7275	2.78E-05	231.4287	1374447.	12.5566	99992.	0.00
9.4000	-1.99E-05	-22.8148	0.6907	2.45E-05	232.3899	1374447.	11.6252	116948.	0.00
9.6000	-1.53E-05	-22.4442	2.9201	2.12E-05	228.6146	1374447.	10.6685	139359.	0.00
9.8000	-1.14E-05	-21.6468	4.9554	1.80E-05	220.4924	1374447.	9.6849	170003.	0.00
10.0000	-8.11E-06	-20.4620	6.7909	1.49E-05	208.4243	1374447.	8.6702	213900.	0.00
10.2000	-5.42E-06	-18.9304	8.4195	1.21E-05	192.8237	1374447.	7.6149	281239.	0.00
10.4000	-3.27E-06	-17.0942	9.8308	9.46E-06	174.1204	1374447.	6.4982	396880.	0.00
10.6000	-1.63E-06	-14.9981	11.0076	7.12E-06	152.7695	1374447.	5.2701	646043.	0.00
10.8000	-4.25E-07	-12.6912	11.5514	5.11E-06	129.2715	1374447.	0.1683	79233.	0.00
11.0000	4.12E-07	-10.3775	11.2903	3.43E-06	105.7048	1374447.	-2.7796	1347819.	0.00
11.2000	9.48E-07	-8.1751	10.5112	2.08E-06	83.2707	1374447.	-5.0117	1057604.	0.00
11.4000	1.25E-06	-6.1731	9.3790	1.04E-06	62.8785	1374447.	-6.3094	1013464.	0.00
11.6000	1.36E-06	-4.4235	8.0898	2.67E-07	45.0570	1374447.	-6.5831	966082.	0.00

11.8000	1.35E-06	-2.9372	6.7680	-2.69E-07	29.9177	1374447.	-6.6346	981572.	0.00
12.0000	1.26E-06	-1.7162	5.4498	-6.07E-07	17.4816	1374447.	-6.5479	1043219.	0.00
12.2000	1.11E-06	-0.7573	4.1573	-7.87E-07	7.7133	1374447.	-6.3769	1150137.	0.00
12.4000	9.40E-07	-0.05333	2.9032	-8.46E-07	0.5432	1374447.	-6.1641	1310928.	0.00
12.6000	7.70E-07	0.4040	1.6918	-8.21E-07	4.1154	1374447.	-5.9497	1544597.	0.00
12.8000	6.12E-07	0.6234	0.5192	-7.46E-07	6.3499	1374447.	-5.7766	1887455.	0.00
13.0000	4.72E-07	0.6117	-0.09052	-6.56E-07	6.2308	1374447.	-0.3205	135828.	0.00
13.2000	3.50E-07	0.5872	-0.1463	-5.69E-07	5.9811	1374447.	-0.2375	135828.	0.00
13.4000	2.44E-07	0.5532	-0.1867	-4.86E-07	5.6346	1374447.	-0.1660	135828.	0.00
13.6000	1.55E-07	0.5125	-0.2138	-4.08E-07	5.2205	1374447.	-0.1055	135828.	0.00
13.8000	8.10E-08	0.4677	-0.2299	-3.37E-07	4.7635	1374447.	-0.05504	135828.	0.00
14.0000	2.04E-08	0.4206	-0.2368	-2.72E-07	4.2840	1374447.	-0.01388	135828.	0.00
14.2000	-2.79E-08	0.3730	-0.2362	-2.15E-07	3.7989	1374447.	0.01898	135828.	0.00
14.4000	-6.55E-08	0.3261	-0.2299	-1.64E-07	3.3215	1374447.	0.04446	135828.	0.00
14.6000	-9.35E-08	0.2810	-0.2191	-1.20E-07	2.8622	1374447.	0.06350	135828.	0.00
14.8000	-1.13E-07	0.2384	-0.2051	-8.19E-08	2.4288	1374447.	0.07698	135828.	0.00
15.0000	-1.26E-07	0.1990	-0.1888	-5.01E-08	2.0267	1374447.	0.08575	135828.	0.00
15.2000	-1.33E-07	0.1629	-0.1711	-2.38E-08	1.6596	1374447.	0.09059	135828.	0.00
15.4000	-1.36E-07	0.1305	-0.1529	-2.41E-09	1.3294	1374447.	0.09220	135828.	0.00
15.6000	-1.34E-07	0.1018	-0.1345	1.45E-08	1.0367	1374447.	0.09124	135828.	0.00
15.8000	-1.30E-07	0.07670	-0.1166	2.75E-08	0.7813	1374447.	0.08827	135828.	0.00
16.0000	-1.23E-07	0.05515	-0.09937	3.71E-08	0.5618	1374447.	0.08378	135828.	0.00
16.2000	-1.15E-07	0.03695	-0.08317	4.38E-08	0.3764	1374447.	0.07820	135828.	0.00
16.4000	-1.06E-07	0.02188	-0.06816	4.81E-08	0.2229	1374447.	0.07189	135828.	0.00
16.6000	-9.59E-08	0.00969	-0.05446	5.03E-08	0.09869	1374447.	0.06515	135828.	0.00
16.8000	-8.57E-08	1.00E-04	-0.04212	5.11E-08	0.00102	1374447.	0.05821	135828.	0.00
17.0000	-7.55E-08	-0.00716	-0.03118	5.05E-08	0.07294	1374447.	0.05127	135828.	0.00
17.2000	-6.55E-08	-0.01237	-0.02160	4.91E-08	0.1260	1374447.	0.04448	135828.	0.00
17.4000	-5.58E-08	-0.01580	-0.01336	4.71E-08	0.1609	1374447.	0.03793	135828.	0.00
17.6000	-4.67E-08	-0.01771	-0.00640	4.46E-08	0.1804	1374447.	0.03169	135828.	0.00
17.8000	-3.80E-08	-0.01836	-6.48E-04	4.20E-08	0.1870	1374447.	0.02580	135828.	0.00
18.0000	-2.99E-08	-0.01797	0.00396	3.94E-08	0.1831	1374447.	0.02028	135828.	0.00
18.2000	-2.22E-08	-0.01678	0.00750	3.68E-08	0.1709	1374447.	0.01511	135828.	0.00
18.4000	-1.51E-08	-0.01497	0.01004	3.45E-08	0.1525	1374447.	0.01027	135828.	0.00
18.6000	-8.43E-09	-0.01276	0.01164	3.25E-08	0.1300	1374447.	0.00573	135828.	0.00
18.8000	-2.12E-09	-0.01032	0.01235	3.08E-08	0.1051	1374447.	0.00144	135828.	0.00
19.0000	3.90E-09	-0.00782	0.01223	2.95E-08	0.07964	1374447.	-0.00265	135828.	0.00
19.2000	9.69E-09	-0.00542	0.01131	2.86E-08	0.05526	1374447.	-0.00658	135828.	0.00
19.4000	1.53E-08	-0.00329	0.00961	2.79E-08	0.03356	1374447.	-0.01040	135828.	0.00
19.6000	2.09E-08	-0.00158	0.00716	2.76E-08	0.01609	1374447.	-0.01416	135828.	0.00
19.8000	2.63E-08	-4.32E-04	0.00395	2.74E-08	0.00440	1374447.	-0.01789	135828.	0.00
20.0000	3.18E-08	0.00	0.00	2.74E-08	0.00	1374447.	-0.02161	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 7:

Pile-head deflection = 0.00204030 meters
Computed slope at pile head = -0.00077273 radians
Maximum bending moment = 278.64923671 kN-m
Maximum shear force = 200.00000000 kN
Depth of maximum bending moment = 2.40000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 11
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 8

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 250.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00285	1.04E-10	250.0000	-0.00104	1.06E-09	1374447.	0.00	0.00	0.00
0.2000	0.00264	50.0000	243.8899	-0.00104	509.2958	1374447.	-61.1013	4624.	0.00
0.4000	0.00244	97.5559	230.2936	-0.00102	993.6967	1374447.	-74.8612	6145.	0.00
0.6000	0.00223	142.1174	214.3001	-0.00101	1448.	1374447.	-85.0742	7620.	0.00
0.8000	0.00203	183.2760	196.4049	-9.83E-04	1867.	1374447.	-93.8780	9232.	0.00
1.0000	0.00184	220.6794	176.8813	-9.54E-04	2248.	1374447.	-101.3580	11018.	0.00
1.2000	0.00165	254.0285	155.9964	-9.19E-04	2588.	1374447.	-107.4903	13012.	0.00
1.4000	0.00147	283.0780	134.0217	-8.80E-04	2883.	1374447.	-112.2570	15251.	0.00
1.6000	0.00130	307.6372	111.2315	-8.37E-04	3134.	1374447.	-115.6448	17789.	0.00
1.8000	0.00114	327.5706	87.9026	-7.91E-04	3337.	1374447.	-117.6441	20690.	0.00
2.0000	9.84E-04	342.7982	64.3136	-7.42E-04	3492.	1374447.	-118.2468	24039.	0.00
2.2000	8.40E-04	353.2960	40.7445	-6.92E-04	3599.	1374447.	-117.4437	27952.	0.00
2.4000	7.07E-04	359.0960	17.4781	-6.40E-04	3658.	1374447.	-115.2204	32587.	0.00
2.6000	5.84E-04	360.2872	-5.1990	-5.87E-04	3670.	1374447.	-111.5508	38173.	0.00

2.8000	4.72E-04	357.0164	-26.9927	-5.35E-04	3637.	1374447.	-106.3859	45058.	0.00
3.0000	3.70E-04	349.4902	-47.5948	-4.84E-04	3560.	1374447.	-99.6355	53803.	0.00
3.2000	2.79E-04	337.9785	-66.3393	-4.34E-04	3443.	1374447.	-87.8097	63013.	0.00
3.4000	1.97E-04	322.9544	-82.5007	-3.86E-04	3290.	1374447.	-73.8043	74979.	0.00
3.6000	1.24E-04	304.9782	-91.7688	-3.40E-04	3106.	1374447.	-18.8763	30340.	0.00
3.8000	6.09E-05	286.2469	-94.5469	-2.97E-04	2916.	1374447.	-8.9052	29260.	0.00
4.0000	5.64E-06	267.1594	-95.8562	-2.57E-04	2721.	1374447.	-4.1875	148501.	0.00
4.2000	-4.18E-05	247.9045	-95.4407	-2.19E-04	2525.	1374447.	8.3426	39902.	0.00
4.4000	-8.21E-05	228.9832	-93.5302	-1.85E-04	2332.	1374447.	10.7625	26232.	0.00
4.6000	-1.16E-04	210.4924	-91.2121	-1.53E-04	2144.	1374447.	12.4185	21479.	0.00
4.8000	-1.43E-04	192.4983	-88.5993	-1.23E-04	1961.	1374447.	13.7095	19163.	0.00
5.0000	-1.65E-04	175.0527	-85.7514	-9.65E-05	1783.	1374447.	14.7697	17910.	0.00
5.2000	-1.82E-04	158.1978	-82.7083	-7.23E-05	1611.	1374447.	15.6616	17240.	0.00
5.4000	-1.94E-04	141.9694	-79.5001	-5.04E-05	1446.	1374447.	16.4199	16942.	0.00
5.6000	-2.02E-04	126.3977	-76.1516	-3.09E-05	1287.	1374447.	17.0655	16909.	0.00
5.8000	-2.06E-04	111.5087	-72.6838	-1.36E-05	1136.	1374447.	17.6122	17083.	0.00
6.0000	-2.07E-04	97.3242	-69.1156	1.61E-06	991.3364	1374447.	18.0693	17434.	0.00
6.2000	-2.06E-04	83.8625	-65.4644	1.48E-05	854.2162	1374447.	18.4434	17945.	0.00
6.4000	-2.01E-04	71.1385	-61.7461	2.61E-05	724.6105	1374447.	18.7395	18612.	0.00
6.6000	-1.95E-04	59.1640	-57.9760	3.55E-05	602.6400	1374447.	18.9611	19435.	0.00
6.8000	-1.87E-04	47.9481	-54.1688	4.33E-05	488.3949	1374447.	19.1110	20423.	0.00
7.0000	-1.78E-04	37.4965	-50.3386	4.96E-05	381.9363	1374447.	19.1915	21589.	0.00
7.2000	-1.67E-04	27.8126	-46.4990	5.43E-05	283.2971	1374447.	19.2043	22954.	0.00
7.4000	-1.56E-04	18.8969	-42.6635	5.77E-05	192.4824	1374447.	19.1509	24543.	0.00
7.6000	-1.44E-04	10.7472	-38.8451	5.99E-05	109.4704	1374447.	19.0324	26389.	0.00
7.8000	-1.32E-04	3.3589	-35.0569	6.09E-05	34.2130	1374447.	18.8500	28536.	0.00
8.0000	-1.20E-04	-3.2755	-31.0636	6.09E-05	33.3643	1374447.	21.0833	35171.	0.00
8.2000	-1.08E-04	-9.0666	-26.9205	6.00E-05	92.3514	1374447.	20.3473	37765.	0.00
8.4000	-9.59E-05	-14.0437	-22.9286	5.83E-05	143.0483	1374447.	19.5716	40821.	0.00
8.6000	-8.44E-05	-18.2380	-19.0955	5.60E-05	185.7710	1374447.	18.7593	44438.	0.00
8.8000	-7.35E-05	-21.6819	-15.4283	5.31E-05	220.8505	1374447.	17.9130	48742.	0.00
9.0000	-6.32E-05	-24.4093	-11.9335	4.97E-05	248.6316	1374447.	17.0349	53905.	0.00
9.2000	-5.36E-05	-26.4554	-8.6173	4.60E-05	269.4720	1374447.	16.1268	60156.	0.00
9.4000	-4.48E-05	-27.8563	-5.4856	4.21E-05	283.7418	1374447.	15.1904	67815.	0.00
9.6000	-3.68E-05	-28.6496	-2.5439	3.79E-05	291.8224	1374447.	14.2267	77334.	0.00
9.8000	-2.96E-05	-28.8738	0.2024	3.38E-05	294.1066	1374447.	13.2360	89372.	0.00
10.0000	-2.33E-05	-28.5687	2.7477	2.96E-05	290.9980	1374447.	12.2179	104930.	0.00
10.2000	-1.78E-05	-27.7748	5.0866	2.55E-05	282.9113	1374447.	11.1703	125602.	0.00
10.4000	-1.31E-05	-26.5340	7.2124	2.15E-05	270.2735	1374447.	10.0887	154096.	0.00
10.6000	-9.17E-06	-24.8898	9.1177	1.78E-05	253.5251	1374447.	8.9638	195426.	0.00
10.8000	-5.98E-06	-22.8870	10.7917	1.43E-05	233.1247	1374447.	7.7761	260183.	0.00
11.0000	-3.45E-06	-20.5731	12.2174	1.12E-05	209.5559	1374447.	6.4813	376008.	0.00
11.2000	-1.52E-06	-18.0000	13.4879	8.35E-06	183.3464	1374447.	6.2238	821031.	0.00
11.4000	-1.09E-07	-15.1779	14.1177	5.93E-06	154.6011	1374447.	0.07377	135828.	0.00

11.6000	8.57E-07	-12.3529	13.5570	3.93E-06	125.8258	1374447.	-5.6806	1325501.	0.00
11.8000	1.46E-06	-9.7551	12.3068	2.32E-06	99.3649	1374447.	-6.8212	932261.	0.00
12.0000	1.79E-06	-7.4302	10.8952	1.07E-06	75.6833	1374447.	-7.2948	817019.	0.00
12.2000	1.89E-06	-5.3970	9.4225	1.38E-07	54.9739	1374447.	-7.4323	785729.	0.00
12.4000	1.84E-06	-3.6612	7.9440	-5.21E-07	37.2926	1374447.	-7.3526	798814.	0.00
12.6000	1.68E-06	-2.2194	6.4973	-9.49E-07	22.6071	1374447.	-7.1144	845261.	0.00
12.8000	1.46E-06	-1.0623	5.1108	-1.19E-06	10.8202	1374447.	-6.7511	924008.	0.00
13.0000	1.21E-06	-0.1751	3.8075	-1.28E-06	1.7840	1374447.	-6.2818	1039824.	0.00
13.2000	9.50E-07	0.4607	2.6077	-1.26E-06	4.6928	1374447.	-5.7157	1203147.	0.00
13.4000	7.05E-07	0.8679	1.5309	-1.16E-06	8.8408	1374447.	-5.0527	1432519.	0.00
13.6000	4.86E-07	1.0731	0.5976	-1.02E-06	10.9302	1374447.	-4.2805	1761575.	0.00
13.8000	2.98E-07	1.1070	-0.1670	-8.61E-07	11.2755	1374447.	-3.3650	2260194.	0.00
14.0000	1.42E-07	1.0063	-0.5131	-7.07E-07	10.2498	1374447.	-0.09628	135828.	0.00
14.2000	1.50E-08	0.9017	-0.5238	-5.68E-07	9.1849	1374447.	-0.01022	135828.	0.00
14.4000	-8.54E-08	0.7968	-0.5190	-4.44E-07	8.1158	1374447.	0.05801	135828.	0.00
14.6000	-1.63E-07	0.6941	-0.5021	-3.36E-07	7.0704	1374447.	0.1105	135828.	0.00
14.8000	-2.20E-07	0.5959	-0.4762	-2.42E-07	6.0700	1374447.	0.1493	135828.	0.00
15.0000	-2.60E-07	0.5037	-0.4436	-1.62E-07	5.1304	1374447.	0.1763	135828.	0.00
15.2000	-2.85E-07	0.4185	-0.4066	-9.50E-08	4.2626	1374447.	0.1933	135828.	0.00
15.4000	-2.98E-07	0.3410	-0.3671	-3.97E-08	3.4735	1374447.	0.2021	135828.	0.00
15.6000	-3.00E-07	0.2716	-0.3265	4.87E-09	2.7668	1374447.	0.2041	135828.	0.00
15.8000	-2.96E-07	0.2104	-0.2860	3.99E-08	2.1433	1374447.	0.2007	135828.	0.00
16.0000	-2.85E-07	0.1572	-0.2466	6.67E-08	1.6015	1374447.	0.1932	135828.	0.00
16.2000	-2.69E-07	0.1118	-0.2090	8.63E-08	1.1384	1374447.	0.1826	135828.	0.00
16.4000	-2.50E-07	0.07361	-0.1738	9.97E-08	0.7498	1374447.	0.1698	135828.	0.00
16.6000	-2.29E-07	0.04225	-0.1413	1.08E-07	0.4303	1374447.	0.1555	135828.	0.00
16.8000	-2.07E-07	0.01711	-0.1117	1.12E-07	0.1743	1374447.	0.1404	135828.	0.00
17.0000	-1.84E-07	-0.00242	-0.08513	1.14E-07	0.02463	1374447.	0.1250	135828.	0.00
17.2000	-1.61E-07	-0.01695	-0.06168	1.12E-07	0.1726	1374447.	0.1096	135828.	0.00
17.4000	-1.39E-07	-0.02709	-0.04127	1.09E-07	0.2759	1374447.	0.09450	135828.	0.00
17.6000	-1.18E-07	-0.03345	-0.02383	1.05E-07	0.3408	1374447.	0.07997	135828.	0.00
17.8000	-9.73E-08	-0.03662	-0.00922	9.94E-08	0.3730	1374447.	0.06610	135828.	0.00
18.0000	-7.80E-08	-0.03714	0.00268	9.41E-08	0.3783	1374447.	0.05295	135828.	0.00
18.2000	-5.97E-08	-0.03555	0.01203	8.88E-08	0.3621	1374447.	0.04054	135828.	0.00
18.4000	-4.24E-08	-0.03233	0.01897	8.39E-08	0.3293	1374447.	0.02883	135828.	0.00
18.6000	-2.61E-08	-0.02796	0.02363	7.95E-08	0.2848	1374447.	0.01776	135828.	0.00
18.8000	-1.07E-08	-0.02288	0.02613	7.58E-08	0.2330	1374447.	0.00724	135828.	0.00
19.0000	4.16E-09	-0.01751	0.02657	7.28E-08	0.1783	1374447.	-0.00282	135828.	0.00
19.2000	1.85E-08	-0.01225	0.02503	7.07E-08	0.1248	1374447.	-0.01254	135828.	0.00
19.4000	3.24E-08	-0.00749	0.02158	6.92E-08	0.07632	1374447.	-0.02202	135828.	0.00
19.6000	4.62E-08	-0.00362	0.01624	6.84E-08	0.03685	1374447.	-0.03135	135828.	0.00
19.8000	5.98E-08	-9.97E-04	0.00905	6.81E-08	0.01015	1374447.	-0.04061	135828.	0.00
20.0000	7.34E-08	0.00	0.00	6.80E-08	0.00	1374447.	-0.04984	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 8:

Pile-head deflection = 0.00285049 meters
Computed slope at pile head = -0.00103865 radians
Maximum bending moment = 360.28724681 kN-m
Maximum shear force = 250.00000000 kN
Depth of maximum bending moment = 2.60000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 13
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 9

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 800.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.03066	2.38E-09	800.0000	-0.00728	2.43E-08	1374447.	0.00	0.00	0.00
0.2000	0.02921	160.0000	797.9832	-0.00726	1630.	1374447.	-20.1684	138.0998	0.00
0.4000	0.02776	319.1933	791.2941	-0.00723	3251.	1374447.	-46.7216	336.6371	0.00
0.6000	0.02632	476.5177	778.8307	-0.00717	4854.	1374447.	-77.9130	592.1234	0.00
0.8000	0.02489	630.7255	759.7595	-0.00709	6425.	1374447.	-112.7984	906.4126	0.00
1.0000	0.02348	780.4215	733.4220	-0.00699	7949.	1374447.	-150.5766	1283.	0.00
1.2000	0.02209	924.0943	699.3086	-0.00686	9413.	1374447.	-190.5573	1725.	0.00
1.4000	0.02073	1060.	657.0924	-0.00672	10799.	1374447.	-231.6045	2234.	0.00
1.6000	0.01941	1187.	606.9104	-0.00656	12090.	1374447.	-270.2163	2785.	0.00
1.8000	0.01811	1303.	549.3168	-0.00638	13271.	1374447.	-305.7194	3376.	0.00
2.0000	0.01685	1407.	484.9230	-0.00618	14328.	1374447.	-338.2182	4013.	0.00
2.2000	0.01564	1497.	414.3216	-0.00597	15247.	1374447.	-367.7966	4703.	0.00
2.4000	0.01447	1572.	338.0894	-0.00574	16016.	1374447.	-394.5249	5454.	0.00

2.6000	0.01334	1632.	256.7906	-0.00551	16625.	1374447.	-418.4633	6273.	0.00
2.8000	0.01226	1675.	170.9779	-0.00527	17062.	1374447.	-439.6634	7170.	0.00
3.0000	0.01123	1701.	81.2217	-0.00502	17321.	1374447.	-457.8992	8152.	0.00
3.2000	0.01025	1708.	-10.1776	-0.00478	17393.	1374447.	-456.0929	8896.	0.00
3.4000	0.00932	1696.	-100.3615	-0.00453	17280.	1374447.	-445.7470	9562.	0.00
3.6000	0.00844	1667.	-152.6318	-0.00428	16984.	1374447.	-76.9559	1823.	0.00
3.8000	0.00761	1635.	-164.7766	-0.00404	16658.	1374447.	-44.4920	1169.	0.00
4.0000	0.00682	1602.	-173.6528	-0.00381	16313.	1374447.	-44.2704	1297.	0.00
4.2000	0.00609	1566.	-182.4724	-0.00358	15950.	1374447.	-43.9256	1444.	0.00
4.4000	0.00539	1529.	-191.2102	-0.00335	15570.	1374447.	-43.4524	1612.	0.00
4.6000	0.00474	1489.	-199.8400	-0.00313	15171.	1374447.	-42.8448	1806.	0.00
4.8000	0.00414	1449.	-208.3340	-0.00292	14755.	1374447.	-42.0951	2034.	0.00
5.0000	0.00358	1406.	-216.6628	-0.00271	14322.	1374447.	-41.1935	2304.	0.00
5.2000	0.00305	1362.	-224.7949	-0.00251	13873.	1374447.	-40.1271	2627.	0.00
5.4000	0.00257	1316.	-232.6955	-0.00232	13407.	1374447.	-38.8786	3023.	0.00
5.6000	0.00213	1269.	-240.3257	-0.00213	12925.	1374447.	-37.4242	3517.	0.00
5.8000	0.00172	1220.	-247.6411	-0.00195	12427.	1374447.	-35.7295	4152.	0.00
6.0000	0.00135	1170.	-254.5883	-0.00177	11916.	1374447.	-33.7422	5001.	0.00
6.2000	0.00101	1118.	-261.1003	-0.00161	11390.	1374447.	-31.3777	6201.	0.00
6.4000	7.07E-04	1065.	-267.0864	-0.00145	10852.	1374447.	-28.4833	8057.	0.00
6.6000	4.33E-04	1011.	-272.4081	-0.00130	10302.	1374447.	-24.7339	11424.	0.00
6.8000	1.88E-04	956.4082	-276.7973	-0.00115	9742.	1374447.	-19.1584	20329.	0.00
7.0000	-2.82E-05	900.6656	-277.6748	-0.00102	9174.	1374447.	10.3841	73569.	0.00
7.2000	-2.19E-04	845.3383	-274.5368	-8.91E-04	8611.	1374447.	20.9952	19197.	0.00
7.4000	-3.85E-04	790.8509	-269.8507	-7.72E-04	8056.	1374447.	25.8657	13450.	0.00
7.6000	-5.28E-04	737.3980	-264.3322	-6.61E-04	7511.	1374447.	29.3195	11116.	0.00
7.8000	-6.49E-04	685.1180	-258.1964	-5.57E-04	6979.	1374447.	32.0387	9874.	0.00
8.0000	-7.50E-04	634.1195	-251.1076	-4.61E-04	6459.	1374447.	38.8496	10354.	0.00
8.2000	-8.33E-04	584.6750	-243.1993	-3.73E-04	5955.	1374447.	40.2328	9654.	0.00
8.4000	-8.99E-04	536.8397	-235.0492	-2.91E-04	5468.	1374447.	41.2682	9176.	0.00
8.6000	-9.50E-04	490.6553	-226.7199	-2.16E-04	4998.	1374447.	42.0250	8849.	0.00
8.8000	-9.86E-04	446.1518	-218.2623	-1.48E-04	4544.	1374447.	42.5511	8631.	0.00
9.0000	-0.00101	403.3503	-209.7191	-8.63E-05	4108.	1374447.	42.8813	8499.	0.00
9.2000	-0.00102	362.2641	-201.1267	-3.06E-05	3690.	1374447.	43.0420	8435.	0.00
9.4000	-0.00102	322.8996	-192.5171	1.93E-05	3289.	1374447.	43.0540	8431.	0.00
9.6000	-0.00101	285.2573	-183.9184	6.35E-05	2906.	1374447.	42.9335	8478.	0.00
9.8000	-9.96E-04	249.3323	-175.3556	1.02E-04	2540.	1374447.	42.6941	8574.	0.00
10.0000	-9.72E-04	215.1150	-166.8515	1.36E-04	2191.	1374447.	42.3468	8715.	0.00
10.2000	-9.41E-04	182.5917	-158.4267	1.65E-04	1860.	1374447.	41.9011	8901.	0.00
10.4000	-9.06E-04	151.7443	-150.1001	1.89E-04	1546.	1374447.	41.3649	9133.	0.00
10.6000	-8.66E-04	122.5516	-141.8891	2.09E-04	1248.	1374447.	40.7453	9413.	0.00
10.8000	-8.22E-04	94.9887	-133.8097	2.25E-04	967.5470	1374447.	40.0484	9744.	0.00
11.0000	-7.76E-04	69.0277	-125.8769	2.37E-04	703.1106	1374447.	39.2798	10129.	0.00
11.2000	-7.27E-04	44.6379	-117.1131	2.45E-04	454.6783	1374447.	48.3584	13301.	0.00

11.4000	-6.77E-04	22.1825	-106.9639	2.50E-04	225.9490	1374447.	53.1334	15687.	0.00
11.6000	-6.27E-04	1.8524	-96.4723	2.52E-04	18.8682	1374447.	51.7821	16517.	0.00
11.8000	-5.77E-04	-16.4064	-86.2586	2.51E-04	167.1146	1374447.	50.3548	17466.	0.00
12.0000	-5.27E-04	-32.6511	-76.3375	2.47E-04	332.5811	1374447.	48.8563	18554.	0.00
12.2000	-4.78E-04	-46.9415	-66.7228	2.42E-04	478.1418	1374447.	47.2912	19802.	0.00
12.4000	-4.30E-04	-59.3402	-57.4273	2.34E-04	604.4342	1374447.	45.6635	21239.	0.00
12.6000	-3.84E-04	-69.9124	-48.4633	2.24E-04	712.1217	1374447.	43.9765	22900.	0.00
12.8000	-3.40E-04	-78.7255	-39.8423	2.14E-04	801.8915	1374447.	42.2336	24829.	0.00
13.0000	-2.99E-04	-85.8493	-31.5752	2.02E-04	874.4538	1374447.	40.4372	27085.	0.00
13.2000	-2.60E-04	-91.3556	-23.6726	1.89E-04	930.5406	1374447.	38.5894	29741.	0.00
13.4000	-2.23E-04	-95.3183	-16.1444	1.75E-04	970.9045	1374447.	36.6918	32896.	0.00
13.6000	-1.89E-04	-97.8134	-9.0008	1.61E-04	996.3189	1374447.	34.7449	36686.	0.00
13.8000	-1.59E-04	-98.9186	-2.2514	1.47E-04	1008.	1374447.	32.7484	41296.	0.00
14.0000	-1.31E-04	-98.7140	4.0934	1.32E-04	1005.	1374447.	30.7005	46990.	0.00
14.2000	-1.06E-04	-97.2813	10.0232	1.18E-04	990.8988	1374447.	28.5970	54157.	0.00
14.4000	-8.34E-05	-94.7047	15.5260	1.04E-04	964.6540	1374447.	26.4306	63399.	0.00
14.6000	-6.39E-05	-91.0709	20.5878	9.07E-05	927.6404	1374447.	24.1881	75700.	0.00
14.8000	-4.71E-05	-86.4696	25.1913	7.78E-05	880.7716	1374447.	21.8463	92801.	0.00
15.0000	-3.28E-05	-80.9944	29.3121	6.56E-05	825.0019	1374447.	19.3618	118149.	0.00
15.2000	-2.08E-05	-74.7447	32.9128	5.43E-05	761.3435	1374447.	16.6457	159857.	0.00
15.4000	-1.11E-05	-67.8292	35.9251	4.39E-05	690.9030	1374447.	13.4769	243892.	0.00
15.6000	-3.25E-06	-60.3747	38.1692	3.46E-05	614.9715	1374447.	8.9646	551456.	0.00
15.8000	2.79E-06	-52.5615	38.2140	2.64E-05	535.3875	1374447.	-8.5169	610112.	0.00
16.0000	7.31E-06	-45.0891	36.1885	1.93E-05	459.2736	1374447.	-11.7381	321353.	0.00
16.2000	1.05E-05	-38.0861	33.6897	1.32E-05	387.9422	1374447.	-13.2501	252221.	0.00
16.4000	1.26E-05	-31.6132	30.9570	8.16E-06	322.0094	1374447.	-14.0773	223457.	0.00
16.6000	1.38E-05	-25.7034	28.0991	3.99E-06	261.8122	1374447.	-14.5014	210585.	0.00
16.8000	1.42E-05	-20.3736	25.1840	6.42E-07	207.5234	1374447.	-14.6490	206364.	0.00
17.0000	1.40E-05	-15.6297	22.2600	-1.98E-06	159.2032	1374447.	-14.5910	208010.	0.00
17.2000	1.34E-05	-11.4696	19.3638	-3.95E-06	116.8279	1374447.	-14.3718	214406.	0.00
17.4000	1.24E-05	-7.8842	16.5244	-5.36E-06	80.3082	1374447.	-14.0215	225256.	0.00
17.6000	1.13E-05	-4.8598	13.7661	-6.28E-06	49.5014	1374447.	-13.5613	240807.	0.00
17.8000	9.94E-06	-2.3778	11.1094	-6.81E-06	24.2199	1374447.	-13.0060	261808.	0.00
18.0000	8.54E-06	-0.4160	8.5723	-7.01E-06	4.2375	1374447.	-12.3655	289635.	0.00
18.2000	7.13E-06	1.0511	6.1713	-6.97E-06	10.7067	1374447.	-11.6441	326636.	0.00
18.4000	5.75E-06	2.0525	3.9229	-6.74E-06	20.9066	1374447.	-10.8395	376936.	0.00
18.6000	4.43E-06	2.6203	1.8452	-6.40E-06	26.6901	1374447.	-9.9383	448403.	0.00
18.8000	3.19E-06	2.7906	-0.03930	-6.01E-06	28.4245	1374447.	-8.9064	558334.	0.00
19.0000	2.03E-06	2.6046	-1.6959	-5.62E-06	26.5300	1374447.	-7.6596	754938.	0.00
19.2000	9.44E-07	2.1122	-3.0553	-5.27E-06	21.5148	1374447.	-5.9349	1257628.	0.00
19.4000	-8.01E-08	1.3824	-3.6434	-5.02E-06	14.0814	1374447.	0.05438	135828.	0.00
19.6000	-1.06E-06	0.6548	-3.0204	-4.87E-06	6.6702	1374447.	6.1753	1161061.	0.00
19.8000	-2.03E-06	0.1743	-1.6371	-4.81E-06	1.7751	1374447.	7.6579	755090.	0.00
20.0000	-2.99E-06	0.00	0.00	-4.80E-06	0.00	1374447.	8.7134	291626.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 9:

Pile-head deflection = 0.03066383 meters
Computed slope at pile head = -0.00727658 radians
Maximum bending moment = 1708. kN-m
Maximum shear force = 800.00000000 kN
Depth of maximum bending moment = 3.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 70
Number of zero deflection points = 3

Summary of Pile-head Responses for Conventional Analyses

Definitions of Pile-head Loading Conditions:

Load Type 1: Load 1 = Shear, V, kN, and Load 2 = Moment, M, kN-m
Load Type 2: Load 1 = Shear, V, kN, and Load 2 = Slope, S, radians
Load Type 3: Load 1 = Shear, V, kN, and Load 2 = Rot. Stiffness, R, kN-m/rad.
Load Type 4: Load 1 = Top Deflection, y, m, and Load 2 = Moment, M, kN-m
Load Type 5: Load 1 = Top Deflection, y, m, and Load 2 = Slope, S, radians

Load Case No.	Load Type 1	Pile-head Load 1	Load Type 2	Pile-head Load 2	Axial Loading kN	Pile-head Deflection meters	Pile-head Rotation radians	Max Shear in Pile kN	Max Moment in Pile kN-m
1	V, kN	75.0000	M, kN-m	0.00	0.00	5.41E-04	-2.27E-04	75.0000	92.2287
2	V, kN	80.0000	M, kN-m	0.00	0.00	5.83E-04	-2.44E-04	80.0000	98.9491
3	V, kN	105.0000	M, kN-m	0.00	0.00	8.25E-04	-3.39E-04	105.0000	134.2147
4	V, kN	120.0000	M, kN-m	0.00	0.00	9.88E-04	-4.00E-04	120.0000	155.8450
5	V, kN	150.0000	M, kN-m	0.00	0.00	0.00135	-5.33E-04	150.0000	201.3980
6	V, kN	175.0000	M, kN-m	0.00	0.00	0.00169	-6.51E-04	175.0000	239.9505
7	V, kN	200.0000	M, kN-m	0.00	0.00	0.00204	-7.73E-04	200.0000	278.6492
8	V, kN	250.0000	M, kN-m	0.00	0.00	0.00285	-0.00104	250.0000	360.2872
9	V, kN	800.0000	M, kN-m	0.00	0.00	0.03066	-0.00728	800.0000	1708.

Maximum pile-head deflection = 0.0306638297 meters

Maximum pile-head rotation = -0.0072765830 radians = -0.416917 deg.

The analysis ended normally.

Opera VI03 – D1200

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LPile for Windows, Version 2016-09.009

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method
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Files Used for Analysis

Path to file locations:
\m9159\Work\07_Pali\VI03\LPILE\

Name of input data file:
VI03_spalle-pila_D1200.lp9d

Name of output report file:
VI03_spalle-pila_D1200.lp9o

Name of plot output file:
VI03_spalle-pila_D1200.lp9p

Name of runtime message file:
VI03_spalle-pila_D1200.lp9r

Date and Time of Analysis

Date: June 10, 2019 Time: 14:48:13

Problem Title

Project Name: VI02 - Spalle e pila
Job Number:
Client:
Engineer:
Description:

Program Options and Settings

Computational Options:
- Use unfactored loads in computations (conventional analysis)

Engineering Units Used for Data Input and Computations:
- International System Units (kilonewtons, meters, millimeters)

Analysis Control Options:
- Maximum number of iterations allowed = 500
- Deflection tolerance for convergence = 2.5400E-07 m
- Maximum allowable deflection = 2.5400 m
- Number of pile increments = 100

Loading Type and Number of Cycles of Loading:
- Static loading specified

- Use of p-y modification factors for p-y curves not selected
- No distributed lateral loads are entered
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected

- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:
- Output files use decimal points to denote decimal symbols.
- Values of pile-head deflection, bending moment, shear force, and soil reaction are printed for full length of pile.
- Printing Increment (nodal spacing of output points) = 1
- p-y curves computed and reported at user-specified depths
- Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined = 1
Total length of pile = 20.000 m
Depth of ground surface below top of pile = 0.0000 m

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point	Depth Below Pile Head meters	Pile Diameter millimeters
1	0.000	1200.00
2	20.000	1200.00

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is an elastic pile
Cross-sectional Shape = Circular Pile
Length of section = 20.000000 m

Width of top of section = 1.200000 m
Width of bottom of section = 1.200000 m
Top Area = 1.130973 sq. m
Bottom Area = 1.130973 sq. m
Moment of Inertia at Top = 0.101788 m^4
Moment of Inertia at Bottom = 0.101788 m^4
Elastic Modulus = 28000000. kPa

Ground Slope and Pile Batter Angles

Ground Slope Angle = 0.000 degrees
= 0.000 radians

Pile Batter Angle = 0.000 degrees
= 0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 3 layers

Layer 1 is stiff clay with water-induced erosion

Distance from top of pile to top of layer = 0.0000 m
Distance from top of pile to bottom of layer = 3.600000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 80.000000 kPa
Undrained cohesion at bottom of layer = 80.000000 kPa
Epsilon-50 at top of layer = 0.007000
Epsilon-50 at bottom of layer = 0.007000
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 2 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 3.600000 m
Distance from top of pile to bottom of layer = 11.200000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 35.000000 kPa
Undrained cohesion at bottom of layer = 35.000000 kPa
Epsilon-50 at top of layer = 0.020000
Epsilon-50 at bottom of layer = 0.020000

Layer 3 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 11.200000 m
Distance from top of pile to bottom of layer = 20.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 45.000000 kPa
Undrained cohesion at bottom of layer = 45.000000 kPa
Epsilon-50 at top of layer = 0.015000
Epsilon-50 at bottom of layer = 0.015000

(Depth of the lowest soil layer extends 0.000 m below the pile tip)

Summary of Input Soil Properties

Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth m	Effective Unit Wt. kN/m3	Undrained Cohesion kPa	E50 or krm	kpy kN/m3
1	Stiff Clay	0.00	9.0000	80.0000	0.00700	default
	with Free Water	3.6000	9.0000	80.0000	0.00700	default
2	Soft	3.6000	9.0000	35.0000	0.02000	--
	Clay	11.2000	9.0000	35.0000	0.02000	--
3	Soft	11.2000	9.0000	45.0000	0.01500	--
	Clay	20.0000	9.0000	45.0000	0.01500	--

Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 8

Load No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, kN	Compute Top y vs. Pile Length
1	1	V = 100.000000 kN	M = 0.0000 m-kN	0.0000000	No
2	1	V = 125.000000 kN	M = 0.0000 m-kN	0.0000000	No
3	1	V = 170.000000 kN	M = 0.0000 m-kN	0.0000000	No
4	1	V = 210.000000 kN	M = 0.0000 m-kN	0.0000000	No
5	1	V = 250.000000 kN	M = 0.0000 m-kN	0.0000000	No
6	1	V = 300.000000 kN	M = 0.0000 m-kN	0.0000000	No
7	1	V = 350.000000 kN	M = 0.0000 m-kN	0.0000000	No
8	1	V = 950.000000 kN	M = 0.0000 m-kN	0.0000000	No

V = shear force applied normal to pile axis
M = bending moment applied to pile head
y = lateral deflection normal to pile axis
S = pile slope relative to original pile batter angle
R = rotational stiffness applied to pile head
Values of top y vs. pile lengths can be computed only for load types with specified shear loading (Load Types 1, 2, and 3).
Thrust force is assumed to be acting axially for all pile batter angles.

Specified Depths for Output of p-y Curves

Lateral load-transfer (p-y) curves are computed and output at 8 depths.
(Note that load-transfer values are computeded at the specified depths and may differ from values computed at nodal points)

Depth No.	Depth Below Pile Head m	Depth Below Ground Surface m
1	0.200	0.200
2	3.400	3.400
3	3.800	3.800
4	9.000	9.000
5	11.000	11.000
6	11.400	11.400
7	16.000	16.000
8	19.800	19.800

Depth of ground surface below top of pile = 0.0000 m

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

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Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Moment-curvature properties were derived from elastic section properties

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Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head meters	Equivalent Top Depth Below Grnd Surf meters	Same Layer Type As Layer Above	Layer is Rock or is Below Rock Layer	F0 Integral for Layer kN	F1 Integral for Layer kN
1	0.00	0.00	N.A.	No	0.00	177.2971
2	3.6000	1.2357	No	No	177.2971	2229.

3	11.2000	8.8357	Yes	No	2406.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals for Layer n. Layering correction equivalent depths are computed only for soil types with both shallow-depth and deep-depth expressions for peak lateral load transfer. These soil types are soft and stiff clays, non-liquefied sands, and cemented c-phi soil.

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p-y Curves Reported for Specified Depths

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p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 0.200 m
Depth of p-y curve below ground surface = 0.200 m
Equivalent depth of p-y curve = 0.200 m
Pile diameter = 1200.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.008 m
As = 0.28166
Ac (not used) = 0.22353
pct = 239.440 kN/m
pcd = 1056.000 kN/m
pc = 239.440 kN/m
pu = 6.644 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters p, kN/m

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0.00000	0.00000
0.00118	32.11161
0.00237	63.53756
0.00355	72.28033
0.00473	76.68647
0.00591	78.60052
0.00710	78.72846
0.00828	77.46940
0.00946	75.08018
0.01065	71.73941
0.01183	67.57805
0.01301	62.69601
0.01420	57.17185
0.02366	40.36449
0.03312	23.50423
0.04259	6.64397
0.04495	6.64397

p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 3.400 m
Depth of p-y curve below ground surface = 3.400 m
Equivalent depth of p-y curve = 3.400 m
Pile diameter = 1200.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.008 m
As = 0.59865
Ac (not used) = 0.30000
pct = 998.480 kN/m
pcd = 1056.000 kN/m
pc = 998.480 kN/m
pu = 87.495 kN/m
p-multiplier = 1.00000

y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00251	273.13788
0.00503	386.27529
0.00754	449.99918
0.01006	491.35936
0.01257	519.59239
0.01509	538.43449
0.01760	550.02061
0.02011	555.72845
0.02263	556.51574
0.02514	553.08374
0.02766	545.96615
0.03017	535.58151
0.05029	386.36634
0.07040	236.93060
0.09052	87.49486
0.09555	87.49486

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 3.600 m
Depth of p-y curve below pile head = 3.800 m
Depth of p-y curve below ground surface = 3.800 m
Equiv. depth of p-y curve below ground surface = 1.436 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1200.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 8.905 m
Static pu_s for flat ground = 192.164 kN/m

Static pu_d for flat ground = 378.000 kN/m
y_50 = 0.06000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 192.164 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00014222	12.81093
0.00114	25.62185
0.00384	38.43278
0.00910	51.24370
0.01778	64.05463
0.03072	76.86556
0.04878	89.67648
0.07282	102.48741
0.10368	115.29833
0.14222	128.10926
0.18930	140.92019
0.24576	153.73111
0.31246	166.54204
0.39026	179.35297
0.48000	192.16389
0.51000	192.16389

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 3.600 m
Depth of p-y curve below pile head = 9.000 m
Depth of p-y curve below ground surface = 9.000 m
Equiv. depth of p-y curve below ground surface = 9.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1200.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200

J (default value) = 0.5000
Transition depth Xr = 8.905 m
Static pu_s for flat ground = 380.700 kN/m
Static pu_d for flat ground = 378.000 kN/m
y_50 = 0.06000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 378.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00014222	25.20000
0.00114	50.40000
0.00384	75.60000
0.00910	100.80000
0.01778	126.00000
0.03072	151.20000
0.04878	176.40000
0.07282	201.60000
0.10368	226.80000
0.14222	252.00000
0.18930	277.20000
0.24576	302.40000
0.31246	327.60000
0.39026	352.80000
0.48000	378.00000
0.51000	378.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 3.600 m
Depth of p-y curve below pile head = 11.000 m
Depth of p-y curve below ground surface = 11.000 m
Equiv. depth of p-y curve below ground surface = 11.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1200.000 mm

Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 8.905 m
Static pu_s for flat ground = 437.300 kN/m
Static pu_d for flat ground = 378.000 kN/m
y_50 = 0.06000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 378.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00014222	25.20000
0.00114	50.40000
0.00384	75.60000
0.00910	100.80000
0.01778	126.00000
0.03072	151.20000
0.04878	176.40000
0.07282	201.60000
0.10368	226.80000
0.14222	252.00000
0.18930	277.20000
0.24576	302.40000
0.31246	327.60000
0.39026	352.80000
0.48000	378.00000
0.51000	378.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 11.200 m
Depth of p-y curve below pile head = 11.400 m

Depth of p-y curve below ground surface = 11.400 m
Equiv. depth of p-y curve below ground surface = 11.400 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1200.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 9.730 m
Static pu_s for flat ground = 541.620 kN/m
Static pu_d for flat ground = 486.000 kN/m
y_50 = 0.04500 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 486.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00010667	32.40000
0.00085333	64.80000
0.00288	97.20000
0.00683	129.60000
0.01333	162.00000
0.02304	194.40000
0.03659	226.80000
0.05461	259.20000
0.07776	291.60000
0.10667	324.00000
0.14197	356.40000
0.18432	388.80000
0.23435	421.20000
0.29269	453.60000
0.36000	486.00000
0.38250	486.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 11.200 m
Depth of p-y curve below pile head = 16.000 m
Depth of p-y curve below ground surface = 16.000 m
Equiv. depth of p-y curve below ground surface = 16.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1200.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 9.730 m
Static pu_s for flat ground = 694.800 kN/m
Static pu_d for flat ground = 486.000 kN/m
y_50 = 0.04500 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 486.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00010667	32.40000
0.00085333	64.80000
0.00288	97.20000
0.00683	129.60000
0.01333	162.00000
0.02304	194.40000
0.03659	226.80000
0.05461	259.20000
0.07776	291.60000
0.10667	324.00000
0.14197	356.40000
0.18432	388.80000
0.23435	421.20000
0.29269	453.60000
0.36000	486.00000
0.38250	486.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 11.200 m
Depth of p-y curve below pile head = 19.800 m
Depth of p-y curve below ground surface = 19.800 m
Equiv. depth of p-y curve below ground surface = 19.800 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1200.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 9.730 m
Static pu_s for flat ground = 821.340 kN/m
Static pu_d for flat ground = 486.000 kN/m
y_50 = 0.04500 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 486.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00010667	32.40000
0.00085333	64.80000
0.00288	97.20000
0.00683	129.60000
0.01333	162.00000
0.02304	194.40000
0.03659	226.80000
0.05461	259.20000
0.07776	291.60000
0.10667	324.00000
0.14197	356.40000
0.18432	388.80000
0.23435	421.20000
0.29269	453.60000

0.36000	486.00000
0.38250	486.00000

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 1

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 100.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	5.52E-04	6.18E-11	100.0000	-1.98E-04	3.64E-10	2850053.	0.00	0.00	0.00
0.2000	5.13E-04	20.0000	98.6081	-1.98E-04	117.8926	2850053.	-13.9185	5429.	0.00
0.4000	4.73E-04	39.4433	94.6464	-1.96E-04	232.5033	2850053.	-25.6987	10858.	0.00
0.6000	4.35E-04	57.8586	88.5380	-1.92E-04	341.0547	2850053.	-35.3858	16287.	0.00
0.8000	3.97E-04	74.8584	80.8524	-1.87E-04	441.2627	2850053.	-41.4704	20918.	0.00
1.0000	3.60E-04	90.1995	72.2656	-1.82E-04	531.6925	2850053.	-44.3973	24697.	0.00
1.2000	3.24E-04	103.7647	63.1466	-1.75E-04	611.6542	2850053.	-46.7928	28899.	0.00
1.4000	2.90E-04	115.4581	53.6019	-1.67E-04	680.5828	2850053.	-48.6539	33602.	0.00
1.6000	2.57E-04	125.2055	43.7385	-1.59E-04	738.0395	2850053.	-49.9804	38901.	0.00
1.8000	2.26E-04	132.9535	33.6630	-1.50E-04	783.7116	2850053.	-50.7745	44915.	0.00
2.0000	1.97E-04	138.6706	23.4815	-1.40E-04	817.4118	2850053.	-51.0403	51795.	0.00
2.2000	1.70E-04	142.3461	13.3006	-1.30E-04	839.0775	2850053.	-50.7692	59718.	0.00
2.4000	1.45E-04	143.9909	3.5015	-1.20E-04	848.7726	2850053.	-47.2215	65147.	0.00
2.6000	1.22E-04	143.7467	-5.5233	-1.10E-04	847.3335	2850053.	-43.0265	70576.	0.00
2.8000	1.01E-04	141.7815	-13.6607	-1.00E-04	835.7494	2850053.	-38.3473	76005.	0.00
3.0000	8.19E-05	138.2825	-20.8291	-9.03E-05	815.1236	2850053.	-33.3371	81434.	0.00
3.2000	6.48E-05	133.4499	-26.9765	-8.08E-05	786.6374	2850053.	-28.1366	86863.	0.00
3.4000	4.96E-05	127.4919	-32.0774	-7.16E-05	751.5170	2850053.	-22.8724	92292.	0.00
3.6000	3.61E-05	120.6189	-35.7209	-6.29E-05	711.0037	2850053.	-13.5621	75061.	0.00
3.8000	2.44E-05	113.2035	-37.7903	-5.47E-05	667.2926	2850053.	-7.1324	58462.	0.00
4.0000	1.43E-05	105.5028	-39.1183	-4.70E-05	621.8998	2850053.	-6.1478	86269.	0.00
4.2000	5.59E-06	97.5562	-40.1987	-3.99E-05	575.0574	2850053.	-4.6564	166718.	0.00

4.4000	-1.71E-06	89.4233	-40.3551	-3.33E-05	527.1171	2850053.	3.0931	361448.	0.00
4.6000	-7.75E-06	81.4142	-39.5069	-2.74E-05	479.9061	2850053.	5.3888	138996.	0.00
4.8000	-1.27E-05	73.6206	-38.3150	-2.19E-05	433.9658	2850053.	6.5297	103206.	0.00
5.0000	-1.65E-05	66.0881	-36.9293	-1.70E-05	389.5650	2850053.	7.3275	88709.	0.00
5.2000	-1.95E-05	58.8488	-35.4029	-1.26E-05	346.8919	2850053.	7.9364	81568.	0.00
5.4000	-2.16E-05	51.9270	-33.7676	-8.74E-06	306.0902	2850053.	8.4169	78034.	0.00
5.6000	-2.30E-05	45.3418	-32.0459	-5.33E-06	267.2730	2850053.	8.7997	76664.	0.00
5.8000	-2.37E-05	39.1086	-30.2557	-2.37E-06	230.5306	2850053.	9.1025	76799.	0.00
6.0000	-2.39E-05	33.2395	-28.4118	1.71E-07	195.9345	2850053.	9.3365	78117.	0.00
6.2000	-2.36E-05	27.7439	-26.5273	2.31E-06	163.5398	2850053.	9.5091	80462.	0.00
6.4000	-2.30E-05	22.6286	-24.6138	4.08E-06	133.3872	2850053.	9.6258	83778.	0.00
6.6000	-2.20E-05	17.8984	-22.6821	5.50E-06	105.5042	2850053.	9.6906	88076.	0.00
6.8000	-2.08E-05	13.5558	-20.7424	6.60E-06	79.9061	2850053.	9.7064	93423.	0.00
7.0000	-1.94E-05	9.6014	-18.8042	7.42E-06	56.5966	2850053.	9.6756	99935.	0.00
7.2000	-1.78E-05	6.0341	-16.8767	7.96E-06	35.5685	2850053.	9.6001	107787.	0.00
7.4000	-1.62E-05	2.8507	-14.9685	8.28E-06	16.8040	2850053.	9.4815	117217.	0.00
7.6000	-1.45E-05	0.04666	-13.0882	8.38E-06	0.2750	2850053.	9.3213	128548.	0.00
7.8000	-1.28E-05	-2.3846	-11.2440	8.30E-06	14.0561	2850053.	9.1206	142216.	0.00
8.0000	-1.12E-05	-4.4510	-9.4439	8.06E-06	26.2367	2850053.	8.8807	158811.	0.00
8.2000	-9.60E-06	-6.1621	-7.6956	7.68E-06	36.3234	2850053.	8.6024	179144.	0.00
8.4000	-8.11E-06	-7.5292	-6.0067	7.20E-06	44.3818	2850053.	8.2869	204353.	0.00
8.6000	-6.72E-06	-8.5648	-4.3845	6.64E-06	50.4862	2850053.	7.9350	236073.	0.00
8.8000	-5.45E-06	-9.2830	-2.8362	6.01E-06	54.7197	2850053.	7.5476	276731.	0.00
9.0000	-4.32E-06	-9.6993	-1.2877	5.35E-06	57.1737	2850053.	7.9375	367700.	0.00
9.2000	-3.32E-06	-9.7981	0.2368	4.66E-06	57.7560	2850053.	7.3073	440711.	0.00
9.4000	-2.45E-06	-9.6046	1.6335	3.98E-06	56.6154	2850053.	6.6605	543181.	0.00
9.6000	-1.72E-06	-9.1447	2.8993	3.32E-06	53.9044	2850053.	5.9968	695906.	0.00
9.8000	-1.12E-06	-8.4449	4.0305	2.71E-06	49.7794	2850053.	5.3155	946790.	0.00
10.0000	-6.41E-07	-7.5325	4.5874	2.15E-06	44.4010	2850053.	0.2538	79233.	0.00
10.2000	-2.64E-07	-6.6099	4.6233	1.65E-06	38.9629	2850053.	0.1047	79233.	0.00
10.4000	1.92E-08	-5.6831	4.6330	1.22E-06	33.5000	2850053.	-0.00761	79233.	0.00
10.6000	2.23E-07	-4.7567	4.6234	8.52E-07	28.0390	2850053.	-0.08836	79233.	0.00
10.8000	3.60E-07	-3.8338	4.6003	5.51E-07	22.5987	2850053.	-0.1427	79233.	0.00
11.0000	4.43E-07	-2.9166	4.5685	3.14E-07	17.1922	2850053.	-0.1757	79233.	0.00
11.2000	4.86E-07	-2.0064	4.1090	1.41E-07	11.8270	2850053.	-4.4191	1819617.	0.00
11.4000	5.00E-07	-1.2730	3.1544	2.62E-08	7.5038	2850053.	-5.1265	2051017.	0.00
11.6000	4.96E-07	-0.7446	2.1162	-4.46E-08	4.3893	2850053.	-5.2563	2118589.	0.00
11.8000	4.82E-07	-0.4265	1.0500	-8.57E-08	2.5142	2850053.	-5.4051	2242480.	0.00
12.0000	4.62E-07	-0.3246	0.4781	-1.12E-07	1.9135	2850053.	-0.3137	135828.	0.00
12.2000	4.37E-07	-0.2353	0.4171	-1.32E-07	1.3868	2850053.	-0.2970	135828.	0.00
12.4000	4.09E-07	-0.1578	0.3596	-1.45E-07	0.9301	2850053.	-0.2779	135828.	0.00
12.6000	3.79E-07	-0.09143	0.3060	-1.54E-07	0.5390	2850053.	-0.2574	135828.	0.00
12.8000	3.48E-07	-0.03537	0.2567	-1.59E-07	0.2085	2850053.	-0.2361	135828.	0.00
13.0000	3.16E-07	0.01125	0.2117	-1.60E-07	0.06630	2850053.	-0.2143	135828.	0.00

13.2000	2.84E-07	0.04929	0.1709	-1.57E-07	0.2906	2850053.	-0.1927	135828.	0.00
13.4000	2.53E-07	0.07963	0.1345	-1.53E-07	0.4694	2850053.	-0.1716	135828.	0.00
13.6000	2.23E-07	0.1031	0.1022	-1.46E-07	0.6077	2850053.	-0.1512	135828.	0.00
13.8000	1.94E-07	0.1205	0.07394	-1.39E-07	0.7104	2850053.	-0.1318	135828.	0.00
14.0000	1.67E-07	0.1327	0.04940	-1.30E-07	0.7821	2850053.	-0.1136	135828.	0.00
14.2000	1.42E-07	0.1403	0.02839	-1.20E-07	0.8269	2850053.	-0.09657	135828.	0.00
14.4000	1.19E-07	0.1440	0.01064	-1.10E-07	0.8490	2850053.	-0.08092	135828.	0.00
14.6000	9.81E-08	0.1445	-0.00411	-1.00E-07	0.8520	2850053.	-0.06664	135828.	0.00
14.8000	7.91E-08	0.1424	-0.01615	-9.00E-08	0.8393	2850053.	-0.05374	135828.	0.00
15.0000	6.21E-08	0.1381	-0.02575	-8.01E-08	0.8139	2850053.	-0.04220	135828.	0.00
15.2000	4.71E-08	0.1321	-0.03316	-7.06E-08	0.7786	2850053.	-0.03198	135828.	0.00
15.4000	3.39E-08	0.1248	-0.03866	-6.16E-08	0.7357	2850053.	-0.02301	135828.	0.00
15.6000	2.24E-08	0.1166	-0.04249	-5.32E-08	0.6874	2850053.	-0.01523	135828.	0.00
15.8000	1.26E-08	0.1078	-0.04487	-4.53E-08	0.6355	2850053.	-0.00857	135828.	0.00
16.0000	4.31E-09	0.09867	-0.04602	-3.80E-08	0.5816	2850053.	-0.00293	135828.	0.00
16.2000	-2.60E-09	0.08941	-0.04613	-3.14E-08	0.5270	2850053.	0.00177	135828.	0.00
16.4000	-8.26E-09	0.08022	-0.04539	-2.55E-08	0.4729	2850053.	0.00561	135828.	0.00
16.6000	-1.28E-08	0.07125	-0.04396	-2.02E-08	0.4200	2850053.	0.00869	135828.	0.00
16.8000	-1.63E-08	0.06264	-0.04199	-1.55E-08	0.3692	2850053.	0.01109	135828.	0.00
17.0000	-1.90E-08	0.05446	-0.03959	-1.14E-08	0.3210	2850053.	0.01290	135828.	0.00
17.2000	-2.09E-08	0.04680	-0.03688	-7.82E-09	0.2759	2850053.	0.01418	135828.	0.00
17.4000	-2.21E-08	0.03971	-0.03396	-4.78E-09	0.2341	2850053.	0.01502	135828.	0.00
17.6000	-2.28E-08	0.03322	-0.03091	-2.22E-09	0.1958	2850053.	0.01548	135828.	0.00
17.8000	-2.30E-08	0.02735	-0.02780	-9.89E-11	0.1612	2850053.	0.01563	135828.	0.00
18.0000	-2.28E-08	0.02210	-0.02468	1.64E-09	0.1303	2850053.	0.01551	135828.	0.00
18.2000	-2.24E-08	0.01747	-0.02161	3.02E-09	0.1030	2850053.	0.01518	135828.	0.00
18.4000	-2.16E-08	0.01345	-0.01863	4.11E-09	0.07931	2850053.	0.01469	135828.	0.00
18.6000	-2.07E-08	0.01002	-0.01575	4.93E-09	0.05908	2850053.	0.01407	135828.	0.00
18.8000	-1.97E-08	0.00715	-0.01301	5.54E-09	0.04217	2850053.	0.01335	135828.	0.00
19.0000	-1.85E-08	0.00482	-0.01042	5.96E-09	0.02840	2850053.	0.01256	135828.	0.00
19.2000	-1.73E-08	0.00299	-0.00799	6.23E-09	0.01760	2850053.	0.01173	135828.	0.00
19.4000	-1.60E-08	0.00162	-0.00573	6.39E-09	0.00956	2850053.	0.01087	135828.	0.00
19.6000	-1.47E-08	6.93E-04	-0.00364	6.47E-09	0.00409	2850053.	0.00999	135828.	0.00
19.8000	-1.34E-08	1.65E-04	-0.00173	6.50E-09	9.70E-04	2850053.	0.00911	135828.	0.00
20.0000	-1.21E-08	0.00	0.00	6.51E-09	0.00	2850053.	0.00823	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 1:

Pile-head deflection = 0.00055242 meters
Computed slope at pile head = -0.00019834 radians
Maximum bending moment = 143.99087283 kN-m

Maximum shear force = 100.00000000 kN

Depth of maximum bending moment = 2.40000000 meters below pile head

Depth of maximum shear force = 0.000000 meters below pile head

Number of iterations = 9

Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 2

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 125.000 kN

Applied moment at pile head = 0.000 kN-m

Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	7.41E-04	-3.86E-11	125.0000	-2.60E-04	2.28E-10	2850053.	0.00	0.00	0.00
0.2000	6.89E-04	25.0000	123.1311	-2.59E-04	147.3657	2850053.	-18.6891	5429.	0.00
0.4000	6.37E-04	49.2524	117.8049	-2.57E-04	290.3248	2850053.	-34.5724	10858.	0.00
0.6000	5.86E-04	72.1220	109.9333	-2.52E-04	425.1322	2850053.	-44.1442	15071.	0.00
0.8000	5.36E-04	93.2257	100.6979	-2.47E-04	549.5310	2850053.	-48.2100	17994.	0.00
1.0000	4.87E-04	112.4011	90.7088	-2.39E-04	662.5627	2850053.	-51.6808	21217.	0.00
1.2000	4.40E-04	129.5092	80.0858	-2.31E-04	763.4088	2850053.	-54.5487	24790.	0.00
1.4000	3.95E-04	144.4354	68.9501	-2.21E-04	851.3931	2850053.	-56.8089	28778.	0.00
1.6000	3.52E-04	157.0893	57.4232	-2.11E-04	925.9828	2850053.	-58.4597	33258.	0.00
1.8000	3.11E-04	167.4047	45.6271	-1.99E-04	986.7885	2850053.	-59.5018	38325.	0.00
2.0000	2.72E-04	175.3401	33.6831	-1.87E-04	1034.	2850053.	-59.9380	44102.	0.00
2.2000	2.36E-04	180.8779	21.7120	-1.75E-04	1066.	2850053.	-59.7727	50745.	0.00
2.4000	2.02E-04	184.0249	9.8337	-1.62E-04	1085.	2850053.	-59.0107	58459.	0.00
2.6000	1.71E-04	184.8114	-1.8330	-1.49E-04	1089.	2850053.	-57.6559	67523.	0.00
2.8000	1.42E-04	183.2917	-13.0047	-1.36E-04	1080.	2850053.	-54.0612	76005.	0.00
3.0000	1.16E-04	179.6095	-23.1466	-1.23E-04	1059.	2850053.	-47.3582	81434.	0.00
3.2000	9.29E-05	174.0330	-31.9166	-1.11E-04	1026.	2850053.	-40.3413	86863.	0.00
3.4000	7.19E-05	166.8429	-39.2687	-9.91E-05	983.4767	2850053.	-33.1799	92292.	0.00
3.6000	5.33E-05	158.3256	-44.1284	-8.77E-05	933.2702	2850053.	-15.4168	57892.	0.00
3.8000	3.68E-05	149.1915	-46.4868	-7.69E-05	879.4286	2850053.	-8.1678	44340.	0.00
4.0000	2.25E-05	139.7308	-48.0173	-6.67E-05	823.6611	2850053.	-7.1366	63391.	0.00

4.2000	1.02E-05	129.9846	-49.2941	-5.73E-05	766.2110	2850053.	-5.6314	110942.	0.00
4.4000	-3.88E-07	120.0132	-49.8487	-4.85E-05	707.4330	2850053.	0.08506	43839.	0.00
4.6000	-9.24E-06	110.0451	-49.2650	-4.04E-05	648.6751	2850053.	5.7522	124457.	0.00
4.8000	-1.66E-05	100.3072	-47.9726	-3.30E-05	591.2735	2850053.	7.1722	86648.	0.00
5.0000	-2.25E-05	90.8561	-46.4409	-2.63E-05	535.5630	2850053.	8.1445	72531.	0.00
5.2000	-2.71E-05	81.7308	-44.7377	-2.03E-05	481.7728	2850053.	8.8869	65619.	0.00
5.4000	-3.06E-05	72.9610	-42.9012	-1.48E-05	430.0781	2850053.	9.4786	62018.	0.00
5.6000	-3.30E-05	64.5704	-40.9575	-1.00E-05	380.6182	2850053.	9.9580	60307.	0.00
5.8000	-3.46E-05	56.5780	-38.9271	-5.77E-06	333.5063	2850053.	10.3470	59852.	0.00
6.0000	-3.53E-05	48.9995	-36.8265	-2.06E-06	288.8340	2850053.	10.6590	60336.	0.00
6.2000	-3.54E-05	41.8474	-34.6702	1.12E-06	246.6750	2850053.	10.9032	61598.	0.00
6.4000	-3.49E-05	35.1314	-32.4713	3.82E-06	207.0868	2850053.	11.0857	63560.	0.00
6.6000	-3.39E-05	28.8589	-30.2416	6.07E-06	170.1124	2850053.	11.2112	66198.	0.00
6.8000	-3.25E-05	23.0348	-27.9922	7.89E-06	135.7815	2850053.	11.2831	69530.	0.00
7.0000	-3.07E-05	17.6620	-25.7335	9.32E-06	104.1109	2850053.	11.3038	73603.	0.00
7.2000	-2.87E-05	12.7414	-23.4756	1.04E-05	75.1057	2850053.	11.2757	78499.	0.00
7.4000	-2.66E-05	8.2718	-21.2280	1.11E-05	48.7590	2850053.	11.2001	84332.	0.00
7.6000	-2.43E-05	4.2502	-19.0001	1.16E-05	25.0532	2850053.	11.0786	91259.	0.00
7.8000	-2.19E-05	0.6717	-16.8010	1.17E-05	3.9595	2850053.	10.9122	99485.	0.00
8.0000	-1.96E-05	-2.4702	-14.6396	1.17E-05	14.5612	2850053.	10.7019	109281.	0.00
8.2000	-1.73E-05	-5.1841	-12.5246	1.14E-05	30.5586	2850053.	10.4484	121007.	0.00
8.4000	-1.50E-05	-7.4801	-10.4645	1.10E-05	44.0924	2850053.	10.1525	135140.	0.00
8.6000	-1.29E-05	-9.3699	-8.4678	1.04E-05	55.2324	2850053.	9.8146	152330.	0.00
8.8000	-1.09E-05	-10.8672	-6.5428	9.66E-06	64.0582	2850053.	9.4354	173469.	0.00
9.0000	-9.02E-06	-11.9871	-4.5950	8.85E-06	70.6593	2850053.	10.0425	222589.	0.00
9.2000	-7.34E-06	-12.7052	-2.6535	7.99E-06	74.8926	2850053.	9.3723	255495.	0.00
9.4000	-5.83E-06	-13.0485	-0.8484	7.08E-06	76.9160	2850053.	8.6792	297843.	0.00
9.6000	-4.50E-06	-13.0446	0.8159	6.17E-06	76.8930	2850053.	7.9634	353715.	0.00
9.8000	-3.36E-06	-12.7221	2.3345	5.27E-06	74.9923	2850053.	7.2233	429906.	0.00
10.0000	-2.40E-06	-12.1108	3.7024	4.39E-06	71.3885	2850053.	6.4555	538705.	0.00
10.2000	-1.60E-06	-11.2412	4.9132	3.57E-06	66.2625	2850053.	5.6521	705226.	0.00
10.4000	-9.67E-07	-10.1455	5.9580	2.82E-06	59.8039	2850053.	4.7961	992023.	0.00
10.6000	-4.73E-07	-8.8580	6.4564	2.16E-06	52.2144	2850053.	0.1875	79233.	0.00
10.8000	-1.04E-07	-7.5629	6.4792	1.58E-06	44.5807	2850053.	0.04122	79233.	0.00
11.0000	1.59E-07	-6.2663	6.4771	1.10E-06	36.9373	2850053.	-0.06303	79233.	0.00
11.2000	3.34E-07	-4.9721	6.4506	7.02E-07	29.3088	2850053.	-0.2018	120736.	0.00
11.4000	4.40E-07	-3.6860	5.9539	3.98E-07	21.7278	2850053.	-4.7650	2167437.	0.00
11.6000	4.93E-07	-2.5906	4.9807	1.77E-07	15.2704	2850053.	-4.9672	2013595.	0.00
11.8000	5.11E-07	-1.6938	3.9788	2.72E-08	9.9841	2850053.	-5.0516	1978367.	0.00
12.0000	5.04E-07	-0.9990	2.9648	-6.73E-08	5.8889	2850053.	-5.0883	2018223.	0.00
12.2000	4.84E-07	-0.5078	1.9436	-1.20E-07	2.9935	2850053.	-5.1242	2118515.	0.00
12.4000	4.56E-07	-0.2216	0.9118	-1.46E-07	1.3063	2850053.	-5.1940	2277284.	0.00
12.6000	4.25E-07	-0.1431	0.3635	-1.59E-07	0.8437	2850053.	-0.2889	135828.	0.00
12.8000	3.93E-07	-0.07622	0.3079	-1.66E-07	0.4493	2850053.	-0.2667	135828.	0.00

13.0000	3.59E-07	-0.01998	0.2569	-1.70E-07	0.1177	2850053.	-0.2438	135828.	0.00
13.2000	3.25E-07	0.02652	0.2104	-1.69E-07	0.1563	2850053.	-0.2206	135828.	0.00
13.4000	2.91E-07	0.06419	0.1686	-1.66E-07	0.3784	2850053.	-0.1977	135828.	0.00
13.6000	2.58E-07	0.09395	0.1313	-1.61E-07	0.5538	2850053.	-0.1755	135828.	0.00
13.8000	2.27E-07	0.1167	0.09830	-1.53E-07	0.6879	2850053.	-0.1541	135828.	0.00
14.0000	1.97E-07	0.1333	0.06951	-1.45E-07	0.7856	2850053.	-0.1338	135828.	0.00
14.2000	1.69E-07	0.1445	0.04465	-1.35E-07	0.8518	2850053.	-0.1148	135828.	0.00
14.4000	1.43E-07	0.1511	0.02345	-1.24E-07	0.8909	2850053.	-0.09720	135828.	0.00
14.6000	1.19E-07	0.1539	0.00563	-1.14E-07	0.9071	2850053.	-0.08102	135828.	0.00
14.8000	9.76E-08	0.1534	-0.00911	-1.03E-07	0.9041	2850053.	-0.06631	135828.	0.00
15.0000	7.81E-08	0.1502	-0.02104	-9.23E-08	0.8856	2850053.	-0.05306	135828.	0.00
15.2000	6.07E-08	0.1450	-0.03047	-8.19E-08	0.8545	2850053.	-0.04124	135828.	0.00
15.4000	4.54E-08	0.1380	-0.03768	-7.20E-08	0.8137	2850053.	-0.03081	135828.	0.00
15.6000	3.19E-08	0.1299	-0.04293	-6.26E-08	0.7657	2850053.	-0.02168	135828.	0.00
15.8000	2.03E-08	0.1209	-0.04648	-5.38E-08	0.7125	2850053.	-0.01380	135828.	0.00
16.0000	1.04E-08	0.1113	-0.04856	-4.56E-08	0.6561	2850053.	-0.00707	135828.	0.00
16.2000	2.06E-09	0.1014	-0.04941	-3.82E-08	0.5980	2850053.	-0.00140	135828.	0.00
16.4000	-4.86E-09	0.09154	-0.04922	-3.14E-08	0.5396	2850053.	0.00330	135828.	0.00
16.6000	-1.05E-08	0.08176	-0.04818	-2.53E-08	0.4819	2850053.	0.00713	135828.	0.00
16.8000	-1.50E-08	0.07227	-0.04645	-1.99E-08	0.4260	2850053.	0.01018	135828.	0.00
17.0000	-1.85E-08	0.06318	-0.04418	-1.52E-08	0.3724	2850053.	0.01254	135828.	0.00
17.2000	-2.11E-08	0.05460	-0.04149	-1.10E-08	0.3218	2850053.	0.01430	135828.	0.00
17.4000	-2.29E-08	0.04658	-0.03851	-7.49E-09	0.2746	2850053.	0.01554	135828.	0.00
17.6000	-2.41E-08	0.03919	-0.03532	-4.48E-09	0.2310	2850053.	0.01634	135828.	0.00
17.8000	-2.47E-08	0.03246	-0.03201	-1.97E-09	0.1913	2850053.	0.01676	135828.	0.00
18.0000	-2.48E-08	0.02639	-0.02865	9.87E-11	0.1556	2850053.	0.01687	135828.	0.00
18.2000	-2.46E-08	0.02100	-0.02529	1.76E-09	0.1238	2850053.	0.01673	135828.	0.00
18.4000	-2.41E-08	0.01628	-0.02197	3.07E-09	0.09594	2850053.	0.01639	135828.	0.00
18.6000	-2.34E-08	0.01221	-0.01874	4.07E-09	0.07197	2850053.	0.01590	135828.	0.00
18.8000	-2.25E-08	0.00878	-0.01563	4.81E-09	0.05175	2850053.	0.01529	135828.	0.00
19.0000	-2.15E-08	0.00596	-0.01264	5.32E-09	0.03513	2850053.	0.01459	135828.	0.00
19.2000	-2.04E-08	0.00372	-0.00979	5.66E-09	0.02195	2850053.	0.01384	135828.	0.00
19.4000	-1.92E-08	0.00204	-0.00710	5.86E-09	0.01204	2850053.	0.01305	135828.	0.00
19.6000	-1.80E-08	8.82E-04	-0.00457	5.97E-09	0.00520	2850053.	0.01225	135828.	0.00
19.8000	-1.68E-08	2.12E-04	-0.00221	6.01E-09	0.00125	2850053.	0.01143	135828.	0.00
20.0000	-1.56E-08	0.00	0.00	6.01E-09	0.00	2850053.	0.01062	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 2:

Pile-head deflection = 0.00074053 meters

Computed slope at pile head = -0.00026017 radians

Maximum bending moment = 184.81141225 kN-m

Maximum shear force = 125.00000000 kN

Depth of maximum bending moment = 2.60000000 meters below pile head

Depth of maximum shear force = 0.000000 meters below pile head

Number of iterations = 22

Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 3

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 170.000 kN

Applied moment at pile head = 0.000 kN-m

Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00114	0.00	170.0000	-3.84E-04	0.00	2850053.	0.00	0.00	0.00
0.2000	0.00107	34.0000	167.1084	-3.83E-04	200.4173	2850053.	-28.9165	5429.	0.00
0.4000	9.89E-04	66.8433	159.2945	-3.79E-04	394.0166	2850053.	-49.2220	9954.	0.00
0.6000	9.14E-04	97.7178	148.8590	-3.73E-04	576.0100	2850053.	-55.1333	12069.	0.00
0.8000	8.40E-04	126.3869	137.3102	-3.65E-04	745.0039	2850053.	-60.3542	14376.	0.00
1.0000	7.67E-04	152.6419	124.7877	-3.56E-04	899.7671	2850053.	-64.8713	16906.	0.00
1.2000	6.97E-04	176.3020	111.4331	-3.44E-04	1039.	2850053.	-68.6747	19696.	0.00
1.4000	6.30E-04	197.2151	97.3898	-3.31E-04	1163.	2850053.	-71.7579	22789.	0.00
1.6000	5.65E-04	215.2579	82.8023	-3.17E-04	1269.	2850053.	-74.1174	26239.	0.00
1.8000	5.03E-04	230.3360	67.8153	-3.01E-04	1358.	2850053.	-75.7527	30113.	0.00
2.0000	4.45E-04	242.3840	52.5734	-2.84E-04	1429.	2850053.	-76.6659	34491.	0.00
2.2000	3.89E-04	251.3654	37.2208	-2.67E-04	1482.	2850053.	-76.8606	39478.	0.00
2.4000	3.38E-04	257.2723	21.9005	-2.49E-04	1517.	2850053.	-76.3417	45208.	0.00
2.6000	2.90E-04	260.1256	6.7550	-2.31E-04	1533.	2850053.	-75.1137	51855.	0.00
2.8000	2.45E-04	259.9743	-8.0743	-2.13E-04	1532.	2850053.	-73.1790	59659.	0.00
3.0000	2.05E-04	256.8959	-22.4457	-1.95E-04	1514.	2850053.	-70.5351	68952.	0.00
3.2000	1.67E-04	250.9960	-36.2162	-1.77E-04	1480.	2850053.	-67.1703	80221.	0.00
3.4000	1.34E-04	242.4094	-49.1103	-1.60E-04	1429.	2850053.	-61.7702	92292.	0.00
3.6000	1.04E-04	231.3519	-57.2137	-1.43E-04	1364.	2850053.	-19.2639	37169.	0.00
3.8000	7.67E-05	219.5239	-60.1842	-1.27E-04	1294.	2850053.	-10.4405	27224.	0.00

4.0000	5.28E-05	207.2782	-62.1779	-1.12E-04	1222.	2850053.	-9.4967	35956.	0.00
4.2000	3.19E-05	194.6527	-63.9538	-9.80E-05	1147.	2850053.	-8.2625	51869.	0.00
4.4000	1.36E-05	181.6967	-65.4223	-8.48E-05	1071.	2850053.	-6.4224	94272.	0.00
4.6000	-2.06E-06	168.4838	-65.7298	-7.25E-05	993.1494	2850053.	3.3473	325245.	0.00
4.8000	-1.54E-05	155.4048	-64.6988	-6.11E-05	916.0535	2850053.	6.9627	90557.	0.00
5.0000	-2.65E-05	142.6043	-63.1441	-5.07E-05	840.5993	2850053.	8.5844	64750.	0.00
5.2000	-3.57E-05	130.1472	-61.3136	-4.11E-05	767.1691	2850053.	9.7205	54530.	0.00
5.4000	-4.30E-05	118.0789	-59.2814	-3.24E-05	696.0309	2850053.	10.6013	49352.	0.00
5.6000	-4.86E-05	106.4346	-57.0899	-2.45E-05	627.3923	2850053.	11.3136	46544.	0.00
5.8000	-5.28E-05	95.2429	-54.7686	-1.75E-05	561.4213	2850053.	11.9002	45099.	0.00
6.0000	-5.56E-05	84.5272	-52.3400	-1.11E-05	498.2562	2850053.	12.3857	44556.	0.00
6.2000	-5.72E-05	74.3069	-49.8229	-5.57E-06	438.0114	2850053.	12.7853	44679.	0.00
6.4000	-5.78E-05	64.5980	-47.2334	-6.99E-07	380.7813	2850053.	13.1094	45342.	0.00
6.6000	-5.75E-05	55.4135	-44.5860	3.51E-06	326.6421	2850053.	13.3650	46478.	0.00
6.8000	-5.64E-05	46.7636	-41.8938	7.10E-06	275.6542	2850053.	13.5573	48059.	0.00
7.0000	-5.47E-05	38.6560	-39.1690	1.01E-05	227.8629	2850053.	13.6903	50081.	0.00
7.2000	-5.24E-05	31.0960	-36.4233	1.25E-05	183.2995	2850053.	13.7669	52563.	0.00
7.4000	-4.97E-05	24.0867	-33.6676	1.45E-05	141.9822	2850053.	13.7894	55540.	0.00
7.6000	-4.66E-05	17.6290	-30.9127	1.59E-05	103.9162	2850053.	13.7597	59066.	0.00
7.8000	-4.33E-05	11.7216	-28.1688	1.70E-05	69.0946	2850053.	13.6793	63215.	0.00
8.0000	-3.98E-05	6.3614	-25.4460	1.76E-05	37.4983	2850053.	13.5494	68084.	0.00
8.2000	-3.62E-05	1.5432	-22.7539	1.79E-05	9.0967	2850053.	13.3711	73800.	0.00
8.4000	-3.26E-05	-2.7401	-20.1023	1.78E-05	16.1521	2850053.	13.1454	80526.	0.00
8.6000	-2.91E-05	-6.4977	-17.5004	1.75E-05	38.3014	2850053.	12.8730	88475.	0.00
8.8000	-2.56E-05	-9.7403	-14.9577	1.69E-05	57.4155	2850053.	12.5546	97923.	0.00
9.0000	-2.23E-05	-12.4808	-12.3442	1.62E-05	73.5694	2850053.	13.5806	121686.	0.00
9.2000	-1.92E-05	-14.6780	-9.6950	1.52E-05	86.5212	2850053.	12.9105	134662.	0.00
9.4000	-1.62E-05	-16.3588	-7.1825	1.41E-05	96.4289	2850053.	12.2145	150475.	0.00
9.6000	-1.35E-05	-17.5510	-4.8117	1.29E-05	103.4566	2850053.	11.4941	169977.	0.00
9.8000	-1.11E-05	-18.2835	-2.5873	1.17E-05	107.7741	2850053.	10.7502	194394.	0.00
10.0000	-8.85E-06	-18.5859	-0.5139	1.04E-05	109.5569	2850053.	9.9832	225541.	0.00
10.2000	-6.91E-06	-18.4890	1.4037	9.08E-06	108.9859	2850053.	9.1928	266223.	0.00
10.4000	-5.22E-06	-18.0244	3.1607	7.80E-06	106.2473	2850053.	8.3769	321017.	0.00
10.6000	-3.78E-06	-17.2248	4.7514	6.57E-06	101.5335	2850053.	7.5309	397955.	0.00
10.8000	-2.59E-06	-16.1238	6.1690	5.40E-06	95.0441	2850053.	6.6451	512663.	0.00
11.0000	-1.63E-06	-14.7571	7.4033	4.31E-06	86.9879	2850053.	5.6980	700752.	0.00
11.2000	-8.67E-07	-13.1625	8.5563	3.33E-06	77.5881	2850053.	5.8314	1344782.	0.00
11.4000	-2.93E-07	-11.3346	9.1593	2.47E-06	66.8134	2850053.	0.1990	135828.	0.00
11.6000	1.22E-07	-9.4988	9.1709	1.74E-06	55.9918	2850053.	-0.08300	135828.	0.00
11.8000	4.04E-07	-7.6663	9.1352	1.14E-06	45.1898	2850053.	-0.2744	135828.	0.00
12.0000	5.78E-07	-5.8447	8.5335	6.66E-07	34.4524	2850053.	-5.7427	1985795.	0.00
12.2000	6.71E-07	-4.2529	7.3505	3.12E-07	25.0691	2850053.	-6.0868	1815240.	0.00
12.4000	7.03E-07	-2.9045	6.1162	6.09E-08	17.1210	2850053.	-6.2569	1779560.	0.00
12.6000	6.95E-07	-1.8064	4.8569	-1.04E-07	10.6481	2850053.	-6.3353	1823102.	0.00

12.8000	6.61E-07	-0.9617	3.5859	-2.01E-07	5.6691	2850053.	-6.3750	1927583.	0.00
13.0000	6.14E-07	-0.3721	2.3068	-2.48E-07	2.1931	2850053.	-6.4159	2088495.	0.00
13.2000	5.62E-07	-0.03900	1.0165	-2.63E-07	0.2299	2850053.	-6.4876	2308219.	0.00
13.4000	5.09E-07	0.03454	0.3331	-2.63E-07	0.2036	2850053.	-0.3459	135828.	0.00
13.6000	4.57E-07	0.09425	0.2675	-2.58E-07	0.5555	2850053.	-0.3104	135828.	0.00
13.8000	4.06E-07	0.1415	0.2089	-2.50E-07	0.8343	2850053.	-0.2757	135828.	0.00
14.0000	3.57E-07	0.1778	0.1571	-2.39E-07	1.0481	2850053.	-0.2424	135828.	0.00
14.2000	3.10E-07	0.2044	0.1118	-2.25E-07	1.2047	2850053.	-0.2108	135828.	0.00
14.4000	2.67E-07	0.2225	0.07255	-2.10E-07	1.3116	2850053.	-0.1812	135828.	0.00
14.6000	2.26E-07	0.2334	0.03907	-1.94E-07	1.3757	2850053.	-0.1536	135828.	0.00
14.8000	1.89E-07	0.2381	0.01088	-1.78E-07	1.4037	2850053.	-0.1283	135828.	0.00
15.0000	1.55E-07	0.2377	-0.01249	-1.61E-07	1.4014	2850053.	-0.1053	135828.	0.00
15.2000	1.24E-07	0.2331	-0.03147	-1.45E-07	1.3742	2850053.	-0.08453	135828.	0.00
15.4000	9.72E-08	0.2252	-0.04652	-1.29E-07	1.3272	2850053.	-0.06598	135828.	0.00
15.6000	7.30E-08	0.2145	-0.05808	-1.13E-07	1.2646	2850053.	-0.04958	135828.	0.00
15.8000	5.19E-08	0.2019	-0.06656	-9.86E-08	1.1902	2850053.	-0.03522	135828.	0.00
16.0000	3.36E-08	0.1879	-0.07236	-8.49E-08	1.1076	2850053.	-0.02279	135828.	0.00
16.2000	1.79E-08	0.1730	-0.07586	-7.23E-08	1.0196	2850053.	-0.01215	135828.	0.00
16.4000	4.65E-09	0.1576	-0.07739	-6.07E-08	0.9288	2850053.	-0.00316	135828.	0.00
16.6000	-6.38E-09	0.1420	-0.07727	-5.02E-08	0.8372	2850053.	0.00433	135828.	0.00
16.8000	-1.54E-08	0.1267	-0.07579	-4.07E-08	0.7466	2850053.	0.01047	135828.	0.00
17.0000	-2.27E-08	0.1117	-0.07320	-3.24E-08	0.6585	2850053.	0.01540	135828.	0.00
17.2000	-2.84E-08	0.09737	-0.06974	-2.50E-08	0.5740	2850053.	0.01926	135828.	0.00
17.4000	-3.27E-08	0.08381	-0.06559	-1.87E-08	0.4940	2850053.	0.02220	135828.	0.00
17.6000	-3.58E-08	0.07114	-0.06094	-1.32E-08	0.4193	2850053.	0.02434	135828.	0.00
17.8000	-3.80E-08	0.05943	-0.05593	-8.66E-09	0.3503	2850053.	0.02580	135828.	0.00
18.0000	-3.93E-08	0.04877	-0.05068	-4.87E-09	0.2875	2850053.	0.02669	135828.	0.00
18.2000	-3.99E-08	0.03916	-0.04530	-1.78E-09	0.2309	2850053.	0.02712	135828.	0.00
18.4000	-4.00E-08	0.03065	-0.03987	6.69E-10	0.1807	2850053.	0.02717	135828.	0.00
18.6000	-3.97E-08	0.02322	-0.03446	2.56E-09	0.1369	2850053.	0.02694	135828.	0.00
18.8000	-3.90E-08	0.01686	-0.02912	3.97E-09	0.09941	2850053.	0.02648	135828.	0.00
19.0000	-3.81E-08	0.01157	-0.02388	4.96E-09	0.06820	2850053.	0.02586	135828.	0.00
19.2000	-3.70E-08	0.00731	-0.01878	5.63E-09	0.04310	2850053.	0.02513	135828.	0.00
19.4000	-3.58E-08	0.00406	-0.01384	6.02E-09	0.02392	2850053.	0.02433	135828.	0.00
19.6000	-3.46E-08	0.00178	-0.00905	6.23E-09	0.01047	2850053.	0.02349	135828.	0.00
19.8000	-3.33E-08	4.36E-04	-0.00444	6.31E-09	0.00257	2850053.	0.02264	135828.	0.00
20.0000	-3.21E-08	0.00	0.00	6.32E-09	0.00	2850053.	0.02178	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 3:

Pile-head deflection = 0.00114204 meters

Computed slope at pile head = -0.00038386 radians

Maximum bending moment = 260.12558876 kN-m

Maximum shear force = 170.00000000 kN

Depth of maximum bending moment = 2.60000000 meters below pile head

Depth of maximum shear force = 0.000000 meters below pile head

Number of iterations = 10

Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 4

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 210.000 kN

Applied moment at pile head = 0.000 kN-m

Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00156	-1.39E-10	210.0000	-5.05E-04	8.20E-10	2850053.	0.00	0.00	0.00
0.2000	0.00146	42.0000	206.0290	-5.04E-04	247.5744	2850053.	-39.7101	5429.	0.00
0.4000	0.00136	82.4116	196.2808	-4.99E-04	485.7857	2850053.	-57.7722	8480.	0.00
0.6000	0.00126	120.5123	184.0208	-4.92E-04	710.3751	2850053.	-64.8273	10264.	0.00
0.8000	0.00117	156.0199	170.4270	-4.82E-04	919.6793	2850053.	-71.1105	12201.	0.00
1.0000	0.00107	188.6831	155.6553	-4.70E-04	1112.	2850053.	-76.6071	14315.	0.00
1.2000	9.78E-04	218.2820	139.8639	-4.56E-04	1287.	2850053.	-81.3063	16634.	0.00
1.4000	8.88E-04	244.6287	123.2132	-4.40E-04	1442.	2850053.	-85.2008	19191.	0.00
1.6000	8.02E-04	267.5673	105.8644	-4.22E-04	1577.	2850053.	-88.2870	22025.	0.00
1.8000	7.19E-04	286.9745	87.9793	-4.02E-04	1692.	2850053.	-90.5645	25185.	0.00
2.0000	6.41E-04	302.7590	69.7193	-3.82E-04	1785.	2850053.	-92.0355	28727.	0.00
2.2000	5.67E-04	314.8622	51.2453	-3.60E-04	1856.	2850053.	-92.7049	32725.	0.00
2.4000	4.97E-04	323.2571	32.7169	-3.38E-04	1905.	2850053.	-92.5790	37271.	0.00
2.6000	4.32E-04	327.9489	14.2925	-3.15E-04	1933.	2850053.	-91.6646	42482.	0.00
2.8000	3.71E-04	328.9741	-3.8707	-2.92E-04	1939.	2850053.	-89.9677	48513.	0.00
3.0000	3.15E-04	326.4006	-21.6166	-2.69E-04	1924.	2850053.	-87.4909	55571.	0.00
3.2000	2.63E-04	320.3275	-38.7887	-2.46E-04	1888.	2850053.	-84.2304	63946.	0.00
3.4000	2.16E-04	310.8851	-55.2288	-2.24E-04	1833.	2850053.	-80.1701	74061.	0.00
3.6000	1.74E-04	298.2360	-65.5338	-2.02E-04	1758.	2850053.	-22.8799	26312.	0.00

3.8000	1.36E-04	284.6716	-69.0831	-1.82E-04	1678.	2850053.	-12.6135	18615.	0.00
4.0000	1.01E-04	270.6027	-71.5224	-1.63E-04	1595.	2850053.	-11.7796	23298.	0.00
4.2000	7.05E-05	256.0627	-73.7752	-1.44E-04	1509.	2850053.	-10.7481	30484.	0.00
4.4000	4.35E-05	241.0927	-75.7910	-1.27E-04	1421.	2850053.	-9.4103	43259.	0.00
4.6000	1.99E-05	225.7463	-77.4779	-1.10E-04	1331.	2850053.	-7.4586	75031.	0.00
4.8000	-5.75E-07	210.1015	-78.0141	-9.49E-05	1238.	2850053.	2.0967	728812.	0.00
5.0000	-1.81E-05	194.5406	-77.0492	-8.07E-05	1147.	2850053.	7.5522	83525.	0.00
5.2000	-3.29E-05	179.2818	-75.3477	-6.76E-05	1057.	2850053.	9.4630	57593.	0.00
5.4000	-4.51E-05	164.4015	-73.3233	-5.55E-05	969.0858	2850053.	10.7811	47785.	0.00
5.6000	-5.51E-05	149.9525	-71.0652	-4.45E-05	883.9141	2850053.	11.7999	42848.	0.00
5.8000	-6.29E-05	135.9755	-68.6227	-3.45E-05	801.5247	2850053.	12.6251	40126.	0.00
6.0000	-6.89E-05	122.5034	-66.0294	-2.54E-05	722.1120	2850053.	13.3081	38647.	0.00
6.2000	-7.31E-05	109.5637	-63.3108	-1.73E-05	645.8372	2850053.	13.8777	37974.	0.00
6.4000	-7.58E-05	97.1791	-60.4879	-1.00E-05	572.8345	2850053.	14.3520	37880.	0.00
6.6000	-7.71E-05	85.3686	-57.5784	-3.61E-06	503.2159	2850053.	14.7429	38246.	0.00
6.8000	-7.72E-05	74.1477	-54.5982	1.99E-06	437.0733	2850053.	15.0587	39003.	0.00
7.0000	-7.63E-05	63.5293	-51.5618	6.82E-06	374.4814	2850053.	15.3055	40119.	0.00
7.2000	-7.45E-05	53.5230	-48.4824	1.09E-05	315.4984	2850053.	15.4877	41583.	0.00
7.4000	-7.19E-05	44.1363	-45.3728	1.44E-05	260.1671	2850053.	15.6087	43400.	0.00
7.6000	-6.87E-05	35.3739	-42.2448	1.71E-05	208.5160	2850053.	15.6712	45590.	0.00
7.8000	-6.51E-05	27.2384	-39.1100	1.93E-05	160.5601	2850053.	15.6772	48184.	0.00
8.0000	-6.10E-05	19.7299	-35.9794	2.10E-05	116.3005	2850053.	15.6284	51230.	0.00
8.2000	-5.67E-05	12.8466	-32.8640	2.21E-05	75.7259	2850053.	15.5263	54790.	0.00
8.4000	-5.22E-05	6.5843	-29.7741	2.28E-05	38.8122	2850053.	15.3720	58942.	0.00
8.6000	-4.76E-05	0.9370	-26.7203	2.31E-05	5.5230	2850053.	15.1665	63791.	0.00
8.8000	-4.29E-05	-4.1038	-23.7125	2.30E-05	24.1902	2850053.	14.9106	69467.	0.00
9.0000	-3.84E-05	-8.5481	-20.5945	2.25E-05	50.3877	2850053.	16.2698	84817.	0.00
9.2000	-3.39E-05	-12.3416	-17.4061	2.18E-05	72.7489	2850053.	15.6145	92067.	0.00
9.4000	-2.96E-05	-15.5105	-14.3518	2.08E-05	91.4286	2850053.	14.9281	100700.	0.00
9.6000	-2.56E-05	-18.0823	-11.4378	1.96E-05	106.5884	2850053.	14.2124	111056.	0.00
9.8000	-2.18E-05	-20.0856	-8.6696	1.83E-05	118.3971	2850053.	13.4689	123595.	0.00
10.0000	-1.83E-05	-21.5501	-6.0529	1.68E-05	127.0301	2850053.	12.6984	138952.	0.00
10.2000	-1.51E-05	-22.5068	-3.5929	1.53E-05	132.6690	2850053.	11.9014	158033.	0.00
10.4000	-1.22E-05	-22.9873	-1.2950	1.37E-05	135.5016	2850053.	11.0776	182162.	0.00
10.6000	-9.59E-06	-23.0248	0.8353	1.21E-05	135.7224	2850053.	10.2255	213355.	0.00
10.8000	-7.33E-06	-22.6532	2.7920	1.05E-05	133.5321	2850053.	9.3419	254837.	0.00
11.0000	-5.40E-06	-21.9079	4.5683	8.91E-06	129.1392	2850053.	8.4206	312117.	0.00
11.2000	-3.77E-06	-20.8259	6.3474	7.41E-06	122.7608	2850053.	9.3708	497465.	0.00
11.4000	-2.43E-06	-19.3690	8.1908	6.00E-06	114.1729	2850053.	9.0634	745559.	0.00
11.6000	-1.37E-06	-17.5495	9.8368	4.71E-06	103.4480	2850053.	7.3964	1082090.	0.00
11.8000	-5.49E-07	-15.4342	11.1023	3.55E-06	90.9791	2850053.	5.2579	1915068.	0.00
12.0000	5.22E-08	-13.1086	11.6245	2.55E-06	77.2705	2850053.	-0.03547	135828.	0.00
12.2000	4.70E-07	-10.7844	11.5891	1.71E-06	63.5703	2850053.	-0.3189	135828.	0.00
12.4000	7.36E-07	-8.4730	10.9121	1.03E-06	49.9453	2850053.	-6.4504	1753836.	0.00

12.6000	8.83E-07	-6.4196	9.5905	5.10E-07	37.8411	2850053.	-6.7664	1533195.	0.00
12.8000	9.40E-07	-4.6368	8.2281	1.22E-07	27.3324	2850053.	-6.8576	1459641.	0.00
13.0000	9.32E-07	-3.1284	6.8621	-1.50E-07	18.4406	2850053.	-6.8015	1460264.	0.00
13.2000	8.80E-07	-1.8920	5.5177	-3.26E-07	11.1525	2850053.	-6.6431	1510593.	0.00
13.4000	8.01E-07	-0.9213	4.2121	-4.25E-07	5.4307	2850053.	-6.4132	1601329.	0.00
13.6000	7.09E-07	-0.2071	2.9573	-4.65E-07	1.2210	2850053.	-6.1344	1729235.	0.00
13.8000	6.15E-07	0.2616	1.7614	-4.63E-07	1.5422	2850053.	-5.8246	1893872.	0.00
14.0000	5.24E-07	0.4974	0.6292	-4.36E-07	2.9321	2850053.	-5.4972	2096630.	0.00
14.2000	4.41E-07	0.5133	0.04959	-4.01E-07	3.0258	2850053.	-0.2993	135828.	0.00
14.4000	3.64E-07	0.5173	-0.00506	-3.65E-07	3.0490	2850053.	-0.2473	135828.	0.00
14.6000	2.95E-07	0.5113	-0.04981	-3.28E-07	3.0139	2850053.	-0.2002	135828.	0.00
14.8000	2.33E-07	0.4973	-0.08564	-2.93E-07	2.9316	2850053.	-0.1581	135828.	0.00
15.0000	1.78E-07	0.4770	-0.1135	-2.59E-07	2.8120	2850053.	-0.1206	135828.	0.00
15.2000	1.29E-07	0.4519	-0.1343	-2.26E-07	2.6639	2850053.	-0.08773	135828.	0.00
15.4000	8.71E-08	0.4233	-0.1490	-1.96E-07	2.4952	2850053.	-0.05915	135828.	0.00
15.6000	5.10E-08	0.3923	-0.1584	-1.67E-07	2.3125	2850053.	-0.03461	135828.	0.00
15.8000	2.03E-08	0.3599	-0.1633	-1.41E-07	2.1217	2850053.	-0.01380	135828.	0.00
16.0000	-5.26E-09	0.3270	-0.1643	-1.16E-07	1.9276	2850053.	0.00357	135828.	0.00
16.2000	-2.63E-08	0.2942	-0.1621	-9.46E-08	1.7343	2850053.	0.01783	135828.	0.00
16.4000	-4.31E-08	0.2622	-0.1574	-7.51E-08	1.5453	2850053.	0.02928	135828.	0.00
16.6000	-5.63E-08	0.2313	-0.1507	-5.78E-08	1.3632	2850053.	0.03824	135828.	0.00
16.8000	-6.62E-08	0.2019	-0.1424	-4.26E-08	1.1900	2850053.	0.04499	135828.	0.00
17.0000	-7.33E-08	0.1743	-0.1329	-2.94E-08	1.0275	2850053.	0.04981	135828.	0.00
17.2000	-7.80E-08	0.1487	-0.1226	-1.81E-08	0.8767	2850053.	0.05298	135828.	0.00
17.4000	-8.06E-08	0.1253	-0.1118	-8.47E-09	0.7385	2850053.	0.05473	135828.	0.00
17.6000	-8.14E-08	0.1040	-0.1008	-4.22E-10	0.6131	2850053.	0.05528	135828.	0.00
17.8000	-8.07E-08	0.08495	-0.08981	6.21E-09	0.5007	2850053.	0.05484	135828.	0.00
18.0000	-7.89E-08	0.06808	-0.07897	1.16E-08	0.4013	2850053.	0.05359	135828.	0.00
18.2000	-7.61E-08	0.05336	-0.06844	1.58E-08	0.3146	2850053.	0.05170	135828.	0.00
18.4000	-7.26E-08	0.04071	-0.05834	1.91E-08	0.2400	2850053.	0.04929	135828.	0.00
18.6000	-6.85E-08	0.03003	-0.04876	2.16E-08	0.1770	2850053.	0.04650	135828.	0.00
18.8000	-6.39E-08	0.02121	-0.03977	2.34E-08	0.1250	2850053.	0.04342	135828.	0.00
19.0000	-5.91E-08	0.01412	-0.03141	2.47E-08	0.08323	2850053.	0.04013	135828.	0.00
19.2000	-5.41E-08	0.00864	-0.02373	2.55E-08	0.05093	2850053.	0.03672	135828.	0.00
19.4000	-4.89E-08	0.00463	-0.01673	2.59E-08	0.02729	2850053.	0.03322	135828.	0.00
19.6000	-4.37E-08	0.00195	-0.01045	2.62E-08	0.01147	2850053.	0.02968	135828.	0.00
19.8000	-3.85E-08	4.51E-04	-0.00487	2.62E-08	0.00266	2850053.	0.02611	135828.	0.00
20.0000	-3.32E-08	0.00	0.00	2.63E-08	0.00	2850053.	0.02255	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 4:

Pile-head deflection = 0.00156391 meters
Computed slope at pile head = -0.00050501 radians
Maximum bending moment = 328.97412768 kN-m
Maximum shear force = 210.00000000 kN
Depth of maximum bending moment = 2.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 12
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 5

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 250.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00203	0.00	250.0000	-6.33E-04	0.00	2850053.	0.00	0.00	0.00
0.2000	0.00190	50.0000	244.8343	-6.32E-04	294.7314	2850053.	-51.6566	5429.	0.00
0.4000	0.00178	97.9337	233.0708	-6.26E-04	577.2829	2850053.	-65.9787	7426.	0.00
0.6000	0.00165	143.2283	219.0585	-6.18E-04	844.2776	2850053.	-74.1446	8974.	0.00
0.8000	0.00153	185.5571	203.4976	-6.06E-04	1094.	2850053.	-81.4645	10650.	0.00
1.0000	0.00141	224.6273	186.5588	-5.92E-04	1324.	2850053.	-87.9227	12473.	0.00
1.2000	0.00129	260.1807	168.4158	-5.75E-04	1534.	2850053.	-93.5074	14463.	0.00
1.4000	0.00118	291.9937	149.2440	-5.56E-04	1721.	2850053.	-98.2111	16648.	0.00
1.6000	0.00107	319.8782	129.2199	-5.34E-04	1886.	2850053.	-102.0296	19058.	0.00
1.8000	9.66E-04	343.6816	108.5207	-5.11E-04	2026.	2850053.	-104.9627	21728.	0.00
2.0000	8.66E-04	363.2865	87.3231	-4.86E-04	2141.	2850053.	-107.0130	24704.	0.00
2.2000	7.72E-04	378.6109	65.8032	-4.60E-04	2232.	2850053.	-108.1860	28038.	0.00
2.4000	6.82E-04	389.6078	44.1357	-4.33E-04	2297.	2850053.	-108.4894	31799.	0.00
2.6000	5.98E-04	396.2651	22.4936	-4.06E-04	2336.	2850053.	-107.9317	36071.	0.00
2.8000	5.20E-04	398.6052	1.0482	-3.78E-04	2350.	2850053.	-106.5215	40961.	0.00
3.0000	4.47E-04	396.6844	-20.0304	-3.50E-04	2338.	2850053.	-104.2651	46611.	0.00
3.2000	3.80E-04	390.5930	-40.5733	-3.22E-04	2302.	2850053.	-101.1638	53215.	0.00
3.4000	3.19E-04	380.4551	-60.4107	-2.95E-04	2243.	2850053.	-97.2099	61038.	0.00

3.6000	2.62E-04	366.4288	-72.7536	-2.69E-04	2160.	2850053.	-26.2190	20001.	0.00
3.8000	2.11E-04	351.3537	-76.8362	-2.44E-04	2071.	2850053.	-14.6071	13848.	0.00
4.0000	1.65E-04	335.6943	-79.6814	-2.20E-04	1979.	2850053.	-13.8445	16812.	0.00
4.2000	1.23E-04	319.4811	-82.3581	-1.97E-04	1883.	2850053.	-12.9225	20989.	0.00
4.4000	8.61E-05	302.7510	-84.8286	-1.75E-04	1785.	2850053.	-11.7832	27385.	0.00
4.6000	5.32E-05	285.5497	-87.0375	-1.54E-04	1683.	2850053.	-10.3049	38720.	0.00
4.8000	2.44E-05	267.9361	-88.8820	-1.35E-04	1579.	2850053.	-8.1404	66707.	0.00
5.0000	-6.55E-07	249.9969	-89.6805	-1.17E-04	1474.	2850053.	0.1552	47398.	0.00
5.2000	-2.22E-05	232.0639	-88.8297	-9.96E-05	1368.	2850053.	8.3526	75224.	0.00
5.4000	-4.05E-05	214.4650	-86.9509	-8.40E-05	1264.	2850053.	10.4361	51532.	0.00
5.6000	-5.58E-05	197.2835	-84.7191	-6.95E-05	1163.	2850053.	11.8811	42593.	0.00
5.8000	-6.83E-05	180.5773	-82.2308	-5.62E-05	1064.	2850053.	13.0022	38071.	0.00
6.0000	-7.83E-05	164.3912	-79.5392	-4.41E-05	969.0248	2850053.	13.9138	35545.	0.00
6.2000	-8.60E-05	148.7616	-76.6807	-3.32E-05	876.8944	2850053.	14.6716	34135.	0.00
6.4000	-9.15E-05	133.7189	-73.6828	-2.32E-05	788.2232	2850053.	15.3072	33440.	0.00
6.6000	-9.53E-05	119.2885	-70.5681	-1.44E-05	703.1613	2850053.	15.8402	33257.	0.00
6.8000	-9.73E-05	105.4917	-67.3557	-6.48E-06	621.8343	2850053.	16.2838	33472.	0.00
7.0000	-9.79E-05	92.3462	-64.0626	4.61E-07	544.3467	2850053.	16.6469	34024.	0.00
7.2000	-9.71E-05	79.8667	-60.7043	6.50E-06	470.7842	2850053.	16.9362	34880.	0.00
7.4000	-9.53E-05	68.0645	-57.2950	1.17E-05	401.2150	2850053.	17.1566	36024.	0.00
7.6000	-9.24E-05	56.9487	-53.8482	1.61E-05	335.6911	2850053.	17.3118	37457.	0.00
7.8000	-8.88E-05	46.5253	-50.3765	1.97E-05	274.2491	2850053.	17.4048	39192.	0.00
8.0000	-8.46E-05	36.7981	-46.8922	2.26E-05	216.9109	2850053.	17.4379	41248.	0.00
8.2000	-7.98E-05	27.7684	-43.4072	2.49E-05	163.6842	2850053.	17.4128	43660.	0.00
8.4000	-7.46E-05	19.4352	-39.9328	2.66E-05	114.5632	2850053.	17.3313	46470.	0.00
8.6000	-6.91E-05	11.7953	-36.4802	2.77E-05	69.5287	2850053.	17.1945	49736.	0.00
8.8000	-6.35E-05	4.8431	-33.0604	2.82E-05	28.5484	2850053.	17.0035	53529.	0.00
9.0000	-5.78E-05	-1.4289	-29.4931	2.84E-05	8.4227	2850053.	18.6697	64547.	0.00
9.2000	-5.22E-05	-6.9541	-25.8222	2.81E-05	40.9918	2850053.	18.0386	69130.	0.00
9.4000	-4.66E-05	-11.7578	-22.2811	2.74E-05	69.3077	2850053.	17.3724	74521.	0.00
9.6000	-4.12E-05	-15.8665	-18.8766	2.64E-05	93.5274	2850053.	16.6732	80887.	0.00
9.8000	-3.60E-05	-19.3084	-15.6150	2.52E-05	113.8158	2850053.	15.9429	88449.	0.00
10.0000	-3.11E-05	-22.1125	-12.5023	2.37E-05	130.3451	2850053.	15.1833	97500.	0.00
10.2000	-2.66E-05	-24.3093	-9.5444	2.21E-05	143.2944	2850053.	14.3956	108438.	0.00
10.4000	-2.23E-05	-25.9303	-6.7468	2.04E-05	152.8495	2850053.	13.5806	121813.	0.00
10.6000	-1.84E-05	-27.0081	-4.1149	1.85E-05	159.2025	2850053.	12.7389	138405.	0.00
10.8000	-1.49E-05	-27.5763	-1.6539	1.66E-05	162.5518	2850053.	11.8703	159356.	0.00
11.0000	-1.18E-05	-27.6696	0.6305	1.46E-05	163.1022	2850053.	10.9738	186397.	0.00
11.2000	-9.04E-06	-27.3241	2.9916	1.27E-05	161.0652	2850053.	12.6380	279611.	0.00
11.4000	-6.69E-06	-26.4730	5.5412	1.08E-05	156.0484	2850053.	12.8576	384480.	0.00
11.6000	-4.71E-06	-25.1076	7.9706	9.02E-06	147.9999	2850053.	11.4362	485774.	0.00
11.8000	-3.08E-06	-23.2847	10.1069	7.32E-06	137.2549	2850053.	9.9268	644397.	0.00
12.0000	-1.78E-06	-21.0648	11.9262	5.76E-06	124.1693	2850053.	8.2664	928673.	0.00
12.2000	-7.75E-07	-18.5143	13.3792	4.38E-06	109.1346	2850053.	6.2636	1616011.	0.00

12.4000	-3.00E-08	-15.7131	14.0076	3.17E-06	92.6231	2850053.	0.02036	135828.	0.00
12.6000	4.95E-07	-12.9112	13.4704	2.17E-06	76.1068	2850053.	-5.3924	2180079.	0.00
12.8000	8.38E-07	-10.3250	12.2886	1.36E-06	60.8619	2850053.	-6.4259	1533322.	0.00
13.0000	1.04E-06	-7.9958	10.9565	7.12E-07	47.1321	2850053.	-6.8953	1330201.	0.00
13.2000	1.12E-06	-5.9424	9.5590	2.23E-07	35.0282	2850053.	-7.0789	1260615.	0.00
13.4000	1.13E-06	-4.1722	8.1430	-1.32E-07	24.5933	2850053.	-7.0818	1257846.	0.00
13.6000	1.07E-06	-2.6852	6.7388	-3.72E-07	15.8283	2850053.	-6.9596	1300356.	0.00
13.8000	9.77E-07	-1.4766	5.3682	-5.18E-07	8.7042	2850053.	-6.7470	1381004.	0.00
14.0000	8.63E-07	-0.5379	4.0466	-5.89E-07	3.1710	2850053.	-6.4689	1498983.	0.00
14.2000	7.42E-07	0.1420	2.7853	-6.03E-07	0.8370	2850053.	-6.1441	1657156.	0.00
14.4000	6.22E-07	0.5762	1.5921	-5.78E-07	3.3963	2850053.	-5.7881	1861262.	0.00
14.6000	5.10E-07	0.7788	0.4720	-5.30E-07	4.5908	2850053.	-5.4120	2120454.	0.00
14.8000	4.10E-07	0.7650	-0.09699	-4.76E-07	4.5093	2850053.	-0.2784	135828.	0.00
15.0000	3.20E-07	0.7400	-0.1466	-4.23E-07	4.3621	2850053.	-0.2174	135828.	0.00
15.2000	2.41E-07	0.7064	-0.1846	-3.72E-07	4.1637	2850053.	-0.1634	135828.	0.00
15.4000	1.71E-07	0.6662	-0.2126	-3.24E-07	3.9268	2850053.	-0.1162	135828.	0.00
15.6000	1.11E-07	0.6213	-0.2318	-2.79E-07	3.6624	2850053.	-0.07534	135828.	0.00
15.8000	5.95E-08	0.5735	-0.2433	-2.37E-07	3.3803	2850053.	-0.04039	135828.	0.00
16.0000	1.61E-08	0.5240	-0.2485	-1.99E-07	3.0886	2850053.	-0.01091	135828.	0.00
16.2000	-2.00E-08	0.4741	-0.2482	-1.64E-07	2.7944	2850053.	0.01357	135828.	0.00
16.4000	-4.94E-08	0.4247	-0.2435	-1.32E-07	2.5034	2850053.	0.03354	135828.	0.00
16.6000	-7.28E-08	0.3767	-0.2352	-1.04E-07	2.2203	2850053.	0.04946	135828.	0.00
16.8000	-9.10E-08	0.3306	-0.2241	-7.92E-08	1.9489	2850053.	0.06178	135828.	0.00
17.0000	-1.04E-07	0.2870	-0.2108	-5.75E-08	1.6920	2850053.	0.07096	135828.	0.00
17.2000	-1.14E-07	0.2463	-0.1960	-3.88E-08	1.4518	2850053.	0.07740	135828.	0.00
17.4000	-1.20E-07	0.2087	-0.1801	-2.28E-08	1.2299	2850053.	0.08150	135828.	0.00
17.6000	-1.23E-07	0.1743	-0.1636	-9.38E-09	1.0272	2850053.	0.08360	135828.	0.00
17.8000	-1.24E-07	0.1432	-0.1468	1.76E-09	0.8443	2850053.	0.08404	135828.	0.00
18.0000	-1.22E-07	0.1156	-0.1301	1.08E-08	0.6811	2850053.	0.08312	135828.	0.00
18.2000	-1.19E-07	0.09120	-0.1137	1.81E-08	0.5376	2850053.	0.08110	135828.	0.00
18.4000	-1.15E-07	0.07009	-0.09773	2.38E-08	0.4131	2850053.	0.07821	135828.	0.00
18.6000	-1.10E-07	0.05211	-0.08244	2.80E-08	0.3071	2850053.	0.07465	135828.	0.00
18.8000	-1.04E-07	0.03711	-0.06792	3.12E-08	0.2188	2850053.	0.07059	135828.	0.00
19.0000	-9.74E-08	0.02494	-0.05424	3.33E-08	0.1470	2850053.	0.06618	135828.	0.00
19.2000	-9.06E-08	0.01542	-0.04147	3.48E-08	0.09087	2850053.	0.06153	135828.	0.00
19.4000	-8.35E-08	0.00835	-0.02964	3.56E-08	0.04924	2850053.	0.05674	135828.	0.00
19.6000	-7.64E-08	0.00356	-0.01878	3.60E-08	0.02098	2850053.	0.05186	135828.	0.00
19.8000	-6.91E-08	8.41E-04	-0.00890	3.62E-08	0.00496	2850053.	0.04695	135828.	0.00
20.0000	-6.19E-08	0.00	0.00	3.62E-08	0.00	2850053.	0.04204	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 5:

Pile-head deflection = 0.00202969 meters
Computed slope at pile head = -0.00063339 radians
Maximum bending moment = 398.60521462 kN-m
Maximum shear force = 250.00000000 kN
Depth of maximum bending moment = 2.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 12
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 6

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 300.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00268	-1.55E-10	300.0000	-8.05E-04	9.11E-10	2850053.	0.00	0.00	0.00
0.2000	0.00252	60.0000	293.4901	-8.03E-04	353.6777	2850053.	-65.0991	5176.	0.00
0.4000	0.00236	117.3960	279.3846	-7.96E-04	692.0059	2850053.	-75.9559	6450.	0.00
0.6000	0.00220	171.7538	263.2403	-7.86E-04	1012.	2850053.	-85.4868	7783.	0.00
0.8000	0.00204	222.6922	245.2830	-7.72E-04	1313.	2850053.	-94.0862	9221.	0.00
1.0000	0.00189	269.8670	225.7007	-7.55E-04	1591.	2850053.	-101.7374	10779.	0.00
1.2000	0.00174	312.9724	204.6841	-7.35E-04	1845.	2850053.	-108.4278	12474.	0.00
1.4000	0.00159	351.7407	182.4264	-7.11E-04	2073.	2850053.	-114.1491	14324.	0.00
1.6000	0.00145	385.9430	159.1218	-6.86E-04	2275.	2850053.	-118.8971	16355.	0.00
1.8000	0.00132	415.3894	134.9650	-6.57E-04	2449.	2850053.	-122.6715	18593.	0.00
2.0000	0.00119	439.9290	110.1503	-6.27E-04	2593.	2850053.	-125.4754	21071.	0.00
2.2000	0.00107	459.4495	84.8712	-5.96E-04	2708.	2850053.	-127.3153	23829.	0.00
2.4000	9.53E-04	473.8775	59.3196	-5.63E-04	2793.	2850053.	-128.2001	26915.	0.00
2.6000	8.43E-04	483.1774	33.6856	-5.30E-04	2848.	2850053.	-128.1401	30389.	0.00
2.8000	7.41E-04	487.3517	8.1569	-4.95E-04	2873.	2850053.	-127.1466	34326.	0.00
3.0000	6.45E-04	486.4402	-17.0807	-4.61E-04	2867.	2850053.	-125.2294	38822.	0.00
3.2000	5.56E-04	480.5195	-41.8431	-4.27E-04	2832.	2850053.	-122.3949	44004.	0.00

3.4000	4.74E-04	469.7029	-65.9468	-3.94E-04	2769.	2850053.	-118.6424	50041.	0.00
3.6000	3.99E-04	454.1407	-80.8276	-3.62E-04	2677.	2850053.	-30.1652	15133.	0.00
3.8000	3.30E-04	437.3719	-85.5400	-3.30E-04	2578.	2850053.	-16.9592	10293.	0.00
4.0000	2.67E-04	419.9247	-88.8627	-3.00E-04	2475.	2850053.	-16.2680	12207.	0.00
4.2000	2.09E-04	401.8268	-92.0338	-2.71E-04	2369.	2850053.	-15.4431	14748.	0.00
4.4000	1.58E-04	383.1112	-95.0233	-2.44E-04	2258.	2850053.	-14.4512	18298.	0.00
4.6000	1.12E-04	363.8175	-97.7918	-2.18E-04	2145.	2850053.	-13.2340	23662.	0.00
4.8000	7.09E-05	343.9945	-100.2825	-1.93E-04	2028.	2850053.	-11.6735	32942.	0.00
5.0000	3.47E-05	323.7045	-102.3954	-1.69E-04	1908.	2850053.	-9.4553	54473.	0.00
5.2000	3.10E-06	303.0363	-103.7906	-1.47E-04	1786.	2850053.	-4.4960	289936.	0.00
5.4000	-2.43E-05	282.1883	-103.3666	-1.27E-04	1663.	2850053.	8.7361	72021.	0.00
5.6000	-4.77E-05	261.6897	-101.3699	-1.08E-04	1543.	2850053.	11.2300	47124.	0.00
5.8000	-6.74E-05	241.6403	-98.9562	-9.02E-05	1424.	2850053.	12.9076	38308.	0.00
6.0000	-8.37E-05	222.1072	-96.2457	-7.39E-05	1309.	2850053.	14.1971	33913.	0.00
6.2000	-9.69E-05	203.1420	-93.3017	-5.90E-05	1197.	2850053.	15.2430	31447.	0.00
6.4000	-1.07E-04	184.7865	-90.1660	-4.54E-05	1089.	2850053.	16.1136	30031.	0.00
6.6000	-1.15E-04	167.0756	-86.8700	-3.30E-05	984.8484	2850053.	16.8467	29276.	0.00
6.8000	-1.21E-04	150.0385	-83.4388	-2.19E-05	884.4212	2850053.	17.4656	28984.	0.00
7.0000	-1.24E-04	133.7001	-79.8937	-1.19E-05	788.1122	2850053.	17.9858	29046.	0.00
7.2000	-1.25E-04	118.0811	-76.2533	-3.10E-06	696.0439	2850053.	18.4178	29400.	0.00
7.4000	-1.25E-04	103.1988	-72.5346	4.67E-06	608.3183	2850053.	18.7695	30011.	0.00
7.6000	-1.23E-04	89.0672	-68.7530	1.14E-05	525.0182	2850053.	19.0464	30863.	0.00
7.8000	-1.21E-04	75.6976	-64.9230	1.72E-05	446.2090	2850053.	19.2530	31951.	0.00
8.0000	-1.17E-04	63.0980	-61.0585	2.21E-05	371.9394	2850053.	19.3924	33278.	0.00
8.2000	-1.12E-04	51.2742	-57.1725	2.61E-05	302.2422	2850053.	19.4675	34860.	0.00
8.4000	-1.06E-04	40.2290	-53.2777	2.93E-05	237.1352	2850053.	19.4804	36715.	0.00
8.6000	-1.00E-04	29.9631	-49.3864	3.18E-05	176.6214	2850053.	19.4327	38875.	0.00
8.8000	-9.34E-05	20.4745	-45.5105	3.35E-05	120.6895	2850053.	19.3261	41376.	0.00
9.0000	-8.66E-05	11.7589	-41.4433	3.47E-05	69.3144	2850053.	21.3456	49315.	0.00
9.2000	-7.96E-05	3.8972	-37.2334	3.52E-05	22.9723	2850053.	20.7531	52173.	0.00
9.4000	-7.25E-05	-3.1345	-33.1462	3.52E-05	18.4765	2850053.	20.1196	55512.	0.00
9.6000	-6.55E-05	-9.3613	-29.1894	3.48E-05	55.1814	2850053.	19.4478	59415.	0.00
9.8000	-5.86E-05	-14.8102	-25.3706	3.39E-05	87.3008	2850053.	18.7401	63990.	0.00
10.0000	-5.19E-05	-19.5096	-21.6968	3.27E-05	115.0016	2850053.	17.9985	69375.	0.00
10.2000	-4.55E-05	-23.4890	-18.1745	3.12E-05	138.4586	2850053.	17.2248	75751.	0.00
10.4000	-3.94E-05	-26.7793	-14.8099	2.95E-05	157.8543	2850053.	16.4204	83360.	0.00
10.6000	-3.37E-05	-29.4129	-11.6092	2.75E-05	173.3783	2850053.	15.5867	92526.	0.00
10.8000	-2.84E-05	-31.4230	-8.5781	2.54E-05	185.2271	2850053.	14.7243	103694.	0.00
11.0000	-2.35E-05	-32.8442	-5.7223	2.31E-05	193.6042	2850053.	13.8339	117494.	0.00
11.2000	-1.92E-05	-33.7120	-2.7143	2.08E-05	198.7195	2850053.	16.2461	169600.	0.00
11.4000	-1.52E-05	-33.9299	0.6040	1.84E-05	200.0042	2850053.	16.9372	222258.	0.00
11.6000	-1.18E-05	-33.4704	3.8533	1.60E-05	197.2953	2850053.	15.5554	263644.	0.00
11.8000	-8.83E-06	-32.3886	6.8214	1.37E-05	190.9188	2850053.	14.1258	319979.	0.00
12.0000	-6.31E-06	-30.7418	9.4976	1.15E-05	181.2115	2850053.	12.6369	400367.	0.00

12.2000	-4.23E-06	-28.5895	11.8678	9.42E-06	168.5247	2850053.	11.0650	523463.	0.00
12.4000	-2.54E-06	-25.9947	13.9100	7.51E-06	153.2289	2850053.	9.3566	735639.	0.00
12.6000	-1.22E-06	-23.0255	15.5822	5.79E-06	135.7270	2850053.	7.3658	1202732.	0.00
12.8000	-2.29E-07	-19.7618	16.3344	4.29E-06	116.4883	2850053.	0.1555	135828.	0.00
13.0000	4.89E-07	-16.4918	15.8224	3.01E-06	97.2130	2850053.	-5.2749	2155500.	0.00
13.2000	9.76E-07	-13.4328	14.6240	1.96E-06	79.1813	2850053.	-6.7098	1374354.	0.00
13.4000	1.27E-06	-10.6422	13.2174	1.12E-06	62.7318	2850053.	-7.3557	1153918.	0.00
13.6000	1.42E-06	-8.1458	11.7173	4.60E-07	48.0166	2850053.	-7.6456	1073806.	0.00
13.8000	1.46E-06	-5.9553	10.1807	-3.50E-08	35.1042	2850053.	-7.7203	1058437.	0.00
14.0000	1.41E-06	-4.0736	8.6437	-3.87E-07	24.0121	2850053.	-7.6492	1084981.	0.00
14.2000	1.30E-06	-2.4978	7.1313	-6.17E-07	14.7235	2850053.	-7.4749	1146415.	0.00
14.4000	1.16E-06	-1.2210	5.6611	-7.48E-07	7.1975	2850053.	-7.2278	1242926.	0.00
14.6000	1.00E-06	-0.2334	4.2451	-7.99E-07	1.3756	2850053.	-6.9323	1379743.	0.00
14.8000	8.43E-07	0.4770	2.8908	-7.90E-07	2.8118	2850053.	-6.6102	1567458.	0.00
15.0000	6.89E-07	0.9230	1.6015	-7.41E-07	5.4405	2850053.	-6.2824	1824442.	0.00
15.2000	5.47E-07	1.1176	0.3764	-6.70E-07	6.5879	2850053.	-5.9694	2182946.	0.00
15.4000	4.21E-07	1.0735	-0.2492	-5.93E-07	6.3279	2850053.	-0.2858	135828.	0.00
15.6000	3.10E-07	1.0180	-0.2988	-5.19E-07	6.0005	2850053.	-0.2104	135828.	0.00
15.8000	2.13E-07	0.9540	-0.3343	-4.50E-07	5.6235	2850053.	-0.1447	135828.	0.00
16.0000	1.30E-07	0.8842	-0.3575	-3.86E-07	5.2123	2850053.	-0.08806	135828.	0.00
16.2000	5.87E-08	0.8110	-0.3703	-3.26E-07	4.7804	2850053.	-0.03988	135828.	0.00
16.4000	-8.43E-10	0.7361	-0.3743	-2.72E-07	4.3391	2850053.	5.73E-04	135828.	0.00
16.6000	-5.01E-08	0.6613	-0.3708	-2.23E-07	3.8979	2850053.	0.03401	135828.	0.00
16.8000	-9.00E-08	0.5878	-0.3613	-1.79E-07	3.4648	2850053.	0.06114	135828.	0.00
17.0000	-1.22E-07	0.5168	-0.3469	-1.40E-07	3.0461	2850053.	0.08267	135828.	0.00
17.2000	-1.46E-07	0.4490	-0.3287	-1.07E-07	2.6468	2850053.	0.09928	135828.	0.00
17.4000	-1.64E-07	0.3853	-0.3076	-7.72E-08	2.2710	2850053.	0.1116	135828.	0.00
17.6000	-1.77E-07	0.3260	-0.2844	-5.23E-08	1.9215	2850053.	0.1203	135828.	0.00
17.8000	-1.85E-07	0.2715	-0.2598	-3.13E-08	1.6003	2850053.	0.1258	135828.	0.00
18.0000	-1.90E-07	0.2220	-0.2344	-1.40E-08	1.3088	2850053.	0.1288	135828.	0.00
18.2000	-1.91E-07	0.1777	-0.2085	3.02E-11	1.0477	2850053.	0.1296	135828.	0.00
18.4000	-1.90E-07	0.1386	-0.1827	1.11E-08	0.8171	2850053.	0.1288	135828.	0.00
18.6000	-1.86E-07	0.1046	-0.1572	1.97E-08	0.6169	2850053.	0.1266	135828.	0.00
18.8000	-1.82E-07	0.07574	-0.1322	2.60E-08	0.4465	2850053.	0.1234	135828.	0.00
19.0000	-1.76E-07	0.05178	-0.1079	3.05E-08	0.3052	2850053.	0.1195	135828.	0.00
19.2000	-1.70E-07	0.03259	-0.08441	3.34E-08	0.1921	2850053.	0.1151	135828.	0.00
19.4000	-1.63E-07	0.01801	-0.06185	3.52E-08	0.1062	2850053.	0.1104	135828.	0.00
19.6000	-1.55E-07	0.00785	-0.04025	3.61E-08	0.04629	2850053.	0.1056	135828.	0.00
19.8000	-1.48E-07	0.00191	-0.01963	3.65E-08	0.01128	2850053.	0.1006	135828.	0.00
20.0000	-1.41E-07	0.00	0.00	3.65E-08	0.00	2850053.	0.09567	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 6:

Pile-head deflection = 0.00267622 meters
Computed slope at pile head = -0.00080480 radians
Maximum bending moment = 487.35172045 kN-m
Maximum shear force = 300.00000000 kN
Depth of maximum bending moment = 2.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 13
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 7

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 350.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00342	4.33E-10	350.0000	-9.93E-04	2.55E-09	2850053.	0.00	0.00	0.00
0.2000	0.00322	70.0000	342.9579	-9.90E-04	412.6239	2850053.	-70.4209	4378.	0.00
0.4000	0.00302	137.1832	327.4127	-9.83E-04	808.6437	2850053.	-85.0312	5633.	0.00
0.6000	0.00282	200.9651	309.2178	-9.71E-04	1185.	2850053.	-96.9183	6865.	0.00
0.8000	0.00263	260.8703	288.8433	-9.55E-04	1538.	2850053.	-106.8264	8121.	0.00
1.0000	0.00244	316.5024	266.5902	-9.34E-04	1866.	2850053.	-115.7042	9477.	0.00
1.2000	0.00226	367.5064	242.6660	-9.10E-04	2166.	2850053.	-123.5386	10947.	0.00
1.4000	0.00208	413.5688	217.2800	-8.83E-04	2438.	2850053.	-130.3209	12546.	0.00
1.6000	0.00190	454.4184	190.6433	-8.53E-04	2679.	2850053.	-136.0466	14292.	0.00
1.8000	0.00174	489.8261	162.9670	-8.19E-04	2887.	2850053.	-140.7156	16207.	0.00
2.0000	0.00158	519.6052	134.4623	-7.84E-04	3063.	2850053.	-144.3316	18316.	0.00
2.2000	0.00142	543.6110	105.3390	-7.47E-04	3204.	2850053.	-146.9020	20649.	0.00
2.4000	0.00128	561.7408	75.8051	-7.08E-04	3311.	2850053.	-148.4368	23242.	0.00
2.6000	0.00114	573.9331	46.0666	-6.68E-04	3383.	2850053.	-148.9483	26140.	0.00
2.8000	0.00101	580.1674	16.3267	-6.28E-04	3420.	2850053.	-148.4500	29395.	0.00
3.0000	8.89E-04	580.4638	-13.2137	-5.87E-04	3422.	2850053.	-146.9549	33077.	0.00

3.2000	7.75E-04	574.8819	-42.3566	-5.46E-04	3389.	2850053.	-144.4735	37271.	0.00
3.4000	6.70E-04	563.5211	-70.9050	-5.06E-04	3322.	2850053.	-141.0110	42092.	0.00
3.6000	5.73E-04	546.5199	-88.4090	-4.67E-04	3222.	2850053.	-34.0291	11884.	0.00
3.8000	4.83E-04	528.1575	-93.7379	-4.30E-04	3113.	2850053.	-19.2598	7975.	0.00
4.0000	4.01E-04	509.0247	-97.5271	-3.93E-04	3001.	2850053.	-18.6316	9298.	0.00
4.2000	3.26E-04	489.1467	-101.1787	-3.58E-04	2883.	2850053.	-17.8845	10984.	0.00
4.4000	2.57E-04	468.5532	-104.6669	-3.25E-04	2762.	2850053.	-16.9971	13206.	0.00
4.6000	1.96E-04	447.2799	-107.9601	-2.93E-04	2637.	2850053.	-15.9356	16282.	0.00
4.8000	1.40E-04	425.3692	-111.0178	-2.62E-04	2507.	2850053.	-14.6412	20863.	0.00
5.0000	9.09E-05	402.8728	-113.7817	-2.33E-04	2375.	2850053.	-12.9981	28586.	0.00
5.2000	4.72E-05	379.8565	-116.1529	-2.05E-04	2239.	2850053.	-10.7134	45420.	0.00
5.4000	8.74E-06	356.4117	-117.8542	-1.80E-04	2101.	2850053.	-6.2997	144152.	0.00
5.6000	-2.47E-05	332.7148	-117.5826	-1.55E-04	1961.	2850053.	9.0150	73022.	0.00
5.8000	-5.35E-05	309.3786	-115.4859	-1.33E-04	1824.	2850053.	11.9526	44722.	0.00
6.0000	-7.79E-05	286.5205	-112.9042	-1.12E-04	1689.	2850053.	13.8641	35607.	0.00
6.2000	-9.83E-05	264.2169	-109.9860	-9.27E-05	1557.	2850053.	15.3184	31176.	0.00
6.4000	-1.15E-04	242.5261	-106.8047	-7.49E-05	1430.	2850053.	16.4939	28694.	0.00
6.6000	-1.28E-04	221.4950	-103.4081	-5.87E-05	1306.	2850053.	17.4719	27247.	0.00
6.8000	-1.38E-04	201.1629	-99.8312	-4.38E-05	1186.	2850053.	18.2971	26436.	0.00
7.0000	-1.46E-04	181.5625	-96.1019	-3.04E-05	1070.	2850053.	18.9965	26062.	0.00
7.2000	-1.51E-04	162.7221	-92.2434	-1.83E-05	959.1862	2850053.	19.5880	26015.	0.00
7.4000	-1.53E-04	144.6652	-88.2762	-7.54E-06	852.7473	2850053.	20.0838	26234.	0.00
7.6000	-1.54E-04	127.4116	-84.2186	2.01E-06	751.0440	2850053.	20.4927	26683.	0.00
7.8000	-1.52E-04	110.9777	-80.0872	1.04E-05	654.1725	2850053.	20.8210	27341.	0.00
8.0000	-1.49E-04	95.3767	-75.8977	1.76E-05	562.2103	2850053.	21.0739	28201.	0.00
8.2000	-1.45E-04	80.6187	-71.6648	2.38E-05	475.2170	2850053.	21.2550	29264.	0.00
8.4000	-1.40E-04	66.7108	-67.4026	2.90E-05	393.2353	2850053.	21.3675	30538.	0.00
8.6000	-1.34E-04	53.6576	-63.1245	3.32E-05	316.2917	2850053.	21.4136	32037.	0.00
8.8000	-1.27E-04	41.4610	-58.8436	3.65E-05	244.3972	2850053.	21.3954	33782.	0.00
9.0000	-1.19E-04	30.1202	-54.3296	3.90E-05	177.5474	2850053.	23.7439	39882.	0.00
9.2000	-1.11E-04	19.7292	-49.6354	4.08E-05	116.2960	2850053.	23.1986	41779.	0.00
9.4000	-1.03E-04	10.2661	-45.0549	4.18E-05	60.5146	2850053.	22.6061	43998.	0.00
9.6000	-9.43E-05	1.7072	-40.5973	4.23E-05	10.0633	2850053.	21.9695	46585.	0.00
9.8000	-8.59E-05	-5.9729	-36.2712	4.21E-05	35.2079	2850053.	21.2918	49597.	0.00
10.0000	-7.75E-05	-12.8013	-32.0845	4.14E-05	75.4588	2850053.	20.5754	53111.	0.00
10.2000	-6.93E-05	-18.8067	-28.0447	4.03E-05	110.8584	2850053.	19.8224	57223.	0.00
10.4000	-6.13E-05	-24.0192	-24.1590	3.88E-05	141.5841	2850053.	19.0347	62057.	0.00
10.6000	-5.37E-05	-28.4703	-20.4341	3.70E-05	167.8217	2850053.	18.2140	67775.	0.00
10.8000	-4.66E-05	-32.1928	-16.8766	3.49E-05	189.7647	2850053.	17.3616	74593.	0.00
11.0000	-3.98E-05	-35.2209	-13.4925	3.25E-05	207.6141	2850053.	16.4788	82800.	0.00
11.2000	-3.36E-05	-37.5898	-9.8866	2.99E-05	221.5781	2850053.	19.5807	116720.	0.00
11.4000	-2.78E-05	-39.1755	-5.8589	2.72E-05	230.9252	2850053.	20.6967	148752.	0.00
11.6000	-2.27E-05	-39.9334	-1.8567	2.45E-05	235.3924	2850053.	19.3251	170623.	0.00
11.8000	-1.80E-05	-39.9182	1.8671	2.17E-05	235.3030	2850053.	17.9125	198608.	0.00

12.0000	-1.40E-05	-39.1865	5.3039	1.89E-05	230.9901	2850053.	16.4558	235351.	0.00
12.2000	-1.05E-05	-37.7966	8.4443	1.62E-05	222.7972	2850053.	14.9481	285269.	0.00
12.4000	-7.51E-06	-35.8088	11.2767	1.36E-05	211.0797	2850053.	13.3759	356384.	0.00
12.6000	-5.04E-06	-33.2860	13.7854	1.12E-05	196.2084	2850053.	11.7113	465157.	0.00
12.8000	-3.03E-06	-30.2947	15.9459	8.96E-06	178.5757	2850053.	9.8930	652662.	0.00
13.0000	-1.45E-06	-26.9076	17.7103	6.95E-06	158.6104	2850053.	7.7510	1066953.	0.00
13.2000	-2.52E-07	-23.2105	18.5025	5.19E-06	136.8175	2850053.	0.1711	135828.	0.00
13.4000	6.23E-07	-19.5066	17.9394	3.69E-06	114.9843	2850053.	-5.8014	1861337.	0.00
13.6000	1.22E-06	-16.0348	16.6308	2.44E-06	94.5190	2850053.	-7.2850	1189534.	0.00
13.8000	1.60E-06	-12.8543	15.1052	1.43E-06	75.7714	2850053.	-7.9706	995513.	0.00
14.0000	1.80E-06	-9.9927	13.4797	6.30E-07	58.9032	2850053.	-8.2850	921923.	0.00
14.2000	1.85E-06	-7.4625	11.8141	1.71E-08	43.9884	2850053.	-8.3701	903353.	0.00
14.4000	1.80E-06	-5.2670	10.1476	-4.30E-07	31.0472	2850053.	-8.2953	919556.	0.00
14.6000	1.68E-06	-3.4034	8.5079	-7.34E-07	20.0619	2850053.	-8.1014	963691.	0.00
14.8000	1.51E-06	-1.8639	6.9162	-9.19E-07	10.9867	2850053.	-7.8158	1034736.	0.00
15.0000	1.31E-06	-0.6369	5.3888	-1.01E-06	3.7544	2850053.	-7.4584	1135306.	0.00
15.2000	1.11E-06	0.2917	3.9385	-1.02E-06	1.7193	2850053.	-7.0441	1271308.	0.00
15.4000	9.07E-07	0.9385	2.5757	-9.75E-07	5.5321	2850053.	-6.5847	1452712.	0.00
15.6000	7.18E-07	1.3219	1.3084	-8.96E-07	7.7923	2850053.	-6.0884	1695755.	0.00
15.8000	5.48E-07	1.4618	0.1436	-7.98E-07	8.6170	2850053.	-5.5591	2028278.	0.00
16.0000	3.99E-07	1.3794	-0.4394	-6.99E-07	8.1309	2850053.	-0.2708	135828.	0.00
16.2000	2.69E-07	1.2861	-0.4847	-6.05E-07	7.5809	2850053.	-0.1825	135828.	0.00
16.4000	1.57E-07	1.1855	-0.5136	-5.18E-07	6.9879	2850053.	-0.1065	135828.	0.00
16.6000	6.14E-08	1.0806	-0.5284	-4.39E-07	6.3699	2850053.	-0.04170	135828.	0.00
16.8000	-1.88E-08	0.9741	-0.5313	-3.67E-07	5.7420	2850053.	0.01275	135828.	0.00
17.0000	-8.53E-08	0.8681	-0.5243	-3.02E-07	5.1171	2850053.	0.05792	135828.	0.00
17.2000	-1.40E-07	0.7644	-0.5090	-2.45E-07	4.5058	2850053.	0.09482	135828.	0.00
17.4000	-1.83E-07	0.6645	-0.4871	-1.95E-07	3.9169	2850053.	0.1244	135828.	0.00
17.6000	-2.17E-07	0.5696	-0.4599	-1.51E-07	3.3574	2850053.	0.1477	135828.	0.00
17.8000	-2.44E-07	0.4805	-0.4285	-1.15E-07	2.8326	2850053.	0.1655	135828.	0.00
18.0000	-2.63E-07	0.3981	-0.3941	-8.37E-08	2.3469	2850053.	0.1788	135828.	0.00
18.2000	-2.77E-07	0.3229	-0.3574	-5.84E-08	1.9034	2850053.	0.1883	135828.	0.00
18.4000	-2.87E-07	0.2552	-0.3191	-3.81E-08	1.5043	2850053.	0.1947	135828.	0.00
18.6000	-2.92E-07	0.1953	-0.2798	-2.23E-08	1.1510	2850053.	0.1986	135828.	0.00
18.8000	-2.96E-07	0.1433	-0.2398	-1.04E-08	0.8446	2850053.	0.2007	135828.	0.00
19.0000	-2.97E-07	0.09934	-0.1996	-1.92E-09	0.5856	2850053.	0.2015	135828.	0.00
19.2000	-2.96E-07	0.06345	-0.1593	3.79E-09	0.3740	2850053.	0.2013	135828.	0.00
19.4000	-2.95E-07	0.03561	-0.1192	7.27E-09	0.2099	2850053.	0.2004	135828.	0.00
19.6000	-2.93E-07	0.01578	-0.07919	9.07E-09	0.09304	2850053.	0.1993	135828.	0.00
19.8000	-2.92E-07	0.00393	-0.03946	9.76E-09	0.02318	2850053.	0.1980	135828.	0.00
20.0000	-2.90E-07	0.00	0.00	9.90E-09	0.00	2850053.	0.1966	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 7:

Pile-head deflection = 0.00341525 meters
Computed slope at pile head = -0.00099254 radians
Maximum bending moment = 580.46375074 kN-m
Maximum shear force = 350.00000000 kN
Depth of maximum bending moment = 3.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 15
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 8

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 950.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.02890	-5.69E-09	950.0000	-0.00559	3.35E-08	2850053.	0.00	0.00	0.00
0.2000	0.02778	190.0000	946.6975	-0.00558	1120.	2850053.	-33.0247	237.7608	0.00
0.4000	0.02666	378.6790	937.3653	-0.00556	2232.	2850053.	-60.2976	452.2725	0.00
0.6000	0.02555	564.9461	922.1819	-0.00553	3330.	2850053.	-91.5367	716.4148	0.00
0.8000	0.02445	747.5518	900.4250	-0.00549	4407.	2850053.	-126.0319	1031.	0.00
1.0000	0.02336	925.1161	871.5047	-0.00543	5453.	2850053.	-163.1711	1397.	0.00
1.2000	0.02228	1096.	834.9167	-0.00536	6461.	2850053.	-202.7085	1820.	0.00
1.4000	0.02122	1259.	790.4470	-0.00527	7422.	2850053.	-241.9885	2281.	0.00
1.6000	0.02017	1412.	738.3663	-0.00518	8325.	2850053.	-278.8187	2764.	0.00
1.8000	0.01915	1554.	679.1539	-0.00508	9163.	2850053.	-313.3052	3273.	0.00
2.0000	0.01814	1684.	613.2703	-0.00496	9927.	2850053.	-345.5309	3809.	0.00
2.2000	0.01716	1800.	541.1608	-0.00484	10609.	2850053.	-375.5640	4377.	0.00
2.4000	0.01621	1900.	463.2581	-0.00471	11202.	2850053.	-403.4628	4979.	0.00
2.6000	0.01528	1985.	379.9840	-0.00457	11701.	2850053.	-429.2788	5620.	0.00
2.8000	0.01438	2052.	291.7502	-0.00443	12098.	2850053.	-453.0586	6302.	0.00

3.0000	0.01351	2102.	198.9599	-0.00429	12389.	2850053.	-474.8444	7032.	0.00
3.2000	0.01266	2132.	102.0080	-0.00414	12568.	2850053.	-494.6746	7813.	0.00
3.4000	0.01185	2143.	1.2824	-0.00399	12629.	2850053.	-512.5819	8651.	0.00
3.6000	0.01107	2133.	-59.1067	-0.00384	12571.	2850053.	-91.3088	1650.	0.00
3.8000	0.01032	2119.	-73.5803	-0.00369	12490.	2850053.	-53.4271	1036.	0.00
4.0000	0.00959	2103.	-84.2915	-0.00354	12397.	2850053.	-53.6851	1119.	0.00
4.2000	0.00890	2085.	-95.0458	-0.00339	12291.	2850053.	-53.8577	1210.	0.00
4.4000	0.00824	2065.	-105.8259	-0.00325	12173.	2850053.	-53.9436	1310.	0.00
4.6000	0.00760	2043.	-116.6144	-0.00310	12042.	2850053.	-53.9414	1419.	0.00
4.8000	0.00699	2018.	-127.3936	-0.00296	11898.	2850053.	-53.8499	1540.	0.00
5.0000	0.00642	1992.	-138.1453	-0.00282	11741.	2850053.	-53.6673	1673.	0.00
5.2000	0.00587	1963.	-148.8512	-0.00268	11572.	2850053.	-53.3918	1820.	0.00
5.4000	0.00534	1932.	-159.4925	-0.00254	11391.	2850053.	-53.0213	1984.	0.00
5.6000	0.00485	1899.	-170.0500	-0.00241	11196.	2850053.	-52.5535	2168.	0.00
5.8000	0.00438	1864.	-180.5039	-0.00228	10990.	2850053.	-51.9856	2374.	0.00
6.0000	0.00394	1827.	-190.8339	-0.00215	10771.	2850053.	-51.3143	2606.	0.00
6.2000	0.00352	1788.	-201.0189	-0.00202	10540.	2850053.	-50.5355	2870.	0.00
6.4000	0.00313	1747.	-211.0369	-0.00190	10297.	2850053.	-49.6446	3173.	0.00
6.6000	0.00276	1704.	-220.8649	-0.00178	10042.	2850053.	-48.6356	3522.	0.00
6.8000	0.00242	1658.	-230.4786	-0.00166	9776.	2850053.	-47.5011	3928.	0.00
7.0000	0.00210	1611.	-239.8518	-0.00154	9499.	2850053.	-46.2317	4406.	0.00
7.2000	0.00180	1563.	-248.9565	-0.00143	9210.	2850053.	-44.8152	4976.	0.00
7.4000	0.00153	1512.	-257.7616	-0.00132	8912.	2850053.	-43.2352	5667.	0.00
7.6000	0.00127	1459.	-266.2320	-0.00122	8603.	2850053.	-41.4692	6523.	0.00
7.8000	0.00104	1405.	-274.3275	-0.00112	8284.	2850053.	-39.4854	7610.	0.00
8.0000	8.24E-04	1350.	-281.9996	-0.00102	7956.	2850053.	-37.2363	9042.	0.00
8.2000	6.28E-04	1293.	-289.1879	-9.30E-04	7619.	2850053.	-34.6462	11026.	0.00
8.4000	4.51E-04	1234.	-295.8109	-8.42E-04	7274.	2850053.	-31.5841	13992.	0.00
8.6000	2.92E-04	1174.	-301.7481	-7.57E-04	6921.	2850053.	-27.7877	19046.	0.00
8.8000	1.49E-04	1113.	-306.7843	-6.77E-04	6562.	2850053.	-22.5743	30384.	0.00
9.0000	2.10E-05	1051.	-310.3751	-6.01E-04	6198.	2850053.	-13.3338	126860.	0.00
9.2000	-9.18E-05	989.1417	-309.5310	-5.29E-04	5831.	2850053.	21.7746	47442.	0.00
9.4000	-1.91E-04	927.6710	-304.5748	-4.62E-04	5468.	2850053.	27.7878	29139.	0.00
9.6000	-2.77E-04	867.3118	-298.6504	-3.99E-04	5112.	2850053.	31.4558	22741.	0.00
9.8000	-3.50E-04	808.2108	-292.1014	-3.40E-04	4764.	2850053.	34.0341	19427.	0.00
10.0000	-4.13E-04	750.4712	-285.1035	-2.86E-04	4424.	2850053.	35.9453	17416.	0.00
10.2000	-4.65E-04	694.1694	-277.7698	-2.35E-04	4092.	2850053.	37.3920	16095.	0.00
10.4000	-5.07E-04	639.3633	-270.1816	-1.88E-04	3769.	2850053.	38.4896	15190.	0.00
10.6000	-5.40E-04	586.0968	-262.4015	-1.45E-04	3455.	2850053.	39.3113	14562.	0.00
10.8000	-5.65E-04	534.4027	-254.4797	-1.06E-04	3150.	2850053.	39.9072	14130.	0.00
11.0000	-5.82E-04	484.3049	-246.4576	-7.01E-05	2855.	2850053.	40.3134	13847.	0.00
11.2000	-5.93E-04	435.8197	-237.3247	-3.78E-05	2569.	2850053.	51.0160	17209.	0.00
11.4000	-5.97E-04	389.3750	-226.4692	-8.89E-06	2295.	2850053.	57.5383	19263.	0.00
11.6000	-5.96E-04	345.2320	-214.9647	1.69E-05	2035.	2850053.	57.5076	19283.	0.00

11.8000	-5.91E-04	303.3892	-203.4818	3.96E-05	1788.	2850053.	57.3207	19409.	0.00
12.0000	-5.81E-04	263.8392	-192.0504	5.95E-05	1555.	2850053.	56.9935	19633.	0.00
12.2000	-5.67E-04	226.5690	-180.6971	7.68E-05	1336.	2850053.	56.5397	19949.	0.00
12.4000	-5.50E-04	191.5604	-169.4461	9.14E-05	1129.	2850053.	55.9707	20357.	0.00
12.6000	-5.30E-04	158.7906	-158.3193	1.04E-04	936.0113	2850053.	55.2967	20856.	0.00
12.8000	-5.08E-04	128.2327	-147.3370	1.14E-04	755.8837	2850053.	54.5262	21450.	0.00
13.0000	-4.85E-04	99.8558	-136.5177	1.22E-04	588.6126	2850053.	53.6670	22142.	0.00
13.2000	-4.60E-04	73.6256	-125.8784	1.28E-04	433.9953	2850053.	52.7259	22940.	0.00
13.4000	-4.34E-04	49.5044	-115.4349	1.32E-04	291.8100	2850053.	51.7088	23851.	0.00
13.6000	-4.07E-04	27.4516	-105.2019	1.35E-04	161.8169	2850053.	50.6213	24887.	0.00
13.8000	-3.80E-04	7.4236	-95.1930	1.36E-04	43.7595	2850053.	49.4681	26061.	0.00
14.0000	-3.52E-04	-10.6256	-85.4208	1.36E-04	62.6340	2850053.	48.2538	27389.	0.00
14.2000	-3.25E-04	-26.7447	-75.8972	1.35E-04	157.6500	2850053.	46.9823	28892.	0.00
14.4000	-2.98E-04	-40.9845	-66.6332	1.32E-04	241.5882	2850053.	45.6571	30594.	0.00
14.6000	-2.72E-04	-53.3980	-57.6394	1.29E-04	314.7612	2850053.	44.2813	32524.	0.00
14.8000	-2.47E-04	-64.0402	-48.9255	1.25E-04	377.4933	2850053.	42.8577	34721.	0.00
15.0000	-2.22E-04	-72.9682	-40.5009	1.20E-04	430.1202	2850053.	41.3886	37230.	0.00
15.2000	-1.99E-04	-80.2406	-32.3745	1.15E-04	472.9883	2850053.	39.8755	40109.	0.00
15.4000	-1.76E-04	-85.9180	-24.5549	1.09E-04	506.4544	2850053.	38.3196	43432.	0.00
15.6000	-1.55E-04	-90.0626	-17.0508	1.03E-04	530.8852	2850053.	36.7213	47296.	0.00
15.8000	-1.35E-04	-92.7383	-9.8707	9.63E-05	546.6577	2850053.	35.0797	51826.	0.00
16.0000	-1.17E-04	-94.0109	-3.0235	8.97E-05	554.1590	2850053.	33.3927	57195.	0.00
16.2000	-9.95E-05	-93.9477	3.4814	8.31E-05	553.7867	2850053.	31.6561	63643.	0.00
16.4000	-8.35E-05	-92.6183	9.6333	7.66E-05	545.9504	2850053.	29.8626	71517.	0.00
16.6000	-6.88E-05	-90.0944	15.4196	7.02E-05	531.0729	2850053.	28.0004	81347.	0.00
16.8000	-5.54E-05	-86.4505	20.8246	6.40E-05	509.5933	2850053.	26.0504	93982.	0.00
17.0000	-4.32E-05	-81.7645	25.8278	5.81E-05	481.9715	2850053.	23.9808	110906.	0.00
17.2000	-3.22E-05	-76.1194	30.3994	5.25E-05	448.6953	2850053.	21.7359	135001.	0.00
17.4000	-2.22E-05	-69.6048	34.4940	4.74E-05	410.2941	2850053.	19.2092	172858.	0.00
17.6000	-1.32E-05	-62.3218	38.0307	4.28E-05	367.3636	2850053.	16.1580	244326.	0.00
17.8000	-5.10E-06	-54.3925	40.8228	3.87E-05	320.6234	2850053.	11.7636	461101.	0.00
18.0000	2.26E-06	-45.9926	41.1032	3.52E-05	271.1095	2850053.	-8.9603	793493.	0.00
18.2000	8.97E-06	-37.9512	38.7876	3.22E-05	223.7082	2850053.	-14.1959	316387.	0.00
18.4000	1.52E-05	-30.4776	35.6773	2.98E-05	179.6542	2850053.	-16.9065	223094.	0.00
18.6000	2.09E-05	-23.6803	32.1045	2.79E-05	139.5864	2850053.	-18.8216	180013.	0.00
18.8000	2.63E-05	-17.6358	28.1898	2.65E-05	103.9565	2850053.	-20.3253	154366.	0.00
19.0000	3.15E-05	-12.4044	23.9995	2.54E-05	73.1190	2850053.	-21.5781	136965.	0.00
19.2000	3.65E-05	-8.0360	19.5752	2.47E-05	47.3693	2850053.	-22.6642	124154.	0.00
19.4000	4.14E-05	-4.5743	14.9455	2.43E-05	26.9635	2850053.	-23.6337	114178.	0.00
19.6000	4.62E-05	-2.0578	10.1303	2.40E-05	12.1302	2850053.	-24.5182	106089.	0.00
19.8000	5.10E-05	-0.5222	5.1446	2.40E-05	3.0779	2850053.	-25.3384	99333.	0.00
20.0000	5.58E-05	0.00	0.00	2.39E-05	0.00	2850053.	-26.1075	46783.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 8:

Pile-head deflection = 0.02889798 meters
Computed slope at pile head = -0.00559088 radians
Maximum bending moment = 2143. kN-m
Maximum shear force = 950.00000000 kN
Depth of maximum bending moment = 3.40000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 57
Number of zero deflection points = 2

Summary of Pile-head Responses for Conventional Analyses

Definitions of Pile-head Loading Conditions:

Load Type 1: Load 1 = Shear, V, kN, and Load 2 = Moment, M, kN-m
Load Type 2: Load 1 = Shear, V, kN, and Load 2 = Slope, S, radians
Load Type 3: Load 1 = Shear, V, kN, and Load 2 = Rot. Stiffness, R, kN-m/rad.
Load Type 4: Load 1 = Top Deflection, y, m, and Load 2 = Moment, M, kN-m
Load Type 5: Load 1 = Top Deflection, y, m, and Load 2 = Slope, S, radians

Load Case No.	Load Type 1	Pile-head Load 1	Load Type 2	Pile-head Load 2	Axial Loading kN	Pile-head Deflection meters	Pile-head Rotation radians	Max Shear in Pile kN	Max Moment in Pile kN-m
1	V, kN	100.0000	M, kN-m	0.00	0.00	5.52E-04	-1.98E-04	100.0000	143.9909
2	V, kN	125.0000	M, kN-m	0.00	0.00	7.41E-04	-2.60E-04	125.0000	184.8114
3	V, kN	170.0000	M, kN-m	0.00	0.00	0.00114	-3.84E-04	170.0000	260.1256
4	V, kN	210.0000	M, kN-m	0.00	0.00	0.00156	-5.05E-04	210.0000	328.9741
5	V, kN	250.0000	M, kN-m	0.00	0.00	0.00203	-6.33E-04	250.0000	398.6052
6	V, kN	300.0000	M, kN-m	0.00	0.00	0.00268	-8.05E-04	300.0000	487.3517
7	V, kN	350.0000	M, kN-m	0.00	0.00	0.00342	-9.93E-04	350.0000	580.4638
8	V, kN	950.0000	M, kN-m	0.00	0.00	0.02890	-0.00559	950.0000	2143.

Maximum pile-head deflection = 0.0288979844 meters
Maximum pile-head rotation = -0.0055908811 radians = -0.320334 deg.

The analysis ended normally.

Opera VI03– D1500

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LPile for Windows, Version 2016-09.009

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method
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Files Used for Analysis

Path to file locations:
\m9159\Work\07_Pali\VI03\LPILE\

Name of input data file:
VI03_spalle-pila_D1500.lp9d

Name of output report file:
VI03_spalle-pila_D1500.lp9o

Name of plot output file:
VI03_spalle-pila_D1500.lp9p

Name of runtime message file:
VI03_spalle-pila_D1500.lp9r

Date and Time of Analysis

Date: June 10, 2019 Time: 14:49:04

Problem Title

Project Name: VI02 - Spalle e pila
Job Number:
Client:
Engineer:
Description:

Program Options and Settings

Computational Options:
- Use unfactored loads in computations (conventional analysis)

Engineering Units Used for Data Input and Computations:
- International System Units (kilonewtons, meters, millimeters)

Analysis Control Options:
- Maximum number of iterations allowed = 500
- Deflection tolerance for convergence = 2.5400E-07 m
- Maximum allowable deflection = 2.5400 m
- Number of pile increments = 100

Loading Type and Number of Cycles of Loading:
- Static loading specified

- Use of p-y modification factors for p-y curves not selected
- No distributed lateral loads are entered
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected

- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:
- Output files use decimal points to denote decimal symbols.
- Values of pile-head deflection, bending moment, shear force, and soil reaction are printed for full length of pile.
- Printing Increment (nodal spacing of output points) = 1
- p-y curves computed and reported at user-specified depths
- Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined = 1
Total length of pile = 20.000 m
Depth of ground surface below top of pile = 0.0000 m

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point	Depth Below Pile Head meters	Pile Diameter millimeters
1	0.000	1500.00
2	20.000	1500.00

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is an elastic pile
Cross-sectional Shape = Circular Pile
Length of section = 20.000000 m

Width of top of section = 1.500000 m
Width of bottom of section = 1.500000 m
Top Area = 1.767146 sq. m
Bottom Area = 1.767146 sq. m
Moment of Inertia at Top = 0.248505 m^4
Moment of Inertia at Bottom = 0.248505 m^4
Elastic Modulus = 28000000. kPa

Ground Slope and Pile Batter Angles

Ground Slope Angle = 0.000 degrees
= 0.000 radians

Pile Batter Angle = 0.000 degrees
= 0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 3 layers

Layer 1 is stiff clay with water-induced erosion

Distance from top of pile to top of layer = 0.0000 m
Distance from top of pile to bottom of layer = 3.600000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 80.000000 kPa
Undrained cohesion at bottom of layer = 80.000000 kPa
Epsilon-50 at top of layer = 0.007000
Epsilon-50 at bottom of layer = 0.007000
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 2 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 3.600000 m
Distance from top of pile to bottom of layer = 11.200000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 35.000000 kPa
Undrained cohesion at bottom of layer = 35.000000 kPa
Epsilon-50 at top of layer = 0.020000
Epsilon-50 at bottom of layer = 0.020000

Layer 3 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 11.200000 m
Distance from top of pile to bottom of layer = 20.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 45.000000 kPa
Undrained cohesion at bottom of layer = 45.000000 kPa
Epsilon-50 at top of layer = 0.015000
Epsilon-50 at bottom of layer = 0.015000

(Depth of the lowest soil layer extends 0.000 m below the pile tip)

Summary of Input Soil Properties

Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth m	Effective Unit Wt. kN/m3	Undrained Cohesion kPa	E50 or krm	kpy kN/m3
1	Stiff Clay	0.00	9.0000	80.0000	0.00700	default
	with Free Water	3.6000	9.0000	80.0000	0.00700	default
2	Soft	3.6000	9.0000	35.0000	0.02000	--
	Clay	11.2000	9.0000	35.0000	0.02000	--
3	Soft	11.2000	9.0000	45.0000	0.01500	--
	Clay	20.0000	9.0000	45.0000	0.01500	--

Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 5

Load No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, kN	Compute Top y vs. Pile Length
1	1	V = 200.000000 kN	M = 0.0000 m-kN	0.0000000	No
2	1	V = 300.000000 kN	M = 0.0000 m-kN	0.0000000	No
3	1	V = 400.000000 kN	M = 0.0000 m-kN	0.0000000	No
4	1	V = 500.000000 kN	M = 0.0000 m-kN	0.0000000	No
5	1	V = 1200. kN	M = 0.0000 m-kN	0.0000000	No

V = shear force applied normal to pile axis
M = bending moment applied to pile head
y = lateral deflection normal to pile axis
S = pile slope relative to original pile batter angle
R = rotational stiffness applied to pile head
Values of top y vs. pile lengths can be computed only for load types with
specified shear loading (Load Types 1, 2, and 3).
Thrust force is assumed to be acting axially for all pile batter angles.

Specified Depths for Output of p-y Curves

Lateral load-transfer (p-y) curves are computed and output at 8 depths.
(Note that load-transfer values are computeded at the specified depths and
may differ from values computed at nodal points)

Depth No.	Depth Below Pile Head m	Depth Below Ground Surface m

1	0.200	0.200
2	3.400	3.400
3	3.800	3.800
4	9.000	9.000
5	11.000	11.000
6	11.400	11.400
7	16.000	16.000
8	19.800	19.800

Depth of ground surface below top of pile = 0.0000 m

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

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Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Moment-curvature properties were derived from elastic section properties

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Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head meters	Equivalent Top Depth Below Grnd Surf meters	Same Layer Type As Layer Above	Layer is Rock or is Below Rock Layer	F0 Integral for Layer kN	F1 Integral for Layer kN
1	0.00	0.00	N.A.	No	0.00	184.0461
2	3.6000	1.0583	No	No	184.0461	2606.
3	11.2000	8.6583	Yes	No	2790.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals

for Layer n. Layering correction equivalent depths are computed only for soil types with both shallow-depth and deep-depth expressions for peak lateral load transfer. These soil types are soft and stiff clays, non-liquefied sands, and cemented c-phi soil.

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p-y Curves Reported for Specified Depths

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p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 0.200 m
Depth of p-y curve below ground surface = 0.200 m
Equivalent depth of p-y curve = 0.200 m
Pile diameter = 1500.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.011 m
As = 0.27257
Ac (not used) = 0.21914
pct = 287.980 kN/m
pcd = 1320.000 kN/m
pc = 287.980 kN/m
pu = 6.909 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00143	38.84380

0.00286	75.17456
0.00429	85.41022
0.00572	90.47399
0.00715	92.56848
0.00859	92.53470
0.01002	90.84782
0.01145	87.81363
0.01288	83.64474
0.01431	78.49708
0.01574	72.48962
0.01717	65.71592
0.02862	46.15590
0.04007	26.53227
0.05152	6.90863
0.05438	6.90863

p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 3.400 m
Depth of p-y curve below ground surface = 3.400 m
Equivalent depth of p-y curve = 3.400 m
Pile diameter = 1500.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.011 m
As = 0.58161
Ac (not used) = 0.30000
pct = 1055.660 kN/m
pcd = 1320.000 kN/m
pc = 1055.660 kN/m
pu = 91.657 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00305	284.63861
0.00611	402.53978
0.00916	468.59676
0.01221	511.21591
0.01527	540.08819
0.01832	559.12552
0.02137	570.56242
0.02443	575.84065
0.02748	575.96253
0.03053	571.66199
0.03359	563.49763
0.03664	551.90758
0.06107	398.64604
0.08550	245.15129
0.10992	91.65653
0.11603	91.65653

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 3.600 m
Depth of p-y curve below pile head = 3.800 m
Depth of p-y curve below ground surface = 3.800 m
Equiv. depth of p-y curve below ground surface = 1.258 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1500.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 10.161 m
Static pu_s for flat ground = 230.821 kN/m
Static pu_d for flat ground = 472.500 kN/m
y_50 = 0.07500 m
p-multiplier = 1.000

y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 230.821 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00017778	15.38804
0.00142	30.77608
0.00480	46.16412
0.01138	61.55216
0.02222	76.94020
0.03840	92.32824
0.06098	107.71627
0.09102	123.10431
0.12960	138.49235
0.17778	153.88039
0.23662	169.26843
0.30720	184.65647
0.39058	200.04451
0.48782	215.43255
0.60000	230.82059
0.63750	230.82059

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 3.600 m
Depth of p-y curve below pile head = 9.000 m
Depth of p-y curve below ground surface = 9.000 m
Equiv. depth of p-y curve below ground surface = 6.458 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1500.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 10.161 m
Static pu_s for flat ground = 392.021 kN/m

Static pu_d for flat ground = 472.500 kN/m
y_50 = 0.07500 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 392.021 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00017778	26.13471
0.00142	52.26941
0.00480	78.40412
0.01138	104.53882
0.02222	130.67353
0.03840	156.80824
0.06098	182.94294
0.09102	209.07765
0.12960	235.21235
0.17778	261.34706
0.23662	287.48176
0.30720	313.61647
0.39058	339.75118
0.48782	365.88588
0.60000	392.02059
0.63750	392.02059

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 3.600 m
Depth of p-y curve below pile head = 11.000 m
Depth of p-y curve below ground surface = 11.000 m
Equiv. depth of p-y curve below ground surface = 11.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1500.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200

J (default value) = 0.5000
Transition depth Xr = 10.161 m
Static pu_s for flat ground = 498.500 kN/m
Static pu_d for flat ground = 472.500 kN/m
y_50 = 0.07500 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 472.500 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00017778	31.50000
0.00142	63.00000
0.00480	94.50000
0.01138	126.00000
0.02222	157.50000
0.03840	189.00000
0.06098	220.50000
0.09102	252.00000
0.12960	283.50000
0.17778	315.00000
0.23662	346.50000
0.30720	378.00000
0.39058	409.50000
0.48782	441.00000
0.60000	472.50000
0.63750	472.50000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 11.200 m
Depth of p-y curve below pile head = 11.400 m
Depth of p-y curve below ground surface = 11.400 m
Equiv. depth of p-y curve below ground surface = 11.400 m
Ground slope angle = 0.000 degrees

Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1500.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 11.250 m
Static pu_s for flat ground = 612.900 kN/m
Static pu_d for flat ground = 607.500 kN/m
y_50 = 0.05625 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 607.500 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00013333	40.50000
0.00107	81.00000
0.00360	121.50000
0.00853	162.00000
0.01667	202.50000
0.02880	243.00000
0.04573	283.50000
0.06827	324.00000
0.09720	364.50000
0.13333	405.00000
0.17747	445.50000
0.23040	486.00000
0.29293	526.50000
0.36587	567.00000
0.45000	607.50000
0.47812	607.50000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 11.200 m
Depth of p-y curve below pile head = 16.000 m

Depth of p-y curve below ground surface = 16.000 m
Equiv. depth of p-y curve below ground surface = 16.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1500.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 11.250 m
Static pu_s for flat ground = 778.500 kN/m
Static pu_d for flat ground = 607.500 kN/m
y_50 = 0.05625 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 607.500 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00013333	40.50000
0.00107	81.00000
0.00360	121.50000
0.00853	162.00000
0.01667	202.50000
0.02880	243.00000
0.04573	283.50000
0.06827	324.00000
0.09720	364.50000
0.13333	405.00000
0.17747	445.50000
0.23040	486.00000
0.29293	526.50000
0.36587	567.00000
0.45000	607.50000
0.47812	607.50000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 11.200 m
Depth of p-y curve below pile head = 19.800 m
Depth of p-y curve below ground surface = 19.800 m
Equiv. depth of p-y curve below ground surface = 19.800 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1500.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 11.250 m
Static pu_s for flat ground = 915.300 kN/m
Static pu_d for flat ground = 607.500 kN/m
y_50 = 0.05625 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 607.500 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00013333	40.50000
0.00107	81.00000
0.00360	121.50000
0.00853	162.00000
0.01667	202.50000
0.02880	243.00000
0.04573	283.50000
0.06827	324.00000
0.09720	364.50000
0.13333	405.00000
0.17747	445.50000
0.23040	486.00000
0.29293	526.50000
0.36587	567.00000
0.45000	607.50000
0.47812	607.50000

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 1

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 200.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	9.86E-04	-3.39E-10	200.0000	-2.64E-04	1.02E-09	6958137.	0.00	0.00	0.00
0.2000	9.33E-04	40.0000	197.4670	-2.64E-04	120.7220	6958137.	-25.3296	5429.	0.00
0.4000	8.81E-04	78.9868	190.1539	-2.62E-04	238.3861	6958137.	-47.8022	10858.	0.00
0.6000	8.28E-04	116.0615	179.9818	-2.59E-04	350.2795	6958137.	-53.9185	13019.	0.00
0.8000	7.77E-04	150.9795	168.7159	-2.55E-04	455.6637	6958137.	-58.7405	15123.	0.00
1.0000	7.26E-04	183.5479	156.5316	-2.51E-04	553.9566	6958137.	-63.1028	17379.	0.00
1.2000	6.77E-04	213.5922	143.5213	-2.45E-04	644.6317	6958137.	-67.0003	19805.	0.00
1.4000	6.28E-04	240.9564	129.7782	-2.38E-04	727.2183	6958137.	-70.4301	22421.	0.00
1.6000	5.81E-04	265.5035	115.3961	-2.31E-04	801.3025	6958137.	-73.3909	25251.	0.00
1.8000	5.36E-04	287.1149	100.4687	-2.23E-04	866.5268	6958137.	-75.8834	28323.	0.00
2.0000	4.92E-04	305.6909	85.0894	-2.15E-04	922.5903	6958137.	-77.9099	31668.	0.00
2.2000	4.50E-04	321.1506	69.3509	-2.06E-04	969.2484	6958137.	-79.4745	35321.	0.00
2.4000	4.10E-04	333.4313	53.3452	-1.96E-04	1006.	6958137.	-80.5826	39326.	0.00
2.6000	3.72E-04	342.4887	37.1629	-1.86E-04	1034.	6958137.	-81.2409	43731.	0.00
2.8000	3.35E-04	348.2965	20.8931	-1.77E-04	1051.	6958137.	-81.4571	48596.	0.00
3.0000	3.01E-04	350.8460	4.6234	-1.66E-04	1059.	6958137.	-81.2396	53990.	0.00
3.2000	2.69E-04	350.1458	-11.5602	-1.56E-04	1057.	6958137.	-80.5967	59999.	0.00
3.4000	2.38E-04	346.2219	-27.5735	-1.46E-04	1045.	6958137.	-79.5362	66729.	0.00
3.6000	2.10E-04	339.1164	-38.2415	-1.37E-04	1023.	6958137.	-27.1434	25838.	0.00
3.8000	1.84E-04	330.9253	-42.5119	-1.27E-04	998.7488	6958137.	-15.5610	16935.	0.00
4.0000	1.59E-04	322.1117	-45.5917	-1.18E-04	972.1490	6958137.	-15.2374	19125.	0.00
4.2000	1.37E-04	312.6886	-48.6015	-1.08E-04	943.7096	6958137.	-14.8602	21731.	0.00
4.4000	1.16E-04	302.6711	-51.5300	-9.96E-05	913.4763	6958137.	-14.4252	24874.	0.00
4.6000	9.69E-05	292.0766	-54.3652	-9.10E-05	881.5015	6958137.	-13.9269	28731.	0.00
4.8000	7.96E-05	280.9250	-57.0937	-8.28E-05	847.8455	6958137.	-13.3578	33569.	0.00

5.0000	6.38E-05	269.2391	-59.7002	-7.49E-05	812.5769	6958137.	-12.7069	39810.	0.00
5.2000	4.96E-05	257.0449	-62.1666	-6.73E-05	775.7743	6958137.	-11.9574	48177.	0.00
5.4000	3.69E-05	244.3725	-64.4705	-6.01E-05	737.5281	6958137.	-11.0819	60035.	0.00
5.6000	2.56E-05	231.2567	-66.5818	-5.33E-05	697.9442	6958137.	-10.0312	78363.	0.00
5.8000	1.56E-05	217.7397	-68.4550	-4.68E-05	657.1492	6958137.	-8.7007	111439.	0.00
6.0000	6.88E-06	203.8747	-70.0037	-4.07E-05	615.3039	6958137.	-6.7858	197253.	0.00
6.2000	-6.83E-07	189.7382	-70.3831	-3.51E-05	572.6394	6958137.	2.9915	876407.	0.00
6.4000	-7.15E-06	175.7215	-69.3771	-2.98E-05	530.3360	6958137.	7.0685	197584.	0.00
6.6000	-1.26E-05	161.9874	-67.7970	-2.50E-05	488.8860	6958137.	8.7331	138435.	0.00
6.8000	-1.71E-05	148.6027	-65.9365	-2.05E-05	448.4902	6958137.	9.8715	115134.	0.00
7.0000	-2.08E-05	135.6128	-63.8755	-1.64E-05	409.2861	6958137.	10.7382	103131.	0.00
7.2000	-2.37E-05	123.0525	-61.6589	-1.27E-05	371.3784	6958137.	11.4282	96353.	0.00
7.4000	-2.59E-05	110.9492	-59.3173	-9.35E-06	334.8503	6958137.	11.9882	92533.	0.00
7.6000	-2.75E-05	99.3256	-56.8739	-6.33E-06	299.7694	6958137.	12.4451	90632.	0.00
7.8000	-2.84E-05	88.1997	-54.3478	-3.64E-06	266.1910	6958137.	12.8159	90114.	0.00
8.0000	-2.89E-05	77.5864	-51.7550	-1.25E-06	234.1597	6958137.	13.1119	90685.	0.00
8.2000	-2.89E-05	67.4977	-49.1097	8.31E-07	203.7113	6958137.	13.3411	92181.	0.00
8.4000	-2.86E-05	57.9425	-46.4247	2.63E-06	174.8734	6958137.	13.5092	94520.	0.00
8.6000	-2.79E-05	48.9278	-43.7117	4.17E-06	147.6664	6958137.	13.6207	97669.	0.00
8.8000	-2.69E-05	40.4579	-40.9817	5.45E-06	122.1038	6958137.	13.6790	101638.	0.00
9.0000	-2.57E-05	32.5351	-38.2452	6.50E-06	98.1925	6958137.	13.6865	106469.	0.00
9.2000	-2.43E-05	25.1598	-35.5120	7.33E-06	75.9334	6958137.	13.6455	112236.	0.00
9.4000	-2.28E-05	18.3303	-32.7917	7.96E-06	55.3217	6958137.	13.5574	119046.	0.00
9.6000	-2.11E-05	12.0431	-30.0936	8.39E-06	36.3467	6958137.	13.4237	127043.	0.00
9.8000	-1.94E-05	6.2928	-27.4267	8.66E-06	18.9921	6958137.	13.2453	136416.	0.00
10.0000	-1.77E-05	1.0724	-24.7998	8.76E-06	3.2366	6958137.	13.0232	147410.	0.00
10.2000	-1.59E-05	-3.6271	-22.0931	8.73E-06	10.9467	6958137.	14.0446	176511.	0.00
10.4000	-1.42E-05	-7.7648	-19.3375	8.56E-06	23.4346	6958137.	13.5108	190581.	0.00
10.6000	-1.25E-05	-11.3621	-16.6917	8.29E-06	34.2914	6958137.	12.9471	207348.	0.00
10.8000	-1.09E-05	-14.4415	-14.1615	7.92E-06	43.5852	6958137.	12.3549	227462.	0.00
11.0000	-9.32E-06	-17.0267	-11.7525	7.47E-06	51.3875	6958137.	11.7355	251799.	0.00
11.2000	-7.88E-06	-19.1425	-9.1840	6.95E-06	57.7730	6958137.	13.9497	354180.	0.00
11.4000	-6.54E-06	-20.7003	-6.3146	6.37E-06	62.4745	6958137.	14.7441	450674.	0.00
11.6000	-5.33E-06	-21.6683	-3.4642	5.76E-06	65.3961	6958137.	13.7597	516498.	0.00
11.8000	-4.24E-06	-22.0860	-0.8142	5.14E-06	66.6566	6958137.	12.7398	601277.	0.00
12.0000	-3.27E-06	-21.9940	1.6280	4.50E-06	66.3791	6958137.	11.6823	713633.	0.00
12.2000	-2.44E-06	-21.4348	3.8545	3.88E-06	64.6912	6958137.	10.5828	868532.	0.00
12.4000	-1.72E-06	-20.4522	5.8561	3.28E-06	61.7258	6958137.	9.4328	1094881.	0.00
12.6000	-1.13E-06	-19.0924	7.6210	2.71E-06	57.6217	6958137.	8.2170	1458494.	0.00
12.8000	-6.40E-07	-17.4038	9.1338	2.18E-06	52.5256	6958137.	6.9105	2158751.	0.00
13.0000	-2.54E-07	-15.4389	9.8421	1.71E-06	46.5952	6958137.	0.1723	135828.	0.00
13.2000	4.40E-08	-13.4670	9.8563	1.30E-06	40.6441	6958137.	-0.02989	135828.	0.00
13.4000	2.64E-07	-11.4963	9.8354	9.36E-07	34.6965	6958137.	-0.1795	135828.	0.00
13.6000	4.19E-07	-9.5329	9.7890	6.34E-07	28.7706	6958137.	-0.2843	135828.	0.00

13.8000	5.18E-07	-7.5807	9.2169	3.88E-07	22.8791	6958137.	-5.4363	2098873.	0.00
14.0000	5.74E-07	-5.8461	8.1150	1.95E-07	17.6438	6958137.	-5.5827	1945612.	0.00
14.2000	5.96E-07	-4.3347	6.9971	4.90E-08	13.0825	6958137.	-5.5959	1877404.	0.00
14.4000	5.93E-07	-3.0472	5.8849	-5.71E-08	9.1967	6958137.	-5.5271	1862645.	0.00
14.6000	5.73E-07	-1.9808	4.7912	-1.29E-07	5.9782	6958137.	-5.4098	1887303.	0.00
14.8000	5.42E-07	-1.1308	3.7233	-1.74E-07	3.4127	6958137.	-5.2685	1945149.	0.00
15.0000	5.04E-07	-0.4915	2.6843	-1.97E-07	1.4833	6958137.	-5.1224	2034167.	0.00
15.2000	4.63E-07	-0.05706	1.6734	-2.05E-07	0.1722	6958137.	-4.9863	2155143.	0.00
15.4000	4.22E-07	0.1779	0.6877	-2.04E-07	0.5369	6958137.	-4.8710	2311192.	0.00
15.6000	3.81E-07	0.2180	0.1747	-1.98E-07	0.6579	6958137.	-0.2590	135828.	0.00
15.8000	3.42E-07	0.2478	0.1255	-1.91E-07	0.7477	6958137.	-0.2325	135828.	0.00
16.0000	3.05E-07	0.2682	0.08156	-1.84E-07	0.8095	6958137.	-0.2070	135828.	0.00
16.2000	2.69E-07	0.2804	0.04260	-1.76E-07	0.8462	6958137.	-0.1826	135828.	0.00
16.4000	2.34E-07	0.2852	0.00842	-1.68E-07	0.8609	6958137.	-0.1592	135828.	0.00
16.6000	2.02E-07	0.2837	-0.02121	-1.60E-07	0.8564	6958137.	-0.1370	135828.	0.00
16.8000	1.71E-07	0.2768	-0.04650	-1.52E-07	0.8353	6958137.	-0.1159	135828.	0.00
17.0000	1.41E-07	0.2651	-0.06767	-1.44E-07	0.8002	6958137.	-0.09585	135828.	0.00
17.2000	1.13E-07	0.2497	-0.08494	-1.36E-07	0.7536	6958137.	-0.07684	135828.	0.00
17.4000	8.66E-08	0.2312	-0.09850	-1.29E-07	0.6977	6958137.	-0.05881	135828.	0.00
17.6000	6.14E-08	0.2103	-0.1086	-1.23E-07	0.6347	6958137.	-0.04168	135828.	0.00
17.8000	3.74E-08	0.1878	-0.1153	-1.17E-07	0.5666	6958137.	-0.02538	135828.	0.00
18.0000	1.44E-08	0.1642	-0.1188	-1.12E-07	0.4955	6958137.	-0.00980	135828.	0.00
18.2000	-7.56E-09	0.1402	-0.1192	-1.08E-07	0.4233	6958137.	0.00513	135828.	0.00
18.4000	-2.87E-08	0.1165	-0.1168	-1.04E-07	0.3516	6958137.	0.01952	135828.	0.00
18.6000	-4.93E-08	0.09353	-0.1115	-1.01E-07	0.2823	6958137.	0.03345	135828.	0.00
18.8000	-6.92E-08	0.07190	-0.1034	-9.88E-08	0.2170	6958137.	0.04702	135828.	0.00
19.0000	-8.88E-08	0.05215	-0.09270	-9.71E-08	0.1574	6958137.	0.06030	135828.	0.00
19.2000	-1.08E-07	0.03482	-0.07933	-9.58E-08	0.1051	6958137.	0.07338	135828.	0.00
19.4000	-1.27E-07	0.02042	-0.06336	-9.50E-08	0.06163	6958137.	0.08633	135828.	0.00
19.6000	-1.46E-07	0.00947	-0.04481	-9.46E-08	0.02860	6958137.	0.09920	135828.	0.00
19.8000	-1.65E-07	0.00250	-0.02369	-9.44E-08	0.00754	6958137.	0.1120	135828.	0.00
20.0000	-1.84E-07	0.00	0.00	-9.44E-08	0.00	6958137.	0.1248	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 1:

Pile-head deflection = 0.00098599 meters
Computed slope at pile head = -0.00026429 radians
Maximum bending moment = 350.84595380 kN-m
Maximum shear force = 200.00000000 kN
Depth of maximum bending moment = 3.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head

Number of iterations = 20

Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 2

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 300.000 kN

Applied moment at pile head = 0.000 kN-m

Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00185	-7.92E-10	300.0000	-4.53E-04	2.39E-09	6958137.	0.00	0.00	0.00
0.2000	0.00176	60.0000	295.2257	-4.52E-04	181.0830	6958137.	-47.7426	5429.	0.00
0.4000	0.00167	118.0903	283.7548	-4.50E-04	356.4023	6958137.	-66.9666	8027.	0.00
0.6000	0.00158	173.5019	269.6134	-4.45E-04	523.6374	6958137.	-74.4479	9430.	0.00
0.8000	0.00149	225.9356	254.0317	-4.40E-04	681.8849	6958137.	-81.3685	10919.	0.00
1.0000	0.00140	275.1146	237.1229	-4.32E-04	830.3095	6958137.	-87.7203	12504.	0.00
1.2000	0.00132	320.7848	219.0011	-4.24E-04	968.1443	6958137.	-93.4976	14194.	0.00
1.4000	0.00123	362.7150	199.7817	-4.14E-04	1095.	6958137.	-98.6965	16002.	0.00
1.6000	0.00115	400.6974	179.5805	-4.03E-04	1209.	6958137.	-103.3155	17940.	0.00
1.8000	0.00107	434.5472	158.5134	-3.91E-04	1311.	6958137.	-107.3550	20023.	0.00
2.0000	9.95E-04	464.1028	136.6962	-3.78E-04	1401.	6958137.	-110.8175	22268.	0.00
2.2000	9.21E-04	489.2257	114.2437	-3.64E-04	1477.	6958137.	-113.7073	24692.	0.00
2.4000	8.50E-04	509.8003	91.2699	-3.50E-04	1539.	6958137.	-116.0302	27317.	0.00
2.6000	7.81E-04	525.7337	67.8875	-3.35E-04	1587.	6958137.	-117.7938	30167.	0.00
2.8000	7.15E-04	536.9553	44.2075	-3.20E-04	1621.	6958137.	-119.0066	33269.	0.00
3.0000	6.53E-04	543.4167	20.3390	-3.04E-04	1640.	6958137.	-119.6782	36657.	0.00
3.2000	5.94E-04	545.0909	-3.6106	-2.89E-04	1645.	6958137.	-119.8181	40368.	0.00
3.4000	5.37E-04	541.9724	-27.5360	-2.73E-04	1636.	6958137.	-119.4359	44447.	0.00
3.6000	4.84E-04	534.0765	-43.0659	-2.58E-04	1612.	6958137.	-35.8624	14808.	0.00
3.8000	4.34E-04	524.7461	-48.7252	-2.43E-04	1584.	6958137.	-20.7310	9546.	0.00
4.0000	3.87E-04	514.5864	-52.8474	-2.28E-04	1553.	6958137.	-20.4912	10580.	0.00
4.2000	3.43E-04	503.6071	-56.9164	-2.13E-04	1520.	6958137.	-20.1989	11767.	0.00
4.4000	3.02E-04	491.8198	-60.9215	-1.99E-04	1484.	6958137.	-19.8518	13139.	0.00
4.6000	2.64E-04	479.2385	-64.8514	-1.85E-04	1446.	6958137.	-19.4473	14740.	0.00

4.8000	2.28E-04	465.8793	-68.6943	-1.71E-04	1406.	6958137.	-18.9819	16629.	0.00
5.0000	1.95E-04	451.7608	-72.4376	-1.58E-04	1363.	6958137.	-18.4512	18883.	0.00
5.2000	1.65E-04	436.9042	-76.0677	-1.45E-04	1319.	6958137.	-17.8494	21617.	0.00
5.4000	1.37E-04	421.3337	-79.5695	-1.33E-04	1272.	6958137.	-17.1686	24996.	0.00
5.6000	1.12E-04	405.0764	-82.9261	-1.21E-04	1223.	6958137.	-16.3973	29276.	0.00
5.8000	8.90E-05	388.1633	-86.1177	-1.10E-04	1171.	6958137.	-15.5190	34874.	0.00
6.0000	6.82E-05	370.6293	-89.1204	-9.86E-05	1119.	6958137.	-14.5077	42538.	0.00
6.2000	4.96E-05	352.5151	-91.9031	-8.82E-05	1064.	6958137.	-13.3194	53759.	0.00
6.4000	3.29E-05	333.8681	-94.4220	-7.84E-05	1008.	6958137.	-11.8699	72113.	0.00
6.6000	1.82E-05	314.7463	-96.6051	-6.90E-05	949.9198	6958137.	-9.9610	109416.	0.00
6.8000	5.30E-06	295.2260	-98.2833	-6.03E-05	891.0067	6958137.	-6.8204	257171.	0.00
7.0000	-5.90E-06	275.4330	-98.2693	-5.21E-05	831.2702	6958137.	6.9603	235859.	0.00
7.2000	-1.55E-05	255.9183	-96.5847	-4.44E-05	772.3741	6958137.	9.8859	127355.	0.00
7.4000	-2.37E-05	236.7991	-94.4347	-3.74E-05	714.6713	6958137.	11.6138	98103.	0.00
7.6000	-3.05E-05	218.1444	-91.9861	-3.08E-05	658.3706	6958137.	12.8727	84502.	0.00
7.8000	-3.60E-05	200.0047	-89.3129	-2.48E-05	603.6239	6958137.	13.8585	76985.	0.00
8.0000	-4.04E-05	182.4192	-86.4615	-1.93E-05	550.5503	6958137.	14.6562	72574.	0.00
8.2000	-4.37E-05	165.4201	-83.4647	-1.43E-05	499.2459	6958137.	15.3111	70029.	0.00
8.4000	-4.61E-05	149.0333	-80.3486	-9.79E-06	449.7900	6958137.	15.8503	68742.	0.00
8.6000	-4.76E-05	133.2806	-77.1344	-5.74E-06	402.2475	6958137.	16.2915	68387.	0.00
8.8000	-4.84E-05	118.1796	-73.8406	-2.12E-06	356.6718	6958137.	16.6470	68776.	0.00
9.0000	-4.85E-05	103.7444	-70.4833	1.07E-06	313.1057	6958137.	16.9254	69804.	0.00
9.2000	-4.80E-05	89.9862	-67.0775	3.85E-06	271.5829	6958137.	17.1331	71414.	0.00
9.4000	-4.70E-05	76.9134	-63.6367	6.25E-06	232.1285	6958137.	17.2750	73584.	0.00
9.6000	-4.55E-05	64.5316	-60.1737	8.28E-06	194.7595	6958137.	17.3550	76316.	0.00
9.8000	-4.36E-05	52.8439	-56.7006	9.97E-06	159.4856	6958137.	17.3761	79634.	0.00
10.0000	-4.15E-05	41.8513	-53.2289	1.13E-05	126.3094	6958137.	17.3405	83581.	0.00
10.2000	-3.91E-05	31.5524	-49.5959	1.24E-05	95.2266	6958137.	18.9899	97116.	0.00
10.4000	-3.65E-05	22.0130	-45.8404	1.32E-05	66.4363	6958137.	18.5644	101612.	0.00
10.6000	-3.38E-05	13.2162	-42.1744	1.37E-05	39.8872	6958137.	18.0957	106932.	0.00
10.8000	-3.11E-05	5.1432	-38.6061	1.39E-05	15.5225	6958137.	17.5871	113192.	0.00
11.0000	-2.83E-05	-2.2263	-35.1433	1.40E-05	6.7189	6958137.	17.0412	120539.	0.00
11.2000	-2.55E-05	-8.9141	-31.3687	1.38E-05	26.9032	6958137.	20.7053	162473.	0.00
11.4000	-2.28E-05	-14.7737	-27.0555	1.35E-05	44.5878	6958137.	22.4262	197138.	0.00
11.6000	-2.01E-05	-19.7363	-22.6612	1.30E-05	59.5651	6958137.	21.5166	214087.	0.00
11.8000	-1.76E-05	-23.8382	-18.4529	1.23E-05	71.9449	6958137.	20.5672	234208.	0.00
12.0000	-1.52E-05	-27.1175	-14.4381	1.16E-05	81.8418	6958137.	19.5806	258272.	0.00
12.2000	-1.29E-05	-29.6135	-10.6242	1.08E-05	89.3749	6958137.	18.5583	287322.	0.00
12.4000	-1.08E-05	-31.3671	-7.0182	9.92E-06	94.6675	6958137.	17.5017	322797.	0.00
12.6000	-8.95E-06	-32.4207	-3.6269	9.00E-06	97.8474	6958137.	16.4111	366741.	0.00
12.8000	-7.24E-06	-32.8179	-0.4572	8.07E-06	99.0460	6958137.	15.2860	422147.	0.00
13.0000	-5.72E-06	-32.6036	2.4838	7.13E-06	98.3993	6958137.	14.1241	493589.	0.00
13.2000	-4.39E-06	-31.8244	5.1883	6.20E-06	96.0475	6958137.	12.9204	588439.	0.00
13.4000	-3.24E-06	-30.5283	7.6469	5.30E-06	92.1359	6958137.	11.6655	719474.	0.00

13.6000	-2.27E-06	-28.7656	9.8475	4.45E-06	86.8161	6958137.	10.3407	911221.	0.00
13.8000	-1.46E-06	-26.5893	11.7723	3.66E-06	80.2479	6958137.	8.9074	1218643.	0.00
14.0000	-8.07E-07	-24.0567	13.3901	2.93E-06	72.6043	6958137.	7.2709	1802137.	0.00
14.2000	-2.90E-07	-21.2333	14.1369	2.28E-06	64.0830	6958137.	0.1971	135828.	0.00
14.4000	1.04E-07	-18.4019	14.1496	1.71E-06	55.5380	6958137.	-0.07082	135828.	0.00
14.6000	3.93E-07	-15.5734	14.1158	1.22E-06	47.0014	6958137.	-0.2670	135828.	0.00
14.8000	5.92E-07	-12.7556	13.4276	8.13E-07	38.4971	6958137.	-6.6150	2233530.	0.00
15.0000	7.18E-07	-10.2024	12.0658	4.83E-07	30.7914	6958137.	-7.0025	1949838.	0.00
15.2000	7.86E-07	-7.9293	10.6498	2.22E-07	23.9310	6958137.	-7.1581	1822458.	0.00
15.4000	8.07E-07	-5.9425	9.2185	2.31E-08	17.9347	6958137.	-7.1548	1772658.	0.00
15.6000	7.95E-07	-4.2419	7.7997	-1.23E-07	12.8022	6958137.	-7.0326	1769699.	0.00
15.8000	7.58E-07	-2.8226	6.4148	-2.25E-07	8.5187	6958137.	-6.8169	1798820.	0.00
16.0000	7.05E-07	-1.6760	5.0805	-2.89E-07	5.0582	6958137.	-6.5263	1851798.	0.00
16.2000	6.42E-07	-0.7904	3.8102	-3.25E-07	2.3855	6958137.	-6.1761	1923575.	0.00
16.4000	5.75E-07	-0.1519	2.6145	-3.38E-07	0.4584	6958137.	-5.7810	2011144.	0.00
16.6000	5.07E-07	0.2554	1.5008	-3.37E-07	0.7708	6958137.	-5.3558	2113684.	0.00
16.8000	4.40E-07	0.4484	0.4737	-3.27E-07	1.3534	6958137.	-4.9156	2233792.	0.00
17.0000	3.76E-07	0.4448	-0.04344	-3.14E-07	1.3426	6958137.	-0.2554	135828.	0.00
17.2000	3.15E-07	0.4311	-0.09034	-3.01E-07	1.3009	6958137.	-0.2136	135828.	0.00
17.4000	2.55E-07	0.4087	-0.1290	-2.89E-07	1.2335	6958137.	-0.1735	135828.	0.00
17.6000	1.99E-07	0.3794	-0.1599	-2.78E-07	1.1451	6958137.	-0.1350	135828.	0.00
17.8000	1.44E-07	0.3448	-0.1832	-2.68E-07	1.0405	6958137.	-0.09797	135828.	0.00
18.0000	9.17E-08	0.3062	-0.1992	-2.58E-07	0.9240	6958137.	-0.06230	135828.	0.00
18.2000	4.10E-08	0.2651	-0.2082	-2.50E-07	0.8000	6958137.	-0.02782	135828.	0.00
18.4000	-8.29E-09	0.2229	-0.2104	-2.43E-07	0.6726	6958137.	0.00563	135828.	0.00
18.6000	-5.63E-08	0.1809	-0.2061	-2.37E-07	0.5459	6958137.	0.03821	135828.	0.00
18.8000	-1.03E-07	0.1404	-0.1952	-2.33E-07	0.4238	6958137.	0.07008	135828.	0.00
19.0000	-1.49E-07	0.1028	-0.1781	-2.29E-07	0.3102	6958137.	0.1014	135828.	0.00
19.2000	-1.95E-07	0.06920	-0.1547	-2.27E-07	0.2089	6958137.	0.1323	135828.	0.00
19.4000	-2.40E-07	0.04090	-0.1252	-2.25E-07	0.1235	6958137.	0.1630	135828.	0.00
19.6000	-2.85E-07	0.01913	-0.08955	-2.24E-07	0.05772	6958137.	0.1935	135828.	0.00
19.8000	-3.30E-07	0.00509	-0.04781	-2.24E-07	0.01535	6958137.	0.2239	135828.	0.00
20.0000	-3.74E-07	0.00	0.00	-2.24E-07	0.00	6958137.	0.2543	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 2:

Pile-head deflection = 0.00184942 meters
Computed slope at pile head = -0.00045303 radians
Maximum bending moment = 545.09089806 kN-m
Maximum shear force = 300.00000000 kN
Depth of maximum bending moment = 3.20000000 meters below pile head

Depth of maximum shear force = 0.000000 meters below pile head

Number of iterations = 13

Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 3

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 400.000 kN

Applied moment at pile head = 0.000 kN-m

Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00291	0.00	400.0000	-6.66E-04	0.00	6958137.	0.00	0.00	0.00
0.2000	0.00277	80.0000	392.5981	-6.65E-04	241.4439	6958137.	-74.0186	5335.	0.00
0.4000	0.00264	157.0393	376.7702	-6.61E-04	473.9522	6958137.	-84.2604	6379.	0.00
0.6000	0.00251	230.7081	358.9581	-6.56E-04	696.2884	6958137.	-93.8611	7479.	0.00
0.8000	0.00238	300.6225	339.2910	-6.48E-04	907.2935	6958137.	-102.8096	8641.	0.00
1.0000	0.00225	366.4245	317.9003	-6.39E-04	1106.	6958137.	-111.0970	9871.	0.00
1.2000	0.00212	427.7826	294.9190	-6.27E-04	1291.	6958137.	-118.7166	11177.	0.00
1.4000	0.00200	484.3921	270.4809	-6.14E-04	1462.	6958137.	-125.6642	12566.	0.00
1.6000	0.00188	535.9750	244.7207	-5.99E-04	1618.	6958137.	-131.9380	14046.	0.00
1.8000	0.00176	582.2804	217.7731	-5.83E-04	1757.	6958137.	-137.5381	15627.	0.00
2.0000	0.00165	623.0842	189.7726	-5.66E-04	1880.	6958137.	-142.4670	17318.	0.00
2.2000	0.00153	658.1894	160.8530	-5.48E-04	1986.	6958137.	-146.7291	19131.	0.00
2.4000	0.00143	687.4254	131.1470	-5.28E-04	2075.	6958137.	-150.3306	21080.	0.00
2.6000	0.00132	710.6482	100.7860	-5.08E-04	2145.	6958137.	-153.2795	23178.	0.00
2.8000	0.00122	727.7398	69.8996	-4.87E-04	2196.	6958137.	-155.5847	25441.	0.00
3.0000	0.00113	738.6080	38.6154	-4.66E-04	2229.	6958137.	-157.2565	27890.	0.00
3.2000	0.00104	743.1860	7.0593	-4.45E-04	2243.	6958137.	-158.3052	30545.	0.00
3.4000	9.50E-04	741.4317	-24.6454	-4.24E-04	2238.	6958137.	-158.7413	33431.	0.00
3.6000	8.67E-04	733.3278	-44.8729	-4.03E-04	2213.	6958137.	-43.5344	10042.	0.00
3.8000	7.89E-04	723.4826	-51.7549	-3.82E-04	2184.	6958137.	-25.2849	6412.	0.00
4.0000	7.14E-04	712.6259	-56.7956	-3.61E-04	2151.	6958137.	-25.1224	7033.	0.00
4.2000	6.44E-04	700.7643	-61.7985	-3.41E-04	2115.	6958137.	-24.9068	7731.	0.00
4.4000	5.78E-04	687.9065	-66.7528	-3.21E-04	2076.	6958137.	-24.6364	8522.	0.00

4.6000	5.16E-04	674.0632	-71.6475	-3.01E-04	2034.	6958137.	-24.3096	9422.	0.00
4.8000	4.58E-04	659.2475	-76.4708	-2.82E-04	1990.	6958137.	-23.9242	10453.	0.00
5.0000	4.03E-04	643.4748	-81.2110	-2.63E-04	1942.	6958137.	-23.4777	11644.	0.00
5.2000	3.52E-04	626.7631	-85.8555	-2.45E-04	1892.	6958137.	-22.9668	13032.	0.00
5.4000	3.05E-04	609.1327	-90.3909	-2.27E-04	1838.	6958137.	-22.3874	14667.	0.00
5.6000	2.62E-04	590.6067	-94.8031	-2.10E-04	1782.	6958137.	-21.7343	16617.	0.00
5.8000	2.21E-04	571.2114	-99.0765	-1.93E-04	1724.	6958137.	-21.0004	18979.	0.00
6.0000	1.84E-04	550.9761	-103.1942	-1.77E-04	1663.	6958137.	-20.1762	21896.	0.00
6.2000	1.50E-04	529.9338	-107.1366	-1.62E-04	1599.	6958137.	-19.2480	25587.	0.00
6.4000	1.20E-04	508.1215	-110.8810	-1.47E-04	1534.	6958137.	-18.1958	30413.	0.00
6.6000	9.18E-05	485.5814	-114.3994	-1.32E-04	1466.	6958137.	-16.9884	37018.	0.00
6.8000	6.67E-05	462.3617	-117.6555	-1.19E-04	1395.	6958137.	-15.5722	46692.	0.00
7.0000	4.43E-05	438.5192	-120.5972	-1.06E-04	1323.	6958137.	-13.8451	62537.	0.00
7.2000	2.44E-05	414.1228	-123.1379	-9.36E-05	1250.	6958137.	-11.5618	94864.	0.00
7.4000	6.85E-06	389.2640	-125.0660	-8.20E-05	1175.	6958137.	-7.7197	225292.	0.00
7.6000	-8.43E-06	364.0964	-124.9974	-7.12E-05	1099.	6958137.	8.4056	199387.	0.00
7.8000	-2.16E-05	339.2650	-122.9853	-6.11E-05	1024.	6958137.	11.7163	108369.	0.00
8.0000	-3.29E-05	314.9023	-120.4428	-5.17E-05	950.3907	6958137.	13.7078	83421.	0.00
8.2000	-4.23E-05	291.0879	-117.5553	-4.30E-05	878.5176	6958137.	15.1672	71721.	0.00
8.4000	-5.01E-05	267.8802	-114.4072	-3.49E-05	808.4756	6958137.	16.3143	65189.	0.00
8.6000	-5.63E-05	245.3250	-111.0512	-2.76E-05	740.4030	6958137.	17.2456	61296.	0.00
8.8000	-6.11E-05	223.4597	-107.5253	-2.08E-05	674.4124	6958137.	18.0131	58984.	0.00
9.0000	-6.46E-05	202.3149	-103.8592	-1.47E-05	610.5963	6958137.	18.6480	57734.	0.00
9.2000	-6.70E-05	181.9160	-100.0773	-9.18E-06	549.0315	6958137.	19.1710	57261.	0.00
9.4000	-6.83E-05	162.2840	-96.2006	-4.24E-06	489.7810	6958137.	19.5961	57405.	0.00
9.6000	-6.87E-05	143.4358	-92.2476	1.57E-07	432.8962	6958137.	19.9336	58069.	0.00
9.8000	-6.82E-05	125.3849	-88.2352	4.02E-06	378.4179	6958137.	20.1910	59202.	0.00
10.0000	-6.70E-05	108.1417	-84.1787	7.38E-06	326.3770	6958137.	20.3741	60776.	0.00
10.2000	-6.53E-05	91.7135	-79.8859	1.02E-05	276.7957	6958137.	22.5534	69118.	0.00
10.4000	-6.29E-05	76.1873	-75.4022	1.27E-05	229.9372	6958137.	22.2838	70802.	0.00
10.6000	-6.02E-05	61.5526	-70.9784	1.46E-05	185.7687	6958137.	21.9544	72943.	0.00
10.8000	-5.71E-05	47.7960	-66.6259	1.62E-05	144.2507	6958137.	21.5703	75565.	0.00
11.0000	-5.37E-05	34.9022	-62.3553	1.74E-05	105.3367	6958137.	21.1361	78703.	0.00
11.2000	-5.01E-05	22.8539	-57.6434	1.82E-05	68.9742	6958137.	25.9823	103659.	0.00
11.4000	-4.64E-05	11.8449	-52.1962	1.87E-05	35.7484	6958137.	28.4903	122754.	0.00
11.6000	-4.26E-05	1.9754	-46.5776	1.89E-05	5.9620	6958137.	27.6951	129907.	0.00
11.8000	-3.88E-05	-6.7862	-41.1232	1.89E-05	20.4810	6958137.	26.8489	138228.	0.00
12.0000	-3.51E-05	-14.4738	-35.8428	1.86E-05	43.6828	6958137.	25.9553	147915.	0.00
12.2000	-3.14E-05	-21.1233	-30.7455	1.80E-05	63.7511	6958137.	25.0177	159218.	0.00
12.4000	-2.79E-05	-26.7720	-25.8398	1.74E-05	80.7993	6958137.	24.0388	172458.	0.00
12.6000	-2.45E-05	-31.4592	-21.1338	1.65E-05	94.9455	6958137.	23.0214	188051.	0.00
12.8000	-2.13E-05	-35.2256	-16.6349	1.56E-05	106.3125	6958137.	21.9674	206546.	0.00
13.0000	-1.83E-05	-38.1132	-12.3503	1.45E-05	115.0275	6958137.	20.8787	228673.	0.00
13.2000	-1.55E-05	-40.1657	-8.2868	1.34E-05	121.2220	6958137.	19.7564	255425.	0.00

13.4000	-1.29E-05	-41.4279	-4.4511	1.22E-05	125.0315	6958137.	18.6011	288189.	0.00
13.6000	-1.06E-05	-41.9461	-0.8497	1.10E-05	126.5954	6958137.	17.4124	328950.	0.00
13.8000	-8.51E-06	-41.7678	2.5104	9.81E-06	126.0573	6958137.	16.1888	380666.	0.00
14.0000	-6.66E-06	-40.9419	5.6219	8.62E-06	123.5648	6958137.	14.9265	447942.	0.00
14.2000	-5.06E-06	-39.5190	8.4764	7.46E-06	119.2703	6958137.	13.6183	538403.	0.00
14.4000	-3.68E-06	-37.5514	11.0633	6.35E-06	113.3319	6958137.	12.2508	665758.	0.00
14.6000	-2.52E-06	-35.0937	13.3682	5.31E-06	105.9145	6958137.	10.7978	857783.	0.00
14.8000	-1.56E-06	-32.2041	15.3683	4.34E-06	97.1936	6958137.	9.2032	1182394.	0.00
15.0000	-7.81E-07	-28.9464	17.0204	3.46E-06	87.3616	6958137.	7.3182	1874232.	0.00
15.2000	-1.72E-07	-25.3959	17.7639	2.68E-06	76.6462	6958137.	0.1165	135828.	0.00
15.4000	2.92E-07	-21.8408	17.7557	2.00E-06	65.9167	6958137.	-0.1982	135828.	0.00
15.6000	6.30E-07	-18.2937	17.0540	1.43E-06	55.2111	6958137.	-6.8186	2165905.	0.00
15.8000	8.62E-07	-15.0192	15.6137	9.47E-07	45.3288	6958137.	-7.5850	1759280.	0.00
16.0000	1.01E-06	-12.0482	14.0543	5.58E-07	36.3620	6958137.	-8.0086	1588049.	0.00
16.2000	1.09E-06	-9.3975	12.4304	2.50E-07	28.3621	6958137.	-8.2301	1516144.	0.00
16.4000	1.11E-06	-7.0760	10.7756	1.35E-08	21.3558	6958137.	-8.3183	1500559.	0.00
16.6000	1.09E-06	-5.0873	9.1123	-1.61E-07	15.3536	6958137.	-8.3146	1524156.	0.00
16.8000	1.04E-06	-3.4311	7.4561	-2.84E-07	10.3552	6958137.	-8.2477	1579791.	0.00
17.0000	9.78E-07	-2.1048	5.8174	-3.63E-07	6.3525	6958137.	-8.1393	1665277.	0.00
17.2000	8.99E-07	-1.1041	4.2027	-4.09E-07	3.3324	6958137.	-8.0070	1781665.	0.00
17.4000	8.14E-07	-0.4237	2.6156	-4.31E-07	1.2789	6958137.	-7.8649	1932990.	0.00
17.6000	7.26E-07	-0.05793	1.0566	-4.38E-07	0.1748	6958137.	-7.7243	2127166.	0.00
17.8000	6.38E-07	-0.00109	0.2408	-4.39E-07	0.00327	6958137.	-0.4336	135828.	0.00
18.0000	5.51E-07	0.03841	0.1601	-4.39E-07	0.1159	6958137.	-0.3739	135828.	0.00
18.2000	4.63E-07	0.06295	0.09126	-4.37E-07	0.1900	6958137.	-0.3144	135828.	0.00
18.4000	3.76E-07	0.07492	0.03431	-4.35E-07	0.2261	6958137.	-0.2552	135828.	0.00
18.6000	2.89E-07	0.07668	-0.01083	-4.33E-07	0.2314	6958137.	-0.1962	135828.	0.00
18.8000	2.02E-07	0.07059	-0.04420	-4.31E-07	0.2130	6958137.	-0.1375	135828.	0.00
19.0000	1.17E-07	0.05900	-0.06587	-4.29E-07	0.1780	6958137.	-0.07913	135828.	0.00
19.2000	3.09E-08	0.04424	-0.07588	-4.28E-07	0.1335	6958137.	-0.02097	135828.	0.00
19.4000	-5.45E-08	0.02864	-0.07427	-4.27E-07	0.08645	6958137.	0.03702	135828.	0.00
19.6000	-1.40E-07	0.01453	-0.06108	-4.26E-07	0.04385	6958137.	0.09489	135828.	0.00
19.8000	-2.25E-07	0.00421	-0.03632	-4.26E-07	0.01271	6958137.	0.1527	135828.	0.00
20.0000	-3.10E-07	0.00	0.00	-4.26E-07	0.00	6958137.	0.2105	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 3:

Pile-head deflection = 0.00290780 meters
Computed slope at pile head = -0.00066586 radians
Maximum bending moment = 743.18598304 kN-m
Maximum shear force = 400.00000000 kN

Depth of maximum bending moment = 3.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 20
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 4

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 500.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00420	1.06E-09	500.0000	-9.09E-04	3.19E-09	6958137.	0.00	0.00	0.00
0.2000	0.00402	100.0000	491.6018	-9.08E-04	301.8049	6958137.	-83.9819	4179.	0.00
0.4000	0.00384	196.6407	473.2747	-9.04E-04	593.4714	6958137.	-99.2892	5174.	0.00
0.6000	0.00366	289.3099	452.0333	-8.97E-04	873.1515	6958137.	-113.1248	6185.	0.00
0.8000	0.00348	377.4540	428.2890	-8.87E-04	1139.	6958137.	-124.3183	7146.	0.00
1.0000	0.00330	460.6255	402.3989	-8.75E-04	1390.	6958137.	-134.5824	8149.	0.00
1.2000	0.00313	538.4136	374.5314	-8.61E-04	1625.	6958137.	-144.0928	9209.	0.00
1.4000	0.00296	610.4381	344.8377	-8.44E-04	1842.	6958137.	-152.8448	10332.	0.00
1.6000	0.00279	676.3487	313.4696	-8.26E-04	2041.	6958137.	-160.8362	11523.	0.00
1.8000	0.00263	735.8259	280.5793	-8.05E-04	2221.	6958137.	-168.0669	12789.	0.00
2.0000	0.00247	788.5804	246.3186	-7.84E-04	2380.	6958137.	-174.5394	14136.	0.00
2.2000	0.00231	834.3533	210.8389	-7.60E-04	2518.	6958137.	-180.2580	15573.	0.00
2.4000	0.00217	872.9160	174.2902	-7.36E-04	2635.	6958137.	-185.2291	17109.	0.00
2.6000	0.00202	904.0694	136.8212	-7.10E-04	2729.	6958137.	-189.4607	18752.	0.00
2.8000	0.00188	927.6444	98.5789	-6.84E-04	2800.	6958137.	-192.9622	20514.	0.00
3.0000	0.00175	943.5010	59.7083	-6.57E-04	2848.	6958137.	-195.7442	22407.	0.00
3.2000	0.00162	951.5278	20.3521	-6.30E-04	2872.	6958137.	-197.8174	24445.	0.00
3.4000	0.00150	951.6418	-19.3489	-6.02E-04	2872.	6958137.	-199.1927	26643.	0.00
3.6000	0.00138	943.7882	-44.3482	-5.75E-04	2848.	6958137.	-50.8001	7375.	0.00
3.8000	0.00127	933.9026	-52.3882	-5.48E-04	2819.	6958137.	-29.6005	4679.	0.00
4.0000	0.00116	922.8329	-58.2997	-5.21E-04	2785.	6958137.	-29.5140	5096.	0.00
4.2000	0.00106	910.5827	-64.1884	-4.95E-04	2748.	6958137.	-29.3730	5560.	0.00

4.4000	9.60E-04	897.1576	-70.0433	-4.69E-04	2708.	6958137.	-29.1764	6077.	0.00
4.6000	8.69E-04	882.5654	-75.8532	-4.44E-04	2664.	6958137.	-28.9230	6656.	0.00
4.8000	7.83E-04	866.8163	-81.6067	-4.18E-04	2616.	6958137.	-28.6111	7309.	0.00
5.0000	7.02E-04	849.9227	-87.2917	-3.94E-04	2565.	6958137.	-28.2391	8049.	0.00
5.2000	6.25E-04	831.8996	-92.8961	-3.70E-04	2511.	6958137.	-27.8047	8892.	0.00
5.4000	5.54E-04	812.7643	-98.4071	-3.46E-04	2453.	6958137.	-27.3054	9860.	0.00
5.6000	4.87E-04	792.5368	-103.8114	-3.23E-04	2392.	6958137.	-26.7379	10980.	0.00
5.8000	4.25E-04	771.2397	-109.0950	-3.00E-04	2328.	6958137.	-26.0982	12289.	0.00
6.0000	3.67E-04	748.8988	-114.2429	-2.79E-04	2260.	6958137.	-25.3813	13836.	0.00
6.2000	3.13E-04	725.5426	-119.2391	-2.57E-04	2190.	6958137.	-24.5802	15690.	0.00
6.4000	2.64E-04	701.2031	-124.0657	-2.37E-04	2116.	6958137.	-23.6861	17947.	0.00
6.6000	2.19E-04	675.9163	-128.7030	-2.17E-04	2040.	6958137.	-22.6864	20756.	0.00
6.8000	1.77E-04	649.7219	-133.1280	-1.98E-04	1961.	6958137.	-21.5634	24346.	0.00
7.0000	1.39E-04	622.6651	-137.3133	-1.80E-04	1879.	6958137.	-20.2900	29107.	0.00
7.2000	1.05E-04	594.7966	-141.2246	-1.62E-04	1795.	6958137.	-18.8232	35762.	0.00
7.4000	7.45E-05	566.1752	-144.8156	-1.46E-04	1709.	6958137.	-17.0867	45845.	0.00
7.6000	4.71E-05	536.8704	-148.0167	-1.30E-04	1620.	6958137.	-14.9242	63415.	0.00
7.8000	2.27E-05	506.9685	-150.7000	-1.15E-04	1530.	6958137.	-11.9082	105002.	0.00
8.0000	1.21E-06	476.5904	-152.3462	-1.01E-04	1438.	6958137.	-4.5540	753042.	0.00
8.2000	-1.75E-05	446.0301	-151.6705	-8.73E-05	1346.	6958137.	11.3107	129095.	0.00
8.4000	-3.37E-05	415.9222	-149.1093	-7.49E-05	1255.	6958137.	14.3013	84896.	0.00
8.6000	-4.75E-05	386.3863	-146.0493	-6.33E-05	1166.	6958137.	16.2986	68671.	0.00
8.8000	-5.90E-05	357.5024	-142.6382	-5.26E-05	1079.	6958137.	17.8125	60356.	0.00
9.0000	-6.85E-05	329.3310	-138.9548	-4.28E-05	993.9373	6958137.	19.0219	55517.	0.00
9.2000	-7.61E-05	301.9205	-135.0513	-3.37E-05	911.2110	6958137.	20.0128	52573.	0.00
9.4000	-8.20E-05	275.3105	-130.9666	-2.54E-05	830.9007	6958137.	20.8340	50811.	0.00
9.6000	-8.63E-05	249.5339	-126.7316	-1.79E-05	753.1055	6958137.	21.5160	49866.	0.00
9.8000	-8.92E-05	224.6179	-122.3721	-1.10E-05	677.9078	6958137.	22.0791	49532.	0.00
10.0000	-9.07E-05	200.5850	-117.9104	-4.94E-06	605.3755	6958137.	22.5378	49689.	0.00
10.2000	-9.11E-05	177.4537	-113.1355	4.97E-07	535.5640	6958137.	25.2119	55334.	0.00
10.4000	-9.05E-05	155.3308	-108.0987	5.28E-06	468.7961	6958137.	25.1556	55582.	0.00
10.6000	-8.90E-05	134.2142	-103.0816	9.44E-06	405.0651	6958137.	25.0156	56206.	0.00
10.8000	-8.67E-05	114.0982	-98.1000	1.30E-05	344.3540	6958137.	24.8007	57184.	0.00
11.0000	-8.38E-05	94.9742	-93.1681	1.60E-05	286.6369	6958137.	24.5183	58509.	0.00
11.2000	-8.03E-05	76.8310	-87.6754	1.85E-05	231.8797	6958137.	30.4085	75705.	0.00
11.4000	-7.64E-05	59.9041	-81.2701	2.04E-05	180.7934	6958137.	33.6441	88054.	0.00
11.6000	-7.22E-05	44.3229	-74.6051	2.19E-05	133.7688	6958137.	33.0066	91488.	0.00
11.8000	-6.76E-05	30.0620	-68.0741	2.30E-05	90.7287	6958137.	32.3029	95516.	0.00
12.0000	-6.29E-05	17.0933	-61.6900	2.37E-05	51.5883	6958137.	31.5382	100203.	0.00
12.2000	-5.82E-05	5.3860	-55.4644	2.40E-05	16.2553	6958137.	30.7173	105628.	0.00
12.4000	-5.33E-05	-5.0925	-49.4083	2.40E-05	15.3694	6958137.	29.8442	111896.	0.00
12.6000	-4.86E-05	-14.3773	-43.5316	2.37E-05	43.3913	6958137.	28.9225	119137.	0.00
12.8000	-4.38E-05	-22.5052	-37.8438	2.32E-05	67.9217	6958137.	27.9556	127516.	0.00
13.0000	-3.93E-05	-29.5148	-32.3536	2.25E-05	89.0772	6958137.	26.9463	137239.	0.00

13.2000	-3.49E-05	-35.4466	-27.0693	2.15E-05	106.9796	6958137.	25.8973	148573.	0.00
13.4000	-3.07E-05	-40.3425	-21.9985	2.04E-05	121.7557	6958137.	24.8107	161857.	0.00
13.6000	-2.67E-05	-44.2460	-17.1486	1.92E-05	133.5366	6958137.	23.6883	177538.	0.00
13.8000	-2.30E-05	-47.2019	-12.5266	1.79E-05	142.4578	6958137.	22.5317	196203.	0.00
14.0000	-1.95E-05	-49.2566	-8.1392	1.65E-05	148.6589	6958137.	21.3418	218649.	0.00
14.2000	-1.64E-05	-50.4576	-3.9932	1.51E-05	152.2836	6958137.	20.1188	245976.	0.00
14.4000	-1.35E-05	-50.8539	-0.09508	1.36E-05	153.4796	6958137.	18.8621	279745.	0.00
14.6000	-1.09E-05	-50.4957	3.5481	1.22E-05	152.3984	6958137.	17.5700	322251.	0.00
14.8000	-8.61E-06	-49.4346	6.9290	1.07E-05	149.1962	6958137.	16.2383	377020.	0.00
15.0000	-6.61E-06	-47.7241	10.0388	9.35E-06	144.0336	6958137.	14.8600	449773.	0.00
15.2000	-4.88E-06	-45.4191	12.8670	8.01E-06	137.0772	6958137.	13.4218	550541.	0.00
15.4000	-3.41E-06	-42.5773	15.3990	6.74E-06	128.5004	6958137.	11.8988	698896.	0.00
15.6000	-2.18E-06	-39.2595	17.6129	5.57E-06	118.4872	6958137.	10.2398	939878.	0.00
15.8000	-1.18E-06	-35.5321	19.4687	4.49E-06	107.2378	6958137.	8.3181	1411544.	0.00
16.0000	-3.82E-07	-31.4721	20.3264	3.53E-06	94.9842	6958137.	0.2598	135828.	0.00
16.2000	2.33E-07	-27.4016	20.3366	2.68E-06	82.6993	6958137.	-0.1580	135828.	0.00
16.4000	6.90E-07	-23.3374	19.6147	1.95E-06	70.4334	6958137.	-7.0616	2045712.	0.00
16.6000	1.01E-06	-19.5557	18.1093	1.34E-06	59.0201	6958137.	-7.9919	1576492.	0.00
16.8000	1.22E-06	-16.0937	16.4612	8.24E-07	48.5715	6958137.	-8.4894	1386050.	0.00
17.0000	1.34E-06	-12.9712	14.7389	4.06E-07	39.1479	6958137.	-8.7328	1299966.	0.00
17.2000	1.39E-06	-10.1981	12.9856	7.35E-08	30.7784	6958137.	-8.8010	1268571.	0.00
17.4000	1.37E-06	-7.7770	11.2318	-1.85E-07	23.4714	6958137.	-8.7365	1272688.	0.00
17.6000	1.31E-06	-5.7054	9.5017	-3.79E-07	17.2192	6958137.	-8.5647	1304002.	0.00
17.8000	1.22E-06	-3.9763	7.8151	-5.18E-07	12.0008	6958137.	-8.3008	1359155.	0.00
18.0000	1.11E-06	-2.5793	6.1897	-6.12E-07	7.7846	6958137.	-7.9537	1437658.	0.00
18.2000	9.77E-07	-1.5005	4.6416	-6.71E-07	4.5285	6958137.	-7.5265	1541271.	0.00
18.4000	8.38E-07	-0.7227	3.1873	-7.03E-07	2.1811	6958137.	-7.0171	1674278.	0.00
18.6000	6.96E-07	-0.2256	1.8439	-7.16E-07	0.6808	6958137.	-6.4166	1844811.	0.00
18.8000	5.52E-07	0.01489	0.6317	-7.19E-07	0.04492	6958137.	-5.7056	2068235.	0.00
19.0000	4.08E-07	0.02711	0.03342	-7.19E-07	0.08182	6958137.	-0.2770	135828.	0.00
19.2000	2.64E-07	0.02825	-0.01223	-7.18E-07	0.08527	6958137.	-0.1795	135828.	0.00
19.4000	1.21E-07	0.02222	-0.03838	-7.17E-07	0.06706	6958137.	-0.08204	135828.	0.00
19.6000	-2.26E-08	0.01290	-0.04505	-7.17E-07	0.03894	6958137.	0.01532	135828.	0.00
19.8000	-1.66E-07	0.00420	-0.03226	-7.16E-07	0.01267	6958137.	0.1126	135828.	0.00
20.0000	-3.09E-07	0.00	0.00	-7.16E-07	0.00	6958137.	0.2099	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 4:

Pile-head deflection = 0.00420120 meters
Computed slope at pile head = -0.00090942 radians
Maximum bending moment = 951.64183147 kN-m

Maximum shear force = 500.00000000 kN

Depth of maximum bending moment = 3.40000000 meters below pile head

Depth of maximum shear force = 0.000000 meters below pile head

Number of iterations = 15

Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 5

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 1200.000 kN

Applied moment at pile head = 0.000 kN-m

Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.03243	3.50E-08	1200.	-0.00470	1.06E-07	6958137.	0.00	0.00	0.00
0.2000	0.03149	240.0000	1196.	-0.00470	724.3318	6958137.	-41.2303	261.8323	0.00
0.4000	0.03055	478.3508	1185.	-0.00469	1444.	6958137.	-67.9487	444.7737	0.00
0.6000	0.02962	713.9836	1168.	-0.00467	2155.	6958137.	-98.0469	662.0851	0.00
0.8000	0.02869	945.6946	1145.	-0.00465	2854.	6958137.	-131.0263	913.5507	0.00
1.0000	0.02776	1172.	1116.	-0.00462	3538.	6958137.	-166.4491	1199.	0.00
1.2000	0.02684	1392.	1079.	-0.00458	4201.	6958137.	-203.9261	1520.	0.00
1.4000	0.02593	1604.	1034.	-0.00454	4840.	6958137.	-244.0443	1883.	0.00
1.6000	0.02502	1806.	981.2143	-0.00449	5449.	6958137.	-282.5141	2258.	0.00
1.8000	0.02413	1996.	921.0435	-0.00444	6024.	6958137.	-319.1935	2646.	0.00
2.0000	0.02325	2174.	853.7088	-0.00438	6561.	6958137.	-354.1538	3047.	0.00
2.2000	0.02238	2338.	779.5481	-0.00431	7055.	6958137.	-387.4529	3463.	0.00
2.4000	0.02152	2486.	698.8888	-0.00424	7502.	6958137.	-419.1395	3895.	0.00
2.6000	0.02068	2617.	612.0494	-0.00417	7899.	6958137.	-449.2553	4344.	0.00
2.8000	0.01986	2731.	519.3401	-0.00409	8241.	6958137.	-477.8373	4813.	0.00
3.0000	0.01905	2825.	421.0645	-0.00401	8526.	6958137.	-504.9182	5302.	0.00
3.2000	0.01825	2899.	317.5199	-0.00393	8749.	6958137.	-530.5281	5813.	0.00
3.4000	0.01747	2952.	208.9977	-0.00384	8909.	6958137.	-554.6939	6349.	0.00
3.6000	0.01671	2983.	141.8555	-0.00376	9002.	6958137.	-116.7285	1397.	0.00
3.8000	0.01597	3009.	123.2907	-0.00367	9080.	6958137.	-68.9188	863.0493	0.00
4.0000	0.01524	3032.	109.4307	-0.00359	9150.	6958137.	-69.6810	914.1498	0.00

4.2000	0.01454	3052.	95.4248	-0.00350	9212.	6958137.	-70.3782	968.3044	0.00
4.4000	0.01385	3070.	81.2860	-0.00341	9266.	6958137.	-71.0100	1026.	0.00
4.6000	0.01317	3085.	67.0274	-0.00332	9310.	6958137.	-71.5756	1087.	0.00
4.8000	0.01252	3097.	52.6624	-0.00323	9347.	6958137.	-72.0745	1152.	0.00
5.0000	0.01188	3106.	38.2044	-0.00314	9374.	6958137.	-72.5060	1221.	0.00
5.2000	0.01126	3112.	23.6668	-0.00306	9393.	6958137.	-72.8695	1294.	0.00
5.4000	0.01066	3115.	9.0635	-0.00297	9403.	6958137.	-73.1642	1373.	0.00
5.6000	0.01007	3116.	-5.5919	-0.00288	9404.	6958137.	-73.3895	1457.	0.00
5.8000	0.00951	3113.	-20.2853	-0.00279	9396.	6958137.	-73.5447	1547.	0.00
6.0000	0.00896	3108.	-35.0027	-0.00270	9379.	6958137.	-73.6290	1644.	0.00
6.2000	0.00843	3099.	-49.7298	-0.00261	9354.	6958137.	-73.6416	1748.	0.00
6.4000	0.00791	3088.	-64.4521	-0.00252	9319.	6958137.	-73.5816	1859.	0.00
6.6000	0.00742	3073.	-79.1551	-0.00243	9276.	6958137.	-73.4483	1980.	0.00
6.8000	0.00694	3056.	-93.8240	-0.00234	9224.	6958137.	-73.2405	2110.	0.00
7.0000	0.00648	3036.	-108.4437	-0.00225	9163.	6958137.	-72.9573	2251.	0.00
7.2000	0.00604	3013.	-122.9992	-0.00217	9093.	6958137.	-72.5976	2404.	0.00
7.4000	0.00561	2987.	-137.4750	-0.00208	9014.	6958137.	-72.1600	2570.	0.00
7.6000	0.00521	2958.	-151.8553	-0.00200	8927.	6958137.	-71.6432	2752.	0.00
7.8000	0.00482	2926.	-166.1242	-0.00191	8831.	6958137.	-71.0457	2950.	0.00
8.0000	0.00444	2891.	-180.2654	-0.00183	8726.	6958137.	-70.3657	3168.	0.00
8.2000	0.00409	2854.	-194.2620	-0.00175	8613.	6958137.	-69.6012	3408.	0.00
8.4000	0.00374	2814.	-208.0972	-0.00166	8492.	6958137.	-68.7499	3672.	0.00
8.6000	0.00342	2771.	-221.7531	-0.00158	8362.	6958137.	-67.8093	3966.	0.00
8.8000	0.00311	2725.	-235.2116	-0.00150	8224.	6958137.	-66.7763	4293.	0.00
9.0000	0.00282	2677.	-248.4540	-0.00143	8078.	6958137.	-65.6471	4660.	0.00
9.2000	0.00254	2626.	-261.4604	-0.00135	7924.	6958137.	-64.4176	5073.	0.00
9.4000	0.00228	2572.	-274.2104	-0.00128	7762.	6958137.	-63.0824	5541.	0.00
9.6000	0.00203	2516.	-286.6822	-0.00120	7593.	6958137.	-61.6353	6075.	0.00
9.8000	0.00180	2457.	-298.8526	-0.00113	7416.	6958137.	-60.0683	6690.	0.00
10.0000	0.00158	2396.	-310.6966	-0.00106	7232.	6958137.	-58.3715	7406.	0.00
10.2000	0.00137	2333.	-322.7569	-9.94E-04	7041.	6958137.	-62.2324	9080.	0.00
10.4000	0.00118	2267.	-334.8979	-9.28E-04	6843.	6958137.	-59.1775	10041.	0.00
10.6000	1.00E-03	2199.	-346.4171	-8.64E-04	6637.	6958137.	-56.0143	11208.	0.00
10.8000	8.33E-04	2129.	-357.2900	-8.02E-04	6424.	6958137.	-52.7147	12655.	0.00
11.0000	6.79E-04	2056.	-367.4853	-7.42E-04	6206.	6958137.	-49.2381	14505.	0.00
11.2000	5.37E-04	1982.	-378.1353	-6.83E-04	5981.	6958137.	-57.2619	21346.	0.00
11.4000	4.06E-04	1905.	-389.7296	-6.28E-04	5749.	6958137.	-58.6808	28941.	0.00
11.6000	2.85E-04	1826.	-400.8178	-5.74E-04	5510.	6958137.	-52.2016	36573.	0.00
11.8000	1.76E-04	1745.	-410.4803	-5.23E-04	5265.	6958137.	-44.4230	50505.	0.00
12.0000	7.64E-05	1662.	-418.2868	-4.74E-04	5015.	6958137.	-33.6423	88082.	0.00
12.2000	-1.36E-05	1577.	-419.7609	-4.27E-04	4760.	6958137.	18.9012	278266.	0.00
12.4000	-9.45E-05	1494.	-414.2603	-3.83E-04	4508.	6958137.	36.1047	76419.	0.00
12.6000	-1.67E-04	1412.	-406.2861	-3.41E-04	4260.	6958137.	43.6378	52320.	0.00
12.8000	-2.31E-04	1331.	-397.0581	-3.02E-04	4017.	6958137.	48.6419	42111.	0.00

13.0000	-2.88E-04	1253.	-386.9614	-2.65E-04	3781.	6958137.	52.3256	36391.	0.00
13.2000	-3.37E-04	1176.	-376.2125	-2.30E-04	3550.	6958137.	55.1627	32745.	0.00
13.4000	-3.80E-04	1102.	-364.9567	-1.97E-04	3327.	6958137.	57.3957	30247.	0.00
13.6000	-4.16E-04	1030.	-353.3003	-1.66E-04	3110.	6958137.	59.1682	28462.	0.00
13.8000	-4.46E-04	960.9016	-341.3261	-1.38E-04	2900.	6958137.	60.5735	27157.	0.00
14.0000	-4.71E-04	893.8478	-329.1012	-1.11E-04	2698.	6958137.	61.6762	26195.	0.00
14.2000	-4.91E-04	829.2611	-316.6812	-8.64E-05	2503.	6958137.	62.5232	25490.	0.00
14.4000	-5.05E-04	767.1753	-304.1139	-6.35E-05	2315.	6958137.	63.1501	24987.	0.00
14.6000	-5.16E-04	707.6155	-291.4405	-4.23E-05	2136.	6958137.	63.5840	24647.	0.00
14.8000	-5.22E-04	650.5991	-278.6974	-2.28E-05	1964.	6958137.	63.8468	24444.	0.00
15.0000	-5.25E-04	596.1365	-265.9171	-4.84E-06	1799.	6958137.	63.9560	24361.	0.00
15.2000	-5.24E-04	544.2322	-253.1290	1.15E-05	1643.	6958137.	63.9258	24384.	0.00
15.4000	-5.20E-04	494.8850	-240.3596	2.65E-05	1494.	6958137.	63.7681	24505.	0.00
15.6000	-5.14E-04	448.0884	-227.6335	4.00E-05	1352.	6958137.	63.4926	24718.	0.00
15.8000	-5.04E-04	403.8316	-214.9735	5.23E-05	1219.	6958137.	63.1074	25021.	0.00
16.0000	-4.93E-04	362.0990	-202.4008	6.33E-05	1093.	6958137.	62.6193	25413.	0.00
16.2000	-4.79E-04	322.8712	-189.9355	7.31E-05	974.4413	6958137.	62.0338	25895.	0.00
16.4000	-4.64E-04	286.1248	-177.5966	8.19E-05	863.5387	6958137.	61.3552	26471.	0.00
16.6000	-4.46E-04	251.8326	-165.4024	8.96E-05	760.0431	6958137.	60.5870	27146.	0.00
16.8000	-4.28E-04	219.9638	-153.3706	9.64E-05	663.8617	6958137.	59.7314	27930.	0.00
17.0000	-4.08E-04	190.4844	-141.5184	1.02E-04	574.8912	6958137.	58.7899	28832.	0.00
17.2000	-3.87E-04	163.3565	-129.8631	1.07E-04	493.0179	6958137.	57.7628	29866.	0.00
17.4000	-3.65E-04	138.5391	-118.4219	1.12E-04	418.1178	6958137.	56.6493	31052.	0.00
17.6000	-3.42E-04	115.9877	-107.2123	1.15E-04	350.0566	6958137.	55.4471	32413.	0.00
17.8000	-3.19E-04	95.6542	-96.2523	1.18E-04	288.6890	6958137.	54.1527	33982.	0.00
18.0000	-2.95E-04	77.4868	-85.5610	1.21E-04	233.8589	6958137.	52.7605	35799.	0.00
18.2000	-2.70E-04	61.4298	-75.1587	1.23E-04	185.3981	6958137.	51.2626	37922.	0.00
18.4000	-2.46E-04	47.4233	-65.0676	1.24E-04	143.1259	6958137.	49.6477	40430.	0.00
18.6000	-2.21E-04	35.4027	-55.3128	1.26E-04	106.8472	6958137.	47.9007	43433.	0.00
18.8000	-1.95E-04	25.2982	-45.9227	1.27E-04	76.3512	6958137.	46.0000	47097.	0.00
19.0000	-1.70E-04	17.0336	-36.9312	1.27E-04	51.4083	6958137.	43.9153	51676.	0.00
19.2000	-1.44E-04	10.5257	-28.3795	1.28E-04	31.7671	6958137.	41.6018	57585.	0.00
19.4000	-1.19E-04	5.6818	-20.3202	1.28E-04	17.1481	6958137.	38.9911	65558.	0.00
19.6000	-9.34E-05	2.3976	-12.8241	1.28E-04	7.2361	6958137.	35.9700	77038.	0.00
19.8000	-6.78E-05	0.5522	-5.9940	1.28E-04	1.6666	6958137.	32.3306	95370.	0.00
20.0000	-4.22E-05	0.00	0.00	1.28E-04	0.00	6958137.	27.6098	65404.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 5:

Pile-head deflection = 0.03243447 meters

Computed slope at pile head = -0.00470394 radians

Maximum bending moment = 3116. kN-m

Maximum shear force = 1200. kN

Depth of maximum bending moment = 5.60000000 meters below pile head

Depth of maximum shear force = 0.000000 meters below pile head

Number of iterations = 60

Number of zero deflection points = 1

Summary of Pile-head Responses for Conventional Analyses

Definitions of Pile-head Loading Conditions:

Load Type 1: Load 1 = Shear, V, kN, and Load 2 = Moment, M, kN-m

Load Type 2: Load 1 = Shear, V, kN, and Load 2 = Slope, S, radians

Load Type 3: Load 1 = Shear, V, kN, and Load 2 = Rot. Stiffness, R, kN-m/rad.

Load Type 4: Load 1 = Top Deflection, y, m, and Load 2 = Moment, M, kN-m

Load Type 5: Load 1 = Top Deflection, y, m, and Load 2 = Slope, S, radians

Load Case No.	Load Type 1	Pile-head Load 1	Load Type 2	Pile-head Load 2	Axial Loading kN	Pile-head Deflection meters	Pile-head Rotation radians	Max Shear in Pile kN	Max Moment in Pile kN-m
1	V, kN	200.0000	M, kN-m	0.00	0.00	9.86E-04	-2.64E-04	200.0000	350.8460
2	V, kN	300.0000	M, kN-m	0.00	0.00	0.00185	-4.53E-04	300.0000	545.0909
3	V, kN	400.0000	M, kN-m	0.00	0.00	0.00291	-6.66E-04	400.0000	743.1860
4	V, kN	500.0000	M, kN-m	0.00	0.00	0.00420	-9.09E-04	500.0000	951.6418
5	V, kN	1200.	M, kN-m	0.00	0.00	0.03243	-0.00470	1200.	3116.

Maximum pile-head deflection = 0.0324344715 meters

Maximum pile-head rotation = -0.0047039435 radians = -0.269516 deg.

The analysis ended normally.

Opera VI04-D800

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LPile for Windows, Version 2016-09.009

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method
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Files Used for Analysis

Path to file locations:
\m9159\Work\07_Pali\VI04\LPILE\

Name of input data file:
VI04_spalle-pila_D800_statica.lp9d

Name of output report file:
VI04_spalle-pila_D800_statica.lp9o

Name of plot output file:
VI04_spalle-pila_D800_statica.lp9p

Name of runtime message file:
VI04_spalle-pila_D800_statica.lp9r

Date and Time of Analysis

Date: June 10, 2019 Time: 15:13:08

Problem Title

Project Name: VI02 - Spalle e pila
Job Number:
Client:
Engineer:
Description:

Program Options and Settings

Computational Options:
- Use unfactored loads in computations (conventional analysis)

Engineering Units Used for Data Input and Computations:
- International System Units (kilonewtons, meters, millimeters)

Analysis Control Options:
- Maximum number of iterations allowed = 500
- Deflection tolerance for convergence = 2.5400E-07 m
- Maximum allowable deflection = 2.5400 m
- Number of pile increments = 100

Loading Type and Number of Cycles of Loading:
- Static loading specified

- Use of p-y modification factors for p-y curves not selected
- No distributed lateral loads are entered
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected

- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:
- Output files use decimal points to denote decimal symbols.
- Values of pile-head deflection, bending moment, shear force, and soil reaction are printed for full length of pile.
- Printing Increment (nodal spacing of output points) = 1
- p-y curves computed and reported at user-specified depths
- Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined = 1
Total length of pile = 20.000 m
Depth of ground surface below top of pile = 0.0000 m

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point	Depth Below Pile Head meters	Pile Diameter millimeters
1	0.000	800.00
2	20.000	800.00

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is an elastic pile
Cross-sectional Shape = Circular Pile
Length of section = 20.000000 m

Width of top of section = 0.800000 m
Width of bottom of section = 0.800000 m
Top Area = 0.502655 sq. m
Bottom Area = 0.502655 sq. m
Moment of Inertia at Top = 0.020106 m^4
Moment of Inertia at Bottom = 0.020106 m^4
Elastic Modulus = 28000000. kPa

Ground Slope and Pile Batter Angles

Ground Slope Angle = 0.000 degrees
= 0.000 radians

Pile Batter Angle = 0.000 degrees
= 0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 3 layers

Layer 1 is stiff clay with water-induced erosion

Distance from top of pile to top of layer = 0.0000 m
Distance from top of pile to bottom of layer = 4.300000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 80.000000 kPa
Undrained cohesion at bottom of layer = 80.000000 kPa
Epsilon-50 at top of layer = 0.007000
Epsilon-50 at bottom of layer = 0.007000
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 2 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 4.300000 m
Distance from top of pile to bottom of layer = 12.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 35.000000 kPa
Undrained cohesion at bottom of layer = 35.000000 kPa
Epsilon-50 at top of layer = 0.020000
Epsilon-50 at bottom of layer = 0.020000

Layer 3 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 12.000000 m
Distance from top of pile to bottom of layer = 20.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 45.000000 kPa
Undrained cohesion at bottom of layer = 45.000000 kPa
Epsilon-50 at top of layer = 0.015000
Epsilon-50 at bottom of layer = 0.015000

(Depth of the lowest soil layer extends 0.000 m below the pile tip)

Summary of Input Soil Properties

Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth m	Effective Unit Wt. kN/m3	Undrained Cohesion kPa	E50 or krm	kpy kN/m3
1	Stiff Clay	0.00	9.0000	80.0000	0.00700	default
	with Free Water	4.3000	9.0000	80.0000	0.00700	default
2	Soft	4.3000	9.0000	35.0000	0.02000	--
	Clay	12.0000	9.0000	35.0000	0.02000	--
3	Soft	12.0000	9.0000	45.0000	0.01500	--
	Clay	20.0000	9.0000	45.0000	0.01500	--

Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 11

Load No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, kN	Compute Top y vs. Pile Length
1	1	V = 50.000000 kN	M = 0.0000 m-kN	0.0000000	No
2	1	V = 75.000000 kN	M = 0.0000 m-kN	0.0000000	No
3	1	V = 100.000000 kN	M = 0.0000 m-kN	0.0000000	No
4	1	V = 125.000000 kN	M = 0.0000 m-kN	0.0000000	No
5	1	V = 150.000000 kN	M = 0.0000 m-kN	0.0000000	No
6	1	V = 200.000000 kN	M = 0.0000 m-kN	0.0000000	No
7	1	V = 450.000000 kN	M = 0.0000 m-kN	0.0000000	No
8	1	V = 500.000000 kN	M = 0.0000 m-kN	0.0000000	No
9	1	V = 600.000000 kN	M = 0.0000 m-kN	0.0000000	No
10	1	V = 700.000000 kN	M = 0.0000 m-kN	0.0000000	No
11	1	V = 710.000000 kN	M = 0.0000 m-kN	0.0000000	No

V = shear force applied normal to pile axis
M = bending moment applied to pile head
y = lateral deflection normal to pile axis
S = pile slope relative to original pile batter angle
R = rotational stiffness applied to pile head
Values of top y vs. pile lengths can be computed only for load types with
specified shear loading (Load Types 1, 2, and 3).
Thrust force is assumed to be acting axially for all pile batter angles.

Specified Depths for Output of p-y Curves

Lateral load-transfer (p-y) curves are computed and output at 8 depths.

(Note that load-transfer values are computeded at the specified depths and may differ from values computed at nodal points)

Depth No.	Depth Below Pile Head m	Depth Below Ground Surface m
1	0.200	0.200
2	4.100	4.100
3	4.500	4.500
4	9.000	9.000
5	11.800	11.800
6	12.200	12.200
7	16.000	16.000
8	19.800	19.800

Depth of ground surface below top of pile = 0.0000 m

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

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Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Moment-curvature properties were derived from elastic section properties

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Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head meters	Equivalent Top Depth Below Grnd Surf meters	Same Layer Type As Layer Above	Layer is Rock or is Below Rock Layer	F0 Integral for Layer kN	F1 Integral for Layer kN

1	0.00	0.00	N.A.	No	0.00	195.0674
2	4.3000	1.8299	No	No	195.0674	1720.
3	12.0000	9.5299	Yes	No	1915.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals for Layer n. Layering correction equivalent depths are computed only for soil types with both shallow-depth and deep-depth expressions for peak lateral load transfer. These soil types are soft and stiff clays, non-liquefied sands, and cemented c-phi soil.

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p-y Curves Reported for Specified Depths

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p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 0.200 m
Depth of p-y curve below ground surface = 0.200 m
Equivalent depth of p-y curve = 0.200 m
Pile diameter = 800.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.006 m
As = 0.30366
Ac (not used) = 0.23383
pct = 174.720 kN/m
pcd = 704.000 kN/m
pc = 174.720 kN/m
pu = 6.317 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000

Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00085026	23.08008
0.00170	46.16015
0.00255	54.91936
0.00340	58.47120
0.00425	60.16449
0.00510	60.52600
0.00595	59.85385
0.00680	58.33995
0.00765	56.11775
0.00850	53.28508
0.00935	49.91658
0.01020	46.07088
0.01701	32.84541
0.02381	19.58135
0.03061	6.31728
0.03231	6.31728

p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 4.100 m
Depth of p-y curve below ground surface = 4.100 m
Equivalent depth of p-y curve = 4.100 m
Pile diameter = 800.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.006 m
As = 0.60000
Ac (not used) = 0.30000
pct = 1085.760 kN/m
pcd = 704.000 kN/m

pc = 704.000 kN/m
pu = 61.729 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00168	192.79834
0.00336	272.65803
0.00504	317.65677
0.00672	346.87668
0.00840	366.83411
0.01008	380.16536
0.01176	388.37691
0.01344	392.44090
0.01512	393.03315
0.01680	390.64849
0.01848	385.66350
0.02016	378.52904
0.03360	272.92904
0.04704	167.32904
0.06048	61.72904
0.06384	61.72904

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 4.300 m
Depth of p-y curve below pile head = 4.500 m
Depth of p-y curve below ground surface = 4.500 m
Equiv. depth of p-y curve below ground surface = 2.030 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200

J (default value) = 0.5000
Transition depth Xr = 6.802 m
Static pu_s for flat ground = 151.923 kN/m
Static pu_d for flat ground = 252.000 kN/m
y_50 = 0.04000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 151.923 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00009481	10.12823
0.00075852	20.25646
0.00256	30.38469
0.00607	40.51292
0.01185	50.64115
0.02048	60.76938
0.03252	70.89761
0.04855	81.02583
0.06912	91.15406
0.09481	101.28229
0.12620	111.41052
0.16384	121.53875
0.20831	131.66698
0.26017	141.79521
0.32000	151.92344
0.34000	151.92344

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 4.300 m
Depth of p-y curve below pile head = 9.000 m
Depth of p-y curve below ground surface = 9.000 m
Equiv. depth of p-y curve below ground surface = 9.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm

Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 6.802 m
Static pu_s for flat ground = 306.300 kN/m
Static pu_d for flat ground = 252.000 kN/m
y_50 = 0.04000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 252.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00009481	16.80000
0.00075852	33.60000
0.00256	50.40000
0.00607	67.20000
0.01185	84.00000
0.02048	100.80000
0.03252	117.60000
0.04855	134.40000
0.06912	151.20000
0.09481	168.00000
0.12620	184.80000
0.16384	201.60000
0.20831	218.40000
0.26017	235.20000
0.32000	252.00000
0.34000	252.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 4.300 m
Depth of p-y curve below pile head = 11.800 m
Depth of p-y curve below ground surface = 11.800 m
Equiv. depth of p-y curve below ground surface = 11.800 m
Ground slope angle = 0.000 degrees

Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 6.802 m
Static pu_s for flat ground = 375.460 kN/m
Static pu_d for flat ground = 252.000 kN/m
y_50 = 0.04000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 252.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00009481	16.80000
0.00075852	33.60000
0.00256	50.40000
0.00607	67.20000
0.01185	84.00000
0.02048	100.80000
0.03252	117.60000
0.04855	134.40000
0.06912	151.20000
0.09481	168.00000
0.12620	184.80000
0.16384	201.60000
0.20831	218.40000
0.26017	235.20000
0.32000	252.00000
0.34000	252.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 12.000 m
Depth of p-y curve below pile head = 12.200 m
Depth of p-y curve below ground surface = 12.200 m
Equiv. depth of p-y curve below ground surface = 12.200 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 7.273 m
Static pu_s for flat ground = 470.340 kN/m
Static pu_d for flat ground = 324.000 kN/m
y_50 = 0.03000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 324.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00007111	21.60000
0.00056889	43.20000
0.00192	64.80000
0.00455	86.40000
0.00889	108.00000
0.01536	129.60000
0.02439	151.20000
0.03641	172.80000
0.05184	194.40000
0.07111	216.00000
0.09465	237.60000
0.12288	259.20000
0.15623	280.80000
0.19513	302.40000
0.24000	324.00000
0.25500	324.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 12.000 m
Depth of p-y curve below pile head = 16.000 m
Depth of p-y curve below ground surface = 16.000 m
Equiv. depth of p-y curve below ground surface = 16.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 7.273 m
Static pu_s for flat ground = 583.200 kN/m
Static pu_d for flat ground = 324.000 kN/m
y_50 = 0.03000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 324.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00007111	21.60000
0.00056889	43.20000
0.00192	64.80000
0.00455	86.40000
0.00889	108.00000
0.01536	129.60000
0.02439	151.20000
0.03641	172.80000
0.05184	194.40000
0.07111	216.00000
0.09465	237.60000
0.12288	259.20000
0.15623	280.80000
0.19513	302.40000

0.24000	324.00000
0.25500	324.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 12.000 m
Depth of p-y curve below pile head = 19.800 m
Depth of p-y curve below ground surface = 19.800 m
Equiv. depth of p-y curve below ground surface = 19.800 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 7.273 m
Static pu_s for flat ground = 696.060 kN/m
Static pu_d for flat ground = 324.000 kN/m
y_50 = 0.03000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 324.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00007111	21.60000
0.00056889	43.20000
0.00192	64.80000
0.00455	86.40000
0.00889	108.00000
0.01536	129.60000
0.02439	151.20000
0.03641	172.80000
0.05184	194.40000
0.07111	216.00000
0.09465	237.60000

0.12288	259.20000
0.15623	280.80000
0.19513	302.40000
0.24000	324.00000
0.25500	324.00000

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 1

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 50.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	5.11E-04	-3.05E-12	50.0000	-2.56E-04	6.07E-11	562973.	0.00	0.00	0.00
0.2000	4.60E-04	10.0000	48.7513	-2.55E-04	198.9437	562973.	-12.4873	5429.	0.00
0.4000	4.09E-04	19.5005	45.2795	-2.49E-04	387.9503	562973.	-22.2305	10858.	0.00
0.6000	3.60E-04	28.1118	40.1222	-2.41E-04	559.2664	562973.	-29.3424	16287.	0.00
0.8000	3.13E-04	35.5494	33.7878	-2.30E-04	707.2327	562973.	-34.0022	21716.	0.00
1.0000	2.69E-04	41.6269	26.7431	-2.16E-04	828.1408	562973.	-36.4444	27145.	0.00
1.2000	2.27E-04	46.2466	19.4042	-2.00E-04	920.0475	562973.	-36.9449	32574.	0.00
1.4000	1.88E-04	49.3886	12.1290	-1.83E-04	982.5544	562973.	-35.8070	38003.	0.00
1.6000	1.54E-04	51.0982	5.2136	-1.65E-04	1017.	562973.	-33.3467	43432.	0.00
1.8000	1.22E-04	51.4740	-1.1090	-1.47E-04	1024.	562973.	-29.8796	48860.	0.00
2.0000	9.47E-05	50.6546	-6.6678	-1.29E-04	1008.	562973.	-25.7084	54289.	0.00
2.2000	7.07E-05	48.8069	-11.3500	-1.11E-04	970.9822	562973.	-21.1136	59718.	0.00
2.4000	5.02E-05	46.1146	-15.0959	-9.45E-05	917.4211	562973.	-16.3456	65147.	0.00
2.6000	3.29E-05	42.7685	-17.8924	-7.87E-05	850.8525	562973.	-11.6192	70576.	0.00
2.8000	1.87E-05	38.9576	-19.7654	-6.42E-05	775.0377	562973.	-7.1110	76005.	0.00
3.0000	7.26E-06	34.8623	-20.7724	-5.10E-05	693.5641	562973.	-2.9581	81434.	0.00
3.2000	-1.70E-06	30.6487	-20.9941	-3.94E-05	609.7365	562973.	0.7405	86863.	0.00
3.4000	-8.50E-06	26.4647	-20.5279	-2.93E-05	526.4982	562973.	3.9211	92292.	0.00
3.6000	-1.34E-05	22.4375	-19.4807	-2.06E-05	446.3803	562973.	6.5518	97721.	0.00

3.8000	-1.67E-05	18.6724	-17.9628	-1.33E-05	371.4761	562973.	8.6269	103150.	0.00
4.0000	-1.87E-05	15.2524	-16.0839	-7.25E-06	303.4370	562973.	10.1619	108579.	0.00
4.2000	-1.96E-05	12.2389	-13.9490	-2.36E-06	243.4844	562973.	11.1872	114008.	0.00
4.4000	-1.97E-05	9.6728	-12.2419	1.53E-06	192.4343	562973.	5.8835	59844.	0.00
4.6000	-1.90E-05	7.3421	-11.0527	4.55E-06	146.0662	562973.	6.0084	63202.	0.00
4.8000	-1.78E-05	5.2517	-9.8451	6.79E-06	104.4795	562973.	6.0683	68022.	0.00
5.0000	-1.63E-05	3.4041	-8.6315	8.33E-06	67.7217	562973.	6.0676	74459.	0.00
5.2000	-1.45E-05	1.7991	-7.4238	9.25E-06	35.7924	562973.	6.0094	82822.	0.00
5.4000	-1.26E-05	0.4346	-6.2332	9.65E-06	8.6453	562973.	5.8960	93604.	0.00
5.6000	-1.07E-05	-0.6942	-5.0708	9.60E-06	13.8100	562973.	5.7287	107554.	0.00
5.8000	-8.76E-06	-1.5937	-3.9470	9.19E-06	31.7066	562973.	5.5087	125811.	0.00
6.0000	-6.97E-06	-2.2730	-2.8725	8.51E-06	45.2193	562973.	5.2363	150150.	0.00
6.2000	-5.35E-06	-2.7427	-1.8578	7.62E-06	54.5652	562973.	4.9110	183454.	0.00
6.4000	-3.93E-06	-3.0161	-0.9136	6.59E-06	60.0029	562973.	4.5308	230692.	0.00
6.6000	-2.72E-06	-3.1082	-0.05147	5.51E-06	61.8352	562973.	4.0903	301172.	0.00
6.8000	-1.73E-06	-3.0367	0.7153	4.41E-06	60.4125	562973.	3.5774	414667.	0.00
7.0000	-9.50E-07	-2.8221	1.4221	3.37E-06	56.1430	562973.	3.4902	734488.	0.00
7.2000	-3.76E-07	-2.4678	2.0156	2.43E-06	49.0961	562973.	2.4452	1301340.	0.00
7.4000	2.34E-08	-2.0158	2.2592	1.64E-06	40.1034	562973.	-0.00929	79233.	0.00
7.6000	2.79E-07	-1.5642	2.2472	1.00E-06	31.1181	562973.	-0.1107	79233.	0.00
7.8000	4.24E-07	-1.1169	2.2193	5.26E-07	22.2209	562973.	-0.1681	79233.	0.00
8.0000	4.90E-07	-0.6764	1.8848	2.07E-07	13.4574	562973.	-3.1768	1297162.	0.00
8.2000	5.07E-07	-0.3630	1.2410	2.27E-08	7.2220	562973.	-3.2613	1285844.	0.00
8.4000	4.99E-07	-0.1800	0.5824	-7.37E-08	3.5819	562973.	-3.3246	1332748.	0.00
8.6000	4.78E-07	-0.1301	0.2310	-1.29E-07	2.5874	562973.	-0.1893	79233.	0.00
8.8000	4.47E-07	-0.08764	0.1944	-1.67E-07	1.7435	562973.	-0.1772	79233.	0.00
9.0000	4.11E-07	-0.05231	0.1604	-1.92E-07	1.0406	562973.	-0.1627	79233.	0.00
9.2000	3.70E-07	-0.02349	0.1294	-2.06E-07	0.4673	562973.	-0.1468	79233.	0.00
9.4000	3.28E-07	-5.39E-04	0.1017	-2.10E-07	0.01072	562973.	-0.1301	79233.	0.00
9.6000	2.86E-07	0.01721	0.07737	-2.07E-07	0.3423	562973.	-0.1135	79233.	0.00
9.8000	2.46E-07	0.03041	0.05629	-1.99E-07	0.6050	562973.	-0.09731	79233.	0.00
10.0000	2.07E-07	0.03972	0.03836	-1.86E-07	0.7903	562973.	-0.08200	79233.	0.00
10.2000	1.71E-07	0.04576	0.02338	-1.71E-07	0.9103	562973.	-0.06780	79233.	0.00
10.4000	1.39E-07	0.04908	0.01111	-1.54E-07	0.9763	562973.	-0.05490	79233.	0.00
10.6000	1.09E-07	0.05020	0.00129	-1.37E-07	0.9987	562973.	-0.04338	79233.	0.00
10.8000	8.40E-08	0.04959	-0.00638	-1.19E-07	0.9866	562973.	-0.03326	79233.	0.00
11.0000	6.20E-08	0.04765	-0.01216	-1.02E-07	0.9480	562973.	-0.02455	79233.	0.00
11.2000	4.34E-08	0.04473	-0.01633	-8.51E-08	0.8898	562973.	-0.01718	79233.	0.00
11.4000	2.79E-08	0.04112	-0.01916	-6.99E-08	0.8180	562973.	-0.01106	79233.	0.00
11.6000	1.54E-08	0.03706	-0.02087	-5.60E-08	0.7374	562973.	-0.00610	79233.	0.00
11.8000	5.53E-09	0.03277	-0.02170	-4.36E-08	0.6519	562973.	-0.00219	79233.	0.00
12.0000	-2.02E-09	0.02838	-0.02182	-3.27E-08	0.5647	562973.	0.00105	103488.	0.00
12.2000	-7.56E-09	0.02404	-0.02120	-2.34E-08	0.4783	562973.	0.00513	135828.	0.00
12.4000	-1.14E-08	0.01990	-0.01991	-1.56E-08	0.3960	562973.	0.00773	135828.	0.00

12.6000	-1.38E-08	0.01608	-0.01820	-9.21E-09	0.3198	562973.	0.00937	135828.	0.00
12.8000	-1.51E-08	0.01262	-0.01624	-4.11E-09	0.2511	562973.	0.01023	135828.	0.00
13.0000	-1.54E-08	0.00958	-0.01417	-1.65E-10	0.1906	562973.	0.01048	135828.	0.00
13.2000	-1.51E-08	0.00695	-0.01209	2.77E-09	0.1383	562973.	0.01028	135828.	0.00
13.4000	-1.43E-08	0.00474	-0.01009	4.85E-09	0.09431	562973.	0.00973	135828.	0.00
13.6000	-1.32E-08	0.00292	-0.00823	6.21E-09	0.05802	562973.	0.00896	135828.	0.00
13.8000	-1.18E-08	0.00145	-0.00652	6.98E-09	0.02886	562973.	0.00805	135828.	0.00
14.0000	-1.04E-08	3.07E-04	-0.00501	7.30E-09	0.00610	562973.	0.00706	135828.	0.00
14.2000	-8.93E-09	-5.55E-04	-0.00370	7.25E-09	0.01104	562973.	0.00606	135828.	0.00
14.4000	-7.50E-09	-0.00117	-0.00259	6.95E-09	0.02336	562973.	0.00509	135828.	0.00
14.6000	-6.15E-09	-0.00159	-0.00166	6.45E-09	0.03162	562973.	0.00418	135828.	0.00
14.8000	-4.92E-09	-0.00184	-9.08E-04	5.85E-09	0.03656	562973.	0.00334	135828.	0.00
15.0000	-3.81E-09	-0.00195	-3.15E-04	5.17E-09	0.03884	562973.	0.00259	135828.	0.00
15.2000	-2.85E-09	-0.00196	1.37E-04	4.48E-09	0.03907	562973.	0.00193	135828.	0.00
15.4000	-2.02E-09	-0.00190	4.68E-04	3.79E-09	0.03775	562973.	0.00137	135828.	0.00
15.6000	-1.33E-09	-0.00178	6.95E-04	3.14E-09	0.03534	562973.	9.03E-04	135828.	0.00
15.8000	-7.65E-10	-0.00162	8.37E-04	2.54E-09	0.03222	562973.	5.20E-04	135828.	0.00
16.0000	-3.16E-10	-0.00144	9.11E-04	1.99E-09	0.02868	562973.	2.14E-04	135828.	0.00
16.2000	3.14E-11	-0.00126	9.30E-04	1.51E-09	0.02497	562973.	-2.13E-05	135828.	0.00
16.4000	2.89E-10	-0.00107	9.08E-04	1.10E-09	0.02128	562973.	-1.96E-04	135828.	0.00
16.6000	4.71E-10	-8.92E-04	8.57E-04	7.51E-10	0.01774	562973.	-3.20E-04	135828.	0.00
16.8000	5.90E-10	-7.27E-04	7.85E-04	4.64E-10	0.01446	562973.	-4.01E-04	135828.	0.00
17.0000	6.57E-10	-5.78E-04	7.00E-04	2.32E-10	0.01150	562973.	-4.46E-04	135828.	0.00
17.2000	6.83E-10	-4.47E-04	6.09E-04	5.00E-11	0.00889	562973.	-4.64E-04	135828.	0.00
17.4000	6.77E-10	-3.34E-04	5.17E-04	-8.88E-11	0.00665	562973.	-4.60E-04	135828.	0.00
17.6000	6.47E-10	-2.40E-04	4.27E-04	-1.91E-10	0.00478	562973.	-4.39E-04	135828.	0.00
17.8000	6.00E-10	-1.63E-04	3.42E-04	-2.62E-10	0.00325	562973.	-4.08E-04	135828.	0.00
18.0000	5.42E-10	-1.03E-04	2.65E-04	-3.10E-10	0.00205	562973.	-3.68E-04	135828.	0.00
18.2000	4.76E-10	-5.76E-05	1.95E-04	-3.38E-10	0.00115	562973.	-3.24E-04	135828.	0.00
18.4000	4.07E-10	-2.50E-05	1.35E-04	-3.53E-10	4.98E-04	562973.	-2.76E-04	135828.	0.00
18.6000	3.35E-10	-3.48E-06	8.50E-05	-3.58E-10	6.93E-05	562973.	-2.28E-04	135828.	0.00
18.8000	2.64E-10	8.96E-06	4.43E-05	-3.57E-10	1.78E-04	562973.	-1.79E-04	135828.	0.00
19.0000	1.92E-10	1.43E-05	1.34E-05	-3.53E-10	2.84E-04	562973.	-1.31E-04	135828.	0.00
19.2000	1.22E-10	1.43E-05	-8.00E-06	-3.48E-10	2.85E-04	562973.	-8.31E-05	135828.	0.00
19.4000	5.32E-11	1.11E-05	-1.99E-05	-3.43E-10	2.20E-04	562973.	-3.61E-05	135828.	0.00
19.6000	-1.51E-11	6.34E-06	-2.25E-05	-3.40E-10	1.26E-04	562973.	1.02E-05	135828.	0.00
19.8000	-8.29E-11	2.05E-06	-1.59E-05	-3.39E-10	4.07E-05	562973.	5.63E-05	135828.	0.00
20.0000	-1.51E-10	0.00	0.00	-3.39E-10	0.00	562973.	1.02E-04	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 1:

Pile-head deflection = 0.00051128 meters
Computed slope at pile head = -0.00025628 radians
Maximum bending moment = 51.47401427 kN-m
Maximum shear force = 50.00000000 kN
Depth of maximum bending moment = 1.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 6
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 2

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 75.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	8.01E-04	0.00	75.0000	-3.97E-04	0.00	562973.	0.00	0.00	0.00
0.2000	7.22E-04	15.0000	73.0399	-3.94E-04	298.4155	562973.	-19.6011	5429.	0.00
0.4000	6.44E-04	29.2160	67.5845	-3.86E-04	581.2330	562973.	-34.9524	10858.	0.00
0.6000	5.68E-04	42.0338	59.8206	-3.74E-04	836.2362	562973.	-42.6868	15041.	0.00
0.8000	4.94E-04	53.1442	50.8740	-3.57E-04	1057.	562973.	-46.7794	18924.	0.00
1.0000	4.25E-04	62.3834	41.2156	-3.36E-04	1241.	562973.	-49.8047	23440.	0.00
1.2000	3.60E-04	69.6304	31.0592	-3.13E-04	1385.	562973.	-51.7592	28760.	0.00
1.4000	3.00E-04	74.8071	20.6184	-2.87E-04	1488.	562973.	-52.6493	35114.	0.00
1.6000	2.45E-04	77.8778	10.1046	-2.60E-04	1549.	562973.	-52.4885	42826.	0.00
1.8000	1.96E-04	78.8489	0.06961	-2.32E-04	1569.	562973.	-47.8612	48860.	0.00
2.0000	1.52E-04	77.9056	-8.8506	-2.04E-04	1550.	562973.	-41.3406	54289.	0.00
2.2000	1.14E-04	75.3087	-16.3951	-1.77E-04	1498.	562973.	-34.1051	59718.	0.00
2.4000	8.15E-05	71.3476	-22.4602	-1.51E-04	1419.	562973.	-26.5453	65147.	0.00
2.6000	5.38E-05	66.3246	-27.0145	-1.27E-04	1319.	562973.	-18.9976	70576.	0.00
2.8000	3.09E-05	60.5418	-30.0882	-1.04E-04	1204.	562973.	-11.7394	76005.	0.00
3.0000	1.22E-05	54.2894	-31.7608	-8.36E-05	1080.	562973.	-4.9869	81434.	0.00
3.2000	-2.54E-06	47.8375	-32.1492	-6.54E-05	951.6965	562973.	1.1024	86863.	0.00
3.4000	-1.39E-05	41.4297	-31.3964	-4.96E-05	824.2174	562973.	6.4259	92292.	0.00

3.6000	-2.24E-05	35.2789	-29.6609	-3.60E-05	701.8520	562973.	10.9294	97721.	0.00
3.8000	-2.83E-05	29.5653	-27.1081	-2.44E-05	588.1838	562973.	14.5985	103150.	0.00
4.0000	-3.21E-05	24.4357	-23.9033	-1.48E-05	486.1328	562973.	17.4494	108579.	0.00
4.2000	-3.42E-05	20.0040	-20.2064	-6.95E-06	397.9675	562973.	19.5189	114008.	0.00
4.4000	-3.49E-05	16.3531	-17.5405	-4.88E-07	325.3350	562973.	7.1401	40894.	0.00
4.6000	-3.44E-05	12.9878	-16.0924	4.72E-06	258.3843	562973.	7.3418	42639.	0.00
4.8000	-3.30E-05	9.9162	-14.6110	8.79E-06	197.2761	562973.	7.4719	45242.	0.00
5.0000	-3.09E-05	7.1434	-13.1102	1.18E-05	142.1138	562973.	7.5355	48742.	0.00
5.2000	-2.83E-05	4.6721	-11.6031	1.39E-05	92.9481	562973.	7.5362	53256.	0.00
5.4000	-2.54E-05	2.5022	-10.1018	1.52E-05	49.7795	562973.	7.4764	58982.	0.00
5.6000	-2.22E-05	0.6314	-8.6184	1.58E-05	12.5604	562973.	7.3579	66218.	0.00
5.8000	-1.91E-05	-0.9452	-7.1644	1.57E-05	18.8033	562973.	7.1821	75400.	0.00
6.0000	-1.59E-05	-2.2344	-5.7512	1.51E-05	44.4518	562973.	6.9498	87172.	0.00
6.2000	-1.30E-05	-3.2456	-4.3900	1.42E-05	64.5697	562973.	6.6617	102503.	0.00
6.4000	-1.03E-05	-3.9904	-3.0920	1.29E-05	79.3864	562973.	6.3180	122896.	0.00
6.6000	-7.85E-06	-4.4824	-1.8684	1.14E-05	89.1755	562973.	5.9181	150799.	0.00
6.8000	-5.73E-06	-4.7378	-0.7305	9.73E-06	94.2550	562973.	5.4607	190443.	0.00
7.0000	-3.96E-06	-4.7747	0.3984	8.04E-06	94.9890	562973.	5.8287	294595.	0.00
7.2000	-2.52E-06	-4.5784	1.4832	6.38E-06	91.0847	562973.	5.0197	398599.	0.00
7.4000	-1.41E-06	-4.1814	2.3996	4.82E-06	83.1858	562973.	4.1442	589700.	0.00
7.6000	-5.90E-07	-3.6186	3.1270	3.44E-06	71.9891	562973.	3.1292	1061626.	0.00
7.8000	-3.06E-08	-2.9306	3.4411	2.27E-06	58.3023	562973.	0.01212	79233.	0.00
8.0000	3.20E-07	-2.2421	3.4296	1.36E-06	44.6058	562973.	-0.1268	79233.	0.00
8.2000	5.12E-07	-1.5587	3.1223	6.80E-07	31.0102	562973.	-2.9464	1152004.	0.00
8.4000	5.92E-07	-0.9932	2.5129	2.27E-07	19.7593	562973.	-3.1480	1063207.	0.00
8.6000	6.02E-07	-0.5536	1.8729	-4.79E-08	11.0134	562973.	-3.2515	1079792.	0.00
8.8000	5.73E-07	-0.2440	1.2139	-1.90E-07	4.8550	562973.	-3.3391	1165489.	0.00
9.0000	5.26E-07	-0.06805	0.5326	-2.45E-07	1.3538	562973.	-3.4733	1319654.	0.00
9.2000	4.75E-07	-0.03099	0.1665	-2.63E-07	0.6165	562973.	-0.1882	79233.	0.00
9.4000	4.21E-07	-0.00145	0.1310	-2.68E-07	0.02888	562973.	-0.1669	79233.	0.00
9.6000	3.68E-07	0.02141	0.09973	-2.65E-07	0.4259	562973.	-0.1456	79233.	0.00
9.8000	3.15E-07	0.03844	0.07267	-2.54E-07	0.7647	562973.	-0.1249	79233.	0.00
10.0000	2.66E-07	0.05047	0.04964	-2.38E-07	1.0042	562973.	-0.1053	79233.	0.00
10.2000	2.20E-07	0.05830	0.03039	-2.19E-07	1.1598	562973.	-0.08716	79233.	0.00
10.4000	1.78E-07	0.06263	0.01462	-1.98E-07	1.2460	562973.	-0.07062	79233.	0.00
10.6000	1.41E-07	0.06414	0.00197	-1.75E-07	1.2761	562973.	-0.05584	79233.	0.00
10.8000	1.08E-07	0.06342	-0.00790	-1.52E-07	1.2617	562973.	-0.04286	79233.	0.00
11.0000	8.00E-08	0.06098	-0.01535	-1.30E-07	1.2132	562973.	-0.03168	79233.	0.00
11.2000	5.60E-08	0.05728	-0.02074	-1.09E-07	1.1395	562973.	-0.02220	79233.	0.00
11.4000	3.62E-08	0.05269	-0.02440	-8.98E-08	1.0482	562973.	-0.01434	79233.	0.00
11.6000	2.01E-08	0.04752	-0.02663	-7.20E-08	0.9454	562973.	-0.00797	79233.	0.00
11.8000	7.40E-09	0.04204	-0.02772	-5.61E-08	0.8363	562973.	-0.00293	79233.	0.00
12.0000	-2.34E-09	0.03643	-0.02789	-4.22E-08	0.7248	562973.	0.00121	103488.	0.00
12.2000	-9.48E-09	0.03088	-0.02712	-3.02E-08	0.6143	562973.	0.00644	135828.	0.00

12.4000	-1.44E-08	0.02558	-0.02550	-2.02E-08	0.5090	562973.	0.00980	135828.	0.00
12.6000	-1.76E-08	0.02068	-0.02333	-1.20E-08	0.4114	562973.	0.01192	135828.	0.00
12.8000	-1.92E-08	0.01625	-0.02083	-5.42E-09	0.3233	562973.	0.01305	135828.	0.00
13.0000	-1.97E-08	0.01235	-0.01819	-3.42E-10	0.2456	562973.	0.01340	135828.	0.00
13.2000	-1.94E-08	0.00898	-0.01553	3.45E-09	0.1786	562973.	0.01315	135828.	0.00
13.4000	-1.83E-08	0.00613	-0.01297	6.13E-09	0.1220	562973.	0.01246	135828.	0.00
13.6000	-1.69E-08	0.00379	-0.01058	7.89E-09	0.07538	562973.	0.01148	135828.	0.00
13.8000	-1.52E-08	0.00190	-0.00840	8.90E-09	0.03786	562973.	0.01032	135828.	0.00
14.0000	-1.33E-08	4.30E-04	-0.00646	9.32E-09	0.00855	562973.	0.00906	135828.	0.00
14.2000	-1.15E-08	-6.81E-04	-0.00478	9.27E-09	0.01355	562973.	0.00778	135828.	0.00
14.4000	-9.63E-09	-0.00148	-0.00334	8.89E-09	0.02945	562973.	0.00654	135828.	0.00
14.6000	-7.91E-09	-0.00202	-0.00215	8.27E-09	0.04015	562973.	0.00537	135828.	0.00
14.8000	-6.33E-09	-0.00234	-0.00119	7.49E-09	0.04658	562973.	0.00430	135828.	0.00
15.0000	-4.91E-09	-0.00249	-4.22E-04	6.64E-09	0.04959	562973.	0.00333	135828.	0.00
15.2000	-3.67E-09	-0.00251	1.60E-04	5.75E-09	0.04994	562973.	0.00249	135828.	0.00
15.4000	-2.61E-09	-0.00243	5.87E-04	4.87E-09	0.04831	562973.	0.00177	135828.	0.00
15.6000	-1.72E-09	-0.00228	8.81E-04	4.03E-09	0.04527	562973.	0.00117	135828.	0.00
15.8000	-9.97E-10	-0.00208	0.00107	3.26E-09	0.04130	562973.	6.77E-04	135828.	0.00
16.0000	-4.18E-10	-0.00185	0.00116	2.56E-09	0.03678	562973.	2.84E-04	135828.	0.00
16.2000	2.88E-11	-0.00161	0.00119	1.95E-09	0.03205	562973.	-1.95E-05	135828.	0.00
16.4000	3.61E-10	-0.00137	0.00116	1.42E-09	0.02733	562973.	-2.45E-04	135828.	0.00
16.6000	5.97E-10	-0.00115	0.00110	9.72E-10	0.02280	562973.	-4.05E-04	135828.	0.00
16.8000	7.50E-10	-9.35E-04	0.00101	6.02E-10	0.01860	562973.	-5.10E-04	135828.	0.00
17.0000	8.38E-10	-7.44E-04	8.98E-04	3.04E-10	0.01480	562973.	-5.69E-04	135828.	0.00
17.2000	8.72E-10	-5.76E-04	7.82E-04	6.99E-11	0.01145	562973.	-5.92E-04	135828.	0.00
17.4000	8.65E-10	-4.31E-04	6.64E-04	-1.09E-10	0.00858	562973.	-5.88E-04	135828.	0.00
17.6000	8.28E-10	-3.10E-04	5.49E-04	-2.41E-10	0.00617	562973.	-5.63E-04	135828.	0.00
17.8000	7.69E-10	-2.12E-04	4.40E-04	-3.33E-10	0.00421	562973.	-5.22E-04	135828.	0.00
18.0000	6.95E-10	-1.34E-04	3.41E-04	-3.95E-10	0.00267	562973.	-4.72E-04	135828.	0.00
18.2000	6.11E-10	-7.54E-05	2.52E-04	-4.32E-10	0.00150	562973.	-4.15E-04	135828.	0.00
18.4000	5.22E-10	-3.33E-05	1.75E-04	-4.51E-10	6.63E-04	562973.	-3.55E-04	135828.	0.00
18.6000	4.31E-10	-5.41E-06	1.10E-04	-4.58E-10	1.08E-04	562973.	-2.93E-04	135828.	0.00
18.8000	3.39E-10	1.08E-05	5.80E-05	-4.57E-10	2.15E-04	562973.	-2.30E-04	135828.	0.00
19.0000	2.48E-10	1.78E-05	1.81E-05	-4.52E-10	3.54E-04	562973.	-1.68E-04	135828.	0.00
19.2000	1.58E-10	1.80E-05	-9.47E-06	-4.46E-10	3.59E-04	562973.	-1.07E-04	135828.	0.00
19.4000	6.96E-11	1.40E-05	-2.49E-05	-4.40E-10	2.78E-04	562973.	-4.73E-05	135828.	0.00
19.6000	-1.79E-11	8.05E-06	-2.85E-05	-4.36E-10	1.60E-04	562973.	1.21E-05	135828.	0.00
19.8000	-1.05E-10	2.60E-06	-2.01E-05	-4.34E-10	5.18E-05	562973.	7.12E-05	135828.	0.00
20.0000	-1.92E-10	0.00	0.00	-4.34E-10	0.00	562973.	1.30E-04	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 2:

Pile-head deflection = 0.00080144 meters
Computed slope at pile head = -0.00039674 radians
Maximum bending moment = 78.84893804 kN-m
Maximum shear force = 75.00000000 kN
Depth of maximum bending moment = 1.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 8
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 3

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 100.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00117	-3.36E-11	100.0000	-5.65E-04	6.68E-10	562973.	0.00	0.00	0.00
0.2000	0.00106	20.0000	97.1206	-5.61E-04	397.8874	562973.	-28.7938	5429.	0.00
0.4000	9.49E-04	38.8482	89.6824	-5.51E-04	772.8614	562973.	-45.5888	9605.	0.00
0.6000	8.41E-04	55.8729	79.9285	-5.34E-04	1112.	562973.	-51.9498	12361.	0.00
0.8000	7.36E-04	70.8197	69.0262	-5.11E-04	1409.	562973.	-57.0735	15513.	0.00
1.0000	6.36E-04	83.4834	57.2249	-4.84E-04	1661.	562973.	-60.9390	19161.	0.00
1.2000	5.42E-04	93.7096	44.7773	-4.52E-04	1864.	562973.	-63.5376	23433.	0.00
1.4000	4.55E-04	101.3943	31.9364	-4.18E-04	2017.	562973.	-64.8706	28505.	0.00
1.6000	3.75E-04	106.4842	18.9546	-3.81E-04	2118.	562973.	-64.9481	34618.	0.00
1.8000	3.03E-04	108.9761	6.0813	-3.42E-04	2168.	562973.	-63.7844	42120.	0.00
2.0000	2.38E-04	108.9167	-6.4363	-3.04E-04	2167.	562973.	-61.3920	51535.	0.00
2.2000	1.81E-04	106.4016	-17.9913	-2.65E-04	2117.	562973.	-54.1577	59718.	0.00
2.4000	1.32E-04	101.7202	-27.7087	-2.29E-04	2024.	562973.	-43.0164	65147.	0.00
2.6000	9.00E-05	95.3181	-35.1851	-1.94E-04	1896.	562973.	-31.7479	70576.	0.00
2.8000	5.46E-05	87.6462	-40.4367	-1.61E-04	1744.	562973.	-20.7681	76005.	0.00
3.0000	2.56E-05	79.1435	-43.5542	-1.31E-04	1575.	562973.	-10.4065	81434.	0.00
3.2000	2.09E-06	70.2245	-44.6856	-1.05E-04	1397.	562973.	-0.9078	86863.	0.00

3.4000	-1.64E-05	61.2692	-44.0202	-8.15E-05	1219.	562973.	7.5625	92292.	0.00
3.6000	-3.05E-05	52.6164	-41.7730	-6.13E-05	1047.	562973.	14.9089	97721.	0.00
3.8000	-4.09E-05	44.5600	-38.1727	-4.40E-05	886.4928	562973.	21.0941	103150.	0.00
4.0000	-4.81E-05	37.3473	-33.4509	-2.95E-05	743.0014	562973.	26.1243	108579.	0.00
4.2000	-5.27E-05	31.1796	-27.8351	-1.73E-05	620.2990	562973.	30.0339	114008.	0.00
4.4000	-5.50E-05	26.2133	-24.0002	-7.10E-06	521.4968	562973.	8.3154	30217.	0.00
4.6000	-5.55E-05	21.5796	-22.3070	1.39E-06	429.3118	562973.	8.6163	31034.	0.00
4.8000	-5.45E-05	17.2905	-20.5617	8.29E-06	343.9835	562973.	8.8366	32437.	0.00
5.0000	-5.22E-05	13.3549	-18.7797	1.37E-05	265.6871	562973.	8.9830	34410.	0.00
5.2000	-4.90E-05	9.7786	-16.9754	1.78E-05	194.5392	562973.	9.0599	36987.	0.00
5.4000	-4.51E-05	6.5647	-15.1624	2.07E-05	130.6009	562973.	9.0702	40246.	0.00
5.6000	-4.07E-05	3.7136	-13.3538	2.26E-05	73.8805	562973.	9.0164	44316.	0.00
5.8000	-3.60E-05	1.2232	-11.5621	2.35E-05	24.3350	562973.	8.8999	49383.	0.00
6.0000	-3.13E-05	-0.9112	-9.7999	2.35E-05	18.1281	562973.	8.7221	55713.	0.00
6.2000	-2.66E-05	-2.6968	-8.0793	2.29E-05	53.6504	562973.	8.4839	63687.	0.00
6.4000	-2.22E-05	-4.1430	-6.4124	2.16E-05	82.4215	562973.	8.1860	73864.	0.00
6.6000	-1.80E-05	-5.2617	-4.8109	2.00E-05	104.6783	562973.	7.8288	87072.	0.00
6.8000	-1.42E-05	-6.0673	-3.2867	1.80E-05	120.7052	562973.	7.4126	104598.	0.00
7.0000	-1.08E-05	-6.5764	-1.7273	1.57E-05	130.8334	562973.	8.1814	151569.	0.00
7.2000	-7.89E-06	-6.7582	-0.1712	1.34E-05	134.4509	562973.	7.3795	187175.	0.00
7.4000	-5.45E-06	-6.6449	1.2209	1.10E-05	132.1961	562973.	6.5422	239876.	0.00
7.6000	-3.50E-06	-6.2699	2.4415	8.68E-06	124.7351	562973.	5.6639	323981.	0.00
7.8000	-1.98E-06	-5.6683	3.4806	6.56E-06	112.7670	562973.	4.7264	476532.	0.00
8.0000	-8.74E-07	-4.8776	4.3207	4.68E-06	97.0376	562973.	3.6748	841245.	0.00
8.2000	-1.10E-07	-3.9400	4.6925	3.12E-06	78.3839	562973.	0.04365	79233.	0.00
8.4000	3.73E-07	-3.0006	4.4466	1.88E-06	59.6955	562973.	-2.5030	1340898.	0.00
8.6000	6.44E-07	-2.1614	3.8846	9.68E-07	42.9989	562973.	-3.1168	968488.	0.00
8.8000	7.60E-07	-1.4468	3.2373	3.27E-07	28.7826	562973.	-3.3562	882743.	0.00
9.0000	7.74E-07	-0.8664	2.5575	-8.41E-08	17.2371	562973.	-3.4424	889087.	0.00
9.2000	7.27E-07	-0.4238	1.8670	-3.13E-07	8.4310	562973.	-3.4621	952752.	0.00
9.4000	6.49E-07	-0.1196	1.1736	-4.10E-07	2.3799	562973.	-3.4723	1069953.	0.00
9.6000	5.63E-07	0.04564	0.4742	-4.23E-07	0.9080	562973.	-3.5210	1251166.	0.00
9.8000	4.80E-07	0.07007	0.1031	-4.02E-07	1.3940	562973.	-0.1901	79233.	0.00
10.0000	4.02E-07	0.08690	0.06820	-3.75E-07	1.7287	562973.	-0.1592	79233.	0.00
10.2000	3.30E-07	0.09735	0.03920	-3.42E-07	1.9367	562973.	-0.1308	79233.	0.00
10.4000	2.65E-07	0.1026	0.01562	-3.06E-07	2.0407	562973.	-0.1050	79233.	0.00
10.6000	2.08E-07	0.1036	-0.00311	-2.70E-07	2.0610	562973.	-0.08223	79233.	0.00
10.8000	1.57E-07	0.1013	-0.01756	-2.33E-07	2.0160	562973.	-0.06232	79233.	0.00
11.0000	1.14E-07	0.09657	-0.02832	-1.98E-07	1.9213	562973.	-0.04526	79233.	0.00
11.2000	7.81E-08	0.09001	-0.03594	-1.65E-07	1.7906	562973.	-0.03093	79233.	0.00
11.4000	4.83E-08	0.08220	-0.04094	-1.34E-07	1.6353	562973.	-0.01912	79233.	0.00
11.6000	2.43E-08	0.07363	-0.04382	-1.07E-07	1.4648	562973.	-0.00964	79233.	0.00
11.8000	5.60E-09	0.06467	-0.04501	-8.21E-08	1.2866	562973.	-0.00222	79233.	0.00
12.0000	-8.53E-09	0.05563	-0.04479	-6.08E-08	1.1066	562973.	0.00441	103488.	0.00

12.2000	-1.87E-08	0.04676	-0.04307	-4.26E-08	0.9302	562973.	0.01270	135828.	0.00
12.4000	-2.56E-08	0.03840	-0.04007	-2.74E-08	0.7639	562973.	0.01735	135828.	0.00
12.6000	-2.97E-08	0.03073	-0.03632	-1.52E-08	0.6113	562973.	0.02015	135828.	0.00
12.8000	-3.16E-08	0.02387	-0.03216	-5.46E-09	0.4749	562973.	0.02147	135828.	0.00
13.0000	-3.19E-08	0.01787	-0.02784	1.95E-09	0.3554	562973.	0.02164	135828.	0.00
13.2000	-3.08E-08	0.01273	-0.02359	7.39E-09	0.2533	562973.	0.02094	135828.	0.00
13.4000	-2.89E-08	0.00843	-0.01953	1.11E-08	0.1678	562973.	0.01963	135828.	0.00
13.6000	-2.64E-08	0.00492	-0.01577	1.35E-08	0.09786	562973.	0.01792	135828.	0.00
13.8000	-2.35E-08	0.00212	-0.01239	1.48E-08	0.04222	562973.	0.01596	135828.	0.00
14.0000	-2.05E-08	-3.58E-05	-0.00940	1.51E-08	7.12E-04	562973.	0.01390	135828.	0.00
14.2000	-1.74E-08	-0.00164	-0.00683	1.48E-08	0.03258	562973.	0.01185	135828.	0.00
14.4000	-1.45E-08	-0.00277	-0.00465	1.41E-08	0.05503	562973.	0.00987	135828.	0.00
14.6000	-1.18E-08	-0.00350	-0.00286	1.29E-08	0.06961	562973.	0.00803	135828.	0.00
14.8000	-9.36E-09	-0.00391	-0.00142	1.16E-08	0.07781	562973.	0.00636	135828.	0.00
15.0000	-7.17E-09	-0.00407	-3.02E-04	1.02E-08	0.08095	562973.	0.00487	135828.	0.00
15.2000	-5.27E-09	-0.00403	5.44E-04	8.77E-09	0.08021	562973.	0.00358	135828.	0.00
15.4000	-3.66E-09	-0.00385	0.00115	7.37E-09	0.07662	562973.	0.00249	135828.	0.00
15.6000	-2.33E-09	-0.00357	0.00156	6.05E-09	0.07105	562973.	0.00158	135828.	0.00
15.8000	-1.24E-09	-0.00323	0.00180	4.85E-09	0.06423	562973.	8.43E-04	135828.	0.00
16.0000	-3.87E-10	-0.00285	0.00191	3.77E-09	0.05673	562973.	2.63E-04	135828.	0.00
16.2000	2.65E-10	-0.00246	0.00192	2.82E-09	0.04902	562973.	-1.80E-04	135828.	0.00
16.4000	7.41E-10	-0.00208	0.00185	2.01E-09	0.04146	562973.	-5.03E-04	135828.	0.00
16.6000	1.07E-09	-0.00172	0.00173	1.34E-09	0.03430	562973.	-7.27E-04	135828.	0.00
16.8000	1.28E-09	-0.00139	0.00157	7.83E-10	0.02772	562973.	-8.67E-04	135828.	0.00
17.0000	1.38E-09	-0.00110	0.00139	3.41E-10	0.02182	562973.	-9.40E-04	135828.	0.00
17.2000	1.41E-09	-8.38E-04	0.00120	-2.62E-12	0.01668	562973.	-9.59E-04	135828.	0.00
17.4000	1.38E-09	-6.18E-04	0.00101	-2.61E-10	0.01229	562973.	-9.39E-04	135828.	0.00
17.6000	1.31E-09	-4.35E-04	8.25E-04	-4.48E-10	0.00866	562973.	-8.88E-04	135828.	0.00
17.8000	1.20E-09	-2.88E-04	6.54E-04	-5.77E-10	0.00573	562973.	-8.17E-04	135828.	0.00
18.0000	1.08E-09	-1.73E-04	5.00E-04	-6.59E-10	0.00345	562973.	-7.32E-04	135828.	0.00
18.2000	9.39E-10	-8.82E-05	3.63E-04	-7.05E-10	0.00175	562973.	-6.38E-04	135828.	0.00
18.4000	7.95E-10	-2.84E-05	2.45E-04	-7.26E-10	5.66E-04	562973.	-5.40E-04	135828.	0.00
18.6000	6.49E-10	9.70E-06	1.47E-04	-7.29E-10	1.93E-04	562973.	-4.41E-04	135828.	0.00
18.8000	5.04E-10	3.02E-05	6.83E-05	-7.22E-10	6.01E-04	562973.	-3.42E-04	135828.	0.00
19.0000	3.60E-10	3.70E-05	9.69E-06	-7.10E-10	7.37E-04	562973.	-2.45E-04	135828.	0.00
19.2000	2.19E-10	3.41E-05	-2.97E-05	-6.98E-10	6.78E-04	562973.	-1.49E-04	135828.	0.00
19.4000	8.11E-11	2.52E-05	-5.01E-05	-6.87E-10	5.01E-04	562973.	-5.51E-05	135828.	0.00
19.6000	-5.54E-11	1.40E-05	-5.18E-05	-6.80E-10	2.79E-04	562973.	3.76E-05	135828.	0.00
19.8000	-1.91E-10	4.43E-06	-3.51E-05	-6.77E-10	8.81E-05	562973.	1.30E-04	135828.	0.00
20.0000	-3.26E-10	0.00	0.00	-6.76E-10	0.00	562973.	2.21E-04	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 3:

Pile-head deflection = 0.00117365 meters
Computed slope at pile head = -0.00056451 radians
Maximum bending moment = 108.97614536 kN-m
Maximum shear force = 100.00000000 kN
Depth of maximum bending moment = 1.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 8
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 4

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 125.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00160	2.75E-11	125.0000	-7.48E-04	5.46E-10	562973.	0.00	0.00	0.00
0.2000	0.00145	25.0000	121.0656	-7.44E-04	497.3592	562973.	-39.3444	5429.	0.00
0.4000	0.00130	48.4262	111.7930	-7.31E-04	963.4091	562973.	-53.3810	8203.	0.00
0.6000	0.00116	69.7172	100.3598	-7.10E-04	1387.	562973.	-60.9507	10535.	0.00
0.8000	0.00102	88.5702	87.5531	-6.82E-04	1762.	562973.	-67.1170	13192.	0.00
1.0000	8.84E-04	104.7384	73.6560	-6.47E-04	2084.	562973.	-71.8537	16250.	0.00
1.2000	7.59E-04	118.0325	58.9559	-6.08E-04	2348.	562973.	-75.1470	19812.	0.00
1.4000	6.41E-04	128.3208	43.7418	-5.64E-04	2553.	562973.	-76.9941	24016.	0.00
1.6000	5.33E-04	135.5293	28.3023	-5.17E-04	2696.	562973.	-77.4009	29047.	0.00
1.8000	4.34E-04	139.6417	12.9244	-4.68E-04	2778.	562973.	-76.3783	35173.	0.00
2.0000	3.46E-04	140.6990	-2.1071	-4.19E-04	2799.	562973.	-73.9361	42789.	0.00
2.2000	2.67E-04	138.7989	-16.5079	-3.69E-04	2761.	562973.	-70.0722	52515.	0.00
2.4000	1.98E-04	134.0958	-29.9649	-3.20E-04	2668.	562973.	-64.4981	65147.	0.00
2.6000	1.39E-04	126.8129	-41.3084	-2.74E-04	2523.	562973.	-48.9368	70576.	0.00
2.8000	8.84E-05	117.5725	-49.5600	-2.31E-04	2339.	562973.	-33.5786	76005.	0.00
3.0000	4.64E-05	106.9889	-54.8068	-1.91E-04	2128.	562973.	-18.8901	81434.	0.00

3.2000	1.20E-05	95.6498	-57.2183	-1.55E-04	1903.	562973.	-5.2248	86863.	0.00
3.4000	-1.55E-05	84.1016	-57.0238	-1.23E-04	1673.	562973.	7.1700	92292.	0.00
3.6000	-3.71E-05	72.8402	-54.4926	-9.50E-05	1449.	562973.	18.1418	97721.	0.00
3.8000	-5.35E-05	62.3046	-49.9168	-7.10E-05	1240.	562973.	27.6165	103150.	0.00
4.0000	-6.55E-05	52.8735	-43.5972	-5.06E-05	1052.	562973.	35.5792	108579.	0.00
4.2000	-7.38E-05	44.8657	-35.9979	-3.32E-05	892.5742	562973.	40.4142	109569.	0.00
4.4000	-7.88E-05	38.4744	-31.0191	-1.84E-05	765.4236	562973.	9.3729	23785.	0.00
4.6000	-8.11E-05	32.4580	-29.1041	-5.79E-06	645.7318	562973.	9.7771	24103.	0.00
4.8000	-8.11E-05	26.8327	-27.1174	4.74E-06	533.8202	562973.	10.0908	24875.	0.00
5.0000	-7.92E-05	21.6111	-25.0760	1.33E-05	429.9387	562973.	10.3225	26057.	0.00
5.2000	-7.58E-05	16.8023	-22.9960	2.02E-05	334.2715	562973.	10.4778	27648.	0.00
5.4000	-7.12E-05	12.4127	-20.8922	2.54E-05	246.9423	562973.	10.5605	29680.	0.00
5.6000	-6.57E-05	8.4454	-18.7788	2.91E-05	168.0169	562973.	10.5734	32211.	0.00
5.8000	-5.95E-05	4.9012	-16.6696	3.14E-05	97.5055	562973.	10.5183	35332.	0.00
6.0000	-5.31E-05	1.7776	-14.5781	3.26E-05	35.3643	562973.	10.3967	39175.	0.00
6.2000	-4.65E-05	-0.9301	-12.5175	3.28E-05	18.5035	562973.	10.2096	43920.	0.00
6.4000	-4.00E-05	-3.2294	-10.5008	3.20E-05	64.2468	562973.	9.9578	49825.	0.00
6.6000	-3.37E-05	-5.1304	-8.5408	3.05E-05	102.0659	562973.	9.6419	57257.	0.00
6.8000	-2.78E-05	-6.6457	-6.6504	2.85E-05	132.2122	562973.	9.2622	66748.	0.00
7.0000	-2.23E-05	-7.7905	-4.6841	2.59E-05	154.9880	562973.	10.4006	93287.	0.00
7.2000	-1.74E-05	-8.5194	-2.6859	2.30E-05	169.4872	562973.	9.5812	110148.	0.00
7.4000	-1.31E-05	-8.8649	-0.8553	1.99E-05	176.3619	562973.	8.7250	133195.	0.00
7.6000	-9.44E-06	-8.8615	0.8003	1.68E-05	176.2935	562973.	7.8312	165999.	0.00
7.8000	-6.40E-06	-8.5448	2.2729	1.37E-05	169.9933	562973.	6.8947	215497.	0.00
8.0000	-3.97E-06	-7.9523	3.5525	1.07E-05	158.2064	562973.	5.9016	297333.	0.00
8.2000	-2.11E-06	-7.1238	4.6241	8.06E-06	141.7232	562973.	4.8142	457292.	0.00
8.4000	-7.47E-07	-6.1027	5.4561	5.71E-06	121.4090	562973.	3.5056	937970.	0.00
8.6000	1.77E-07	-4.9414	5.7996	3.74E-06	98.3051	562973.	-0.07009	79233.	0.00
8.8000	7.50E-07	-3.7828	5.4669	2.19E-06	75.2571	562973.	-3.2574	868331.	0.00
9.0000	1.05E-06	-2.7546	4.7708	1.03E-06	54.8012	562973.	-3.7031	702142.	0.00
9.2000	1.16E-06	-1.8745	4.0147	2.11E-07	37.2921	562973.	-3.8579	663077.	0.00
9.4000	1.14E-06	-1.1487	3.2427	-3.26E-07	22.8531	562973.	-3.8620	677961.	0.00
9.6000	1.03E-06	-0.5774	2.4787	-6.32E-07	11.4874	562973.	-3.7787	731360.	0.00
9.8000	8.86E-07	-0.1573	1.7359	-7.63E-07	3.1286	562973.	-3.6488	823350.	0.00
10.0000	7.28E-07	0.1169	1.0205	-7.70E-07	2.3266	562973.	-3.5057	962904.	0.00
10.2000	5.78E-07	0.2509	0.3318	-7.05E-07	4.9920	562973.	-3.3804	1169105.	0.00
10.4000	4.46E-07	0.2497	-0.02388	-6.16E-07	4.9673	562973.	-0.1768	79233.	0.00
10.6000	3.32E-07	0.2414	-0.05471	-5.29E-07	4.8019	562973.	-0.1315	79233.	0.00
10.8000	2.35E-07	0.2278	-0.07717	-4.45E-07	4.5319	562973.	-0.09303	79233.	0.00
11.0000	1.54E-07	0.2105	-0.09257	-3.67E-07	4.1878	562973.	-0.06096	79233.	0.00
11.2000	8.79E-08	0.1908	-0.1021	-2.96E-07	3.7953	562973.	-0.03481	79233.	0.00
11.4000	3.54E-08	0.1696	-0.1070	-2.32E-07	3.3750	562973.	-0.01403	79233.	0.00
11.6000	-4.97E-09	0.1480	-0.1082	-1.76E-07	2.9436	562973.	0.00197	79233.	0.00
11.8000	-3.49E-08	0.1264	-0.1067	-1.27E-07	2.5137	562973.	0.01381	79233.	0.00

12.0000	-5.58E-08	0.1053	-0.1024	-8.58E-08	2.0949	562973.	0.02885	103488.	0.00
12.2000	-6.92E-08	0.08540	-0.09481	-5.19E-08	1.6989	562973.	0.04698	135828.	0.00
12.4000	-7.65E-08	0.06738	-0.08491	-2.48E-08	1.3404	562973.	0.05197	135828.	0.00
12.6000	-7.91E-08	0.05143	-0.07434	-3.69E-09	1.0232	562973.	0.05372	135828.	0.00
12.8000	-7.80E-08	0.03764	-0.06367	1.21E-08	0.7488	562973.	0.05298	135828.	0.00
13.0000	-7.42E-08	0.02596	-0.05333	2.34E-08	0.5165	562973.	0.05042	135828.	0.00
13.2000	-6.86E-08	0.01631	-0.04363	3.09E-08	0.3244	562973.	0.04661	135828.	0.00
13.4000	-6.19E-08	0.00851	-0.03477	3.53E-08	0.1693	562973.	0.04202	135828.	0.00
13.6000	-5.45E-08	0.00240	-0.02687	3.73E-08	0.04770	562973.	0.03701	135828.	0.00
13.8000	-4.70E-08	-0.00223	-0.01998	3.73E-08	0.04446	562973.	0.03189	135828.	0.00
14.0000	-3.96E-08	-0.00559	-0.01410	3.59E-08	0.1113	562973.	0.02688	135828.	0.00
14.2000	-3.26E-08	-0.00787	-0.00920	3.35E-08	0.1567	562973.	0.02213	135828.	0.00
14.4000	-2.62E-08	-0.00927	-0.00521	3.05E-08	0.1845	562973.	0.01777	135828.	0.00
14.6000	-2.04E-08	-0.00996	-0.00205	2.71E-08	0.1981	562973.	0.01385	135828.	0.00
14.8000	-1.53E-08	-0.01009	3.81E-04	2.35E-08	0.2007	562973.	0.01042	135828.	0.00
15.0000	-1.10E-08	-0.00981	0.00217	2.00E-08	0.1951	562973.	0.00747	135828.	0.00
15.2000	-7.35E-09	-0.00922	0.00341	1.66E-08	0.1835	562973.	0.00499	135828.	0.00
15.4000	-4.36E-09	-0.00844	0.00421	1.35E-08	0.1679	562973.	0.00296	135828.	0.00
15.6000	-1.97E-09	-0.00754	0.00464	1.06E-08	0.1500	562973.	0.00134	135828.	0.00
15.8000	-1.12E-10	-0.00658	0.00478	8.11E-09	0.1310	562973.	7.63E-05	135828.	0.00
16.0000	1.27E-09	-0.00563	0.00470	5.94E-09	0.1119	562973.	-8.66E-04	135828.	0.00
16.2000	2.26E-09	-0.00470	0.00446	4.10E-09	0.09357	562973.	-0.00154	135828.	0.00
16.4000	2.92E-09	-0.00384	0.00411	2.58E-09	0.07643	562973.	-0.00198	135828.	0.00
16.6000	3.30E-09	-0.00306	0.00369	1.36E-09	0.06086	562973.	-0.00224	135828.	0.00
16.8000	3.46E-09	-0.00237	0.00323	3.95E-10	0.04708	562973.	-0.00235	135828.	0.00
17.0000	3.45E-09	-0.00177	0.00276	-3.39E-10	0.03517	562973.	-0.00235	135828.	0.00
17.2000	3.32E-09	-0.00126	0.00230	-8.78E-10	0.02512	562973.	-0.00226	135828.	0.00
17.4000	3.10E-09	-8.48E-04	0.00186	-1.25E-09	0.01687	562973.	-0.00211	135828.	0.00
17.6000	2.82E-09	-5.18E-04	0.00146	-1.50E-09	0.01030	562973.	-0.00192	135828.	0.00
17.8000	2.51E-09	-2.64E-04	0.00110	-1.63E-09	0.00526	562973.	-0.00170	135828.	0.00
18.0000	2.17E-09	-7.86E-05	7.81E-04	-1.70E-09	0.00156	562973.	-0.00147	135828.	0.00
18.2000	1.83E-09	4.81E-05	5.09E-04	-1.70E-09	9.57E-04	562973.	-0.00124	135828.	0.00
18.4000	1.49E-09	1.25E-04	2.84E-04	-1.67E-09	0.00249	562973.	-0.00101	135828.	0.00
18.6000	1.16E-09	1.62E-04	1.04E-04	-1.62E-09	0.00322	562973.	-7.87E-04	135828.	0.00
18.8000	8.41E-10	1.67E-04	-3.16E-05	-1.56E-09	0.00332	562973.	-5.71E-04	135828.	0.00
19.0000	5.35E-10	1.49E-04	-1.25E-04	-1.50E-09	0.00297	562973.	-3.63E-04	135828.	0.00
19.2000	2.40E-10	1.17E-04	-1.78E-04	-1.46E-09	0.00233	562973.	-1.63E-04	135828.	0.00
19.4000	-4.76E-11	7.81E-05	-1.91E-04	-1.42E-09	0.00155	562973.	3.23E-05	135828.	0.00
19.6000	-3.29E-10	4.06E-05	-1.65E-04	-1.40E-09	8.07E-04	562973.	2.24E-04	135828.	0.00
19.8000	-6.08E-10	1.20E-05	-1.01E-04	-1.39E-09	2.39E-04	562973.	4.13E-04	135828.	0.00
20.0000	-8.86E-10	0.00	0.00	-1.39E-09	0.00	562973.	6.02E-04	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 4:

Pile-head deflection = 0.00159911 meters
Computed slope at pile head = -0.00074838 radians
Maximum bending moment = 140.69900963 kN-m
Maximum shear force = 125.00000000 kN
Depth of maximum bending moment = 2.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 9
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 5

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 150.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00207	3.66E-11	150.0000	-9.46E-04	7.29E-10	562973.	0.00	0.00	0.00
0.2000	0.00188	30.0000	144.9931	-9.40E-04	596.8310	562973.	-50.0685	5318.	0.00
0.4000	0.00170	57.9973	133.8931	-9.25E-04	1154.	562973.	-60.9315	7186.	0.00
0.6000	0.00151	83.5573	120.8306	-9.00E-04	1662.	562973.	-69.6943	9213.	0.00
0.8000	0.00134	106.3295	106.1710	-8.66E-04	2115.	562973.	-76.9017	11513.	0.00
1.0000	0.00117	126.0256	90.2285	-8.25E-04	2507.	562973.	-82.5226	14148.	0.00
1.2000	0.00101	142.4209	73.3224	-7.77E-04	2833.	562973.	-86.5389	17203.	0.00
1.4000	8.56E-04	155.3546	55.7741	-7.24E-04	3091.	562973.	-88.9434	20788.	0.00
1.6000	7.16E-04	164.7305	37.9060	-6.67E-04	3277.	562973.	-89.7382	25052.	0.00
1.8000	5.89E-04	170.5170	20.0392	-6.08E-04	3392.	562973.	-88.9301	30206.	0.00
2.0000	4.73E-04	172.7462	2.4936	-5.47E-04	3437.	562973.	-86.5253	36561.	0.00
2.2000	3.70E-04	171.5144	-14.4107	-4.86E-04	3412.	562973.	-82.5179	44591.	0.00
2.4000	2.79E-04	166.9819	-30.3495	-4.25E-04	3322.	562973.	-76.8706	55088.	0.00
2.6000	2.00E-04	159.3746	-44.6878	-3.68E-04	3171.	562973.	-66.5121	66540.	0.00
2.8000	1.32E-04	149.1068	-56.3582	-3.13E-04	2966.	562973.	-50.1919	76005.	0.00

3.0000	7.48E-05	136.8313	-64.4242	-2.62E-04	2722.	562973.	-30.4677	81434.	0.00
3.2000	2.73E-05	123.3371	-68.6568	-2.16E-04	2454.	562973.	-11.8581	86863.	0.00
3.4000	-1.15E-05	109.3686	-69.3138	-1.74E-04	2176.	562973.	5.2878	92292.	0.00
3.6000	-4.24E-05	95.6116	-66.7109	-1.38E-04	1902.	562973.	20.7411	97721.	0.00
3.8000	-6.66E-05	82.6843	-61.1994	-1.06E-04	1645.	562973.	34.3733	103150.	0.00
4.0000	-8.50E-05	71.1318	-53.4255	-7.90E-05	1415.	562973.	43.3662	102074.	0.00
4.2000	-9.82E-05	61.3141	-44.4259	-5.55E-05	1220.	562973.	46.6300	94932.	0.00
4.4000	-1.07E-04	53.3615	-38.7248	-3.51E-05	1062.	562973.	10.3808	19376.	0.00
4.6000	-1.12E-04	45.8241	-36.5975	-1.75E-05	911.6424	562973.	10.8924	19404.	0.00
4.8000	-1.14E-04	38.7225	-34.3779	-2.45E-06	770.3596	562973.	11.3031	19806.	0.00
5.0000	-1.13E-04	32.0730	-32.0853	1.01E-05	638.0714	562973.	11.6236	20527.	0.00
5.2000	-1.10E-04	25.8884	-29.7368	2.04E-05	515.0331	562973.	11.8610	21549.	0.00
5.4000	-1.05E-04	20.1782	-27.3487	2.86E-05	401.4335	562973.	12.0199	22877.	0.00
5.6000	-9.86E-05	14.9489	-24.9364	3.48E-05	297.3990	562973.	12.1036	24540.	0.00
5.8000	-9.11E-05	10.2037	-22.5145	3.93E-05	202.9962	562973.	12.1146	26584.	0.00
6.0000	-8.29E-05	5.9431	-20.0976	4.22E-05	118.2340	562973.	12.0545	29076.	0.00
6.2000	-7.43E-05	2.1646	-17.6997	4.36E-05	43.0643	562973.	11.9246	32112.	0.00
6.4000	-6.55E-05	-1.1368	-15.3347	4.38E-05	22.6160	562973.	11.7259	35822.	0.00
6.6000	-5.67E-05	-3.9692	-13.0162	4.29E-05	78.9652	562973.	11.4592	40387.	0.00
6.8000	-4.83E-05	-6.3433	-10.7577	4.11E-05	126.1953	562973.	11.1252	46058.	0.00
7.0000	-4.03E-05	-8.2723	-8.3804	3.85E-05	164.5724	562973.	12.6480	62736.	0.00
7.2000	-3.29E-05	-9.6954	-5.9332	3.53E-05	192.8844	562973.	11.8238	71831.	0.00
7.4000	-2.62E-05	-10.6456	-3.6547	3.17E-05	211.7874	562973.	10.9614	83643.	0.00
7.6000	-2.03E-05	-11.1573	-1.5523	2.78E-05	221.9676	562973.	10.0625	99357.	0.00
7.8000	-1.51E-05	-11.2665	0.3666	2.38E-05	224.1404	562973.	9.1269	120942.	0.00
8.0000	-1.07E-05	-11.0107	2.0945	1.99E-05	219.0502	562973.	8.1517	151923.	0.00
8.2000	-7.15E-06	-10.4287	3.6225	1.60E-05	207.4730	562973.	7.1282	199332.	0.00
8.4000	-4.31E-06	-9.5617	4.9387	1.25E-05	190.2234	562973.	6.0344	279776.	0.00
8.6000	-2.15E-06	-8.4532	6.0232	9.29E-06	168.1717	562973.	4.8097	446417.	0.00
8.8000	-5.96E-07	-7.1524	6.8247	6.52E-06	142.2925	562973.	3.2057	1074886.	0.00
9.0000	4.54E-07	-5.7233	6.8716	4.23E-06	113.8624	562973.	-2.7364	1206292.	0.00
9.2000	1.10E-06	-4.4038	6.2223	2.44E-06	87.6098	562973.	-3.7570	684844.	0.00
9.4000	1.43E-06	-3.2344	5.4345	1.08E-06	64.3470	562973.	-4.1210	577252.	0.00
9.6000	1.53E-06	-2.2300	4.5999	1.08E-07	44.3636	562973.	-4.2250	552789.	0.00
9.8000	1.47E-06	-1.3945	3.7597	-5.36E-07	27.7424	562973.	-4.1771	567936.	0.00
10.0000	1.31E-06	-0.7261	2.9392	-9.13E-07	14.4452	562973.	-4.0277	612933.	0.00
10.2000	1.11E-06	-0.2188	2.1557	-1.08E-06	4.3531	562973.	-3.8069	688436.	0.00
10.4000	8.82E-07	0.1362	1.4215	-1.10E-06	2.7095	562973.	-3.5349	801490.	0.00
10.6000	6.68E-07	0.3498	0.7453	-1.01E-06	6.9592	562973.	-3.2272	966363.	0.00
10.8000	4.79E-07	0.4343	0.1332	-8.69E-07	8.6407	562973.	-2.8946	1209646.	0.00
11.0000	3.20E-07	0.4031	-0.1690	-7.21E-07	8.0188	562973.	-0.1268	79233.	0.00
11.2000	1.90E-07	0.3667	-0.1892	-5.84E-07	7.2960	562973.	-0.07539	79233.	0.00
11.4000	8.65E-08	0.3274	-0.2002	-4.61E-07	6.5132	562973.	-0.03428	79233.	0.00
11.6000	6.01E-09	0.2867	-0.2038	-3.52E-07	5.7031	562973.	-0.00238	79233.	0.00

11.8000	-5.41E-08	0.2459	-0.2019	-2.57E-07	4.8911	562973.	0.02144	79233.	0.00
12.0000	-9.68E-08	0.2059	-0.1948	-1.77E-07	4.0962	562973.	0.05009	103488.	0.00
12.2000	-1.25E-07	0.1679	-0.1813	-1.10E-07	3.3411	562973.	0.08479	135828.	0.00
12.4000	-1.41E-07	0.1334	-0.1632	-5.69E-08	2.6535	562973.	0.09573	135828.	0.00
12.6000	-1.48E-07	0.1026	-0.1436	-1.49E-08	2.0421	562973.	0.1002	135828.	0.00
12.8000	-1.47E-07	0.07592	-0.1236	1.68E-08	1.5105	562973.	0.09978	135828.	0.00
13.0000	-1.41E-07	0.05319	-0.1041	3.97E-08	1.0582	562973.	0.09567	135828.	0.00
13.2000	-1.31E-07	0.03429	-0.08563	5.53E-08	0.6821	562973.	0.08899	135828.	0.00
13.4000	-1.19E-07	0.01894	-0.06866	6.47E-08	0.3768	562973.	0.08066	135828.	0.00
13.6000	-1.05E-07	0.00682	-0.05346	6.93E-08	0.1357	562973.	0.07141	135828.	0.00
13.8000	-9.11E-08	-0.00244	-0.04013	7.01E-08	0.04858	562973.	0.06184	135828.	0.00
14.0000	-7.71E-08	-0.00923	-0.02871	6.80E-08	0.1836	562973.	0.05238	135828.	0.00
14.2000	-6.39E-08	-0.01393	-0.01913	6.39E-08	0.2770	562973.	0.04337	135828.	0.00
14.4000	-5.16E-08	-0.01688	-0.01129	5.84E-08	0.3359	562973.	0.03503	135828.	0.00
14.6000	-4.05E-08	-0.01844	-0.00504	5.21E-08	0.3669	562973.	0.02750	135828.	0.00
14.8000	-3.07E-08	-0.01890	-2.05E-04	4.55E-08	0.3760	562973.	0.02086	135828.	0.00
15.0000	-2.23E-08	-0.01852	0.00340	3.89E-08	0.3685	562973.	0.01514	135828.	0.00
15.2000	-1.52E-08	-0.01754	0.00594	3.24E-08	0.3490	562973.	0.01031	135828.	0.00
15.4000	-9.32E-09	-0.01615	0.00760	2.65E-08	0.3213	562973.	0.00633	135828.	0.00
15.6000	-4.60E-09	-0.01450	0.00855	2.10E-08	0.2885	562973.	0.00312	135828.	0.00
15.8000	-9.10E-10	-0.01273	0.00892	1.62E-08	0.2532	562973.	6.18E-04	135828.	0.00
16.0000	1.87E-09	-0.01093	0.00886	1.20E-08	0.2175	562973.	-0.00127	135828.	0.00
16.2000	3.88E-09	-0.00918	0.00847	8.40E-09	0.1827	562973.	-0.00264	135828.	0.00
16.4000	5.24E-09	-0.00754	0.00785	5.43E-09	0.1501	562973.	-0.00356	135828.	0.00
16.6000	6.05E-09	-0.00605	0.00708	3.02E-09	0.1203	562973.	-0.00411	135828.	0.00
16.8000	6.44E-09	-0.00471	0.00623	1.11E-09	0.09372	562973.	-0.00438	135828.	0.00
17.0000	6.50E-09	-0.00355	0.00535	-3.60E-10	0.07066	562973.	-0.00441	135828.	0.00
17.2000	6.30E-09	-0.00257	0.00449	-1.45E-09	0.05111	562973.	-0.00428	135828.	0.00
17.4000	5.92E-09	-0.00176	0.00366	-2.22E-09	0.03497	562973.	-0.00402	135828.	0.00
17.6000	5.41E-09	-0.00111	0.00289	-2.72E-09	0.02202	562973.	-0.00368	135828.	0.00
17.8000	4.83E-09	-6.03E-04	0.00219	-3.03E-09	0.01200	562973.	-0.00328	135828.	0.00
18.0000	4.20E-09	-2.31E-04	0.00158	-3.18E-09	0.00459	562973.	-0.00285	135828.	0.00
18.2000	3.56E-09	2.78E-05	0.00105	-3.21E-09	5.53E-04	562973.	-0.00242	135828.	0.00
18.4000	2.92E-09	1.90E-04	6.11E-04	-3.17E-09	0.00377	562973.	-0.00198	135828.	0.00
18.6000	2.29E-09	2.72E-04	2.57E-04	-3.09E-09	0.00541	562973.	-0.00155	135828.	0.00
18.8000	1.68E-09	2.93E-04	-1.21E-05	-2.99E-09	0.00582	562973.	-0.00114	135828.	0.00
19.0000	1.09E-09	2.67E-04	-2.00E-04	-2.89E-09	0.00532	562973.	-7.41E-04	135828.	0.00
19.2000	5.23E-10	2.12E-04	-3.10E-04	-2.81E-09	0.00423	562973.	-3.55E-04	135828.	0.00
19.4000	-3.10E-11	1.43E-04	-3.43E-04	-2.74E-09	0.00285	562973.	2.11E-05	135828.	0.00
19.6000	-5.75E-10	7.50E-05	-3.02E-04	-2.70E-09	0.00149	562973.	3.90E-04	135828.	0.00
19.8000	-1.11E-09	2.24E-05	-1.88E-04	-2.69E-09	4.46E-04	562973.	7.56E-04	135828.	0.00
20.0000	-1.65E-09	0.00	0.00	-2.68E-09	0.00	562973.	0.00112	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 5:

Pile-head deflection = 0.00207205 meters
Computed slope at pile head = -0.00094582 radians
Maximum bending moment = 172.74621070 kN-m
Maximum shear force = 150.00000000 kN
Depth of maximum bending moment = 2.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 11
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 6

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 200.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00322	4.88E-11	200.0000	-0.00140	9.71E-10	562973.	0.00	0.00	0.00
0.2000	0.00294	40.0000	194.3175	-0.00140	795.7747	562973.	-56.8248	3867.	0.00
0.4000	0.00266	77.7270	181.2805	-0.00138	1546.	562973.	-73.5460	5528.	0.00
0.6000	0.00239	112.5122	165.1855	-0.00134	2238.	562973.	-87.4033	7319.	0.00
0.8000	0.00212	143.8012	146.7488	-0.00130	2861.	562973.	-96.9643	9130.	0.00
1.0000	0.00187	171.2117	126.6050	-0.00124	3406.	562973.	-104.4735	11175.	0.00
1.2000	0.00163	194.4432	105.1507	-0.00118	3868.	562973.	-110.0689	13525.	0.00
1.4000	0.00140	213.2720	82.7703	-0.00110	4243.	562973.	-113.7353	16256.	0.00
1.6000	0.00119	227.5513	59.8501	-0.00103	4527.	562973.	-115.4666	19469.	0.00
1.8000	9.89E-04	237.2120	36.7773	-9.43E-04	4719.	562973.	-115.2621	23305.	0.00
2.0000	8.09E-04	242.2623	13.9391	-8.58E-04	4820.	562973.	-113.1198	27964.	0.00
2.2000	6.46E-04	242.7877	-8.2755	-7.71E-04	4830.	562973.	-109.0259	33748.	0.00
2.4000	5.00E-04	238.9521	-29.4717	-6.86E-04	4754.	562973.	-102.9359	41137.	0.00
2.6000	3.72E-04	230.9990	-48.8351	-6.02E-04	4596.	562973.	-90.6985	48794.	0.00

2.8000	2.59E-04	219.4180	-65.4825	-5.22E-04	4365.	562973.	-75.7748	58404.	0.00
3.0000	1.63E-04	204.8060	-79.0619	-4.47E-04	4074.	562973.	-60.0198	73734.	0.00
3.2000	8.07E-05	187.7932	-88.5674	-3.77E-04	3736.	562973.	-35.0346	86863.	0.00
3.4000	1.19E-05	169.3791	-92.6188	-3.14E-04	3370.	562973.	-5.4801	92292.	0.00
3.6000	-4.49E-05	150.7457	-90.9740	-2.57E-04	2999.	562973.	21.9288	97721.	0.00
3.8000	-9.09E-05	132.9895	-84.2952	-2.07E-04	2646.	562973.	44.8588	98671.	0.00
4.0000	-1.28E-04	117.0276	-74.4969	-1.62E-04	2328.	562973.	53.1247	83318.	0.00
4.2000	-1.56E-04	103.1907	-63.3123	-1.23E-04	2053.	562973.	58.7211	75378.	0.00
4.4000	-1.77E-04	91.7027	-56.2137	-8.85E-05	1824.	562973.	12.2647	13878.	0.00
4.6000	-1.91E-04	80.7052	-53.6866	-5.78E-05	1606.	562973.	13.0062	13606.	0.00
4.8000	-2.00E-04	70.2280	-51.0237	-3.10E-05	1397.	562973.	13.6232	13631.	0.00
5.0000	-2.04E-04	60.2958	-48.2481	-7.84E-06	1200.	562973.	14.1322	13883.	0.00
5.2000	-2.03E-04	50.9288	-45.3805	1.19E-05	1013.	562973.	14.5438	14327.	0.00
5.4000	-1.99E-04	42.1436	-42.4396	2.84E-05	838.4197	562973.	14.8650	14953.	0.00
5.6000	-1.92E-04	33.9529	-39.4431	4.20E-05	675.4723	562973.	15.1007	15759.	0.00
5.8000	-1.82E-04	26.3663	-36.4076	5.27E-05	524.5416	562973.	15.2542	16759.	0.00
6.0000	-1.71E-04	19.3899	-33.3494	6.08E-05	385.7498	562973.	15.3280	17973.	0.00
6.2000	-1.58E-04	13.0266	-30.2842	6.66E-05	259.1556	562973.	15.3241	19432.	0.00
6.4000	-1.44E-04	7.2762	-27.2274	7.02E-05	144.7559	562973.	15.2437	21180.	0.00
6.6000	-1.30E-04	2.1356	-24.1942	7.18E-05	42.4868	562973.	15.0882	23275.	0.00
6.8000	-1.15E-04	-2.4015	-21.1996	7.18E-05	47.7755	562973.	14.8584	25795.	0.00
7.0000	-1.01E-04	-6.3442	-17.9971	7.02E-05	126.2139	562973.	17.1661	34015.	0.00
7.2000	-8.71E-05	-9.6003	-14.6460	6.74E-05	190.9919	562973.	16.3455	37529.	0.00
7.4000	-7.40E-05	-12.2026	-11.4634	6.35E-05	242.7627	562973.	15.4804	41858.	0.00
7.6000	-6.17E-05	-14.1856	-8.4579	5.89E-05	282.2145	562973.	14.5744	47249.	0.00
7.8000	-5.04E-05	-15.5857	-5.6374	5.36E-05	310.0683	562973.	13.6300	54059.	0.00
8.0000	-4.03E-05	-16.4406	-3.0095	4.79E-05	327.0757	562973.	12.6489	62825.	0.00
8.2000	-3.13E-05	-16.7896	-0.5815	4.20E-05	334.0175	562973.	11.6318	74381.	0.00
8.4000	-2.35E-05	-16.6732	1.6394	3.60E-05	331.7030	562973.	10.5771	90102.	0.00
8.6000	-1.69E-05	-16.1338	3.6452	3.02E-05	320.9715	562973.	9.4804	112429.	0.00
8.8000	-1.14E-05	-15.2151	5.4263	2.46E-05	302.6957	562973.	8.3305	146177.	0.00
9.0000	-7.01E-06	-13.9633	6.9695	1.94E-05	277.7907	562973.	7.1016	202561.	0.00
9.2000	-3.62E-06	-12.4274	8.2523	1.48E-05	247.2344	562973.	5.7267	316563.	0.00
9.4000	-1.11E-06	-10.6624	9.2204	1.07E-05	212.1210	562973.	3.9539	714231.	0.00
9.6000	6.46E-07	-8.7392	9.3131	7.21E-06	173.8612	562973.	-3.0264	936854.	0.00
9.8000	1.78E-06	-6.9371	8.5712	4.43E-06	138.0097	562973.	-4.3925	493977.	0.00
10.0000	2.42E-06	-5.3107	7.6423	2.25E-06	105.6537	562973.	-4.8971	405080.	0.00
10.2000	2.68E-06	-3.8802	6.6443	6.21E-07	77.1946	562973.	-5.0822	379278.	0.00
10.4000	2.67E-06	-2.6530	5.6279	-5.39E-07	52.7798	562973.	-5.0819	381189.	0.00
10.6000	2.46E-06	-1.6291	4.6242	-1.30E-06	32.4092	562973.	-4.9553	402171.	0.00
10.8000	2.15E-06	-0.8033	3.6552	-1.73E-06	15.9818	562973.	-4.7346	441163.	0.00
11.0000	1.77E-06	-0.1670	2.7378	-1.90E-06	3.3221	562973.	-4.4393	501179.	0.00
11.2000	1.38E-06	0.2918	1.8859	-1.88E-06	5.8049	562973.	-4.0797	589240.	0.00
11.4000	1.02E-06	0.5874	1.1121	-1.73E-06	11.6854	562973.	-3.6582	718212.	0.00

11.6000	6.94E-07	0.7366	0.4299	-1.49E-06	14.6547	562973.	-3.1643	911404.	0.00
11.8000	4.22E-07	0.7593	-0.1429	-1.23E-06	15.1060	562973.	-2.5637	1213832.	0.00
12.0000	2.04E-07	0.6795	-0.4099	-9.69E-07	13.5172	562973.	-0.1058	103488.	0.00
12.2000	3.46E-08	0.5954	-0.4228	-7.43E-07	11.8443	562973.	-0.02352	135828.	0.00
12.4000	-9.28E-08	0.5103	-0.4189	-5.47E-07	10.1526	562973.	0.06304	135828.	0.00
12.6000	-1.84E-07	0.4278	-0.4001	-3.80E-07	8.5111	562973.	0.1250	135828.	0.00
12.8000	-2.45E-07	0.3503	-0.3709	-2.42E-07	6.9690	562973.	0.1663	135828.	0.00
13.0000	-2.81E-07	0.2794	-0.3352	-1.30E-07	5.5592	562973.	0.1906	135828.	0.00
13.2000	-2.97E-07	0.2162	-0.2960	-4.18E-08	4.3012	562973.	0.2015	135828.	0.00
13.4000	-2.97E-07	0.1610	-0.2557	2.52E-08	3.2035	562973.	0.2020	135828.	0.00
13.6000	-2.87E-07	0.1139	-0.2160	7.40E-08	2.2666	562973.	0.1947	135828.	0.00
13.8000	-2.68E-07	0.07462	-0.1783	1.07E-07	1.4846	562973.	0.1819	135828.	0.00
14.0000	-2.44E-07	0.04259	-0.1436	1.28E-07	0.8473	562973.	0.1655	135828.	0.00
14.2000	-2.17E-07	0.01718	-0.1124	1.39E-07	0.3418	562973.	0.1470	135828.	0.00
14.4000	-1.88E-07	-0.00235	-0.08488	1.42E-07	0.04679	562973.	0.1278	135828.	0.00
14.6000	-1.60E-07	-0.01677	-0.06124	1.38E-07	0.3337	562973.	0.1086	135828.	0.00
14.8000	-1.33E-07	-0.02685	-0.04136	1.30E-07	0.5341	562973.	0.09022	135828.	0.00
15.0000	-1.08E-07	-0.03332	-0.02502	1.20E-07	0.6628	562973.	0.07315	135828.	0.00
15.2000	-8.50E-08	-0.03686	-0.01194	1.07E-07	0.7333	562973.	0.05769	135828.	0.00
15.4000	-6.48E-08	-0.03809	-0.00177	9.40E-08	0.7578	562973.	0.04401	135828.	0.00
15.6000	-4.74E-08	-0.03756	0.00585	8.05E-08	0.7473	562973.	0.03217	135828.	0.00
15.8000	-3.26E-08	-0.03575	0.01128	6.75E-08	0.7112	562973.	0.02214	135828.	0.00
16.0000	-2.04E-08	-0.03305	0.01488	5.53E-08	0.6576	562973.	0.01383	135828.	0.00
16.2000	-1.05E-08	-0.02980	0.01697	4.41E-08	0.5928	562973.	0.00712	135828.	0.00
16.4000	-2.73E-09	-0.02626	0.01787	3.42E-08	0.5225	562973.	0.00185	135828.	0.00
16.6000	3.17E-09	-0.02265	0.01784	2.55E-08	0.4506	562973.	-0.00215	135828.	0.00
16.8000	7.46E-09	-0.01913	0.01712	1.80E-08	0.3805	562973.	-0.00507	135828.	0.00
17.0000	1.04E-08	-0.01580	0.01591	1.18E-08	0.3144	562973.	-0.00705	135828.	0.00
17.2000	1.22E-08	-0.01276	0.01437	6.77E-09	0.2539	562973.	-0.00828	135828.	0.00
17.4000	1.31E-08	-0.01005	0.01266	2.71E-09	0.2000	562973.	-0.00889	135828.	0.00
17.6000	1.33E-08	-0.00770	0.01087	-4.41E-10	0.1532	562973.	-0.00902	135828.	0.00
17.8000	1.29E-08	-0.00571	0.00909	-2.82E-09	0.1135	562973.	-0.00877	135828.	0.00
18.0000	1.22E-08	-0.00406	0.00738	-4.56E-09	0.08085	562973.	-0.00825	135828.	0.00
18.2000	1.11E-08	-0.00275	0.00581	-5.77E-09	0.05475	562973.	-0.00753	135828.	0.00
18.4000	9.84E-09	-0.00174	0.00438	-6.57E-09	0.03465	562973.	-0.00669	135828.	0.00
18.6000	8.47E-09	-9.99E-04	0.00314	-7.05E-09	0.01987	562973.	-0.00575	135828.	0.00
18.8000	7.02E-09	-4.86E-04	0.00209	-7.32E-09	0.00966	562973.	-0.00477	135828.	0.00
19.0000	5.54E-09	-1.63E-04	0.00124	-7.43E-09	0.00325	562973.	-0.00376	135828.	0.00
19.2000	4.05E-09	8.52E-06	5.84E-04	-7.46E-09	1.70E-04	562973.	-0.00275	135828.	0.00
19.4000	2.56E-09	7.03E-05	1.35E-04	-7.45E-09	0.00140	562973.	-0.00174	135828.	0.00
19.6000	1.07E-09	6.25E-05	-1.11E-04	-7.42E-09	0.00124	562973.	-7.28E-04	135828.	0.00
19.8000	-4.11E-10	2.57E-05	-1.56E-04	-7.41E-09	5.11E-04	562973.	2.79E-04	135828.	0.00
20.0000	-1.89E-09	0.00	0.00	-7.40E-09	0.00	562973.	0.00128	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 6:

Pile-head deflection = 0.00321988 meters
Computed slope at pile head = -0.00140431 radians
Maximum bending moment = 242.78766940 kN-m
Maximum shear force = 200.00000000 kN
Depth of maximum bending moment = 2.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 13
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 7

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 450.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.01333	-3.17E-10	450.0000	-0.00492	6.31E-09	562973.	0.00	0.00	0.00
0.2000	0.01234	90.0000	445.8060	-0.00491	1790.	562973.	-41.9401	679.6587	0.00
0.4000	0.01136	178.3224	434.0003	-0.00486	3548.	562973.	-76.1170	1340.	0.00
0.6000	0.01040	263.6001	415.1111	-0.00478	5244.	562973.	-112.7747	2169.	0.00
0.8000	0.00945	344.3668	389.3176	-0.00467	6851.	562973.	-145.1604	3072.	0.00
1.0000	0.00853	419.3272	357.4471	-0.00454	8342.	562973.	-173.5447	4069.	0.00
1.2000	0.00764	487.3457	320.2885	-0.00437	9695.	562973.	-198.0408	5186.	0.00
1.4000	0.00678	547.4426	278.6170	-0.00419	10891.	562973.	-218.6742	6451.	0.00
1.6000	0.00596	598.7925	233.2087	-0.00399	11913.	562973.	-235.4089	7898.	0.00
1.8000	0.00518	640.7261	184.8530	-0.00377	12747.	562973.	-248.1487	9572.	0.00
2.0000	0.00445	672.7337	134.3672	-0.00353	13384.	562973.	-256.7089	11527.	0.00
2.2000	0.00377	694.4729	82.6267	-0.00329	13816.	562973.	-260.6957	13825.	0.00
2.4000	0.00314	705.7844	30.7832	-0.00304	14041.	562973.	-257.7396	16428.	0.00

2.6000	0.00255	706.7862	-18.7643	-0.00279	14061.	562973.	-237.7355	18614.	0.00
2.8000	0.00202	698.2787	-63.6853	-0.00254	13892.	562973.	-211.4742	20925.	0.00
3.0000	0.00154	681.3121	-103.2778	-0.00230	13554.	562973.	-184.4511	23991.	0.00
3.2000	0.00110	656.9675	-137.3416	-0.00206	13070.	562973.	-156.1864	28333.	0.00
3.4000	7.14E-04	626.3755	-165.5296	-0.00183	12461.	562973.	-125.6938	35206.	0.00
3.6000	3.70E-04	590.7557	-187.1479	-0.00161	11753.	562973.	-90.4898	48904.	0.00
3.8000	6.81E-05	551.5163	-199.7083	-0.00141	10972.	562973.	-35.1139	103150.	0.00
4.0000	-1.95E-04	510.8724	-196.6560	-0.00122	10163.	562973.	65.6371	67416.	0.00
4.2000	-4.21E-04	472.8539	-180.4383	-0.00105	9407.	562973.	96.5397	45837.	0.00
4.4000	-6.14E-04	438.6971	-168.9271	-8.87E-04	8728.	562973.	18.5728	6048.	0.00
4.6000	-7.76E-04	405.2831	-164.9956	-7.37E-04	8063.	562973.	20.7417	5347.	0.00
4.8000	-9.09E-04	372.6988	-160.6650	-5.99E-04	7415.	562973.	22.5641	4966.	0.00
5.0000	-0.00102	341.0171	-155.9948	-4.72E-04	6784.	562973.	24.1387	4755.	0.00
5.2000	-0.00110	310.3009	-151.0290	-3.56E-04	6173.	562973.	25.5186	4650.	0.00
5.4000	-0.00116	280.6055	-145.8036	-2.51E-04	5582.	562973.	26.7352	4619.	0.00
5.6000	-0.00120	251.9795	-140.3493	-1.56E-04	5013.	562973.	27.8085	4643.	0.00
5.8000	-0.00122	224.4658	-134.6932	-7.19E-05	4466.	562973.	28.7522	4712.	0.00
6.0000	-0.00123	198.1022	-128.8604	3.20E-06	3941.	562973.	29.5755	4822.	0.00
6.2000	-0.00122	172.9216	-122.8744	6.91E-05	3440.	562973.	30.2852	4969.	0.00
6.4000	-0.00120	148.9524	-116.7572	1.26E-04	2963.	562973.	30.8862	5152.	0.00
6.6000	-0.00117	126.2187	-110.5304	1.75E-04	2511.	562973.	31.3824	5371.	0.00
6.8000	-0.00113	104.7403	-104.2144	2.16E-04	2084.	562973.	31.7766	5629.	0.00
7.0000	-0.00108	84.5329	-97.2544	2.50E-04	1682.	562973.	37.8239	6991.	0.00
7.2000	-0.00103	65.8385	-89.7523	2.77E-04	1310.	562973.	37.1965	7229.	0.00
7.4000	-9.71E-04	48.6320	-82.3838	2.97E-04	967.5030	562973.	36.4886	7512.	0.00
7.6000	-9.10E-04	32.8850	-75.1643	3.11E-04	654.2264	562973.	35.7070	7845.	0.00
7.8000	-8.47E-04	18.5663	-68.1078	3.20E-04	369.3646	562973.	34.8576	8232.	0.00
8.0000	-7.82E-04	5.6419	-61.2275	3.25E-04	112.2415	562973.	33.9455	8680.	0.00
8.2000	-7.17E-04	-5.9247	-54.5354	3.25E-04	117.8686	562973.	32.9755	9198.	0.00
8.4000	-6.52E-04	-16.1723	-48.0427	3.21E-04	321.7376	562973.	31.9517	9797.	0.00
8.6000	-5.89E-04	-25.1418	-41.7597	3.13E-04	500.1802	562973.	30.8778	10491.	0.00
8.8000	-5.27E-04	-32.8762	-35.6963	3.03E-04	654.0511	562973.	29.7571	11296.	0.00
9.0000	-4.67E-04	-39.4203	-29.8613	2.90E-04	784.2420	562973.	28.5928	12234.	0.00
9.2000	-4.11E-04	-44.8207	-24.2633	2.75E-04	891.6795	562973.	27.3873	13335.	0.00
9.4000	-3.57E-04	-49.1256	-18.9102	2.59E-04	977.3229	562973.	26.1432	14635.	0.00
9.6000	-3.07E-04	-52.3848	-13.8096	2.41E-04	1042.	562973.	24.8623	16182.	0.00
9.8000	-2.61E-04	-54.6495	-8.9688	2.22E-04	1087.	562973.	23.5463	18041.	0.00
10.0000	-2.19E-04	-55.9723	-4.3945	2.02E-04	1114.	562973.	22.1961	20303.	0.00
10.2000	-1.80E-04	-56.4073	-0.09369	1.82E-04	1122.	562973.	20.8123	23094.	0.00
10.4000	-1.46E-04	-56.0098	3.9270	1.62E-04	1114.	562973.	19.3942	26596.	0.00
10.6000	-1.15E-04	-54.8365	7.6604	1.42E-04	1091.	562973.	17.9399	31084.	0.00
10.8000	-8.89E-05	-52.9456	11.0989	1.23E-04	1053.	562973.	16.4454	36994.	0.00
11.0000	-6.61E-05	-50.3969	14.2337	1.05E-04	1003.	562973.	14.9026	45058.	0.00
11.2000	-4.70E-05	-47.2521	17.0536	8.75E-05	940.0514	562973.	13.2965	56616.	0.00

11.4000	-3.12E-05	-43.5755	19.5430	7.14E-05	866.9067	562973.	11.5973	74459.	0.00
11.6000	-1.84E-05	-39.4349	21.6766	5.66E-05	784.5332	562973.	9.7388	105705.	0.00
11.8000	-8.50E-06	-34.9048	23.4039	4.34E-05	694.4098	562973.	7.5341	177194.	0.00
12.0000	-1.06E-06	-30.0734	24.6138	3.19E-05	598.2909	562973.	4.5649	860170.	0.00
12.2000	4.24E-06	-25.0593	24.2298	2.21E-05	498.5394	562973.	-8.4047	396047.	0.00
12.4000	7.77E-06	-20.3815	22.3593	1.40E-05	405.4762	562973.	-10.3002	265146.	0.00
12.6000	9.85E-06	-16.1156	20.2141	7.52E-06	320.6095	562973.	-11.1518	226513.	0.00
12.8000	1.08E-05	-12.2958	17.9494	2.48E-06	244.6172	562973.	-11.4951	213298.	0.00
13.0000	1.08E-05	-8.9358	15.6482	-1.30E-06	177.7724	562973.	-11.5169	212550.	0.00
13.2000	1.03E-05	-6.0365	13.3656	-3.95E-06	120.0925	562973.	-11.3098	220457.	0.00
13.4000	9.25E-06	-3.5896	11.1417	-5.66E-06	71.4126	562973.	-10.9292	236182.	0.00
13.6000	7.99E-06	-1.5798	9.0076	-6.58E-06	31.4298	562973.	-10.4117	260473.	0.00
13.8000	6.62E-06	0.01345	6.9881	-6.86E-06	0.2676	562973.	-9.7836	295500.	0.00
14.0000	5.25E-06	1.2154	5.1032	-6.64E-06	24.1794	562973.	-9.0650	345337.	0.00
14.2000	3.96E-06	2.0547	3.3695	-6.06E-06	40.8776	562973.	-8.2718	417290.	0.00
14.4000	2.83E-06	2.5632	1.8007	-5.24E-06	50.9934	562973.	-7.4166	525052.	0.00
14.6000	1.87E-06	2.7750	0.4081	-4.29E-06	55.2072	562973.	-6.5090	696972.	0.00
14.8000	1.11E-06	2.7265	-0.7982	-3.32E-06	54.2413	562973.	-5.5542	1002874.	0.00
15.0000	5.41E-07	2.4557	-1.8090	-2.40E-06	48.8556	562973.	-4.5544	1682974.	0.00
15.2000	1.49E-07	2.0029	-2.2746	-1.60E-06	39.8455	562973.	-0.1014	135828.	0.00
15.4000	-1.00E-07	1.5459	-2.2779	-9.74E-07	30.7548	562973.	0.06813	135828.	0.00
15.6000	-2.40E-07	1.0917	-2.2548	-5.05E-07	21.7183	562973.	0.1631	135828.	0.00
15.8000	-3.02E-07	0.6440	-1.9185	-1.97E-07	12.8116	562973.	3.2002	2116984.	0.00
16.0000	-3.19E-07	0.3243	-1.2620	-2.47E-08	6.4515	562973.	3.3646	2110793.	0.00
16.2000	-3.12E-07	0.1392	-0.5740	5.76E-08	2.7689	562973.	3.5158	2252058.	0.00
16.4000	-2.96E-07	0.09470	-0.2023	9.91E-08	1.8840	562973.	0.2009	135828.	0.00
16.6000	-2.73E-07	0.05826	-0.1637	1.26E-07	1.1590	562973.	0.1851	135828.	0.00
16.8000	-2.45E-07	0.02922	-0.1285	1.42E-07	0.5814	562973.	0.1666	135828.	0.00
17.0000	-2.16E-07	0.00685	-0.09721	1.48E-07	0.1363	562973.	0.1466	135828.	0.00
17.2000	-1.86E-07	-0.00966	-0.06993	1.48E-07	0.1922	562973.	0.1263	135828.	0.00
17.4000	-1.57E-07	-0.02112	-0.04665	1.42E-07	0.4202	562973.	0.1064	135828.	0.00
17.6000	-1.29E-07	-0.02832	-0.02725	1.34E-07	0.5635	562973.	0.08763	135828.	0.00
17.8000	-1.03E-07	-0.03202	-0.01147	1.23E-07	0.6370	562973.	0.07018	135828.	0.00
18.0000	-7.99E-08	-0.03291	9.81E-04	1.11E-07	0.6547	562973.	0.05428	135828.	0.00
18.2000	-5.88E-08	-0.03163	0.01040	9.98E-08	0.6292	562973.	0.03996	135828.	0.00
18.4000	-4.00E-08	-0.02875	0.01712	8.91E-08	0.5719	562973.	0.02717	135828.	0.00
18.6000	-2.32E-08	-0.02478	0.02141	7.96E-08	0.4930	562973.	0.01577	135828.	0.00
18.8000	-8.19E-09	-0.02018	0.02354	7.16E-08	0.4015	562973.	0.00556	135828.	0.00
19.0000	5.41E-09	-0.01536	0.02373	6.52E-08	0.3057	562973.	-0.00367	135828.	0.00
19.2000	1.79E-08	-0.01069	0.02215	6.06E-08	0.2127	562973.	-0.01217	135828.	0.00
19.4000	2.97E-08	-0.00650	0.01892	5.76E-08	0.1294	562973.	-0.02014	135828.	0.00
19.6000	4.09E-08	-0.00312	0.01412	5.59E-08	0.06215	562973.	-0.02780	135828.	0.00
19.8000	5.20E-08	-8.56E-04	0.00781	5.52E-08	0.01702	562973.	-0.03532	135828.	0.00
20.0000	6.30E-08	0.00	0.00	5.50E-08	0.00	562973.	-0.04279	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 7:

Pile-head deflection = 0.01332583 meters
Computed slope at pile head = -0.00492162 radians
Maximum bending moment = 706.78623128 kN-m
Maximum shear force = 450.00000000 kN
Depth of maximum bending moment = 2.60000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 23
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 8

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 500.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.01665	-4.88E-11	500.0000	-0.00595	9.71E-10	562973.	0.00	0.00	0.00
0.2000	0.01546	100.0000	496.4142	-0.00594	1989.	562973.	-35.8582	463.8645	0.00
0.4000	0.01428	198.5657	486.0833	-0.00588	3950.	562973.	-67.4502	944.8917	0.00
0.6000	0.01311	294.4333	468.8653	-0.00580	5858.	562973.	-104.7305	1598.	0.00
0.8000	0.01196	386.1118	444.1394	-0.00568	7681.	562973.	-142.5278	2384.	0.00
1.0000	0.01084	472.0891	412.2925	-0.00552	9392.	562973.	-175.9421	3247.	0.00
1.2000	0.00975	551.0288	374.1827	-0.00534	10962.	562973.	-205.1549	4209.	0.00
1.4000	0.00870	621.7622	330.6436	-0.00513	12370.	562973.	-230.2369	5293.	0.00
1.6000	0.00770	683.2862	282.5010	-0.00490	13594.	562973.	-251.1883	6528.	0.00
1.8000	0.00674	734.7626	230.5869	-0.00465	14618.	562973.	-267.9530	7951.	0.00
2.0000	0.00584	775.5210	175.7501	-0.00438	15428.	562973.	-280.4151	9610.	0.00
2.2000	0.00499	805.0627	118.8713	-0.00410	16016.	562973.	-288.3728	11564.	0.00

2.4000	0.00420	823.0695	60.8944	-0.00381	16374.	562973.	-291.3961	13889.	0.00
2.6000	0.00346	829.4204	4.1235	-0.00352	16501.	562973.	-276.3132	15958.	0.00
2.8000	0.00279	824.7189	-48.3492	-0.00322	16407.	562973.	-248.4139	17814.	0.00
3.0000	0.00217	810.0807	-95.1205	-0.00293	16116.	562973.	-219.2990	20179.	0.00
3.2000	0.00162	786.6706	-135.9576	-0.00265	15650.	562973.	-189.0718	23406.	0.00
3.4000	0.00111	755.6977	-170.5622	-0.00238	15034.	562973.	-156.9742	28192.	0.00
3.6000	6.65E-04	718.4458	-198.3929	-0.00211	14293.	562973.	-121.3330	36474.	0.00
3.8000	2.68E-04	676.3405	-218.2281	-0.00187	13455.	562973.	-77.0191	57464.	0.00
4.0000	-8.11E-05	631.1545	-221.6938	-0.00163	12556.	562973.	42.3622	104416.	0.00
4.2000	-3.85E-04	587.6630	-208.2224	-0.00142	11691.	562973.	92.3517	47913.	0.00
4.4000	-6.48E-04	547.8655	-197.0964	-0.00122	10899.	562973.	18.9087	5835.	0.00
4.6000	-8.72E-04	508.8244	-193.0492	-0.00103	10123.	562973.	21.5630	4947.	0.00
4.8000	-0.00106	470.6458	-188.5183	-8.54E-04	9363.	562973.	23.7462	4483.	0.00
5.0000	-0.00121	433.4171	-183.5821	-6.93E-04	8623.	562973.	25.6163	4222.	0.00
5.2000	-0.00134	397.2130	-178.2953	-5.46E-04	7902.	562973.	27.2517	4078.	0.00
5.4000	-0.00143	362.0990	-172.7004	-4.11E-04	7204.	562973.	28.6971	4009.	0.00
5.6000	-0.00150	328.1328	-166.8327	-2.88E-04	6528.	562973.	29.9801	3994.	0.00
5.8000	-0.00155	295.3659	-160.7228	-1.78E-04	5876.	562973.	31.1187	4023.	0.00
6.0000	-0.00157	263.8437	-154.3984	-7.83E-05	5249.	562973.	32.1256	4087.	0.00
6.2000	-0.00158	233.6066	-147.8849	1.00E-05	4647.	562973.	33.0093	4183.	0.00
6.4000	-0.00157	204.6898	-141.2063	8.79E-05	4072.	562973.	33.7764	4308.	0.00
6.6000	-0.00154	177.1240	-134.3855	1.56E-04	3524.	562973.	34.4318	4462.	0.00
6.8000	-0.00151	150.9356	-127.4444	2.14E-04	3003.	562973.	34.9789	4646.	0.00
7.0000	-0.00146	126.1463	-119.7691	2.63E-04	2510.	562973.	41.7744	5732.	0.00
7.2000	-0.00140	103.0279	-111.4695	3.04E-04	2050.	562973.	41.2215	5886.	0.00
7.4000	-0.00134	81.5585	-103.2894	3.37E-04	1623.	562973.	40.5794	6074.	0.00
7.6000	-0.00127	61.7122	-95.2459	3.62E-04	1228.	562973.	39.8555	6297.	0.00
7.8000	-0.00119	43.4601	-87.3547	3.81E-04	864.6112	562973.	39.0565	6557.	0.00
8.0000	-0.00111	26.7703	-79.6302	3.93E-04	532.5779	562973.	38.1882	6859.	0.00
8.2000	-0.00103	11.6080	-72.0859	4.00E-04	230.9338	562973.	37.2556	7206.	0.00
8.4000	-9.54E-04	-2.0641	-64.7340	4.02E-04	41.0632	562973.	36.2633	7606.	0.00
8.6000	-8.73E-04	-14.2856	-57.5861	3.99E-04	284.2028	562973.	35.2156	8066.	0.00
8.8000	-7.94E-04	-25.0985	-50.6529	3.92E-04	499.3188	562973.	34.1160	8594.	0.00
9.0000	-7.16E-04	-34.5468	-43.9445	3.81E-04	687.2861	562973.	32.9679	9203.	0.00
9.2000	-6.41E-04	-42.6763	-37.4703	3.68E-04	849.0183	562973.	31.7744	9907.	0.00
9.4000	-5.69E-04	-49.5349	-31.2391	3.51E-04	985.4653	562973.	30.5380	10726.	0.00
9.6000	-5.01E-04	-55.1719	-25.2591	3.33E-04	1098.	562973.	29.2612	11683.	0.00
9.8000	-4.36E-04	-59.6385	-19.5384	3.12E-04	1186.	562973.	27.9459	12808.	0.00
10.0000	-3.76E-04	-62.9873	-14.0845	2.90E-04	1253.	562973.	26.5939	14144.	0.00
10.2000	-3.20E-04	-65.2723	-8.9044	2.68E-04	1299.	562973.	25.2062	15744.	0.00
10.4000	-2.69E-04	-66.5491	-4.0054	2.44E-04	1324.	562973.	23.7838	17684.	0.00
10.6000	-2.22E-04	-66.8745	0.6056	2.21E-04	1330.	562973.	22.3264	20069.	0.00
10.8000	-1.81E-04	-66.3069	4.9215	1.97E-04	1319.	562973.	20.8330	23050.	0.00
11.0000	-1.44E-04	-64.9059	8.9349	1.74E-04	1291.	562973.	19.3011	26856.	0.00

11.2000	-1.11E-04	-62.7329	12.6376	1.51E-04	1248.	562973.	17.7257	31844.	0.00
11.4000	-8.34E-05	-59.8509	16.0199	1.29E-04	1191.	562973.	16.0977	38615.	0.00
11.6000	-5.97E-05	-56.3249	19.0697	1.09E-04	1121.	562973.	14.4004	48264.	0.00
11.8000	-4.00E-05	-52.2230	21.7699	8.92E-05	1039.	562973.	12.6015	63048.	0.00
12.0000	-2.40E-05	-47.6170	24.3004	7.15E-05	947.3093	562973.	12.7029	105923.	0.00
12.2000	-1.14E-05	-42.5028	26.7448	5.55E-05	845.5669	562973.	11.7415	206365.	0.00
12.4000	-1.79E-06	-36.9190	28.5577	4.14E-05	734.4809	562973.	6.3873	712238.	0.00
12.6000	5.17E-06	-31.0798	28.2976	2.93E-05	618.3120	562973.	-8.9879	347755.	0.00
12.8000	9.92E-06	-25.6000	26.2803	1.92E-05	509.2954	562973.	-11.1858	225440.	0.00
13.0000	1.29E-05	-20.5676	23.9418	1.10E-05	409.1802	562973.	-12.1990	189735.	0.00
13.2000	1.43E-05	-16.0233	21.4569	4.52E-06	318.7726	562973.	-12.6499	176512.	0.00
13.4000	1.47E-05	-11.9849	18.9171	-4.51E-07	238.4315	562973.	-12.7483	173815.	0.00
13.6000	1.42E-05	-8.4564	16.3826	-4.08E-06	168.2352	562973.	-12.5971	178013.	0.00
13.8000	1.30E-05	-5.4319	13.8972	-6.55E-06	108.0633	562973.	-12.2565	188037.	0.00
14.0000	1.15E-05	-2.8975	11.4949	-8.03E-06	57.6448	562973.	-11.7661	204033.	0.00
14.2000	9.83E-06	-0.8339	9.2029	-8.69E-06	16.5895	562973.	-11.1542	227057.	0.00
14.4000	8.06E-06	0.7836	7.0433	-8.70E-06	15.5896	562973.	-10.4418	259190.	0.00
14.6000	6.35E-06	1.9834	5.0346	-8.21E-06	39.4593	562973.	-9.6456	304029.	0.00
14.8000	4.77E-06	2.7974	3.1921	-7.36E-06	55.6533	562973.	-8.7789	367779.	0.00
15.0000	3.40E-06	3.2603	1.5289	-6.28E-06	64.8613	562973.	-7.8529	461719.	0.00
15.2000	2.26E-06	3.4090	0.05592	-5.10E-06	67.8201	562973.	-6.8771	608369.	0.00
15.4000	1.36E-06	3.2826	-1.2179	-3.91E-06	65.3062	562973.	-5.8612	860486.	0.00
15.6000	6.97E-07	2.9218	-2.2867	-2.81E-06	58.1282	562973.	-4.8271	1385132.	0.00
15.8000	2.39E-07	2.3680	-2.7857	-1.87E-06	47.1089	562973.	-0.1625	135828.	0.00
16.0000	-5.02E-08	1.8076	-2.7985	-1.13E-06	35.9604	562973.	0.03409	135828.	0.00
16.2000	-2.11E-07	1.2485	-2.5616	-5.83E-07	24.8389	562973.	2.3357	2211564.	0.00
16.4000	-2.84E-07	0.7829	-2.0592	-2.23E-07	15.5761	562973.	2.6878	1895811.	0.00
16.6000	-3.00E-07	0.4249	-1.5130	-8.01E-09	8.4522	562973.	2.7749	1848413.	0.00
16.8000	-2.87E-07	0.1778	-0.9579	9.90E-08	3.5364	562973.	2.7760	1936150.	0.00
17.0000	-2.61E-07	0.04170	-0.4021	1.38E-07	0.8297	562973.	2.7816	2134537.	0.00
17.2000	-2.32E-07	0.01691	-0.1082	1.48E-07	0.3365	562973.	0.1573	135828.	0.00
17.4000	-2.01E-07	-0.00159	-0.07883	1.51E-07	0.03157	562973.	0.1367	135828.	0.00
17.6000	-1.71E-07	-0.01462	-0.05355	1.48E-07	0.2909	562973.	0.1162	135828.	0.00
17.8000	-1.42E-07	-0.02301	-0.03229	1.42E-07	0.4577	562973.	0.09640	135828.	0.00
18.0000	-1.14E-07	-0.02754	-0.01487	1.33E-07	0.5478	562973.	0.07773	135828.	0.00
18.2000	-8.89E-08	-0.02896	-0.00106	1.23E-07	0.5760	562973.	0.06038	135828.	0.00
18.4000	-6.54E-08	-0.02796	0.00942	1.12E-07	0.5563	562973.	0.04443	135828.	0.00
18.6000	-4.39E-08	-0.02519	0.01684	1.03E-07	0.5011	562973.	0.02983	135828.	0.00
18.8000	-2.42E-08	-0.02122	0.02147	9.48E-08	0.4222	562973.	0.01644	135828.	0.00
19.0000	-6.00E-09	-0.01660	0.02352	8.81E-08	0.3303	562973.	0.00408	135828.	0.00
19.2000	1.10E-08	-0.01182	0.02318	8.30E-08	0.2351	562973.	-0.00748	135828.	0.00
19.4000	2.72E-08	-0.00733	0.02058	7.96E-08	0.1458	562973.	-0.01847	135828.	0.00
19.6000	4.29E-08	-0.00358	0.01583	7.77E-08	0.07127	562973.	-0.02911	135828.	0.00
19.8000	5.83E-08	-1.00E-03	0.00896	7.69E-08	0.01989	562973.	-0.03958	135828.	0.00

20.0000	7.36E-08	0.00	0.00	7.67E-08	0.00	562973.	-0.04999	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 8:

Pile-head deflection = 0.01665160 meters
Computed slope at pile head = -0.00595476 radians
Maximum bending moment = 829.42043304 kN-m
Maximum shear force = 500.00000000 kN
Depth of maximum bending moment = 2.60000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 24
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 9

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 600.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.02571	-7.32E-10	600.0000	-0.00858	1.46E-08	562973.	0.00	0.00	0.00
0.2000	0.02399	120.0000	598.0776	-0.00856	2387.	562973.	-19.2236	160.2581	0.00
0.4000	0.02228	239.2311	591.3891	-0.00850	4759.	562973.	-47.6618	427.7828	0.00
0.6000	0.02059	356.5556	578.4730	-0.00839	7093.	562973.	-81.4993	791.5422	0.00
0.8000	0.01893	470.6202	558.3822	-0.00824	9363.	562973.	-119.4084	1262.	0.00
1.0000	0.01730	579.9085	530.4125	-0.00806	11537.	562973.	-160.2881	1854.	0.00
1.2000	0.01570	682.7853	494.2803	-0.00783	13584.	562973.	-201.0340	2560.	0.00
1.4000	0.01416	777.6206	450.4512	-0.00757	15470.	562973.	-237.2577	3351.	0.00
1.6000	0.01268	862.9657	399.8404	-0.00728	17168.	562973.	-268.8502	4242.	0.00
1.8000	0.01125	937.5568	343.3730	-0.00696	18652.	562973.	-295.8234	5259.	0.00
2.0000	0.00989	1000.	281.9782	-0.00662	19901.	562973.	-318.1249	6433.	0.00

2.2000	0.00860	1050.	216.6021	-0.00625	20896.	562973.	-335.6360	7803.	0.00
2.4000	0.00739	1087.	148.2387	-0.00587	21624.	562973.	-347.9974	9418.	0.00
2.6000	0.00625	1110.	79.4536	-0.00548	22076.	562973.	-339.8543	10869.	0.00
2.8000	0.00520	1119.	13.3798	-0.00509	22257.	562973.	-320.8839	12350.	0.00
3.0000	0.00422	1115.	-48.5570	-0.00469	22182.	562973.	-298.4834	14151.	0.00
3.2000	0.00332	1099.	-105.5091	-0.00430	21870.	562973.	-271.0375	16327.	0.00
3.4000	0.00250	1073.	-156.1307	-0.00391	21343.	562973.	-235.1790	18816.	0.00
3.6000	0.00176	1037.	-199.3574	-0.00354	20628.	562973.	-197.0876	22453.	0.00
3.8000	0.00109	993.0489	-234.5606	-0.00318	19756.	562973.	-154.9448	28560.	0.00
4.0000	4.85E-04	943.0379	-260.4153	-0.00283	18761.	562973.	-103.6021	42714.	0.00
4.2000	-4.79E-05	888.8828	-268.0478	-0.00251	17684.	562973.	27.2772	114008.	0.00
4.4000	-5.18E-04	835.8188	-263.5657	-0.00220	16628.	562973.	17.5441	6778.	0.00
4.6000	-9.28E-04	783.4565	-259.6095	-0.00191	15586.	562973.	22.0176	4745.	0.00
4.8000	-0.00128	731.9750	-254.8767	-0.00164	14562.	562973.	25.3110	3946.	0.00
5.0000	-0.00159	681.5058	-249.5450	-0.00139	13558.	562973.	28.0055	3533.	0.00
5.2000	-0.00184	632.1570	-243.7130	-0.00116	12576.	562973.	30.3142	3295.	0.00
5.4000	-0.00205	584.0206	-237.4476	-9.43E-04	11619.	562973.	32.3405	3156.	0.00
5.6000	-0.00222	537.1779	-230.7993	-7.44E-04	10687.	562973.	34.1425	3080.	0.00
5.8000	-0.00235	491.7009	-223.8095	-5.61E-04	9782.	562973.	35.7556	3047.	0.00
6.0000	-0.00244	447.6541	-216.5136	-3.94E-04	8906.	562973.	37.2033	3047.	0.00
6.2000	-0.00250	405.0955	-208.9431	-2.43E-04	8059.	562973.	38.5014	3074.	0.00
6.4000	-0.00254	364.0769	-201.1268	-1.06E-04	7243.	562973.	39.6611	3124.	0.00
6.6000	-0.00255	324.6448	-193.0916	1.60E-05	6459.	562973.	40.6909	3195.	0.00
6.8000	-0.00253	286.8402	-184.8629	1.25E-04	5707.	562973.	41.5968	3285.	0.00
7.0000	-0.00250	250.6996	-175.7046	2.20E-04	4988.	562973.	49.9859	4003.	0.00
7.2000	-0.00244	216.5584	-165.7430	3.03E-04	4308.	562973.	49.6304	4061.	0.00
7.4000	-0.00238	184.4024	-155.8636	3.74E-04	3669.	562973.	49.1637	4138.	0.00
7.6000	-0.00229	154.2130	-146.0876	4.34E-04	3068.	562973.	48.5958	4235.	0.00
7.8000	-0.00220	125.9674	-136.4346	4.84E-04	2506.	562973.	47.9348	4353.	0.00
8.0000	-0.00210	99.6392	-126.9223	5.24E-04	1982.	562973.	47.1882	4492.	0.00
8.2000	-0.00199	75.1985	-117.5672	5.55E-04	1496.	562973.	46.3624	4653.	0.00
8.4000	-0.00188	52.6123	-108.3846	5.78E-04	1047.	562973.	45.4630	4839.	0.00
8.6000	-0.00176	31.8446	-99.3888	5.93E-04	633.5284	562973.	44.4951	5052.	0.00
8.8000	-0.00164	12.8567	-90.5930	6.01E-04	255.7768	562973.	43.4632	5295.	0.00
9.0000	-0.00152	-4.3926	-82.0095	6.02E-04	87.3878	562973.	42.3713	5571.	0.00
9.2000	-0.00140	-19.9471	-73.6501	5.98E-04	396.8344	562973.	41.2231	5886.	0.00
9.4000	-0.00128	-33.8526	-65.5256	5.89E-04	673.4767	562973.	40.0219	6244.	0.00
9.6000	-0.00117	-46.1573	-57.6464	5.74E-04	918.2706	562973.	38.7705	6654.	0.00
9.8000	-0.00105	-56.9112	-50.0221	5.56E-04	1132.	562973.	37.4717	7123.	0.00
10.0000	-9.43E-04	-66.1662	-42.6622	5.34E-04	1316.	562973.	36.1278	7663.	0.00
10.2000	-8.38E-04	-73.9760	-35.5753	5.09E-04	1472.	562973.	34.7406	8287.	0.00
10.4000	-7.39E-04	-80.3963	-28.7701	4.82E-04	1599.	562973.	33.3120	9013.	0.00
10.6000	-6.46E-04	-85.4841	-22.2545	4.52E-04	1701.	562973.	31.8433	9864.	0.00
10.8000	-5.58E-04	-89.2981	-16.0367	4.21E-04	1777.	562973.	30.3354	10869.	0.00

11.0000	-4.77E-04	-91.8987	-10.1243	3.89E-04	1828.	562973.	28.7886	12069.	0.00
11.2000	-4.03E-04	-93.3478	-4.5251	3.56E-04	1857.	562973.	27.2029	13517.	0.00
11.4000	-3.35E-04	-93.7088	0.7529	3.23E-04	1864.	562973.	25.5771	15290.	0.00
11.6000	-2.73E-04	-93.0467	5.7015	2.90E-04	1851.	562973.	23.9090	17498.	0.00
11.8000	-2.19E-04	-91.4282	10.3118	2.57E-04	1819.	562973.	22.1946	20305.	0.00
12.0000	-1.70E-04	-88.9220	14.9721	2.25E-04	1769.	562973.	24.4079	28642.	0.00
12.2000	-1.29E-04	-85.4394	20.0443	1.94E-04	1700.	562973.	26.3147	40934.	0.00
12.4000	-9.28E-05	-80.9042	25.0361	1.65E-04	1610.	562973.	23.6034	50878.	0.00
12.6000	-6.27E-05	-75.4250	29.4682	1.37E-04	1501.	562973.	20.7177	66040.	0.00
12.8000	-3.81E-05	-69.1170	33.2938	1.11E-04	1375.	562973.	17.5382	92156.	0.00
13.0000	-1.83E-05	-62.1074	36.4214	8.78E-05	1236.	562973.	13.7376	150207.	0.00
13.2000	-2.93E-06	-54.5484	38.5417	6.71E-05	1085.	562973.	7.4653	508898.	0.00
13.4000	8.55E-06	-46.6907	38.2223	4.91E-05	928.8829	562973.	-10.6595	249405.	0.00
13.6000	1.67E-05	-39.2595	35.8234	3.38E-05	781.0426	562973.	-13.3293	159514.	0.00
13.8000	2.21E-05	-32.3614	33.0277	2.11E-05	643.8094	562973.	-14.6277	132453.	0.00
14.0000	2.52E-05	-26.0484	30.0372	1.08E-05	518.2166	562973.	-15.2771	121425.	0.00
14.2000	2.64E-05	-20.3465	26.9574	2.51E-06	404.7810	562973.	-15.5207	117634.	0.00
14.4000	2.62E-05	-15.2654	23.8577	-3.82E-06	303.6963	562973.	-15.4766	118290.	0.00
14.6000	2.49E-05	-10.8034	20.7887	-8.45E-06	214.9275	562973.	-15.2138	122386.	0.00
14.8000	2.28E-05	-6.9500	17.7896	-1.16E-05	138.2654	562973.	-14.7770	129685.	0.00
15.0000	2.02E-05	-3.6876	14.8921	-1.35E-05	73.3626	562973.	-14.1976	140416.	0.00
15.2000	1.74E-05	-0.9931	12.1225	-1.43E-05	19.7578	562973.	-13.4985	155214.	0.00
15.4000	1.45E-05	1.1614	9.5029	-1.43E-05	23.1052	562973.	-12.6973	175206.	0.00
15.6000	1.17E-05	2.8080	7.0525	-1.36E-05	55.8640	562973.	-11.8072	202224.	0.00
15.8000	9.06E-06	3.9824	4.7880	-1.24E-05	79.2270	562973.	-10.8380	239249.	0.00
16.0000	6.73E-06	4.7232	2.7246	-1.08E-05	93.9654	562973.	-9.7960	291304.	0.00
16.2000	4.73E-06	5.0722	0.8767	-9.09E-06	100.9083	562973.	-8.6829	367384.	0.00
16.4000	3.09E-06	5.0739	-0.7409	-7.29E-06	100.9416	562973.	-7.4922	485162.	0.00
16.6000	1.81E-06	4.7759	-2.1100	-5.54E-06	95.0128	562973.	-6.1994	684770.	0.00
16.8000	8.72E-07	4.2299	-3.2026	-3.94E-06	84.1507	562973.	-4.7267	1083945.	0.00
17.0000	2.34E-07	3.4948	-3.9459	-2.57E-06	69.5272	562973.	-2.7063	2311765.	0.00
17.2000	-1.56E-07	2.6515	-4.2060	-1.48E-06	52.7501	562973.	0.1056	135828.	0.00
17.4000	-3.57E-07	1.8124	-3.7967	-6.85E-07	36.0570	562973.	3.9877	2234955.	0.00
17.6000	-4.29E-07	1.1328	-2.9943	-1.61E-07	22.5373	562973.	4.0359	1879978.	0.00
17.8000	-4.21E-07	0.6147	-2.2045	1.49E-07	12.2292	562973.	3.8616	1832806.	0.00
18.0000	-3.70E-07	0.2510	-1.4652	3.03E-07	4.9941	562973.	3.5320	1910578.	0.00
18.2000	-3.00E-07	0.02863	-0.8029	3.53E-07	0.5697	562973.	3.0905	2058645.	0.00
18.4000	-2.29E-07	-0.07014	-0.2362	3.45E-07	1.3954	562973.	2.5770	2253292.	0.00
18.6000	-1.62E-07	-0.06584	0.03254	3.21E-07	1.3098	562973.	0.1102	135828.	0.00
18.8000	-1.00E-07	-0.05713	0.05037	2.99E-07	1.1365	562973.	0.06814	135828.	0.00
19.0000	-4.25E-08	-0.04569	0.06007	2.81E-07	0.9090	562973.	0.02888	135828.	0.00
19.2000	1.20E-08	-0.03310	0.06214	2.67E-07	0.6585	562973.	-0.00817	135828.	0.00
19.4000	6.42E-08	-0.02083	0.05696	2.57E-07	0.4145	562973.	-0.04362	135828.	0.00
19.6000	1.15E-07	-0.01031	0.04479	2.52E-07	0.2052	562973.	-0.07807	135828.	0.00

19.8000	1.65E-07	-0.00292	0.02578	2.49E-07	0.05802	562973.	-0.1120	135828.	0.00
20.0000	2.15E-07	0.00	0.00	2.49E-07	0.00	562973.	-0.1458	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 9:

Pile-head deflection = 0.02570705 meters
Computed slope at pile head = -0.00858094 radians
Maximum bending moment = 1119. kN-m
Maximum shear force = 600.00000000 kN
Depth of maximum bending moment = 2.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 33
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 10

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 700.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.04514	0.00	700.0000	-0.01325	0.00	562973.	0.00	0.00	0.00
0.2000	0.04249	140.0000	699.3683	-0.01323	2785.	562973.	-6.3173	29.7335	0.00
0.4000	0.03985	279.7473	697.5225	-0.01315	5565.	562973.	-12.1405	60.9277	0.00
0.6000	0.03723	419.0090	693.1383	-0.01303	8336.	562973.	-31.7018	170.2958	0.00
0.8000	0.03464	557.0026	683.5492	-0.01286	11081.	562973.	-64.1883	370.5988	0.00
1.0000	0.03209	692.4287	667.0718	-0.01263	13775.	562973.	-100.5861	626.9229	0.00
1.2000	0.02959	823.8313	643.0180	-0.01237	16390.	562973.	-139.9515	946.0483	0.00
1.4000	0.02714	949.6359	610.8745	-0.01205	18892.	562973.	-181.4836	1337.	0.00
1.6000	0.02477	1068.	570.2752	-0.01169	21251.	562973.	-224.5093	1813.	0.00
1.8000	0.02247	1178.	520.9768	-0.01129	23431.	562973.	-268.4750	2390.	0.00

2.0000	0.02025	1277.	462.8349	-0.01086	25397.	562973.	-312.9439	3091.	0.00
2.2000	0.01812	1363.	396.4255	-0.01039	27114.	562973.	-351.1504	3875.	0.00
2.4000	0.01609	1435.	322.9667	-0.00989	28551.	562973.	-383.4378	4765.	0.00
2.6000	0.01417	1492.	245.3134	-0.00937	29684.	562973.	-393.0945	5549.	0.00
2.8000	0.01235	1533.	166.9811	-0.00883	30503.	562973.	-390.2290	6322.	0.00
3.0000	0.01063	1559.	89.6198	-0.00828	31013.	562973.	-383.3841	7211.	0.00
3.2000	0.00903	1569.	14.0281	-0.00773	31217.	562973.	-372.5329	8249.	0.00
3.4000	0.00754	1564.	-58.9852	-0.00717	31124.	562973.	-357.6001	9483.	0.00
3.6000	0.00616	1546.	-128.5858	-0.00662	30747.	562973.	-338.4054	10982.	0.00
3.8000	0.00489	1513.	-193.8801	-0.00608	30101.	562973.	-314.5380	12854.	0.00
4.0000	0.00373	1468.	-253.8241	-0.00555	29204.	562973.	-284.9016	15266.	0.00
4.2000	0.00268	1412.	-306.6440	-0.00504	28081.	562973.	-243.2978	18189.	0.00
4.4000	0.00172	1345.	-333.5910	-0.00455	26764.	562973.	-26.1719	3046.	0.00
4.6000	8.57E-04	1278.	-338.3523	-0.00408	25426.	562973.	-21.4413	5004.	0.00
4.8000	8.64E-05	1210.	-341.5267	-0.00364	24072.	562973.	-10.3022	23848.	0.00
5.0000	-5.98E-04	1141.	-340.5333	-0.00322	22709.	562973.	20.2352	6766.	0.00
5.2000	-0.00120	1074.	-335.8797	-0.00283	21362.	562973.	26.3009	4377.	0.00
5.4000	-0.00173	1007.	-330.1938	-0.00246	20036.	562973.	30.5583	3535.	0.00
5.6000	-0.00218	941.6798	-323.7406	-0.00211	18734.	562973.	33.9737	3110.	0.00
5.8000	-0.00257	877.6112	-316.6563	-0.00179	17460.	562973.	36.8697	2866.	0.00
6.0000	-0.00290	815.0173	-309.0296	-0.00149	16214.	562973.	39.3968	2717.	0.00
6.2000	-0.00317	753.9993	-300.9261	-0.00121	15000.	562973.	41.6378	2629.	0.00
6.4000	-0.00338	694.6468	-292.3981	-9.51E-04	13820.	562973.	43.6430	2580.	0.00
6.6000	-0.00355	637.0401	-283.4893	-7.15E-04	12674.	562973.	45.4451	2561.	0.00
6.8000	-0.00367	581.2511	-274.2381	-4.98E-04	11564.	562973.	47.0668	2566.	0.00
7.0000	-0.00375	527.3449	-263.8086	-3.01E-04	10491.	562973.	57.2278	3054.	0.00
7.2000	-0.00379	475.7277	-252.3420	-1.23E-04	9464.	562973.	57.4383	3032.	0.00
7.4000	-0.00380	426.4081	-240.8504	3.72E-05	8483.	562973.	57.4772	3028.	0.00
7.6000	-0.00377	379.3875	-229.3664	1.80E-04	7548.	562973.	57.3630	3040.	0.00
7.8000	-0.00372	334.6615	-217.9190	3.07E-04	6658.	562973.	57.1109	3067.	0.00
8.0000	-0.00365	292.2199	-206.5345	4.19E-04	5814.	562973.	56.7337	3107.	0.00
8.2000	-0.00356	252.0477	-195.2369	5.15E-04	5014.	562973.	56.2422	3162.	0.00
8.4000	-0.00345	214.1252	-184.0482	5.98E-04	4260.	562973.	55.6457	3230.	0.00
8.6000	-0.00332	178.4284	-172.9884	6.68E-04	3550.	562973.	54.9523	3312.	0.00
8.8000	-0.00318	144.9298	-162.0762	7.25E-04	2883.	562973.	54.1690	3409.	0.00
9.0000	-0.00303	113.5979	-151.3291	7.71E-04	2260.	562973.	53.3020	3520.	0.00
9.2000	-0.00287	84.3982	-140.7633	8.06E-04	1679.	562973.	52.3568	3649.	0.00
9.4000	-0.00271	57.2926	-130.3938	8.31E-04	1140.	562973.	51.3382	3795.	0.00
9.6000	-0.00254	32.2406	-120.2349	8.47E-04	641.4073	562973.	50.2508	3961.	0.00
9.8000	-0.00237	9.1987	-110.3000	8.55E-04	183.0022	562973.	49.0982	4149.	0.00
10.0000	-0.00220	-11.8793	-100.6017	8.54E-04	236.3319	562973.	47.8841	4362.	0.00
10.2000	-0.00203	-31.0420	-91.1522	8.47E-04	617.5610	562973.	46.6116	4604.	0.00
10.4000	-0.00186	-48.3402	-81.9627	8.33E-04	961.6977	562973.	45.2834	4878.	0.00
10.6000	-0.00169	-63.8271	-73.0441	8.13E-04	1270.	562973.	43.9022	5189.	0.00

10.8000	-0.00153	-77.5578	-64.4069	7.87E-04	1543.	562973.	42.4700	5545.	0.00
11.0000	-0.00138	-89.5898	-56.0610	7.58E-04	1782.	562973.	40.9888	5953.	0.00
11.2000	-0.00123	-99.9822	-48.0161	7.24E-04	1989.	562973.	39.4604	6423.	0.00
11.4000	-0.00109	-108.7963	-40.2814	6.87E-04	2164.	562973.	37.8861	6968.	0.00
11.6000	-9.54E-04	-116.0948	-32.8661	6.47E-04	2310.	562973.	36.2670	7604.	0.00
11.8000	-8.29E-04	-121.9427	-25.7790	6.05E-04	2426.	562973.	34.6040	8353.	0.00
12.0000	-7.12E-04	-126.4064	-18.3878	5.61E-04	2515.	562973.	39.3086	11043.	0.00
12.2000	-6.04E-04	-129.2978	-10.0491	5.15E-04	2572.	562973.	44.0782	14589.	0.00
12.4000	-5.06E-04	-130.4261	-1.4872	4.69E-04	2595.	562973.	41.5410	16425.	0.00
12.6000	-4.17E-04	-129.8927	6.5609	4.23E-04	2584.	562973.	38.9400	18693.	0.00
12.8000	-3.37E-04	-127.8017	14.0819	3.77E-04	2543.	562973.	36.2699	21546.	0.00
13.0000	-2.66E-04	-124.2599	21.0610	3.32E-04	2472.	562973.	33.5216	25224.	0.00
13.2000	-2.04E-04	-119.3773	27.4811	2.89E-04	2375.	562973.	30.6786	30116.	0.00
13.4000	-1.50E-04	-113.2675	33.3201	2.48E-04	2253.	562973.	27.7122	36909.	0.00
13.6000	-1.05E-04	-106.0493	38.5482	2.09E-04	2110.	562973.	24.5689	46957.	0.00
13.8000	-6.67E-05	-97.8482	43.1191	1.73E-04	1947.	562973.	21.1395	63427.	0.00
14.0000	-3.56E-05	-88.8016	46.9485	1.39E-04	1767.	562973.	17.1546	96313.	0.00
14.2000	-1.09E-05	-79.0688	49.8198	1.10E-04	1573.	562973.	11.5580	212127.	0.00
14.4000	8.21E-06	-68.8737	49.9236	8.33E-05	1370.	562973.	-10.5197	256257.	0.00
14.6000	2.24E-05	-59.0994	47.4013	6.06E-05	1176.	562973.	-14.7035	131139.	0.00
14.8000	3.24E-05	-49.9132	44.2680	4.12E-05	992.9919	562973.	-16.6290	102524.	0.00
15.0000	3.89E-05	-41.3922	40.8383	2.50E-05	823.4715	562973.	-17.6679	90820.	0.00
15.2000	4.24E-05	-33.5779	37.2529	1.17E-05	668.0108	562973.	-18.1865	85715.	0.00
15.4000	4.36E-05	-26.4910	33.5994	1.00E-06	527.0224	562973.	-18.3481	84211.	0.00
15.6000	4.28E-05	-20.1381	29.9403	-7.28E-06	400.6351	562973.	-18.2435	85178.	0.00
15.8000	4.07E-05	-14.5149	26.3230	-1.34E-05	288.7654	562973.	-17.9296	88182.	0.00
16.0000	3.75E-05	-9.6089	22.7854	-1.77E-05	191.1636	562973.	-17.4455	93137.	0.00
16.2000	3.36E-05	-5.4008	19.3589	-2.04E-05	107.4446	562973.	-16.8194	100185.	0.00
16.4000	2.93E-05	-1.8654	16.0697	-2.17E-05	37.1100	562973.	-16.0727	109682.	0.00
16.6000	2.49E-05	1.0271	12.9403	-2.18E-05	20.4343	562973.	-15.2218	122234.	0.00
16.8000	2.06E-05	3.3108	9.9901	-2.11E-05	65.8654	562973.	-14.2799	138792.	0.00
17.0000	1.65E-05	5.0232	7.2364	-1.96E-05	99.9331	562973.	-13.2568	160845.	0.00
17.2000	1.27E-05	6.2053	4.6948	-1.76E-05	123.4513	562973.	-12.1598	190780.	0.00
17.4000	9.45E-06	6.9011	2.3796	-1.53E-05	137.2931	562973.	-10.9926	232604.	0.00
17.6000	6.65E-06	7.1572	0.3049	-1.28E-05	142.3872	562973.	-9.7541	293513.	0.00
17.8000	4.35E-06	7.0231	-1.5139	-1.02E-05	139.7193	562973.	-8.4339	387792.	0.00
18.0000	2.55E-06	6.5516	-3.0573	-7.83E-06	130.3398	562973.	-6.9999	548599.	0.00
18.2000	1.22E-06	5.8001	-4.2926	-5.63E-06	115.3900	562973.	-5.3534	877845.	0.00
18.4000	2.99E-07	4.8345	-5.1280	-3.74E-06	96.1801	562973.	-2.9999	2003335.	0.00
18.6000	-2.77E-07	3.7490	-5.4091	-2.22E-06	74.5830	562973.	0.1882	135828.	0.00
18.8000	-5.87E-07	2.6709	-4.9258	-1.08E-06	53.1357	562973.	4.6447	1581226.	0.00
19.0000	-7.08E-07	1.7786	-3.9816	-2.87E-07	35.3845	562973.	4.7981	1355396.	0.00
19.2000	-7.02E-07	1.0783	-3.0329	2.21E-07	21.4515	562973.	4.6881	1335337.	0.00
19.4000	-6.20E-07	0.5654	-2.1250	5.13E-07	11.2492	562973.	4.3908	1417063.	0.00

19.6000	-4.97E-07	0.2283	-1.2929	6.54E-07	4.5409	562973.	3.9303	1581382.	0.00
19.8000	-3.58E-07	0.04827	-0.5706	7.03E-07	0.9603	562973.	3.2928	1838403.	0.00
20.0000	-2.16E-07	0.00	0.00	7.11E-07	0.00	562973.	2.4135	1117676.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 10:

Pile-head deflection = 0.04514366 meters
Computed slope at pile head = -0.01325336 radians
Maximum bending moment = 1569. kN-m
Maximum shear force = 700.00000000 kN
Depth of maximum bending moment = 3.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 100
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 11

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 710.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.5014	3.13E-09	710.0000	-0.06429	6.22E-08	562973.	0.00	0.00	0.00
0.2000	0.4886	142.0000	709.3683	-0.06427	2825.	562973.	-6.3173	2.5860	0.00
0.4000	0.4757	283.7473	707.5225	-0.06419	5645.	562973.	-12.1405	5.1039	0.00
0.6000	0.4629	425.0090	704.5183	-0.06406	8455.	562973.	-17.9016	7.7345	0.00
0.8000	0.4501	565.5546	700.3836	-0.06389	11251.	562973.	-23.4452	10.4177	0.00
1.0000	0.4373	705.1624	695.1668	-0.06366	14029.	562973.	-28.7232	13.1352	0.00
1.2000	0.4246	843.6213	688.9203	-0.06339	16783.	562973.	-33.7419	15.8920	0.00
1.4000	0.4120	980.7306	681.6927	-0.06306	19511.	562973.	-38.5335	18.7060	0.00
1.6000	0.3994	1116.	673.5255	-0.06269	22208.	562973.	-43.1391	21.6012	0.00

1.8000	0.3869	1250.	664.4517	-0.06227	24871.	562973.	-47.5986	24.6041	0.00
2.0000	0.3745	1382.	654.4972	-0.06180	27496.	562973.	-51.9464	27.7413	0.00
2.2000	0.3622	1512.	643.6816	-0.06129	30079.	562973.	-56.2092	31.0381	0.00
2.4000	0.3500	1640.	632.0225	-0.06073	32618.	562973.	-60.3823	34.5051	0.00
2.6000	0.3379	1765.	619.8113	-0.06012	35109.	562973.	-61.7291	36.5365	0.00
2.8000	0.3259	1887.	607.4655	-0.05948	37550.	562973.	-61.7291	37.8774	0.00
3.0000	0.3141	2008.	595.1197	-0.05878	39943.	562973.	-61.7291	39.3037	0.00
3.2000	0.3024	2126.	582.7739	-0.05805	42286.	562973.	-61.7291	40.8223	0.00
3.4000	0.2909	2241.	570.4281	-0.05727	44580.	562973.	-61.7291	42.4410	0.00
3.6000	0.2795	2354.	558.0823	-0.05646	46825.	562973.	-61.7291	44.1681	0.00
3.8000	0.2683	2464.	545.7364	-0.05560	49021.	562973.	-61.7291	46.0131	0.00
4.0000	0.2573	2572.	533.3906	-0.05471	51168.	562973.	-61.7291	47.9863	0.00
4.2000	0.2464	2677.	521.0448	-0.05377	53266.	562973.	-61.7291	50.0991	0.00
4.4000	0.2358	2780.	501.3734	-0.05280	55314.	562973.	-134.9847	114.5063	0.00
4.6000	0.2253	2878.	474.1397	-0.05180	57256.	562973.	-137.3525	121.9253	0.00
4.8000	0.2150	2970.	446.4482	-0.05076	59088.	562973.	-139.5626	129.7965	0.00
5.0000	0.2050	3057.	418.3306	-0.04969	60808.	562973.	-141.6130	138.1580	0.00
5.2000	0.1952	3137.	389.8191	-0.04859	62417.	562973.	-143.5019	147.0517	0.00
5.4000	0.1856	3212.	360.9462	-0.04746	63910.	562973.	-145.2272	156.5240	0.00
5.6000	0.1762	3282.	331.7448	-0.04631	65289.	562973.	-146.7871	166.6264	0.00
5.8000	0.1670	3345.	302.2481	-0.04513	66550.	562973.	-148.1797	177.4163	0.00
6.0000	0.1581	3403.	272.4898	-0.04393	67694.	562973.	-149.4031	188.9572	0.00
6.2000	0.1495	3454.	242.5040	-0.04272	68719.	562973.	-150.4555	201.3206	0.00
6.4000	0.1410	3500.	212.3249	-0.04148	69624.	562973.	-151.3350	214.5861	0.00
6.6000	0.1329	3539.	181.9875	-0.04023	70408.	562973.	-152.0396	228.8433	0.00
6.8000	0.1250	3572.	151.5268	-0.03897	71072.	562973.	-152.5674	244.1931	0.00
7.0000	0.1173	3600.	118.2355	-0.03769	71614.	562973.	-180.3451	307.5201	0.00
7.2000	0.1099	3620.	82.5546	-0.03641	72013.	562973.	-176.4640	321.1959	0.00
7.4000	0.1027	3633.	47.6534	-0.03512	72271.	562973.	-172.5484	335.9393	0.00
7.6000	0.09583	3639.	13.5387	-0.03383	72392.	562973.	-168.5979	351.8665	0.00
7.8000	0.08919	3638.	-19.7823	-0.03254	72379.	562973.	-164.6124	369.1115	0.00
8.0000	0.08282	3631.	-52.3026	-0.03125	72235.	562973.	-160.5911	387.8284	0.00
8.2000	0.07670	3617.	-84.0151	-0.02996	71963.	562973.	-156.5334	408.1958	0.00
8.4000	0.07083	3597.	-114.9123	-0.02868	71566.	562973.	-152.4383	430.4222	0.00
8.6000	0.06522	3571.	-144.9865	-0.02740	71048.	562973.	-148.3044	454.7521	0.00
8.8000	0.05987	3539.	-174.2300	-0.02614	70412.	562973.	-144.1302	481.4743	0.00
9.0000	0.05477	3502.	-202.6344	-0.02489	69662.	562973.	-139.9135	510.9328	0.00
9.2000	0.04991	3458.	-230.1909	-0.02365	68800.	562973.	-135.6518	543.5403	0.00
9.4000	0.04531	3410.	-256.8903	-0.02243	67830.	562973.	-131.3420	579.7969	0.00
9.6000	0.04094	3356.	-282.7225	-0.02123	66756.	562973.	-126.9800	620.3152	0.00
9.8000	0.03681	3296.	-307.6766	-0.02005	65580.	562973.	-122.5610	665.8539	0.00
10.0000	0.03292	3232.	-331.7405	-0.01889	64307.	562973.	-118.0787	717.3656	0.00
10.2000	0.02926	3164.	-354.9009	-0.01776	62940.	562973.	-113.5253	776.0650	0.00
10.4000	0.02582	3090.	-377.1426	-0.01664	61483.	562973.	-108.8911	843.5277	0.00

10.6000	0.02260	3013.	-398.4480	-0.01556	59939.	562973.	-104.1632	921.8403	0.00
10.8000	0.01959	2931.	-418.7968	-0.01450	58312.	562973.	-99.3251	1014.	0.00
11.0000	0.01680	2845.	-438.1648	-0.01348	56606.	562973.	-94.3549	1123.	0.00
11.2000	0.01420	2756.	-456.5226	-0.01248	54825.	562973.	-89.2227	1256.	0.00
11.4000	0.01180	2663.	-473.8335	-0.01152	52973.	562973.	-83.8869	1421.	0.00
11.6000	0.00959	2566.	-490.0510	-0.01059	51055.	562973.	-78.2872	1632.	0.00
11.8000	0.00757	2467.	-505.1129	-0.00970	49074.	562973.	-72.3319	1912.	0.00
12.0000	0.00572	2364.	-520.2168	-0.00884	47035.	562973.	-78.7079	2754.	0.00
12.2000	0.00403	2259.	-536.3853	-0.00802	44934.	562973.	-82.9766	4117.	0.00
12.4000	0.00251	2150.	-551.7663	-0.00724	42767.	562973.	-70.8332	5649.	0.00
12.6000	0.00114	2038.	-564.2912	-0.00649	40543.	562973.	-54.4161	9573.	0.00
12.8000	-8.91E-05	1924.	-567.4053	-0.00579	38276.	562973.	23.2755	52265.	0.00
13.0000	-0.00118	1811.	-559.5711	-0.00512	36028.	562973.	55.0664	9346.	0.00
13.2000	-0.00214	1700.	-547.3470	-0.00450	33823.	562973.	67.1740	6281.	0.00
13.4000	-0.00298	1592.	-533.1281	-0.00392	31672.	562973.	75.0149	5037.	0.00
13.6000	-0.00371	1487.	-517.5589	-0.00337	29581.	562973.	80.6772	4355.	0.00
13.8000	-0.00433	1385.	-500.9958	-0.00286	27554.	562973.	84.9538	3927.	0.00
14.0000	-0.00485	1286.	-483.6759	-0.00238	25594.	562973.	88.2455	3640.	0.00
14.2000	-0.00528	1192.	-465.7726	-0.00194	23705.	562973.	90.7875	3439.	0.00
14.4000	-0.00563	1100.	-447.4207	-0.00154	21888.	562973.	92.7318	3296.	0.00
14.6000	-0.00590	1013.	-428.7292	-0.00116	20144.	562973.	94.1834	3195.	0.00
14.8000	-0.00609	928.6985	-409.7890	-8.17E-04	18476.	562973.	95.2182	3126.	0.00
15.0000	-0.00622	848.6451	-390.6779	-5.02E-04	16883.	562973.	95.8932	3082.	0.00
15.2000	-0.00629	772.4274	-371.4633	-2.14E-04	15367.	562973.	96.2523	3059.	0.00
15.4000	-0.00631	700.0597	-352.2051	4.79E-05	13927.	562973.	96.3302	3054.	0.00
15.6000	-0.00627	631.5453	-332.9566	2.84E-04	12564.	562973.	96.1545	3066.	0.00
15.8000	-0.00619	566.8771	-313.7664	4.97E-04	11278.	562973.	95.7475	3092.	0.00
16.0000	-0.00607	506.0388	-294.6789	6.88E-04	10067.	562973.	95.1272	3132.	0.00
16.2000	-0.00592	449.0055	-275.7354	8.58E-04	8933.	562973.	94.3081	3187.	0.00
16.4000	-0.00573	395.7446	-256.9744	0.00101	7873.	562973.	93.3018	3256.	0.00
16.6000	-0.00552	346.2158	-238.4325	0.00114	6888.	562973.	92.1170	3340.	0.00
16.8000	-0.00528	300.3716	-220.1449	0.00125	5976.	562973.	90.7600	3441.	0.00
17.0000	-0.00501	258.1578	-202.1454	0.00135	5136.	562973.	89.2348	3559.	0.00
17.2000	-0.00473	219.5134	-184.4676	0.00144	4367.	562973.	87.5426	3698.	0.00
17.4000	-0.00444	184.3708	-167.1451	0.00151	3668.	562973.	85.6822	3861.	0.00
17.6000	-0.00413	152.6554	-150.2120	0.00157	3037.	562973.	83.6489	4051.	0.00
17.8000	-0.00381	124.2860	-133.7037	0.00162	2473.	562973.	81.4344	4274.	0.00
18.0000	-0.00348	99.1739	-117.6577	0.00166	1973.	562973.	79.0258	4539.	0.00
18.2000	-0.00315	77.2229	-102.1148	0.00169	1536.	562973.	76.4036	4855.	0.00
18.4000	-0.00281	58.3280	-87.1204	0.00171	1160.	562973.	73.5400	5241.	0.00
18.6000	-0.00246	42.3747	-72.7269	0.00173	843.0183	562973.	70.3946	5720.	0.00
18.8000	-0.00211	29.2372	-58.9967	0.00174	581.6562	562973.	66.9081	6331.	0.00
19.0000	-0.00176	18.7761	-46.0069	0.00175	373.5378	562973.	62.9899	7144.	0.00
19.2000	-0.00141	10.8345	-33.8585	0.00176	215.5452	562973.	58.4936	8284.	0.00

19.4000	-0.00106	5.2327	-22.6930	0.00176	104.1004	562973.	53.1609	10029.	0.00
19.6000	-7.08E-04	1.7573	-12.7309	0.00176	34.9597	562973.	46.4600	13131.	0.00
19.8000	-3.55E-04	0.1403	-4.3932	0.00176	2.7908	562973.	36.9178	20797.	0.00
20.0000	-2.43E-06	0.00	0.00	0.00176	0.00	562973.	7.0140	289194.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 11:

Pile-head deflection = 0.50143520 meters
Computed slope at pile head = -0.06429028 radians
Maximum bending moment = 3639. kN-m
Maximum shear force = 710.00000000 kN
Depth of maximum bending moment = 7.60000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 114
Number of zero deflection points = 2

Summary of Pile-head Responses for Conventional Analyses

Definitions of Pile-head Loading Conditions:

Load Type 1: Load 1 = Shear, V, kN, and Load 2 = Moment, M, kN-m
Load Type 2: Load 1 = Shear, V, kN, and Load 2 = Slope, S, radians
Load Type 3: Load 1 = Shear, V, kN, and Load 2 = Rot. Stiffness, R, kN-m/rad.
Load Type 4: Load 1 = Top Deflection, y, m, and Load 2 = Moment, M, kN-m
Load Type 5: Load 1 = Top Deflection, y, m, and Load 2 = Slope, S, radians

Load Case No.	Load Type	Pile-head Load 1	Load Type 2	Pile-head Load 2	Axial Loading kN	Pile-head Deflection meters	Pile-head Rotation radians	Max Shear in Pile kN	Max Moment in Pile kN-m
1	V, kN	50.0000	M, kN-m	0.00	0.00	5.11E-04	-2.56E-04	50.0000	51.4740
2	V, kN	75.0000	M, kN-m	0.00	0.00	8.01E-04	-3.97E-04	75.0000	78.8489
3	V, kN	100.0000	M, kN-m	0.00	0.00	0.00117	-5.65E-04	100.0000	108.9761
4	V, kN	125.0000	M, kN-m	0.00	0.00	0.00160	-7.48E-04	125.0000	140.6990
5	V, kN	150.0000	M, kN-m	0.00	0.00	0.00207	-9.46E-04	150.0000	172.7462
6	V, kN	200.0000	M, kN-m	0.00	0.00	0.00322	-0.00140	200.0000	242.7877
7	V, kN	450.0000	M, kN-m	0.00	0.00	0.01333	-0.00492	450.0000	706.7862

8	V, kN	500.0000	M, kN-m	0.00	0.00	0.01665	-0.00595	500.0000	829.4204
9	V, kN	600.0000	M, kN-m	0.00	0.00	0.02571	-0.00858	600.0000	1119.
10	V, kN	700.0000	M, kN-m	0.00	0.00	0.04514	-0.01325	700.0000	1569.
11	V, kN	710.0000	M, kN-m	0.00	0.00	0.5014	-0.06429	710.0000	3639.

Maximum pile-head deflection = 0.5014351999 meters

Maximum pile-head rotation = -0.0642902789 radians = -3.683562 deg.

The analysis ended normally.

Opera VI04 – D1000

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LPile for Windows, Version 2016-09.009

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method
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Files Used for Analysis

Path to file locations:
\m9159\Work\07_Pali\VI04\LPILE\

Name of input data file:
VI04_spalle-pila_D1000_statica.lp9d

Name of output report file:
VI04_spalle-pila_D1000_statica.lp9o

Name of plot output file:
VI04_spalle-pila_D1000_statica.lp9p

Name of runtime message file:
VI04_spalle-pila_D1000_statica.lp9r

Date and Time of Analysis

Date: June 10, 2019 Time: 15:13:41

Problem Title

Project Name: VI02 - Spalle e pila
Job Number:
Client:
Engineer:
Description:

Program Options and Settings

Computational Options:
- Use unfactored loads in computations (conventional analysis)

Engineering Units Used for Data Input and Computations:
- International System Units (kilonewtons, meters, millimeters)

Analysis Control Options:
- Maximum number of iterations allowed = 500
- Deflection tolerance for convergence = 2.5400E-07 m
- Maximum allowable deflection = 2.5400 m
- Number of pile increments = 100

Loading Type and Number of Cycles of Loading:
- Static loading specified

- Use of p-y modification factors for p-y curves not selected
- No distributed lateral loads are entered
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected

- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:
- Output files use decimal points to denote decimal symbols.
- Values of pile-head deflection, bending moment, shear force, and soil reaction are printed for full length of pile.
- Printing Increment (nodal spacing of output points) = 1
- p-y curves computed and reported at user-specified depths
- Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined = 1
Total length of pile = 20.000 m
Depth of ground surface below top of pile = 0.0000 m

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point	Depth Below Pile Head meters	Pile Diameter millimeters
1	0.000	1000.00
2	20.000	1000.00

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is an elastic pile
Cross-sectional Shape = Circular Pile
Length of section = 20.000000 m

Width of top of section = 1.000000 m
Width of bottom of section = 1.000000 m
Top Area = 0.785398 sq. m
Bottom Area = 0.785398 sq. m
Moment of Inertia at Top = 0.049087 m^4
Moment of Inertia at Bottom = 0.049087 m^4
Elastic Modulus = 28000000. kPa

Ground Slope and Pile Batter Angles

Ground Slope Angle = 0.000 degrees
= 0.000 radians

Pile Batter Angle = 0.000 degrees
= 0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 3 layers

Layer 1 is stiff clay with water-induced erosion

Distance from top of pile to top of layer = 0.0000 m
Distance from top of pile to bottom of layer = 4.300000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 80.000000 kPa
Undrained cohesion at bottom of layer = 80.000000 kPa
Epsilon-50 at top of layer = 0.007000
Epsilon-50 at bottom of layer = 0.007000
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 2 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 4.300000 m
Distance from top of pile to bottom of layer = 12.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 35.000000 kPa
Undrained cohesion at bottom of layer = 35.000000 kPa
Epsilon-50 at top of layer = 0.020000
Epsilon-50 at bottom of layer = 0.020000

Layer 3 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 12.000000 m
Distance from top of pile to bottom of layer = 20.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 45.000000 kPa
Undrained cohesion at bottom of layer = 45.000000 kPa
Epsilon-50 at top of layer = 0.015000
Epsilon-50 at bottom of layer = 0.015000

(Depth of the lowest soil layer extends 0.000 m below the pile tip)

Summary of Input Soil Properties

Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth m	Effective Unit Wt. kN/m3	Undrained Cohesion kPa	E50 or krm	kpy kN/m3
1	Stiff Clay	0.00	9.0000	80.0000	0.00700	default
	with Free Water	4.3000	9.0000	80.0000	0.00700	default
2	Soft	4.3000	9.0000	35.0000	0.02000	--
	Clay	12.0000	9.0000	35.0000	0.02000	--
3	Soft	12.0000	9.0000	45.0000	0.01500	--
	Clay	20.0000	9.0000	45.0000	0.01500	--

Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 10

Load No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, kN	Compute Top y vs. Pile Length
1	1	V = 75.000000 kN	M = 0.0000 m-kN	0.0000000	No
2	1	V = 80.000000 kN	M = 0.0000 m-kN	0.0000000	No
3	1	V = 120.000000 kN	M = 0.0000 m-kN	0.0000000	No
4	1	V = 200.000000 kN	M = 0.0000 m-kN	0.0000000	No
5	1	V = 250.000000 kN	M = 0.0000 m-kN	0.0000000	No
6	1	V = 600.000000 kN	M = 0.0000 m-kN	0.0000000	No
7	1	V = 800.000000 kN	M = 0.0000 m-kN	0.0000000	No
8	1	V = 900.000000 kN	M = 0.0000 m-kN	0.0000000	No
9	1	V = 950.000000 kN	M = 0.0000 m-kN	0.0000000	No
10	1	V = 1000.000000 kN	M = 0.0000 m-kN	0.0000000	No

V = shear force applied normal to pile axis
M = bending moment applied to pile head
y = lateral deflection normal to pile axis
S = pile slope relative to original pile batter angle
R = rotational stiffness applied to pile head
Values of top y vs. pile lengths can be computed only for load types with
specified shear loading (Load Types 1, 2, and 3).
Thrust force is assumed to be acting axially for all pile batter angles.

Specified Depths for Output of p-y Curves

Lateral load-transfer (p-y) curves are computed and output at 8 depths.
(Note that load-transfer values are computeded at the specified depths and

may differ from values computed at nodal points)

Depth No.	Depth Below Pile Head m	Depth Below Ground Surface m
1	0.200	0.200
2	3.400	3.400
3	3.800	3.800
4	9.000	9.000
5	11.000	11.000
6	11.400	11.400
7	16.000	16.000
8	19.800	19.800

Depth of ground surface below top of pile = 0.0000 m

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

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Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Moment-curvature properties were derived from elastic section properties

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Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head meters	Equivalent Top Depth Below Grnd Surf meters	Same Layer Type As Layer Above	Layer is Rock or is Below Rock Layer	F0 Integral for Layer kN	F1 Integral for Layer kN

1	0.00	0.00	N.A.	No	0.00	222.6293
2	4.3000	1.7388	No	No	222.6293	2054.
3	12.0000	9.4388	Yes	No	2277.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals for Layer n. Layering correction equivalent depths are computed only for soil types with both shallow-depth and deep-depth expressions for peak lateral load transfer. These soil types are soft and stiff clays, non-liquefied sands, and cemented c-phi soil.

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p-y Curves Reported for Specified Depths

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p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 0.200 m
Depth of p-y curve below ground surface = 0.200 m
Equivalent depth of p-y curve = 0.200 m
Pile diameter = 1000.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.007 m
As = 0.29059
Ac (not used) = 0.22776
pct = 207.080 kN/m
pcd = 880.000 kN/m
pc = 207.080 kN/m
pu = 6.476 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00102	27.60762
0.00203	55.21523
0.00305	63.56971
0.00407	67.54403
0.00509	69.34360
0.00610	69.58461
0.00712	68.61559
0.00814	66.66085
0.00915	63.87638
0.01017	60.37654
0.01119	56.24858
0.01220	51.60684
0.02034	36.56317
0.02848	21.51949
0.03661	6.47582
0.03865	6.47582

p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 3.400 m
Depth of p-y curve below ground surface = 3.400 m
Equivalent depth of p-y curve = 3.400 m
Pile diameter = 1000.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.007 m
As = 0.60000
Ac (not used) = 0.30000
pct = 960.360 kN/m
pcd = 880.000 kN/m
pc = 880.000 kN/m

pu = 77.161 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00210	240.99793
0.00420	340.82253
0.00630	397.07096
0.00840	433.59585
0.01050	458.54264
0.01260	475.20670
0.01470	485.47113
0.01680	490.55112
0.01890	491.29144
0.02100	488.31061
0.02310	482.07937
0.02520	473.16130
0.04200	341.16130
0.05880	209.16130
0.07560	77.16130
0.07980	77.16130

p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 3.800 m
Depth of p-y curve below ground surface = 3.800 m
Equivalent depth of p-y curve = 3.800 m
Pile diameter = 1000.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.007 m
As = 0.60000

Ac (not used) = 0.30000
pct = 1054.520 kN/m
pcd = 880.000 kN/m
pc = 880.000 kN/m
pu = 77.161 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00210	240.99793
0.00420	340.82253
0.00630	397.07096
0.00840	433.59585
0.01050	458.54264
0.01260	475.20670
0.01470	485.47113
0.01680	490.55112
0.01890	491.29144
0.02100	488.31061
0.02310	482.07937
0.02520	473.16130
0.04200	341.16130
0.05880	209.16130
0.07560	77.16130
0.07980	77.16130

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 4.300 m
Depth of p-y curve below pile head = 9.000 m
Depth of p-y curve below ground surface = 9.000 m
Equiv. depth of p-y curve below ground surface = 9.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1000.000 mm

Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 7.925 m
Static pu_s for flat ground = 343.500 kN/m
Static pu_d for flat ground = 315.000 kN/m
y_50 = 0.05000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 315.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00011852	21.00000
0.00094815	42.00000
0.00320	63.00000
0.00759	84.00000
0.01481	105.00000
0.02560	126.00000
0.04065	147.00000
0.06068	168.00000
0.08640	189.00000
0.11852	210.00000
0.15775	231.00000
0.20480	252.00000
0.26039	273.00000
0.32521	294.00000
0.40000	315.00000
0.42500	315.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 4.300 m
Depth of p-y curve below pile head = 11.000 m
Depth of p-y curve below ground surface = 11.000 m
Equiv. depth of p-y curve below ground surface = 11.000 m
Ground slope angle = 0.000 degrees

Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1000.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 7.925 m
Static pu_s for flat ground = 396.500 kN/m
Static pu_d for flat ground = 315.000 kN/m
y_50 = 0.05000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 315.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00011852	21.00000
0.00094815	42.00000
0.00320	63.00000
0.00759	84.00000
0.01481	105.00000
0.02560	126.00000
0.04065	147.00000
0.06068	168.00000
0.08640	189.00000
0.11852	210.00000
0.15775	231.00000
0.20480	252.00000
0.26039	273.00000
0.32521	294.00000
0.40000	315.00000
0.42500	315.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 4.300 m
Depth of p-y curve below pile head = 11.400 m

Depth of p-y curve below ground surface = 11.400 m
Equiv. depth of p-y curve below ground surface = 11.400 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1000.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 7.925 m
Static pu_s for flat ground = 407.100 kN/m
Static pu_d for flat ground = 315.000 kN/m
y_50 = 0.05000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 315.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00011852	21.00000
0.00094815	42.00000
0.00320	63.00000
0.00759	84.00000
0.01481	105.00000
0.02560	126.00000
0.04065	147.00000
0.06068	168.00000
0.08640	189.00000
0.11852	210.00000
0.15775	231.00000
0.20480	252.00000
0.26039	273.00000
0.32521	294.00000
0.40000	315.00000
0.42500	315.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 12.000 m
Depth of p-y curve below pile head = 16.000 m
Depth of p-y curve below ground surface = 16.000 m
Equiv. depth of p-y curve below ground surface = 16.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1000.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 8.571 m
Static pu_s for flat ground = 639.000 kN/m
Static pu_d for flat ground = 405.000 kN/m
y_50 = 0.03750 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 405.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00008889	27.00000
0.00071111	54.00000
0.00240	81.00000
0.00569	108.00000
0.01111	135.00000
0.01920	162.00000
0.03049	189.00000
0.04551	216.00000
0.06480	243.00000
0.08889	270.00000
0.11831	297.00000
0.15360	324.00000
0.19529	351.00000
0.24391	378.00000

0.30000	405.00000
0.31875	405.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 12.000 m
Depth of p-y curve below pile head = 19.800 m
Depth of p-y curve below ground surface = 19.800 m
Equiv. depth of p-y curve below ground surface = 19.800 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1000.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 8.571 m
Static pu_s for flat ground = 758.700 kN/m
Static pu_d for flat ground = 405.000 kN/m
y_50 = 0.03750 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 405.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00008889	27.00000
0.00071111	54.00000
0.00240	81.00000
0.00569	108.00000
0.01111	135.00000
0.01920	162.00000
0.03049	189.00000
0.04551	216.00000
0.06480	243.00000
0.08889	270.00000
0.11831	297.00000

0.15360	324.00000
0.19529	351.00000
0.24391	378.00000
0.30000	405.00000
0.31875	405.00000

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 1

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 75.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	5.41E-04	1.49E-11	75.0000	-2.27E-04	1.52E-10	1374447.	0.00	0.00	0.00
0.2000	4.95E-04	15.0000	73.6555	-2.26E-04	152.7887	1374447.	-13.4453	5429.	0.00
0.4000	4.50E-04	29.4622	69.8659	-2.23E-04	300.0994	1374447.	-24.4508	10858.	0.00
0.6000	4.06E-04	42.9463	64.1122	-2.17E-04	437.4478	1374447.	-33.0862	16287.	0.00
0.8000	3.63E-04	55.1070	56.8571	-2.10E-04	561.3158	1374447.	-39.4639	21716.	0.00
1.0000	3.22E-04	65.6892	48.6693	-2.01E-04	669.1047	1374447.	-42.4144	26326.	0.00
1.2000	2.83E-04	74.5748	39.9804	-1.91E-04	759.6124	1374447.	-44.4747	31441.	0.00
1.4000	2.46E-04	81.6814	30.9467	-1.80E-04	831.9996	1374447.	-45.8626	37323.	0.00
1.6000	2.11E-04	86.9535	21.7787	-1.68E-04	885.7006	1374447.	-45.8173	43432.	0.00
1.8000	1.79E-04	90.3928	12.8302	-1.55E-04	920.7339	1374447.	-43.6678	48860.	0.00
2.0000	1.49E-04	92.0855	4.4152	-1.41E-04	937.9754	1374447.	-40.4820	54289.	0.00
2.2000	1.22E-04	92.1589	-3.2819	-1.28E-04	938.7230	1374447.	-36.4889	59718.	0.00
2.4000	9.80E-05	90.7728	-10.1215	-1.15E-04	924.6037	1374447.	-31.9073	65147.	0.00
2.6000	7.63E-05	88.1103	-16.0064	-1.02E-04	897.4842	1374447.	-26.9415	70576.	0.00
2.8000	5.73E-05	84.3702	-20.8783	-8.91E-05	859.3877	1374447.	-21.7772	76005.	0.00
3.0000	4.07E-05	79.7590	-24.7139	-7.71E-05	812.4184	1374447.	-16.5787	81434.	0.00
3.2000	2.65E-05	74.4846	-27.5205	-6.59E-05	758.6943	1374447.	-11.4879	86863.	0.00
3.4000	1.44E-05	68.7508	-29.3316	-5.55E-05	700.2896	1374447.	-6.6229	92292.	0.00
3.6000	4.25E-06	62.7520	-30.2018	-4.59E-05	639.1865	1374447.	-2.0787	97721.	0.00

3.8000	-4.02E-06	56.6701	-30.2025	-3.72E-05	577.2365	1374447.	2.0719	103150.	0.00
4.0000	-1.06E-05	50.6710	-29.4177	-2.94E-05	516.1306	1374447.	5.7761	108579.	0.00
4.2000	-1.58E-05	44.9030	-27.9401	-2.25E-05	457.3782	1374447.	8.9993	114008.	0.00
4.4000	-1.96E-05	39.4950	-26.3950	-1.63E-05	402.2924	1374447.	6.4522	65745.	0.00
4.6000	-2.23E-05	34.3450	-25.0560	-1.10E-05	349.8354	1374447.	6.9375	62166.	0.00
4.8000	-2.40E-05	29.4726	-23.6307	-6.32E-06	300.2050	1374447.	7.3156	60935.	0.00
5.0000	-2.48E-05	24.8927	-22.1383	-2.36E-06	253.5553	1374447.	7.6083	61245.	0.00
5.2000	-2.50E-05	20.6172	-20.5946	9.51E-07	210.0055	1374447.	7.8282	62739.	0.00
5.4000	-2.45E-05	16.6549	-19.0135	3.66E-06	169.6452	1374447.	7.9837	65267.	0.00
5.6000	-2.35E-05	13.0119	-17.4071	5.82E-06	132.5377	1374447.	8.0801	68797.	0.00
5.8000	-2.21E-05	9.6920	-15.7869	7.47E-06	98.7223	1374447.	8.1214	73377.	0.00
6.0000	-2.05E-05	6.6971	-14.1637	8.67E-06	68.2160	1374447.	8.1105	79126.	0.00
6.2000	-1.87E-05	4.0266	-12.5477	9.45E-06	41.0141	1374447.	8.0496	86232.	0.00
6.4000	-1.67E-05	1.6780	-10.9487	9.86E-06	17.0920	1374447.	7.9404	94971.	0.00
6.6000	-1.47E-05	-0.3529	-9.3762	9.96E-06	3.5949	1374447.	7.7843	105728.	0.00
6.8000	-1.27E-05	-2.0725	-7.8396	9.78E-06	21.1102	1374447.	7.5824	119044.	0.00
7.0000	-1.08E-05	-3.4888	-6.3478	9.38E-06	35.5362	1374447.	7.3356	135685.	0.00
7.2000	-8.99E-06	-4.6116	-4.9098	8.79E-06	46.9734	1374447.	7.0447	156755.	0.00
7.4000	-7.30E-06	-5.4527	-3.5343	8.05E-06	55.5404	1374447.	6.7102	183895.	0.00
7.6000	-5.77E-06	-6.0253	-2.2300	7.22E-06	61.3733	1374447.	6.3323	219638.	0.00
7.8000	-4.41E-06	-6.3447	-1.0057	6.32E-06	64.6263	1374447.	5.9110	268083.	0.00
8.0000	-3.24E-06	-6.4276	0.2156	5.39E-06	65.4709	1374447.	6.3021	389240.	0.00
8.2000	-2.25E-06	-6.2584	1.4059	4.47E-06	63.7477	1374447.	5.6009	497064.	0.00
8.4000	-1.45E-06	-5.8652	2.4530	3.59E-06	59.7426	1374447.	4.8697	671170.	0.00
8.6000	-8.19E-07	-5.2772	3.3503	2.77E-06	53.7534	1374447.	4.1030	1001525.	0.00
8.8000	-3.41E-07	-4.5251	3.7741	2.06E-06	46.0924	1374447.	0.1352	79233.	0.00
9.0000	5.33E-09	-3.7676	3.7874	1.46E-06	38.3764	1374447.	-0.00211	79233.	0.00
9.2000	2.42E-07	-3.0102	3.7776	9.65E-07	30.6612	1374447.	-0.09594	79233.	0.00
9.4000	3.91E-07	-2.2566	3.5046	5.82E-07	22.9851	1374447.	-2.6336	1345681.	0.00
9.6000	4.75E-07	-1.6083	2.9563	3.01E-07	16.3821	1374447.	-2.8493	1199737.	0.00
9.8000	5.12E-07	-1.0740	2.3768	1.06E-07	10.9400	1374447.	-2.9455	1151121.	0.00
10.0000	5.17E-07	-0.6576	1.7833	-2.03E-08	6.6980	1374447.	-2.9895	1155894.	0.00
10.2000	5.04E-07	-0.3607	1.1824	-9.44E-08	3.6740	1374447.	-3.0203	1199391.	0.00
10.4000	4.80E-07	-0.1846	0.5740	-1.34E-07	1.8806	1374447.	-3.0633	1277673.	0.00
10.6000	4.50E-07	-0.1311	0.2498	-1.57E-07	1.3353	1374447.	-0.1783	79233.	0.00
10.8000	4.17E-07	-0.08469	0.2155	-1.73E-07	0.8627	1374447.	-0.1651	79233.	0.00
11.0000	3.81E-07	-0.04489	0.1839	-1.82E-07	0.4573	1374447.	-0.1509	79233.	0.00
11.2000	3.44E-07	-0.01113	0.1552	-1.86E-07	0.1134	1374447.	-0.1362	79233.	0.00
11.4000	3.06E-07	0.01718	0.1294	-1.86E-07	0.1750	1374447.	-0.1214	79233.	0.00
11.6000	2.70E-07	0.04064	0.1066	-1.82E-07	0.4140	1374447.	-0.1068	79233.	0.00
11.8000	2.34E-07	0.05983	0.08667	-1.74E-07	0.6094	1374447.	-0.09262	79233.	0.00
12.0000	2.00E-07	0.07531	0.06707	-1.64E-07	0.7671	1374447.	-0.1034	103488.	0.00
12.2000	1.68E-07	0.08666	0.04532	-1.53E-07	0.8827	1374447.	-0.1141	135828.	0.00
12.4000	1.39E-07	0.09344	0.02449	-1.40E-07	0.9518	1374447.	-0.09423	135828.	0.00

12.6000	1.12E-07	0.09645	0.00744	-1.26E-07	0.9825	1374447.	-0.07620	135828.	0.00
12.8000	8.85E-08	0.09642	-0.00618	-1.12E-07	0.9821	1374447.	-0.06007	135828.	0.00
13.0000	6.75E-08	0.09398	-0.01678	-9.79E-08	0.9573	1374447.	-0.04585	135828.	0.00
13.2000	4.93E-08	0.08971	-0.02471	-8.45E-08	0.9137	1374447.	-0.03349	135828.	0.00
13.4000	3.37E-08	0.08409	-0.03035	-7.18E-08	0.8566	1374447.	-0.02290	135828.	0.00
13.6000	2.06E-08	0.07757	-0.03404	-6.01E-08	0.7901	1374447.	-0.01397	135828.	0.00
13.8000	9.69E-09	0.07048	-0.03609	-4.93E-08	0.7179	1374447.	-0.00658	135828.	0.00
14.0000	8.52E-10	0.06313	-0.03681	-3.96E-08	0.6430	1374447.	-5.79E-04	135828.	0.00
14.2000	-6.15E-09	0.05576	-0.03645	-3.09E-08	0.5679	1374447.	0.00418	135828.	0.00
14.4000	-1.15E-08	0.04855	-0.03525	-2.34E-08	0.4945	1374447.	0.00783	135828.	0.00
14.6000	-1.55E-08	0.04166	-0.03341	-1.68E-08	0.4243	1374447.	0.01052	135828.	0.00
14.8000	-1.82E-08	0.03518	-0.03112	-1.12E-08	0.3584	1374447.	0.01239	135828.	0.00
15.0000	-2.00E-08	0.02921	-0.02853	-6.51E-09	0.2975	1374447.	0.01356	135828.	0.00
15.2000	-2.08E-08	0.02377	-0.02576	-2.66E-09	0.2421	1374447.	0.01416	135828.	0.00
15.4000	-2.10E-08	0.01890	-0.02291	4.47E-10	0.1926	1374447.	0.01428	135828.	0.00
15.6000	-2.07E-08	0.01461	-0.02008	2.89E-09	0.1488	1374447.	0.01403	135828.	0.00
15.8000	-1.99E-08	0.01087	-0.01733	4.74E-09	0.1107	1374447.	0.01350	135828.	0.00
16.0000	-1.88E-08	0.00768	-0.01470	6.09E-09	0.07819	1374447.	0.01275	135828.	0.00
16.2000	-1.74E-08	0.00499	-0.01224	7.01E-09	0.05083	1374447.	0.01184	135828.	0.00
16.4000	-1.60E-08	0.00278	-0.00998	7.58E-09	0.02830	1374447.	0.01084	135828.	0.00
16.6000	-1.44E-08	1.00E-03	-0.00791	7.85E-09	0.01018	1374447.	0.00979	135828.	0.00
16.8000	-1.28E-08	-3.87E-04	-0.00606	7.89E-09	0.00394	1374447.	0.00871	135828.	0.00
17.0000	-1.13E-08	-0.00143	-0.00443	7.76E-09	0.01452	1374447.	0.00764	135828.	0.00
17.2000	-9.72E-09	-0.00216	-0.00300	7.50E-09	0.02199	1374447.	0.00660	135828.	0.00
17.4000	-8.25E-09	-0.00263	-0.00178	7.15E-09	0.02676	1374447.	0.00560	135828.	0.00
17.6000	-6.86E-09	-0.00287	-7.57E-04	6.75E-09	0.02925	1374447.	0.00466	135828.	0.00
17.8000	-5.55E-09	-0.00293	8.57E-05	6.33E-09	0.02985	1374447.	0.00377	135828.	0.00
18.0000	-4.33E-09	-0.00284	7.56E-04	5.91E-09	0.02890	1374447.	0.00294	135828.	0.00
18.2000	-3.19E-09	-0.00263	0.00127	5.51E-09	0.02676	1374447.	0.00216	135828.	0.00
18.4000	-2.12E-09	-0.00233	0.00163	5.15E-09	0.02374	1374447.	0.00144	135828.	0.00
18.6000	-1.12E-09	-0.00198	0.00185	4.84E-09	0.02013	1374447.	7.63E-04	135828.	0.00
18.8000	-1.84E-10	-0.00159	0.00194	4.58E-09	0.01622	1374447.	1.25E-04	135828.	0.00
19.0000	7.08E-10	-0.00120	0.00190	4.38E-09	0.01225	1374447.	-4.81E-04	135828.	0.00
19.2000	1.57E-09	-8.32E-04	0.00175	4.23E-09	0.00847	1374447.	-0.00106	135828.	0.00
19.4000	2.40E-09	-5.04E-04	0.00148	4.13E-09	0.00513	1374447.	-0.00163	135828.	0.00
19.6000	3.22E-09	-2.41E-04	0.00110	4.08E-09	0.00246	1374447.	-0.00219	135828.	0.00
19.8000	4.03E-09	-6.58E-05	6.03E-04	4.06E-09	6.70E-04	1374447.	-0.00274	135828.	0.00
20.0000	4.84E-09	0.00	0.00	4.05E-09	0.00	1374447.	-0.00329	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 1:

Pile-head deflection = 0.00054070 meters
Computed slope at pile head = -0.00022689 radians
Maximum bending moment = 92.15891666 kN-m
Maximum shear force = 75.00000000 kN
Depth of maximum bending moment = 2.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 7
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 2

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 80.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	5.83E-04	-1.86E-11	80.0000	-2.44E-04	1.90E-10	1374447.	0.00	0.00	0.00
0.2000	5.35E-04	16.0000	78.5489	-2.43E-04	162.9747	1374447.	-14.5114	5429.	0.00
0.4000	4.86E-04	31.4195	74.4579	-2.39E-04	320.0368	1374447.	-26.3978	10858.	0.00
0.6000	4.39E-04	45.7832	68.2448	-2.34E-04	466.3436	1374447.	-35.7336	16287.	0.00
0.8000	3.93E-04	58.7175	60.5465	-2.26E-04	598.0911	1374447.	-41.2488	21008.	0.00
1.0000	3.48E-04	70.0018	52.0119	-2.17E-04	713.0324	1374447.	-44.0979	25322.	0.00
1.2000	3.06E-04	79.5222	42.9770	-2.06E-04	810.0065	1374447.	-46.2507	30235.	0.00
1.4000	2.66E-04	87.1926	33.5814	-1.94E-04	888.1365	1374447.	-47.7055	35883.	0.00
1.6000	2.28E-04	92.9548	23.9643	-1.81E-04	946.8295	1374447.	-48.4650	42442.	0.00
1.8000	1.94E-04	96.7783	14.3886	-1.67E-04	985.7760	1374447.	-47.2922	48860.	0.00
2.0000	1.62E-04	98.7102	5.2730	-1.53E-04	1005.	1374447.	-43.8642	54289.	0.00
2.2000	1.32E-04	98.8875	-3.0692	-1.38E-04	1007.	1374447.	-39.5573	59718.	0.00
2.4000	1.06E-04	97.4826	-10.4856	-1.24E-04	992.9491	1374447.	-34.6073	65147.	0.00
2.6000	8.28E-05	94.6933	-16.8698	-1.10E-04	964.5379	1374447.	-29.2341	70576.	0.00
2.8000	6.22E-05	90.7347	-22.1569	-9.66E-05	924.2156	1374447.	-23.6378	76005.	0.00
3.0000	4.42E-05	85.8305	-26.3203	-8.38E-05	874.2623	1374447.	-17.9960	81434.	0.00
3.2000	2.87E-05	80.2065	-29.3661	-7.17E-05	816.9769	1374447.	-12.4617	86863.	0.00
3.4000	1.55E-05	74.0841	-31.3285	-6.05E-05	754.6141	1374447.	-7.1628	92292.	0.00

3.6000	4.51E-06	67.6751	-32.2651	-5.01E-05	689.3329	1374447.	-2.2023	97721.	0.00
3.8000	-4.54E-06	61.1780	-32.2512	-4.08E-05	623.1544	1374447.	2.3404	103150.	0.00
4.0000	-1.18E-05	54.7746	-31.3764	-3.23E-05	557.9295	1374447.	6.4076	108579.	0.00
4.2000	-1.75E-05	48.6275	-29.7396	-2.48E-05	495.3153	1374447.	9.9604	114008.	0.00
4.4000	-2.17E-05	42.8787	-28.0754	-1.82E-05	436.7593	1374447.	6.6815	61499.	0.00
4.6000	-2.47E-05	37.3973	-26.6886	-1.23E-05	380.9256	1374447.	7.1868	58107.	0.00
4.8000	-2.67E-05	32.2033	-25.2116	-7.25E-06	328.0201	1374447.	7.5830	56897.	0.00
5.0000	-2.76E-05	27.3126	-23.6641	-2.92E-06	278.2042	1374447.	7.8924	57113.	0.00
5.2000	-2.78E-05	22.7377	-22.0621	7.19E-07	231.6039	1374447.	8.1278	58421.	0.00
5.4000	-2.74E-05	18.4878	-20.4195	3.72E-06	188.3152	1374447.	8.2977	60677.	0.00
5.6000	-2.63E-05	14.5699	-18.7490	6.12E-06	148.4073	1374447.	8.4077	63846.	0.00
5.8000	-2.49E-05	10.9882	-17.0620	7.98E-06	111.9249	1374447.	8.4619	67965.	0.00
6.0000	-2.31E-05	7.7450	-15.3695	9.35E-06	78.8903	1374447.	8.4633	73135.	0.00
6.2000	-2.12E-05	4.8404	-13.6817	1.03E-05	49.3039	1374447.	8.4143	79520.	0.00
6.4000	-1.90E-05	2.2723	-12.0086	1.08E-05	23.1458	1374447.	8.3167	87361.	0.00
6.6000	-1.69E-05	0.03694	-10.3598	1.09E-05	0.3763	1374447.	8.1722	96993.	0.00
6.8000	-1.47E-05	-1.8716	-8.7443	1.08E-05	19.0636	1374447.	7.9822	108889.	0.00
7.0000	-1.25E-05	-3.4608	-7.1713	1.04E-05	35.2512	1374447.	7.7483	123718.	0.00
7.2000	-1.05E-05	-4.7401	-5.6493	9.83E-06	48.2820	1374447.	7.4718	142441.	0.00
7.4000	-8.59E-06	-5.7205	-4.1866	9.07E-06	58.2684	1374447.	7.1543	166490.	0.00
7.6000	-6.86E-06	-6.4147	-2.7914	8.18E-06	65.3399	1374447.	6.7979	198073.	0.00
7.8000	-5.32E-06	-6.8371	-1.4712	7.22E-06	69.6417	1374447.	6.4049	240768.	0.00
8.0000	-3.98E-06	-7.0032	-0.1387	6.21E-06	71.3339	1374447.	6.9198	348101.	0.00
8.2000	-2.83E-06	-6.8925	1.1807	5.20E-06	70.2068	1374447.	6.2745	442651.	0.00
8.4000	-1.89E-06	-6.5309	2.3721	4.23E-06	66.5231	1374447.	5.6389	595221.	0.00
8.6000	-1.14E-06	-5.9437	3.4418	3.32E-06	60.5420	1374447.	5.0584	883893.	0.00
8.8000	-5.67E-07	-5.1542	3.9701	2.51E-06	52.4999	1374447.	0.2248	79233.	0.00
9.0000	-1.40E-07	-4.3556	3.9982	1.82E-06	44.3662	1374447.	0.05555	79233.	0.00
9.2000	1.60E-07	-3.5549	3.9974	1.24E-06	36.2099	1374447.	-0.06347	79233.	0.00
9.4000	3.57E-07	-2.7567	3.7753	7.84E-07	28.0794	1374447.	-2.1569	1207786.	0.00
9.6000	4.74E-07	-2.0448	3.3056	4.35E-07	20.8278	1374447.	-2.5403	1072071.	0.00
9.8000	5.31E-07	-1.4344	2.7793	1.82E-07	14.6111	1374447.	-2.7227	1025262.	0.00
10.0000	5.47E-07	-0.9330	2.2265	9.52E-09	9.5038	1374447.	-2.8054	1026480.	0.00
10.2000	5.35E-07	-0.5438	1.6619	-9.79E-08	5.5394	1374447.	-2.8405	1061995.	0.00
10.4000	5.07E-07	-0.2683	1.0917	-1.57E-07	2.7325	1374447.	-2.8616	1127854.	0.00
10.6000	4.72E-07	-0.1071	0.5163	-1.84E-07	1.0914	1374447.	-2.8923	1225228.	0.00
10.8000	4.34E-07	-0.06172	0.2099	-1.97E-07	0.6287	1374447.	-0.1718	79233.	0.00
11.0000	3.93E-07	-0.02318	0.1771	-2.03E-07	0.2361	1374447.	-0.1559	79233.	0.00
11.2000	3.53E-07	0.00914	0.1476	-2.04E-07	0.09305	1374447.	-0.1397	79233.	0.00
11.4000	3.12E-07	0.03586	0.1213	-2.01E-07	0.3653	1374447.	-0.1236	79233.	0.00
11.6000	2.72E-07	0.05764	0.09812	-1.94E-07	0.5871	1374447.	-0.1079	79233.	0.00
11.8000	2.34E-07	0.07511	0.07804	-1.84E-07	0.7650	1374447.	-0.09289	79233.	0.00
12.0000	1.99E-07	0.08886	0.05847	-1.72E-07	0.9051	1374447.	-0.1028	103488.	0.00
12.2000	1.66E-07	0.09849	0.03694	-1.59E-07	1.0033	1374447.	-0.1125	135828.	0.00

12.4000	1.35E-07	0.1036	0.01650	-1.44E-07	1.0556	1374447.	-0.09191	135828.	0.00
12.6000	1.08E-07	0.1051	-3.17E-05	-1.29E-07	1.0705	1374447.	-0.07340	135828.	0.00
12.8000	8.39E-08	0.1036	-0.01307	-1.13E-07	1.0555	1374447.	-0.05697	135828.	0.00
13.0000	6.27E-08	0.09987	-0.02302	-9.86E-08	1.0172	1374447.	-0.04258	135828.	0.00
13.2000	4.44E-08	0.09441	-0.03030	-8.45E-08	0.9617	1374447.	-0.03017	135828.	0.00
13.4000	2.89E-08	0.08775	-0.03528	-7.12E-08	0.8938	1374447.	-0.01963	135828.	0.00
13.6000	1.59E-08	0.08030	-0.03832	-5.90E-08	0.8179	1374447.	-0.01082	135828.	0.00
13.8000	5.29E-09	0.07242	-0.03976	-4.79E-08	0.7376	1374447.	-0.00359	135828.	0.00
14.0000	-3.24E-09	0.06439	-0.03990	-3.80E-08	0.6559	1374447.	0.00220	135828.	0.00
14.2000	-9.89E-09	0.05646	-0.03901	-2.92E-08	0.5751	1374447.	0.00672	135828.	0.00
14.4000	-1.49E-08	0.04879	-0.03733	-2.15E-08	0.4970	1374447.	0.01012	135828.	0.00
14.6000	-1.85E-08	0.04153	-0.03506	-1.49E-08	0.4230	1374447.	0.01256	135828.	0.00
14.8000	-2.09E-08	0.03476	-0.03239	-9.39E-09	0.3541	1374447.	0.01418	135828.	0.00
15.0000	-2.22E-08	0.02857	-0.02946	-4.78E-09	0.2910	1374447.	0.01511	135828.	0.00
15.2000	-2.28E-08	0.02298	-0.02640	-1.03E-09	0.2341	1374447.	0.01548	135828.	0.00
15.4000	-2.27E-08	0.01801	-0.02331	1.96E-09	0.1835	1374447.	0.01539	135828.	0.00
15.6000	-2.20E-08	0.01366	-0.02028	4.26E-09	0.1391	1374447.	0.01494	135828.	0.00
15.8000	-2.10E-08	0.00990	-0.01736	5.97E-09	0.1008	1374447.	0.01423	135828.	0.00
16.0000	-1.96E-08	0.00671	-0.01461	7.18E-09	0.06837	1374447.	0.01332	135828.	0.00
16.2000	-1.81E-08	0.00406	-0.01205	7.97E-09	0.04133	1374447.	0.01228	135828.	0.00
16.4000	-1.64E-08	0.00189	-0.00970	8.40E-09	0.01929	1374447.	0.01116	135828.	0.00
16.6000	-1.47E-08	1.77E-04	-0.00759	8.55E-09	0.00180	1374447.	0.01000	135828.	0.00
16.8000	-1.30E-08	-0.00114	-0.00570	8.48E-09	0.01162	1374447.	0.00883	135828.	0.00
17.0000	-1.13E-08	-0.00210	-0.00405	8.24E-09	0.02144	1374447.	0.00769	135828.	0.00
17.2000	-9.71E-09	-0.00276	-0.00262	7.89E-09	0.02812	1374447.	0.00659	135828.	0.00
17.4000	-8.17E-09	-0.00315	-0.00141	7.46E-09	0.03212	1374447.	0.00555	135828.	0.00
17.6000	-6.73E-09	-0.00332	-3.95E-04	6.99E-09	0.03386	1374447.	0.00457	135828.	0.00
17.8000	-5.38E-09	-0.00331	4.27E-04	6.51E-09	0.03373	1374447.	0.00365	135828.	0.00
18.0000	-4.12E-09	-0.00315	0.00107	6.04E-09	0.03212	1374447.	0.00280	135828.	0.00
18.2000	-2.96E-09	-0.00288	0.00155	5.60E-09	0.02937	1374447.	0.00201	135828.	0.00
18.4000	-1.89E-09	-0.00253	0.00188	5.20E-09	0.02579	1374447.	0.00128	135828.	0.00
18.6000	-8.82E-10	-0.00213	0.00207	4.86E-09	0.02170	1374447.	5.99E-04	135828.	0.00
18.8000	5.92E-11	-0.00170	0.00213	4.58E-09	0.01735	1374447.	-4.02E-05	135828.	0.00
19.0000	9.51E-10	-0.00128	0.00206	4.37E-09	0.01303	1374447.	-6.46E-04	135828.	0.00
19.2000	1.81E-09	-8.81E-04	0.00187	4.21E-09	0.00897	1374447.	-0.00123	135828.	0.00
19.4000	2.64E-09	-5.31E-04	0.00157	4.11E-09	0.00541	1374447.	-0.00179	135828.	0.00
19.6000	3.45E-09	-2.53E-04	0.00116	4.05E-09	0.00258	1374447.	-0.00234	135828.	0.00
19.8000	4.26E-09	-6.87E-05	6.33E-04	4.03E-09	7.00E-04	1374447.	-0.00289	135828.	0.00
20.0000	5.06E-09	0.00	0.00	4.02E-09	0.00	1374447.	-0.00344	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 2:

Pile-head deflection = 0.00058341 meters
Computed slope at pile head = -0.00024409 radians
Maximum bending moment = 98.88753098 kN-m
Maximum shear force = 80.00000000 kN
Depth of maximum bending moment = 2.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 9
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 3

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 120.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	9.88E-04	-1.49E-11	120.0000	-3.99E-04	1.52E-10	1374447.	0.00	0.00	0.00
0.2000	9.08E-04	24.0000	117.5339	-3.98E-04	244.4620	1374447.	-24.6605	5429.	0.00
0.4000	8.29E-04	47.0136	110.6934	-3.92E-04	478.8764	1374447.	-43.7445	10549.	0.00
0.6000	7.52E-04	68.2774	101.3833	-3.84E-04	695.4677	1374447.	-49.3565	13135.	0.00
0.8000	6.76E-04	87.5669	91.0361	-3.73E-04	891.9493	1374447.	-54.1162	16017.	0.00
1.0000	6.03E-04	104.6918	79.8238	-3.59E-04	1066.	1374447.	-58.0060	19255.	0.00
1.2000	5.32E-04	119.4965	67.9218	-3.42E-04	1217.	1374447.	-61.0143	22925.	0.00
1.4000	4.66E-04	131.8605	55.5070	-3.24E-04	1343.	1374447.	-63.1340	27120.	0.00
1.6000	4.03E-04	141.6992	42.7573	-3.04E-04	1443.	1374447.	-64.3625	31966.	0.00
1.8000	3.44E-04	148.9635	29.8511	-2.83E-04	1517.	1374447.	-64.7002	37623.	0.00
2.0000	2.90E-04	153.6397	16.9662	-2.61E-04	1565.	1374447.	-64.1487	44315.	0.00
2.2000	2.40E-04	155.7499	4.2805	-2.38E-04	1586.	1374447.	-62.7078	52354.	0.00
2.4000	1.94E-04	155.3519	-8.0274	-2.16E-04	1582.	1374447.	-60.3715	62196.	0.00
2.6000	1.53E-04	152.5390	-19.4718	-1.93E-04	1554.	1374447.	-54.0725	70576.	0.00
2.8000	1.17E-04	147.5632	-29.3166	-1.72E-04	1503.	1374447.	-44.3755	76005.	0.00
3.0000	8.46E-05	140.8123	-37.1989	-1.51E-04	1434.	1374447.	-34.4476	81434.	0.00
3.2000	5.65E-05	132.6836	-43.0990	-1.31E-04	1352.	1374447.	-24.5532	86863.	0.00

3.4000	3.23E-05	123.5727	-47.0460	-1.12E-04	1259.	1374447.	-14.9168	92292.	0.00
3.6000	1.17E-05	113.8652	-49.1100	-9.48E-05	1160.	1374447.	-5.7233	97721.	0.00
3.8000	-5.58E-06	103.9287	-49.3943	-7.89E-05	1059.	1374447.	2.8801	103150.	0.00
4.0000	-1.99E-05	94.1075	-48.0283	-6.45E-05	958.5708	1374447.	10.7805	108579.	0.00
4.2000	-3.14E-05	84.7174	-45.1608	-5.15E-05	862.9246	1374447.	17.8946	114008.	0.00
4.4000	-4.05E-05	76.0432	-42.5474	-3.98E-05	774.5693	1374447.	8.2393	40727.	0.00
4.6000	-4.73E-05	67.6985	-40.8293	-2.94E-05	689.5710	1374447.	8.9410	37792.	0.00
4.8000	-5.22E-05	59.7114	-38.9845	-2.01E-05	608.2156	1374447.	9.5079	36427.	0.00
5.0000	-5.54E-05	52.1047	-37.0367	-1.19E-05	530.7340	1374447.	9.9698	36024.	0.00
5.2000	-5.70E-05	44.8967	-35.0053	-4.89E-06	457.3145	1374447.	10.3440	36306.	0.00
5.4000	-5.73E-05	38.1026	-32.9068	1.15E-06	388.1095	1374447.	10.6415	37139.	0.00
5.6000	-5.65E-05	31.7340	-30.7557	6.23E-06	323.2403	1374447.	10.8694	38460.	0.00
5.8000	-5.48E-05	25.8003	-28.5654	1.04E-05	262.7996	1374447.	11.0328	40254.	0.00
6.0000	-5.24E-05	20.3079	-26.3486	1.38E-05	206.8542	1374447.	11.1352	42536.	0.00
6.2000	-4.93E-05	15.2608	-24.1172	1.64E-05	155.4456	1374447.	11.1795	45346.	0.00
6.4000	-4.58E-05	10.6610	-21.8825	1.82E-05	108.5920	1374447.	11.1674	48751.	0.00
6.6000	-4.20E-05	6.5078	-19.6557	1.95E-05	66.2884	1374447.	11.1008	52848.	0.00
6.8000	-3.80E-05	2.7987	-17.4475	2.02E-05	28.5076	1374447.	10.9808	57767.	0.00
7.0000	-3.39E-05	-0.4712	-15.2686	2.03E-05	4.7991	1374447.	10.8084	63686.	0.00
7.2000	-2.99E-05	-3.3087	-13.1293	2.01E-05	33.7021	1374447.	10.5845	70843.	0.00
7.4000	-2.59E-05	-5.7229	-11.0398	1.94E-05	58.2926	1374447.	10.3099	79560.	0.00
7.6000	-2.21E-05	-7.7246	-9.0103	1.84E-05	78.6825	1374447.	9.9851	90284.	0.00
7.8000	-1.85E-05	-9.3270	-7.0508	1.72E-05	95.0041	1374447.	9.6107	103642.	0.00
8.0000	-1.52E-05	-10.5449	-5.0264	1.57E-05	107.4099	1374447.	10.6327	139499.	0.00
8.2000	-1.22E-05	-11.3376	-2.9738	1.41E-05	115.4836	1374447.	9.8938	161542.	0.00
8.4000	-9.58E-06	-11.7345	-1.0715	1.25E-05	119.5261	1374447.	9.1287	190493.	0.00
8.6000	-7.26E-06	-11.7662	0.6752	1.08E-05	119.8493	1374447.	8.3381	229673.	0.00
8.8000	-5.28E-06	-11.4644	2.2611	9.07E-06	116.7753	1374447.	7.5211	284900.	0.00
9.0000	-3.63E-06	-10.8618	3.6806	7.45E-06	110.6369	1374447.	6.6741	367478.	0.00
9.2000	-2.30E-06	-9.9921	4.9268	5.93E-06	101.7792	1374447.	5.7880	503056.	0.00
9.4000	-1.26E-06	-8.8910	5.9897	4.56E-06	90.5633	1374447.	4.8410	768021.	0.00
9.6000	-4.79E-07	-7.5963	6.4928	3.36E-06	77.3749	1374447.	0.1897	79233.	0.00
9.8000	8.17E-08	-6.2939	6.5085	2.35E-06	64.1093	1374447.	-0.03239	79233.	0.00
10.0000	4.59E-07	-4.9929	6.2050	1.52E-06	50.8569	1374447.	-3.0031	1307864.	0.00
10.2000	6.91E-07	-3.8119	5.5446	8.84E-07	38.8280	1374447.	-3.6002	1041387.	0.00
10.4000	8.13E-07	-2.7750	4.7954	4.04E-07	28.2660	1374447.	-3.8919	957798.	0.00
10.6000	8.53E-07	-1.8938	4.0024	6.46E-08	19.2897	1374447.	-4.0381	946618.	0.00
10.8000	8.39E-07	-1.1740	3.1879	-1.59E-07	11.9587	1374447.	-4.1070	979569.	0.00
11.0000	7.90E-07	-0.6186	2.3632	-2.89E-07	6.3010	1374447.	-4.1401	1048479.	0.00
11.2000	7.23E-07	-0.2288	1.5324	-3.51E-07	2.3301	1374447.	-4.1681	1153100.	0.00
11.4000	6.49E-07	-0.00564	0.6941	-3.68E-07	0.05740	1374447.	-4.2148	1297888.	0.00
11.6000	5.76E-07	0.04889	0.2498	-3.65E-07	0.4980	1374447.	-0.2281	79233.	0.00
11.8000	5.04E-07	0.09429	0.2071	-3.54E-07	0.9604	1374447.	-0.1995	79233.	0.00
12.0000	4.34E-07	0.1317	0.1646	-3.38E-07	1.3416	1374447.	-0.2247	103488.	0.00

12.2000	3.69E-07	0.1601	0.1171	-3.16E-07	1.6312	1374447.	-0.2503	135828.	0.00
12.4000	3.08E-07	0.1786	0.07120	-2.92E-07	1.8188	1374447.	-0.2089	135828.	0.00
12.6000	2.52E-07	0.1886	0.03320	-2.65E-07	1.9213	1374447.	-0.1711	135828.	0.00
12.8000	2.02E-07	0.1918	0.00240	-2.37E-07	1.9541	1374447.	-0.1369	135828.	0.00
13.0000	1.57E-07	0.1896	-0.02194	-2.10E-07	1.9311	1374447.	-0.1066	135828.	0.00
13.2000	1.18E-07	0.1831	-0.04060	-1.83E-07	1.8647	1374447.	-0.07997	135828.	0.00
13.4000	8.39E-08	0.1733	-0.05429	-1.57E-07	1.7657	1374447.	-0.05698	135828.	0.00
13.6000	5.51E-08	0.1613	-0.06373	-1.32E-07	1.6435	1374447.	-0.03743	135828.	0.00
13.8000	3.10E-08	0.1479	-0.06958	-1.10E-07	1.5060	1374447.	-0.02106	135828.	0.00
14.0000	1.12E-08	0.1335	-0.07245	-8.93E-08	1.3600	1374447.	-0.00761	135828.	0.00
14.2000	-4.71E-09	0.1189	-0.07289	-7.09E-08	1.2108	1374447.	0.00320	135828.	0.00
14.4000	-1.72E-08	0.1044	-0.07140	-5.47E-08	1.0630	1374447.	0.01166	135828.	0.00
14.6000	-2.66E-08	0.09031	-0.06843	-4.05E-08	0.9199	1374447.	0.01805	135828.	0.00
14.8000	-3.34E-08	0.07699	-0.06436	-2.83E-08	0.7842	1374447.	0.02266	135828.	0.00
15.0000	-3.79E-08	0.06457	-0.05952	-1.80E-08	0.6577	1374447.	0.02575	135828.	0.00
15.2000	-4.06E-08	0.05318	-0.05419	-9.48E-09	0.5417	1374447.	0.02757	135828.	0.00
15.4000	-4.17E-08	0.04289	-0.04860	-2.49E-09	0.4369	1374447.	0.02833	135828.	0.00
15.6000	-4.16E-08	0.03374	-0.04294	3.09E-09	0.3437	1374447.	0.02824	135828.	0.00
15.8000	-4.05E-08	0.02572	-0.03737	7.41E-09	0.2619	1374447.	0.02749	135828.	0.00
16.0000	-3.86E-08	0.01879	-0.03200	1.06E-08	0.1914	1374447.	0.02623	135828.	0.00
16.2000	-3.62E-08	0.01292	-0.02691	1.30E-08	0.1316	1374447.	0.02460	135828.	0.00
16.4000	-3.34E-08	0.00803	-0.02218	1.45E-08	0.08176	1374447.	0.02271	135828.	0.00
16.6000	-3.04E-08	0.00404	-0.01785	1.54E-08	0.04120	1374447.	0.02066	135828.	0.00
16.8000	-2.73E-08	8.89E-04	-0.01393	1.57E-08	0.00905	1374447.	0.01854	135828.	0.00
17.0000	-2.41E-08	-0.00153	-0.01043	1.57E-08	0.01554	1374447.	0.01639	135828.	0.00
17.2000	-2.10E-08	-0.00328	-0.00736	1.53E-08	0.03345	1374447.	0.01428	135828.	0.00
17.4000	-1.80E-08	-0.00447	-0.00471	1.48E-08	0.04555	1374447.	0.01223	135828.	0.00
17.6000	-1.51E-08	-0.00517	-0.00246	1.41E-08	0.05266	1374447.	0.01027	135828.	0.00
17.8000	-1.24E-08	-0.00546	-5.95E-04	1.33E-08	0.05559	1374447.	0.00841	135828.	0.00
18.0000	-9.81E-09	-0.00541	9.12E-04	1.25E-08	0.05508	1374447.	0.00666	135828.	0.00
18.2000	-7.39E-09	-0.00509	0.00208	1.17E-08	0.05187	1374447.	0.00502	135828.	0.00
18.4000	-5.12E-09	-0.00458	0.00293	1.10E-08	0.04661	1374447.	0.00348	135828.	0.00
18.6000	-2.98E-09	-0.00392	0.00348	1.04E-08	0.03993	1374447.	0.00202	135828.	0.00
18.8000	-9.57E-10	-0.00318	0.00375	9.89E-09	0.03243	1374447.	6.50E-04	135828.	0.00
19.0000	9.75E-10	-0.00242	0.00375	9.48E-09	0.02466	1374447.	-6.62E-04	135828.	0.00
19.2000	2.84E-09	-0.00169	0.00349	9.18E-09	0.01716	1374447.	-0.00193	135828.	0.00
19.4000	4.65E-09	-0.00103	0.00298	8.99E-09	0.01045	1374447.	-0.00316	135828.	0.00
19.6000	6.43E-09	-4.93E-04	0.00223	8.88E-09	0.00503	1374447.	-0.00437	135828.	0.00
19.8000	8.20E-09	-1.35E-04	0.00123	8.83E-09	0.00138	1374447.	-0.00557	135828.	0.00
20.0000	9.96E-09	0.00	0.00	8.82E-09	0.00	1374447.	-0.00677	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 3:

Pile-head deflection = 0.00098833 meters
Computed slope at pile head = -0.00039925 radians
Maximum bending moment = 155.74993204 kN-m
Maximum shear force = 120.00000000 kN
Depth of maximum bending moment = 2.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 8
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 4

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 200.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00204	4.47E-11	200.0000	-7.72E-04	4.55E-10	1374447.	0.00	0.00	0.00
0.2000	0.00188	40.0000	194.8836	-7.69E-04	407.4367	1374447.	-51.1639	5429.	0.00
0.4000	0.00173	77.9534	183.4463	-7.60E-04	794.0272	1374447.	-63.2086	7300.	0.00
0.6000	0.00158	113.3785	169.9677	-7.46E-04	1155.	1374447.	-71.5782	9056.	0.00
0.8000	0.00143	145.9405	154.9293	-7.28E-04	1487.	1374447.	-78.8056	10998.	0.00
1.0000	0.00129	175.3503	138.5623	-7.04E-04	1786.	1374447.	-84.8645	13160.	0.00
1.2000	0.00115	201.3654	121.1024	-6.77E-04	2051.	1374447.	-89.7342	15586.	0.00
1.4000	0.00102	223.7912	102.7890	-6.46E-04	2280.	1374447.	-93.3993	18331.	0.00
1.6000	8.93E-04	242.4810	83.8643	-6.12E-04	2470.	1374447.	-95.8486	21463.	0.00
1.8000	7.74E-04	257.3369	64.5720	-5.75E-04	2621.	1374447.	-97.0738	25074.	0.00
2.0000	6.63E-04	268.3098	45.1579	-5.37E-04	2733.	1374447.	-97.0676	29283.	0.00
2.2000	5.59E-04	275.4001	25.8691	-4.98E-04	2805.	1374447.	-95.8204	34258.	0.00
2.4000	4.64E-04	278.6575	6.9554	-4.57E-04	2838.	1374447.	-93.3160	40233.	0.00
2.6000	3.76E-04	278.1822	-11.3285	-4.17E-04	2834.	1374447.	-89.5235	47562.	0.00
2.8000	2.97E-04	274.1261	-28.7193	-3.77E-04	2792.	1374447.	-84.3839	56800.	0.00
3.0000	2.26E-04	266.6945	-44.9362	-3.37E-04	2717.	1374447.	-77.7856	68905.	0.00

3.2000	1.62E-04	256.1516	-59.4126	-2.99E-04	2609.	1374447.	-66.9781	82592.	0.00
3.4000	1.06E-04	242.9295	-71.0045	-2.63E-04	2474.	1374447.	-48.9415	92292.	0.00
3.6000	5.70E-05	227.7498	-78.6835	-2.29E-04	2320.	1374447.	-27.8483	97721.	0.00
3.8000	1.46E-05	211.4561	-82.2193	-1.97E-04	2154.	1374447.	-7.5101	103150.	0.00
4.0000	-2.17E-05	194.8621	-81.7912	-1.67E-04	1985.	1374447.	11.7910	108579.	0.00
4.2000	-5.23E-05	178.7396	-77.6292	-1.40E-04	1821.	1374447.	29.8290	114008.	0.00
4.4000	-7.77E-05	163.8104	-73.6220	-1.15E-04	1669.	1374447.	10.2429	26353.	0.00
4.6000	-9.84E-05	149.2908	-71.4566	-9.23E-05	1521.	1374447.	11.4113	23199.	0.00
4.8000	-1.15E-04	135.2277	-69.0796	-7.16E-05	1377.	1374447.	12.3590	21556.	0.00
5.0000	-1.27E-04	121.6590	-66.5287	-5.29E-05	1239.	1374447.	13.1499	20703.	0.00
5.2000	-1.36E-04	108.6162	-63.8320	-3.62E-05	1106.	1374447.	13.8175	20342.	0.00
5.4000	-1.42E-04	96.1262	-61.0120	-2.13E-05	979.1332	1374447.	14.3820	20327.	0.00
5.6000	-1.44E-04	84.2114	-58.0882	-8.18E-06	857.7704	1374447.	14.8561	20581.	0.00
5.8000	-1.45E-04	72.8909	-55.0778	3.25E-06	742.4605	1374447.	15.2484	21064.	0.00
6.0000	-1.43E-04	62.1803	-51.9964	1.31E-05	633.3634	1374447.	15.5650	21759.	0.00
6.2000	-1.40E-04	52.0923	-48.8589	2.14E-05	530.6080	1374447.	15.8101	22659.	0.00
6.4000	-1.35E-04	42.6367	-45.6792	2.83E-05	434.2942	1374447.	15.9869	23771.	0.00
6.6000	-1.28E-04	33.8206	-42.4707	3.38E-05	344.4941	1374447.	16.0979	25107.	0.00
6.8000	-1.21E-04	25.6484	-39.2465	3.82E-05	261.2528	1374447.	16.1449	26692.	0.00
7.0000	-1.13E-04	18.1220	-36.0190	4.14E-05	184.5896	1374447.	16.1294	28557.	0.00
7.2000	-1.04E-04	11.2408	-32.8009	4.35E-05	114.4981	1374447.	16.0525	30744.	0.00
7.4000	-9.56E-05	5.0017	-29.6041	4.47E-05	50.9469	1374447.	15.9153	33308.	0.00
7.6000	-8.66E-05	-0.6008	-26.4407	4.50E-05	6.1198	1374447.	15.7185	36321.	0.00
7.8000	-7.76E-05	-5.5746	-23.3226	4.45E-05	56.7823	1374447.	15.4629	39872.	0.00
8.0000	-6.87E-05	-9.9298	-20.0230	4.34E-05	101.1445	1374447.	17.5328	51016.	0.00
8.2000	-6.02E-05	-13.5838	-16.5920	4.17E-05	138.3633	1374447.	16.7768	55742.	0.00
8.4000	-5.20E-05	-16.5667	-13.3157	3.95E-05	168.7466	1374447.	15.9861	61426.	0.00
8.6000	-4.44E-05	-18.9101	-10.2008	3.69E-05	192.6165	1374447.	15.1630	68322.	0.00
8.8000	-3.73E-05	-20.6470	-7.2536	3.41E-05	210.3085	1374447.	14.3095	76778.	0.00
9.0000	-3.08E-05	-21.8115	-4.4799	3.10E-05	222.1703	1374447.	13.4269	87290.	0.00
9.2000	-2.49E-05	-22.4390	-1.8856	2.77E-05	228.5615	1374447.	12.5163	100583.	0.00
9.4000	-1.97E-05	-22.5658	0.5238	2.45E-05	229.8530	1374447.	11.5775	117753.	0.00
9.6000	-1.51E-05	-22.2295	2.7424	2.12E-05	226.4275	1374447.	10.6093	140546.	0.00
9.8000	-1.12E-05	-21.4688	4.7642	1.80E-05	218.6793	1374447.	9.6080	171916.	0.00
10.0000	-7.88E-06	-20.3238	6.5816	1.50E-05	207.0164	1374447.	8.5659	217337.	0.00
10.2000	-5.18E-06	-18.8362	8.1848	1.21E-05	191.8635	1374447.	7.4666	288335.	0.00
10.4000	-3.02E-06	-17.0499	9.5588	9.54E-06	173.6685	1374447.	6.2731	414913.	0.00
10.6000	-1.36E-06	-15.0126	10.6743	7.20E-06	152.9175	1374447.	4.8823	715503.	0.00
10.8000	-1.43E-07	-12.7801	11.1682	5.18E-06	130.1773	1374447.	0.05646	79233.	0.00
11.0000	7.08E-07	-10.5454	10.8079	3.48E-06	107.4141	1374447.	-3.6597	1034154.	0.00
11.2000	1.25E-06	-8.4570	9.9901	2.10E-06	86.1420	1374447.	-4.5178	722189.	0.00
11.4000	1.55E-06	-6.5493	9.0502	1.01E-06	66.7106	1374447.	-4.8820	630597.	0.00
11.6000	1.66E-06	-4.8369	8.0612	1.81E-07	49.2683	1374447.	-5.0081	605203.	0.00
11.8000	1.62E-06	-3.3248	7.0619	-4.12E-07	33.8665	1374447.	-4.9842	614986.	0.00

12.0000	1.49E-06	-2.0121	5.9835	-8.01E-07	20.4955	1374447.	-5.8004	778558.	0.00
12.2000	1.30E-06	-0.9315	4.7459	-1.01E-06	9.4877	1374447.	-6.5752	1011107.	0.00
12.4000	1.08E-06	-0.1138	3.4686	-1.09E-06	1.1589	1374447.	-6.1980	1143502.	0.00
12.6000	8.64E-07	0.4560	2.2729	-1.07E-06	4.6446	1374447.	-5.7584	1332662.	0.00
12.8000	6.58E-07	0.7954	1.1700	-9.75E-07	8.1019	1374447.	-5.2710	1603099.	0.00
13.0000	4.74E-07	0.9240	0.1684	-8.50E-07	9.4116	1374447.	-4.7449	2001366.	0.00
13.2000	3.18E-07	0.8628	-0.3276	-7.20E-07	8.7881	1374447.	-0.2157	135828.	0.00
13.4000	1.86E-07	0.7929	-0.3619	-6.00E-07	8.0767	1374447.	-0.1264	135828.	0.00
13.6000	7.78E-08	0.7180	-0.3798	-4.90E-07	7.3138	1374447.	-0.05285	135828.	0.00
13.8000	-9.65E-09	0.6410	-0.3844	-3.91E-07	6.5293	1374447.	0.00656	135828.	0.00
14.0000	-7.85E-08	0.5643	-0.3784	-3.03E-07	5.7475	1374447.	0.05329	135828.	0.00
14.2000	-1.31E-07	0.4896	-0.3642	-2.26E-07	4.9874	1374447.	0.08887	135828.	0.00
14.4000	-1.69E-07	0.4186	-0.3439	-1.60E-07	4.2636	1374447.	0.1148	135828.	0.00
14.6000	-1.95E-07	0.3521	-0.3191	-1.04E-07	3.5865	1374447.	0.1324	135828.	0.00
14.8000	-2.11E-07	0.2909	-0.2916	-5.74E-08	2.9633	1374447.	0.1431	135828.	0.00
15.0000	-2.18E-07	0.2355	-0.2625	-1.91E-08	2.3984	1374447.	0.1480	135828.	0.00
15.2000	-2.18E-07	0.1859	-0.2329	1.16E-08	1.8939	1374447.	0.1483	135828.	0.00
15.4000	-2.13E-07	0.1423	-0.2035	3.54E-08	1.4497	1374447.	0.1448	135828.	0.00
15.6000	-2.04E-07	0.1045	-0.1752	5.34E-08	1.0645	1374447.	0.1386	135828.	0.00
15.8000	-1.92E-07	0.07224	-0.1483	6.63E-08	0.7359	1374447.	0.1303	135828.	0.00
16.0000	-1.78E-07	0.04519	-0.1232	7.48E-08	0.4603	1374447.	0.1206	135828.	0.00
16.2000	-1.62E-07	0.02296	-0.1001	7.98E-08	0.2339	1374447.	0.1100	135828.	0.00
16.4000	-1.46E-07	0.00513	-0.07924	8.18E-08	0.05229	1374447.	0.09896	135828.	0.00
16.6000	-1.29E-07	-0.00874	-0.06057	8.16E-08	0.08899	1374447.	0.08779	135828.	0.00
16.8000	-1.13E-07	-0.01909	-0.04411	7.95E-08	0.1945	1374447.	0.07680	135828.	0.00
17.0000	-9.75E-08	-0.02638	-0.02981	7.62E-08	0.2687	1374447.	0.06619	135828.	0.00
17.2000	-8.26E-08	-0.03102	-0.01758	7.20E-08	0.3160	1374447.	0.05610	135828.	0.00
17.4000	-6.86E-08	-0.03341	-0.00731	6.74E-08	0.3403	1374447.	0.04662	135828.	0.00
17.6000	-5.57E-08	-0.03394	0.00113	6.25E-08	0.3457	1374447.	0.03780	135828.	0.00
17.8000	-4.37E-08	-0.03296	0.00788	5.76E-08	0.3357	1374447.	0.02965	135828.	0.00
18.0000	-3.26E-08	-0.03079	0.01306	5.29E-08	0.3137	1374447.	0.02216	135828.	0.00
18.2000	-2.25E-08	-0.02774	0.01680	4.87E-08	0.2825	1374447.	0.01527	135828.	0.00
18.4000	-1.31E-08	-0.02407	0.01922	4.49E-08	0.2452	1374447.	0.00893	135828.	0.00
18.6000	-4.51E-09	-0.02005	0.02042	4.17E-08	0.2042	1374447.	0.00307	135828.	0.00
18.8000	3.54E-09	-0.01591	0.02048	3.91E-08	0.1620	1374447.	-0.00240	135828.	0.00
19.0000	1.11E-08	-0.01186	0.01949	3.71E-08	0.1208	1374447.	-0.00755	135828.	0.00
19.2000	1.84E-08	-0.00811	0.01749	3.56E-08	0.08262	1374447.	-0.01247	135828.	0.00
19.4000	2.54E-08	-0.00486	0.01451	3.47E-08	0.04954	1374447.	-0.01723	135828.	0.00
19.6000	3.22E-08	-0.00230	0.01060	3.42E-08	0.02348	1374447.	-0.02189	135828.	0.00
19.8000	3.90E-08	-6.22E-04	0.00576	3.39E-08	0.00634	1374447.	-0.02651	135828.	0.00
20.0000	4.58E-08	0.00	0.00	3.39E-08	0.00	1374447.	-0.03111	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 4:

Pile-head deflection = 0.00203922 meters
Computed slope at pile head = -0.00077178 radians
Maximum bending moment = 278.65747356 kN-m
Maximum shear force = 200.00000000 kN
Depth of maximum bending moment = 2.40000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 11
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 5

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 250.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00284	-4.47E-11	250.0000	-0.00104	4.55E-10	1374447.	0.00	0.00	0.00
0.2000	0.00263	50.0000	243.8981	-0.00104	509.2958	1374447.	-61.0188	4639.	0.00
0.4000	0.00242	97.5592	230.3257	-0.00103	993.7303	1374447.	-74.7055	6163.	0.00
0.6000	0.00222	142.1303	214.3716	-0.00101	1448.	1374447.	-84.8352	7641.	0.00
0.8000	0.00202	183.3079	196.5298	-9.84E-04	1867.	1374447.	-93.5827	9261.	0.00
1.0000	0.00183	220.7422	177.0717	-9.55E-04	2248.	1374447.	-100.9985	11058.	0.00
1.2000	0.00164	254.1366	156.2661	-9.20E-04	2589.	1374447.	-107.0577	13064.	0.00
1.4000	0.00146	283.2486	134.3862	-8.81E-04	2885.	1374447.	-111.7406	15322.	0.00
1.6000	0.00129	307.8911	111.7090	-8.38E-04	3136.	1374447.	-115.0317	17884.	0.00
1.8000	0.00112	327.9322	88.5140	-7.92E-04	3340.	1374447.	-116.9188	20818.	0.00
2.0000	9.70E-04	343.2967	65.0830	-7.43E-04	3497.	1374447.	-117.3904	24214.	0.00
2.2000	8.26E-04	353.9655	41.7007	-6.92E-04	3605.	1374447.	-116.4329	28193.	0.00
2.4000	6.93E-04	359.9769	18.6549	-6.41E-04	3667.	1374447.	-114.0258	32926.	0.00
2.6000	5.70E-04	361.4274	-3.7612	-5.88E-04	3681.	1374447.	-110.1344	38661.	0.00
2.8000	4.57E-04	358.4725	-25.2443	-5.36E-04	3651.	1374447.	-104.6972	45780.	0.00

3.0000	3.55E-04	351.3297	-45.4744	-4.84E-04	3579.	1374447.	-97.6031	54915.	0.00
3.2000	2.64E-04	340.2827	-63.7763	-4.34E-04	3466.	1374447.	-85.4164	64764.	0.00
3.4000	1.82E-04	325.8191	-79.4127	-3.85E-04	3319.	1374447.	-70.9472	77971.	0.00
3.6000	1.10E-04	308.5177	-91.8661	-3.39E-04	3143.	1374447.	-53.5874	97721.	0.00
3.8000	4.63E-05	289.0727	-99.6150	-2.96E-04	2944.	1374447.	-23.9015	103150.	0.00
4.0000	-8.57E-06	268.6717	-101.5396	-2.55E-04	2737.	1374447.	4.6553	108579.	0.00
4.2000	-5.57E-05	248.4568	-97.9005	-2.17E-04	2531.	1374447.	31.7364	114008.	0.00
4.4000	-9.55E-05	229.5115	-93.6296	-1.83E-04	2338.	1374447.	10.9718	22967.	0.00
4.6000	-1.29E-04	211.0050	-91.2843	-1.51E-04	2149.	1374447.	12.4812	19391.	0.00
4.8000	-1.56E-04	192.9978	-88.6675	-1.21E-04	1966.	1374447.	13.6875	17573.	0.00
5.0000	-1.77E-04	175.5380	-85.8294	-9.44E-05	1788.	1374447.	14.6927	16582.	0.00
5.2000	-1.94E-04	158.6660	-82.8055	-7.01E-05	1616.	1374447.	15.5470	16066.	0.00
5.4000	-2.05E-04	142.4158	-79.6229	-4.82E-05	1451.	1374447.	16.2789	15863.	0.00
5.6000	-2.13E-04	126.8168	-76.3044	-2.86E-05	1292.	1374447.	16.9063	15889.	0.00
5.8000	-2.17E-04	111.8941	-72.8697	-1.12E-05	1140.	1374447.	17.4407	16099.	0.00
6.0000	-2.17E-04	97.6690	-69.3366	4.04E-06	994.8479	1374447.	17.8901	16467.	0.00
6.2000	-2.15E-04	84.1594	-65.7215	1.73E-05	857.2411	1374447.	18.2603	16982.	0.00
6.4000	-2.10E-04	71.3803	-62.0400	2.86E-05	727.0742	1374447.	18.5555	17640.	0.00
6.6000	-2.04E-04	59.3435	-58.3066	3.81E-05	604.4675	1374447.	18.7786	18445.	0.00
6.8000	-1.95E-04	48.0577	-54.5355	4.59E-05	489.5119	1374447.	18.9323	19404.	0.00
7.0000	-1.85E-04	37.5293	-50.7404	5.21E-05	382.2700	1374447.	19.0182	20532.	0.00
7.2000	-1.74E-04	27.7616	-46.9348	5.69E-05	282.7768	1374447.	19.0379	21847.	0.00
7.4000	-1.63E-04	18.7553	-43.1318	6.03E-05	191.0404	1374447.	18.9926	23375.	0.00
7.6000	-1.50E-04	10.5088	-39.3442	6.24E-05	107.0422	1374447.	18.8834	25148.	0.00
7.8000	-1.38E-04	3.0177	-35.5847	6.34E-05	30.7379	1374447.	18.7111	27208.	0.00
8.0000	-1.25E-04	-3.7250	-31.5752	6.33E-05	37.9429	1374447.	21.3836	34263.	0.00
8.2000	-1.12E-04	-9.6124	-27.3729	6.24E-05	97.9112	1374447.	20.6394	36787.	0.00
8.4000	-9.99E-05	-14.6742	-23.3234	6.06E-05	149.4702	1374447.	19.8558	39761.	0.00
8.6000	-8.80E-05	-18.9418	-19.4343	5.81E-05	192.9393	1374447.	19.0354	43277.	0.00
8.8000	-7.66E-05	-22.4479	-15.7127	5.51E-05	228.6526	1374447.	18.1809	47460.	0.00
9.0000	-6.59E-05	-25.2268	-12.1651	5.17E-05	256.9584	1374447.	17.2945	52475.	0.00
9.2000	-5.59E-05	-27.3140	-8.7979	4.78E-05	278.2178	1374447.	16.3779	58546.	0.00
9.4000	-4.68E-05	-28.7460	-5.6168	4.38E-05	292.8042	1374447.	15.4326	65984.	0.00
9.6000	-3.84E-05	-29.5607	-2.6276	3.95E-05	301.1029	1374447.	14.4594	75229.	0.00
9.8000	-3.10E-05	-29.7970	0.1642	3.52E-05	303.5102	1374447.	13.4587	86926.	0.00
10.0000	-2.44E-05	-29.4950	2.7530	3.09E-05	300.4340	1374447.	12.4296	102057.	0.00
10.2000	-1.86E-05	-28.6958	5.1329	2.67E-05	292.2935	1374447.	11.3696	122198.	0.00
10.4000	-1.37E-05	-27.4419	7.2972	2.26E-05	279.5206	1374447.	10.2737	150045.	0.00
10.6000	-9.58E-06	-25.7769	9.2377	1.87E-05	262.5618	1374447.	9.1313	190666.	0.00
10.8000	-6.21E-06	-23.7468	10.9430	1.51E-05	241.8826	1374447.	7.9211	254996.	0.00
11.0000	-3.54E-06	-21.3997	12.3945	1.18E-05	217.9760	1374447.	6.5938	372716.	0.00
11.2000	-1.49E-06	-18.7890	13.5541	8.89E-06	191.3829	1374447.	5.0028	673108.	0.00
11.4000	1.84E-08	-15.9781	14.0537	6.36E-06	162.7515	1374447.	-0.00730	79233.	0.00
11.6000	1.06E-06	-13.1675	13.6277	4.24E-06	134.1230	1374447.	-4.2528	803660.	0.00

11.8000	1.72E-06	-10.5270	12.6971	2.52E-06	107.2273	1374447.	-5.0533	589288.	0.00
12.0000	2.07E-06	-8.0887	11.5470	1.16E-06	82.3905	1374447.	-6.4477	624352.	0.00
12.2000	2.18E-06	-5.9082	10.1236	1.45E-07	60.1807	1374447.	-7.7862	714212.	0.00
12.4000	2.12E-06	-4.0392	8.5731	-5.79E-07	41.1433	1374447.	-7.7185	727010.	0.00
12.6000	1.95E-06	-2.4790	7.0520	-1.05E-06	25.2508	1374447.	-7.4923	768907.	0.00
12.8000	1.70E-06	-1.2184	5.5887	-1.32E-06	12.4108	1374447.	-7.1415	839135.	0.00
13.0000	1.42E-06	-0.2435	4.2059	-1.43E-06	2.4805	1374447.	-6.6865	941798.	0.00
13.2000	1.13E-06	0.4639	2.9234	-1.41E-06	4.7254	1374447.	-6.1381	1085719.	0.00
13.4000	8.55E-07	0.9258	1.7597	-1.31E-06	9.4304	1374447.	-5.4986	1286287.	0.00
13.6000	6.06E-07	1.1678	0.7338	-1.16E-06	11.8951	1374447.	-4.7606	1570724.	0.00
13.8000	3.91E-07	1.2193	-0.1324	-9.85E-07	12.4201	1374447.	-3.9012	1993676.	0.00
14.0000	2.12E-07	1.1148	-0.5369	-8.16E-07	11.3557	1374447.	-0.1440	135828.	0.00
14.2000	6.51E-08	1.0046	-0.5557	-6.61E-07	10.2326	1374447.	-0.04424	135828.	0.00
14.4000	-5.25E-08	0.8925	-0.5566	-5.23E-07	9.0914	1374447.	0.03566	135828.	0.00
14.6000	-1.44E-07	0.7819	-0.5432	-4.01E-07	7.9648	1374447.	0.09791	135828.	0.00
14.8000	-2.13E-07	0.6753	-0.5190	-2.95E-07	6.8781	1374447.	0.1447	135828.	0.00
15.0000	-2.62E-07	0.5744	-0.4867	-2.05E-07	5.8503	1374447.	0.1782	135828.	0.00
15.2000	-2.95E-07	0.4806	-0.4488	-1.28E-07	4.8952	1374447.	0.2003	135828.	0.00
15.4000	-3.13E-07	0.3948	-0.4075	-6.41E-08	4.0216	1374447.	0.2129	135828.	0.00
15.6000	-3.21E-07	0.3176	-0.3645	-1.22E-08	3.2348	1374447.	0.2177	135828.	0.00
15.8000	-3.18E-07	0.2490	-0.3211	2.90E-08	2.5366	1374447.	0.2162	135828.	0.00
16.0000	-3.09E-07	0.1891	-0.2785	6.09E-08	1.9266	1374447.	0.2098	135828.	0.00
16.2000	-2.94E-07	0.1376	-0.2375	8.46E-08	1.4020	1374447.	0.1997	135828.	0.00
16.4000	-2.75E-07	0.09413	-0.1989	1.01E-07	0.9588	1374447.	0.1868	135828.	0.00
16.6000	-2.53E-07	0.05809	-0.1630	1.13E-07	0.5917	1374447.	0.1721	135828.	0.00
16.8000	-2.30E-07	0.02894	-0.1302	1.19E-07	0.2947	1374447.	0.1562	135828.	0.00
17.0000	-2.06E-07	0.00603	-0.1006	1.21E-07	0.06141	1374447.	0.1398	135828.	0.00
17.2000	-1.81E-07	-0.01129	-0.07425	1.21E-07	0.1150	1374447.	0.1232	135828.	0.00
17.4000	-1.57E-07	-0.02367	-0.05123	1.19E-07	0.2411	1374447.	0.1069	135828.	0.00
17.6000	-1.34E-07	-0.03178	-0.03144	1.14E-07	0.3237	1374447.	0.09104	135828.	0.00
17.8000	-1.12E-07	-0.03625	-0.01475	1.10E-07	0.3692	1374447.	0.07581	135828.	0.00
18.0000	-9.02E-08	-0.03768	-0.00105	1.04E-07	0.3838	1374447.	0.06129	135828.	0.00
18.2000	-7.00E-08	-0.03666	0.00983	9.88E-08	0.3735	1374447.	0.04751	135828.	0.00
18.4000	-5.07E-08	-0.03375	0.01803	9.36E-08	0.3438	1374447.	0.03446	135828.	0.00
18.6000	-3.25E-08	-0.02945	0.02368	8.90E-08	0.3000	1374447.	0.02207	135828.	0.00
18.8000	-1.51E-08	-0.02427	0.02692	8.51E-08	0.2473	1374447.	0.01027	135828.	0.00
19.0000	1.55E-09	-0.01869	0.02784	8.20E-08	0.1903	1374447.	-0.00105	135828.	0.00
19.2000	1.77E-08	-0.01314	0.02654	7.97E-08	0.1338	1374447.	-0.01200	135828.	0.00
19.4000	3.34E-08	-0.00807	0.02307	7.81E-08	0.08221	1374447.	-0.02270	135828.	0.00
19.6000	4.89E-08	-0.00391	0.01747	7.73E-08	0.03985	1374447.	-0.03323	135828.	0.00
19.8000	6.43E-08	-0.00108	0.00978	7.69E-08	0.01103	1374447.	-0.04369	135828.	0.00
20.0000	7.97E-08	0.00	0.00	7.68E-08	0.00	1374447.	-0.05412	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 5:

Pile-head deflection = 0.00283866 meters
Computed slope at pile head = -0.00103986 radians
Maximum bending moment = 361.42740208 kN-m
Maximum shear force = 250.00000000 kN
Depth of maximum bending moment = 2.60000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 12
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 6

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 600.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.01207	-7.15E-10	600.0000	-0.00374	7.29E-09	1374447.	0.00	0.00	0.00
0.2000	0.01132	120.0000	594.4349	-0.00373	1222.	1374447.	-55.6511	982.8798	0.00
0.4000	0.01058	237.7740	579.7858	-0.00371	2422.	1374447.	-90.8399	1717.	0.00
0.6000	0.00984	351.9143	558.4435	-0.00366	3585.	1374447.	-122.5829	2491.	0.00
0.8000	0.00911	461.1514	531.0627	-0.00360	4697.	1374447.	-151.2257	3319.	0.00
1.0000	0.00840	564.3394	498.2464	-0.00353	5748.	1374447.	-176.9368	4213.	0.00
1.2000	0.00770	660.4499	460.5735	-0.00344	6727.	1374447.	-199.7926	5188.	0.00
1.4000	0.00702	748.5688	418.6128	-0.00334	7625.	1374447.	-219.8142	6260.	0.00
1.6000	0.00637	827.8950	372.9330	-0.00322	8433.	1374447.	-236.9838	7445.	0.00
1.8000	0.00573	897.7420	324.1101	-0.00310	9144.	1374447.	-251.2456	8764.	0.00
2.0000	0.00513	957.5391	272.7364	-0.00296	9753.	1374447.	-262.4906	10239.	0.00
2.2000	0.00455	1007.	219.4383	-0.00282	10256.	1374447.	-270.4909	11894.	0.00
2.4000	0.00400	1045.	164.9913	-0.00267	10647.	1374447.	-273.9789	13702.	0.00
2.6000	0.00348	1073.	110.3752	-0.00252	10928.	1374447.	-272.1820	15642.	0.00

2.8000	0.00299	1089.	56.3790	-0.00236	11097.	1374447.	-267.7799	17898.	0.00
3.0000	0.00254	1095.	3.5309	-0.00220	11157.	1374447.	-260.7016	20557.	0.00
3.2000	0.00211	1091.	-46.7089	-0.00204	11112.	1374447.	-241.6960	22886.	0.00
3.4000	0.00172	1077.	-92.6876	-0.00188	10967.	1374447.	-218.0912	25363.	0.00
3.6000	0.00136	1054.	-133.8815	-0.00173	10734.	1374447.	-193.8484	28535.	0.00
3.8000	0.00103	1023.	-170.1302	-0.00158	10422.	1374447.	-168.6382	32801.	0.00
4.0000	7.28E-04	985.7497	-201.1799	-0.00143	10041.	1374447.	-141.8592	38993.	0.00
4.2000	4.56E-04	942.6765	-226.5920	-0.00129	9602.	1374447.	-112.2614	49274.	0.00
4.4000	2.11E-04	895.1129	-239.2469	-0.00116	9118.	1374447.	-14.2874	13533.	0.00
4.6000	-7.32E-06	846.9778	-240.1963	-0.00103	8627.	1374447.	4.7933	130926.	0.00
4.8000	-2.01E-04	799.0344	-238.2270	-9.11E-04	8139.	1374447.	14.8998	14816.	0.00
5.0000	-3.72E-04	751.6870	-234.8568	-7.98E-04	7657.	1374447.	18.8019	10117.	0.00
5.2000	-5.20E-04	705.0917	-230.8154	-6.92E-04	7182.	1374447.	21.6123	8306.	0.00
5.4000	-6.49E-04	659.3608	-226.2661	-5.93E-04	6716.	1374447.	23.8808	7364.	0.00
5.6000	-7.58E-04	614.5852	-221.2974	-5.00E-04	6260.	1374447.	25.8055	6813.	0.00
5.8000	-8.49E-04	570.8419	-215.9687	-4.14E-04	5815.	1374447.	27.4821	6477.	0.00
6.0000	-9.23E-04	528.1978	-210.3241	-3.34E-04	5380.	1374447.	28.9640	6275.	0.00
6.2000	-9.82E-04	486.7122	-204.3992	-2.60E-04	4958.	1374447.	30.2845	6167.	0.00
6.4000	-0.00103	446.4381	-198.2242	-1.92E-04	4547.	1374447.	31.4653	6127.	0.00
6.6000	-0.00106	407.4225	-191.8256	-1.30E-04	4150.	1374447.	32.5215	6141.	0.00
6.8000	-0.00108	369.7078	-185.2271	-7.36E-05	3766.	1374447.	33.4637	6202.	0.00
7.0000	-0.00109	333.3317	-178.4507	-2.24E-05	3395.	1374447.	34.2998	6302.	0.00
7.2000	-0.00109	298.3276	-171.5171	2.35E-05	3039.	1374447.	35.0358	6439.	0.00
7.4000	-0.00108	264.7249	-164.4459	6.45E-05	2696.	1374447.	35.6762	6612.	0.00
7.6000	-0.00106	232.5492	-157.2559	1.01E-04	2369.	1374447.	36.2246	6820.	0.00
7.8000	-0.00104	201.8225	-149.9650	1.32E-04	2056.	1374447.	36.6837	7063.	0.00
8.0000	-0.00101	172.5632	-142.0081	1.60E-04	1758.	1374447.	42.8860	8497.	0.00
8.2000	-9.75E-04	145.0193	-133.4802	1.83E-04	1477.	1374447.	42.3929	8696.	0.00
8.4000	-9.36E-04	119.1711	-125.0583	2.02E-04	1214.	1374447.	41.8254	8933.	0.00
8.6000	-8.94E-04	94.9959	-116.7569	2.17E-04	967.6207	1374447.	41.1888	9212.	0.00
8.8000	-8.49E-04	72.4683	-108.5892	2.30E-04	738.1564	1374447.	40.4880	9533.	0.00
9.0000	-8.02E-04	51.5602	-100.5677	2.39E-04	525.1883	1374447.	39.7274	9902.	0.00
9.2000	-7.54E-04	32.2413	-92.7039	2.45E-04	328.4067	1374447.	38.9106	10322.	0.00
9.4000	-7.05E-04	14.4787	-85.0087	2.48E-04	147.4787	1374447.	38.0412	10799.	0.00
9.6000	-6.55E-04	-1.7622	-77.4924	2.49E-04	17.9500	1374447.	37.1221	11341.	0.00
9.8000	-6.05E-04	-16.5183	-70.1646	2.48E-04	168.2538	1374447.	36.1561	11955.	0.00
10.0000	-5.56E-04	-29.8281	-63.0344	2.44E-04	303.8262	1374447.	35.1457	12652.	0.00
10.2000	-5.07E-04	-41.7320	-56.1105	2.39E-04	425.0791	1374447.	34.0930	13445.	0.00
10.4000	-4.60E-04	-52.2723	-49.4012	2.32E-04	532.4411	1374447.	33.0001	14351.	0.00
10.6000	-4.14E-04	-61.4925	-42.9143	2.24E-04	626.3577	1374447.	31.8686	15388.	0.00
10.8000	-3.70E-04	-69.4380	-36.6575	2.15E-04	707.2899	1374447.	30.7001	16582.	0.00
11.0000	-3.28E-04	-76.1555	-30.6379	2.04E-04	775.7137	1374447.	29.4957	17963.	0.00
11.2000	-2.89E-04	-81.6932	-24.8627	1.92E-04	832.1199	1374447.	28.2565	19574.	0.00
11.4000	-2.51E-04	-86.1006	-19.3387	1.80E-04	877.0133	1374447.	26.9832	21465.	0.00

11.6000	-2.17E-04	-89.4287	-14.0728	1.67E-04	910.9128	1374447.	25.6762	23706.	0.00
11.8000	-1.84E-04	-91.7297	-9.0716	1.54E-04	934.3509	1374447.	24.3357	26390.	0.00
12.0000	-1.55E-04	-93.0573	-3.8944	1.41E-04	947.8737	1374447.	27.4357	35421.	0.00
12.2000	-1.28E-04	-93.2875	1.8990	1.27E-04	950.2182	1374447.	30.4982	47617.	0.00
12.4000	-1.04E-04	-92.2977	7.7940	1.14E-04	940.1367	1374447.	28.4517	54716.	0.00
12.6000	-8.26E-05	-90.1699	13.2739	1.01E-04	918.4628	1374447.	26.3477	63808.	0.00
12.8000	-6.38E-05	-86.9881	18.3263	8.76E-05	886.0539	1374447.	24.1762	75793.	0.00
13.0000	-4.75E-05	-82.8394	22.9359	7.53E-05	843.7947	1374447.	21.9195	92218.	0.00
13.2000	-3.37E-05	-77.8138	27.0823	6.36E-05	792.6048	1374447.	19.5449	116022.	0.00
13.4000	-2.21E-05	-72.0064	30.7356	5.27E-05	733.4515	1374447.	16.9877	153667.	0.00
13.6000	-1.26E-05	-65.5196	33.8442	4.27E-05	667.3769	1374447.	14.0990	223379.	0.00
13.8000	-5.04E-06	-58.4687	36.2942	3.36E-05	595.5578	1374447.	10.4010	412430.	0.00
14.0000	8.34E-07	-51.0019	36.7741	2.57E-05	519.5009	1374447.	-5.6022	1342996.	0.00
14.2000	5.23E-06	-43.7591	35.1669	1.88E-05	445.7267	1374447.	-10.4692	400503.	0.00
14.4000	8.35E-06	-36.9351	32.8952	1.29E-05	376.2179	1374447.	-12.2480	293425.	0.00
14.6000	1.04E-05	-30.6010	30.3525	8.00E-06	311.6994	1374447.	-13.1794	253607.	0.00
14.8000	1.15E-05	-24.7941	27.6694	3.97E-06	252.5507	1374447.	-13.6512	236418.	0.00
15.0000	1.20E-05	-19.5332	24.9224	7.45E-07	198.9640	1374447.	-13.8191	230673.	0.00
15.2000	1.18E-05	-14.8251	22.1640	-1.76E-06	151.0076	1374447.	-13.7651	232397.	0.00
15.4000	1.13E-05	-10.6676	19.4335	-3.61E-06	108.6597	1374447.	-13.5394	240071.	0.00
15.6000	1.04E-05	-7.0517	16.7621	-4.90E-06	71.8282	1374447.	-13.1754	253317.	0.00
15.8000	9.32E-06	-3.9628	14.1748	-5.70E-06	40.3649	1374447.	-12.6970	272472.	0.00
16.0000	8.12E-06	-1.3818	11.6929	-6.09E-06	14.0748	1374447.	-12.1222	298498.	0.00
16.2000	6.88E-06	0.7144	9.3342	-6.14E-06	7.2763	1374447.	-11.4648	333076.	0.00
16.4000	5.67E-06	2.3519	7.1142	-5.91E-06	23.9562	1374447.	-10.7354	378875.	0.00
16.6000	4.52E-06	3.5600	5.0464	-5.48E-06	36.2622	1374447.	-9.9425	440102.	0.00
16.8000	3.47E-06	4.3705	3.1430	-4.91E-06	44.5172	1374447.	-9.0919	523555.	0.00
17.0000	2.56E-06	4.8172	1.4151	-4.24E-06	49.0678	1374447.	-8.1869	640798.	0.00
17.2000	1.78E-06	4.9365	-0.1263	-3.53E-06	50.2827	1374447.	-7.2269	813161.	0.00
17.4000	1.14E-06	4.7667	-1.4695	-2.82E-06	48.5532	1374447.	-6.2051	1085355.	0.00
17.6000	6.48E-07	4.3487	-2.6002	-2.16E-06	44.2954	1374447.	-5.1016	1574374.	0.00
17.8000	2.79E-07	3.7266	-3.1293	-1.57E-06	37.9591	1374447.	-0.1897	135828.	0.00
18.0000	1.90E-08	3.0970	-3.1496	-1.08E-06	31.5454	1374447.	-0.01288	135828.	0.00
18.2000	-1.51E-07	2.4668	-3.1406	-6.72E-07	25.1266	1374447.	0.1027	135828.	0.00
18.4000	-2.50E-07	1.8407	-3.1134	-3.58E-07	18.7496	1374447.	0.1695	135828.	0.00
18.6000	-2.94E-07	1.2215	-2.7648	-1.35E-07	12.4416	1374447.	3.3157	2251826.	0.00
18.8000	-3.04E-07	0.7348	-2.1104	6.99E-09	7.4846	1374447.	3.2285	2125496.	0.00
19.0000	-2.92E-07	0.3773	-1.4811	8.79E-08	3.8430	1374447.	3.0644	2101073.	0.00
19.2000	-2.69E-07	0.1424	-0.8875	1.26E-07	1.4500	1374447.	2.8717	2138071.	0.00
19.4000	-2.41E-07	0.02228	-0.3326	1.38E-07	0.2270	1374447.	2.6774	2218142.	0.00
19.6000	-2.14E-07	0.00931	-0.05036	1.40E-07	0.09481	1374447.	0.1450	135828.	0.00
19.8000	-1.85E-07	0.00214	-0.02327	1.41E-07	0.02175	1374447.	0.1259	135828.	0.00
20.0000	-1.57E-07	0.00	0.00	1.41E-07	0.00	1374447.	0.1068	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 6:

Pile-head deflection = 0.01207237 meters
Computed slope at pile head = -0.00374143 radians
Maximum bending moment = 1095. kN-m
Maximum shear force = 600.00000000 kN
Depth of maximum bending moment = 3.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 23
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 7

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 800.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.02218	-4.77E-10	800.0000	-0.00620	4.86E-09	1374447.	0.00	0.00	0.00
0.2000	0.02094	160.0000	796.4546	-0.00619	1630.	1374447.	-35.4542	338.6051	0.00
0.4000	0.01971	318.5818	786.4098	-0.00615	3245.	1374447.	-64.9933	659.6180	0.00
0.6000	0.01848	474.5639	770.0116	-0.00609	4834.	1374447.	-98.9893	1071.	0.00
0.8000	0.01727	626.5865	746.4132	-0.00601	6382.	1374447.	-136.9946	1587.	0.00
1.0000	0.01608	773.1292	715.0820	-0.00591	7875.	1374447.	-176.3176	2194.	0.00
1.2000	0.01490	912.6193	676.2405	-0.00579	9296.	1374447.	-212.0969	2846.	0.00
1.4000	0.01376	1044.	630.5836	-0.00565	10630.	1374447.	-244.4723	3554.	0.00
1.6000	0.01265	1165.	578.7843	-0.00549	11865.	1374447.	-273.5211	4326.	0.00
1.8000	0.01156	1275.	521.5041	-0.00531	12988.	1374447.	-299.2806	5176.	0.00
2.0000	0.01052	1373.	459.4002	-0.00512	13990.	1374447.	-321.7587	6116.	0.00
2.2000	0.00952	1459.	393.1303	-0.00491	14860.	1374447.	-340.9397	7164.	0.00
2.4000	0.00856	1531.	323.3579	-0.00469	15592.	1374447.	-356.7843	8339.	0.00

2.6000	0.00764	1588.	250.7569	-0.00447	16178.	1374447.	-369.2261	9664.	0.00
2.8000	0.00677	1631.	176.0182	-0.00423	16613.	1374447.	-378.1611	11170.	0.00
3.0000	0.00595	1659.	99.8697	-0.00399	16895.	1374447.	-383.3242	12888.	0.00
3.2000	0.00517	1671.	24.4865	-0.00375	17020.	1374447.	-370.5074	14321.	0.00
3.4000	0.00445	1668.	-47.5000	-0.00351	16995.	1374447.	-349.3577	15706.	0.00
3.6000	0.00377	1652.	-114.7333	-0.00327	16827.	1374447.	-322.9748	17127.	0.00
3.8000	0.00314	1623.	-176.5122	-0.00303	16527.	1374447.	-294.8142	18763.	0.00
4.0000	0.00256	1581.	-232.6064	-0.00279	16108.	1374447.	-266.1280	20786.	0.00
4.2000	0.00202	1530.	-282.8847	-0.00257	15579.	1374447.	-236.6551	23374.	0.00
4.4000	0.00153	1468.	-309.3171	-0.00235	14955.	1374447.	-27.6694	3608.	0.00
4.6000	0.00109	1406.	-314.6236	-0.00214	14319.	1374447.	-25.3950	4681.	0.00
4.8000	6.77E-04	1342.	-319.3968	-0.00194	13673.	1374447.	-22.3370	6594.	0.00
5.0000	3.09E-04	1278.	-323.3985	-0.00175	13018.	1374447.	-17.6799	11448.	0.00
5.2000	-2.25E-05	1213.	-324.4095	-0.00157	12355.	1374447.	7.5695	67315.	0.00
5.4000	-3.19E-04	1148.	-321.7685	-0.00140	11696.	1374447.	18.8399	11828.	0.00
5.6000	-5.81E-04	1084.	-317.5223	-0.00123	11044.	1374447.	23.6229	8129.	0.00
5.8000	-8.12E-04	1021.	-312.4516	-0.00108	10402.	1374447.	27.0834	6668.	0.00
6.0000	-0.00101	959.3015	-306.7551	-9.37E-04	9771.	1374447.	29.8813	5896.	0.00
6.2000	-0.00119	898.5481	-300.5412	-8.02E-04	9153.	1374447.	32.2586	5435.	0.00
6.4000	-0.00133	839.0850	-293.8820	-6.76E-04	8547.	1374447.	34.3333	5146.	0.00
6.6000	-0.00146	780.9953	-286.8314	-5.58E-04	7955.	1374447.	36.1721	4964.	0.00
6.8000	-0.00156	724.3524	-279.4326	-4.48E-04	7378.	1374447.	37.8164	4856.	0.00
7.0000	-0.00164	669.2223	-271.7216	-3.47E-04	6817.	1374447.	39.2936	4802.	0.00
7.2000	-0.00170	615.6638	-263.7299	-2.53E-04	6271.	1374447.	40.6229	4790.	0.00
7.4000	-0.00174	563.7303	-255.4858	-1.67E-04	5742.	1374447.	41.8179	4812.	0.00
7.6000	-0.00176	513.4695	-247.0152	-8.90E-05	5230.	1374447.	42.8887	4865.	0.00
7.8000	-0.00177	464.9242	-238.3420	-1.79E-05	4736.	1374447.	43.8431	4944.	0.00
8.0000	-0.00177	418.1327	-228.7859	4.64E-05	4259.	1374447.	51.7176	5843.	0.00
8.2000	-0.00175	373.4099	-218.4574	1.04E-04	3804.	1374447.	51.5676	5877.	0.00
8.4000	-0.00173	330.7498	-208.1697	1.55E-04	3369.	1374447.	51.3095	5936.	0.00
8.6000	-0.00169	290.1420	-197.9435	2.00E-04	2955.	1374447.	50.9523	6020.	0.00
8.8000	-0.00165	251.5724	-187.7978	2.40E-04	2562.	1374447.	50.5040	6127.	0.00
9.0000	-0.00160	215.0229	-177.7503	2.74E-04	2190.	1374447.	49.9713	6258.	0.00
9.2000	-0.00154	180.4722	-167.8172	3.03E-04	1838.	1374447.	49.3602	6414.	0.00
9.4000	-0.00148	147.8960	-158.0136	3.26E-04	1506.	1374447.	48.6759	6596.	0.00
9.6000	-0.00141	117.2668	-148.3537	3.46E-04	1194.	1374447.	47.9231	6805.	0.00
9.8000	-0.00134	88.5546	-138.8508	3.61E-04	902.0093	1374447.	47.1057	7043.	0.00
10.0000	-0.00126	61.7265	-129.5174	3.72E-04	628.7411	1374447.	46.2276	7313.	0.00
10.2000	-0.00119	36.7476	-120.3655	3.79E-04	374.3077	1374447.	45.2921	7618.	0.00
10.4000	-0.00111	13.5803	-111.4061	3.82E-04	138.3280	1374447.	44.3019	7963.	0.00
10.6000	-0.00104	-7.8149	-102.6499	3.83E-04	79.6014	1374447.	43.2600	8351.	0.00
10.8000	-9.60E-04	-27.4796	-94.1070	3.80E-04	279.9052	1374447.	42.1685	8789.	0.00
11.0000	-8.84E-04	-45.4577	-85.7872	3.75E-04	463.0280	1374447.	41.0299	9283.	0.00
11.2000	-8.10E-04	-61.7945	-77.6996	3.67E-04	629.4337	1374447.	39.8460	9843.	0.00

11.4000	-7.37E-04	-76.5375	-69.8532	3.57E-04	779.6047	1374447.	38.6186	10479.	0.00
11.6000	-6.67E-04	-89.7358	-62.2563	3.45E-04	914.0410	1374447.	37.3495	11203.	0.00
11.8000	-5.99E-04	-101.4401	-54.9174	3.31E-04	1033.	1374447.	36.0401	12032.	0.00
12.0000	-5.34E-04	-111.7027	-47.1681	3.16E-04	1138.	1374447.	41.4526	15516.	0.00
12.2000	-4.73E-04	-120.3073	-38.3096	2.99E-04	1225.	1374447.	47.1325	19936.	0.00
12.4000	-4.15E-04	-127.0266	-29.0843	2.81E-04	1294.	1374447.	45.1210	21754.	0.00
12.6000	-3.61E-04	-131.9410	-20.2662	2.62E-04	1344.	1374447.	43.0598	23886.	0.00
12.8000	-3.10E-04	-135.1330	-11.8652	2.42E-04	1376.	1374447.	40.9495	26412.	0.00
13.0000	-2.64E-04	-136.6871	-3.8913	2.23E-04	1392.	1374447.	38.7898	29435.	0.00
13.2000	-2.21E-04	-136.6896	3.6456	2.03E-04	1392.	1374447.	36.5791	33100.	0.00
13.4000	-1.82E-04	-135.2289	10.7349	1.83E-04	1377.	1374447.	34.3142	37615.	0.00
13.6000	-1.48E-04	-132.3956	17.3653	1.64E-04	1349.	1374447.	31.9893	43281.	0.00
13.8000	-1.17E-04	-128.2828	23.5236	1.45E-04	1307.	1374447.	29.5944	50571.	0.00
14.0000	-9.00E-05	-122.9862	29.1944	1.26E-04	1253.	1374447.	27.1128	60253.	0.00
14.2000	-6.65E-05	-116.6050	34.3572	1.09E-04	1188.	1374447.	24.5158	73698.	0.00
14.4000	-4.65E-05	-109.2433	38.9838	9.24E-05	1113.	1374447.	21.7504	93636.	0.00
14.6000	-2.96E-05	-101.0115	43.0298	7.71E-05	1029.	1374447.	18.7092	126567.	0.00
14.8000	-1.56E-05	-92.0313	46.4131	6.31E-05	937.4236	1374447.	15.1234	193759.	0.00
15.0000	-4.34E-06	-82.4463	48.9126	5.04E-05	839.7908	1374447.	9.8721	455431.	0.00
15.2000	4.54E-06	-72.4663	48.8987	3.91E-05	738.1357	1374447.	-10.0113	440976.	0.00
15.4000	1.13E-05	-62.8868	46.5400	2.93E-05	640.5596	1374447.	-13.5756	240119.	0.00
15.6000	1.62E-05	-53.8503	43.6505	2.08E-05	548.5147	1374447.	-15.3194	188615.	0.00
15.8000	1.96E-05	-45.4266	40.4872	1.35E-05	462.7115	1374447.	-16.3134	166348.	0.00
16.0000	2.17E-05	-37.6554	37.1696	7.50E-06	383.5550	1374447.	-16.8627	155696.	0.00
16.2000	2.26E-05	-30.5588	33.7727	2.53E-06	311.2689	1374447.	-17.1064	151299.	0.00
16.4000	2.27E-05	-24.1463	30.3498	-1.45E-06	245.9527	1374447.	-17.1222	151023.	0.00
16.6000	2.20E-05	-18.4188	26.9417	-4.54E-06	187.6126	1374447.	-16.9595	153936.	0.00
16.8000	2.09E-05	-13.3697	23.5805	-6.86E-06	136.1825	1374447.	-16.6522	159672.	0.00
17.0000	1.93E-05	-8.9866	20.2928	-8.48E-06	91.5371	1374447.	-16.2248	168198.	0.00
17.2000	1.75E-05	-5.2526	17.1007	-9.52E-06	53.5023	1374447.	-15.6955	179734.	0.00
17.4000	1.55E-05	-2.1463	14.0233	-1.01E-05	21.8624	1374447.	-15.0785	194745.	0.00
17.6000	1.34E-05	0.3568	11.0771	-1.02E-05	3.6339	1374447.	-14.3841	214003.	0.00
17.8000	1.14E-05	2.2845	8.2767	-9.99E-06	23.2697	1374447.	-13.6194	238710.	0.00
18.0000	9.45E-06	3.6675	5.6360	-9.56E-06	37.3564	1374447.	-12.7877	270774.	0.00
18.2000	7.59E-06	4.5389	3.1686	-8.96E-06	46.2329	1374447.	-11.8869	313373.	0.00
18.4000	5.86E-06	4.9349	0.8892	-8.27E-06	50.2663	1374447.	-10.9065	372255.	0.00
18.6000	4.28E-06	4.8946	-1.1834	-7.56E-06	49.8559	1374447.	-9.8197	459235.	0.00
18.8000	2.84E-06	4.4615	-3.0217	-6.88E-06	45.4447	1374447.	-8.5633	603934.	0.00
19.0000	1.53E-06	3.6859	-4.5745	-6.29E-06	37.5445	1374447.	-6.9643	913352.	0.00
19.2000	3.21E-07	2.6317	-5.2927	-5.83E-06	26.8067	1374447.	-0.2183	135828.	0.00
19.4000	-8.06E-07	1.5688	-4.7519	-5.52E-06	15.9800	1374447.	5.6262	1396850.	0.00
19.6000	-1.89E-06	0.7310	-3.4420	-5.35E-06	7.4456	1374447.	7.4736	792167.	0.00
19.8000	-2.95E-06	0.1921	-1.8274	-5.29E-06	1.9562	1374447.	8.6716	588517.	0.00
20.0000	-4.00E-06	0.00	0.00	-5.27E-06	0.00	1374447.	9.6027	239983.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 7:

Pile-head deflection = 0.02218096 meters
Computed slope at pile head = -0.00619821 radians
Maximum bending moment = 1671. kN-m
Maximum shear force = 800.00000000 kN
Depth of maximum bending moment = 3.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 29
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 8

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 900.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.03084	1.67E-09	900.0000	-0.00800	1.70E-08	1374447.	0.00	0.00	0.00
0.2000	0.02924	180.0000	897.9889	-0.00799	1833.	1374447.	-20.1115	137.5645	0.00
0.4000	0.02764	359.1955	891.2798	-0.00795	3659.	1374447.	-46.9789	339.8790	0.00
0.6000	0.02606	536.5119	878.7217	-0.00788	5465.	1374447.	-78.6027	603.2415	0.00
0.8000	0.02449	710.6842	859.4579	-0.00779	7239.	1374447.	-114.0353	931.2299	0.00
1.0000	0.02294	880.2951	832.8072	-0.00768	8967.	1374447.	-152.4712	1329.	0.00
1.2000	0.02142	1044.	798.2386	-0.00754	10632.	1374447.	-193.2150	1804.	0.00
1.4000	0.01993	1200.	755.4754	-0.00737	12219.	1374447.	-234.4163	2353.	0.00
1.6000	0.01847	1346.	704.7945	-0.00719	13710.	1374447.	-272.3930	2949.	0.00
1.8000	0.01705	1482.	646.8691	-0.00698	15091.	1374447.	-306.8611	3599.	0.00
2.0000	0.01568	1605.	582.3947	-0.00676	16346.	1374447.	-337.8829	4310.	0.00
2.2000	0.01435	1714.	512.0571	-0.00652	17463.	1374447.	-365.4929	5094.	0.00

2.4000	0.01307	1810.	436.5375	-0.00626	18432.	1374447.	-389.7036	5962.	0.00
2.6000	0.01185	1889.	356.5164	-0.00599	19242.	1374447.	-410.5071	6930.	0.00
2.8000	0.01068	1952.	272.6782	-0.00571	19885.	1374447.	-427.8752	8016.	0.00
3.0000	0.00956	1998.	185.7364	-0.00542	20353.	1374447.	-441.5421	9235.	0.00
3.2000	0.00851	2026.	98.0719	-0.00513	20641.	1374447.	-435.1033	10230.	0.00
3.4000	0.00751	2037.	12.5812	-0.00484	20753.	1374447.	-419.8035	11181.	0.00
3.6000	0.00657	2032.	-69.6637	-0.00454	20693.	1374447.	-402.6459	12253.	0.00
3.8000	0.00569	2010.	-148.2822	-0.00425	20469.	1374447.	-383.5396	13472.	0.00
4.0000	0.00487	1972.	-222.8601	-0.00396	20089.	1374447.	-362.2385	14864.	0.00
4.2000	0.00411	1920.	-292.8055	-0.00367	19561.	1374447.	-337.2156	16404.	0.00
4.4000	0.00340	1855.	-330.1366	-0.00340	18896.	1374447.	-36.0955	2120.	0.00
4.6000	0.00275	1788.	-337.2094	-0.00313	18216.	1374447.	-34.6325	2517.	0.00
4.8000	0.00215	1720.	-343.9560	-0.00288	17522.	1374447.	-32.8334	3052.	0.00
5.0000	0.00160	1651.	-350.2989	-0.00263	16814.	1374447.	-30.5958	3821.	0.00
5.2000	0.00110	1580.	-356.1315	-0.00240	16094.	1374447.	-27.7301	5046.	0.00
5.4000	6.43E-04	1508.	-361.2854	-0.00217	15363.	1374447.	-23.8093	7410.	0.00
5.6000	2.30E-04	1436.	-365.4013	-0.00196	14622.	1374447.	-17.3491	15082.	0.00
5.8000	-1.41E-04	1362.	-365.6268	-0.00175	13874.	1374447.	15.0932	21456.	0.00
6.0000	-4.72E-04	1289.	-361.8019	-0.00156	13133.	1374447.	23.1560	9816.	0.00
6.2000	-7.65E-04	1217.	-356.6996	-0.00138	12400.	1374447.	27.8673	7282.	0.00
6.4000	-0.00102	1147.	-350.7701	-0.00121	11679.	1374447.	31.4276	6141.	0.00
6.6000	-0.00125	1077.	-344.1921	-0.00105	10971.	1374447.	34.3526	5504.	0.00
6.8000	-0.00144	1009.	-337.0713	-8.94E-04	10277.	1374447.	36.8553	5112.	0.00
7.0000	-0.00161	942.2642	-329.4812	-7.52E-04	9598.	1374447.	39.0459	4863.	0.00
7.2000	-0.00174	877.1489	-321.4777	-6.19E-04	8935.	1374447.	40.9892	4705.	0.00
7.4000	-0.00185	813.6732	-313.1061	-4.96E-04	8288.	1374447.	42.7263	4610.	0.00
7.6000	-0.00194	751.9065	-304.4050	-3.83E-04	7659.	1374447.	44.2853	4563.	0.00
7.8000	-0.00201	691.9112	-295.4079	-2.77E-04	7048.	1374447.	45.6857	4553.	0.00
8.0000	-0.00205	633.7433	-285.4065	-1.81E-04	6455.	1374447.	54.3274	5295.	0.00
8.2000	-0.00208	577.7486	-274.5173	-9.29E-05	5885.	1374447.	54.5646	5249.	0.00
8.4000	-0.00209	523.9364	-263.5955	-1.27E-05	5337.	1374447.	54.6535	5232.	0.00
8.6000	-0.00208	472.3103	-252.6693	5.97E-05	4811.	1374447.	54.6092	5240.	0.00
8.8000	-0.00207	422.8687	-241.7639	1.25E-04	4307.	1374447.	54.4444	5272.	0.00
9.0000	-0.00203	375.6048	-230.9025	1.83E-04	3826.	1374447.	54.1695	5326.	0.00
9.2000	-0.00199	330.5077	-220.1062	2.34E-04	3367.	1374447.	53.7936	5401.	0.00
9.4000	-0.00194	287.5623	-209.3944	2.79E-04	2929.	1374447.	53.3244	5496.	0.00
9.6000	-0.00188	246.7499	-198.7851	3.18E-04	2513.	1374447.	52.7686	5612.	0.00
9.8000	-0.00181	208.0482	-188.2951	3.51E-04	2119.	1374447.	52.1321	5750.	0.00
10.0000	-0.00174	171.4319	-177.9398	3.79E-04	1746.	1374447.	51.4202	5911.	0.00
10.2000	-0.00166	136.8723	-167.7341	4.01E-04	1394.	1374447.	50.6373	6095.	0.00
10.4000	-0.00158	104.3382	-157.6916	4.19E-04	1063.	1374447.	49.7876	6305.	0.00
10.6000	-0.00149	73.7957	-147.8254	4.32E-04	751.6765	1374447.	48.8748	6542.	0.00
10.8000	-0.00141	45.2081	-138.1477	4.40E-04	460.4858	1374447.	47.9021	6811.	0.00
11.0000	-0.00132	18.5366	-128.6702	4.45E-04	188.8123	1374447.	46.8727	7113.	0.00

11.2000	-0.00123	-6.2600	-119.4040	4.46E-04	63.7637	1374447.	45.7893	7454.	0.00
11.4000	-0.00114	-29.2250	-110.3596	4.43E-04	297.6834	1374447.	44.6544	7837.	0.00
11.6000	-0.00105	-50.4038	-101.5471	4.38E-04	513.4092	1374447.	43.4704	8270.	0.00
11.8000	-9.64E-04	-69.8439	-92.9762	4.29E-04	711.4236	1374447.	42.2395	8759.	0.00
12.0000	-8.80E-04	-87.5943	-83.8575	4.17E-04	892.2281	1374447.	48.9469	11128.	0.00
12.2000	-7.97E-04	-103.3869	-73.3525	4.04E-04	1053.	1374447.	56.1035	14070.	0.00
12.4000	-7.18E-04	-116.9353	-62.3240	3.88E-04	1191.	1374447.	54.1811	15086.	0.00
12.6000	-6.42E-04	-128.3165	-51.6855	3.70E-04	1307.	1374447.	52.2039	16251.	0.00
12.8000	-5.70E-04	-137.6095	-41.4477	3.50E-04	1402.	1374447.	50.1742	17592.	0.00
13.0000	-5.02E-04	-144.8955	-31.6209	3.30E-04	1476.	1374447.	48.0935	19147.	0.00
13.2000	-4.39E-04	-150.2579	-22.2153	3.08E-04	1531.	1374447.	45.9632	20963.	0.00
13.4000	-3.79E-04	-153.7817	-13.2406	2.86E-04	1566.	1374447.	43.7837	23102.	0.00
13.6000	-3.24E-04	-155.5541	-4.7068	2.64E-04	1584.	1374447.	41.5546	25648.	0.00
13.8000	-2.74E-04	-155.6644	3.3761	2.41E-04	1586.	1374447.	39.2744	28712.	0.00
14.0000	-2.28E-04	-154.2036	10.9976	2.18E-04	1571.	1374447.	36.9402	32455.	0.00
14.2000	-1.86E-04	-151.2653	18.1463	1.96E-04	1541.	1374447.	34.5463	37110.	0.00
14.4000	-1.49E-04	-146.9451	24.8092	1.75E-04	1497.	1374447.	32.0835	43026.	0.00
14.6000	-1.16E-04	-141.3416	30.9712	1.54E-04	1440.	1374447.	29.5367	50766.	0.00
14.8000	-8.77E-05	-134.5566	36.6129	1.34E-04	1371.	1374447.	26.8802	61296.	0.00
15.0000	-6.30E-05	-126.6964	41.7078	1.14E-04	1291.	1374447.	24.0688	76454.	0.00
15.2000	-4.19E-05	-117.8735	46.2162	9.67E-05	1201.	1374447.	21.0149	100292.	0.00
15.4000	-2.43E-05	-108.2100	50.0697	8.03E-05	1102.	1374447.	17.5201	144303.	0.00
15.6000	-9.81E-06	-97.8456	53.1168	6.53E-05	996.6474	1374447.	12.9511	264137.	0.00
15.8000	1.82E-06	-86.9632	53.6735	5.18E-05	885.8003	1374447.	-7.3847	810591.	0.00
16.0000	1.09E-05	-76.3762	51.5929	3.99E-05	777.9621	1374447.	-13.4207	245810.	0.00
16.2000	1.78E-05	-66.3261	48.6715	2.95E-05	675.5919	1374447.	-15.7938	177515.	0.00
16.4000	2.27E-05	-56.9077	45.3782	2.06E-05	579.6567	1374447.	-17.1391	150747.	0.00
16.6000	2.60E-05	-48.1748	41.8714	1.29E-05	490.7046	1374447.	-17.9286	137768.	0.00
16.8000	2.79E-05	-40.1591	38.2434	6.51E-06	409.0572	1374447.	-18.3517	131490.	0.00
17.0000	2.86E-05	-32.8775	34.5574	1.20E-06	334.8871	1374447.	-18.5077	129284.	0.00
17.2000	2.84E-05	-26.3361	30.8611	-3.11E-06	268.2576	1374447.	-18.4561	130009.	0.00
17.4000	2.74E-05	-20.5330	27.1919	-6.52E-06	209.1478	1374447.	-18.2356	133173.	0.00
17.6000	2.58E-05	-15.4594	23.5811	-9.14E-06	157.4678	1374447.	-17.8726	138638.	0.00
17.8000	2.37E-05	-11.1006	20.0553	-1.11E-05	113.0698	1374447.	-17.3850	146524.	0.00
18.0000	2.14E-05	-7.4372	16.6384	-1.24E-05	75.7551	1374447.	-16.7842	157202.	0.00
18.2000	1.88E-05	-4.4452	13.3524	-1.33E-05	45.2789	1374447.	-16.0755	171370.	0.00
18.4000	1.60E-05	-2.0963	10.2192	-1.38E-05	21.3525	1374447.	-15.2571	190249.	0.00
18.6000	1.33E-05	-0.3576	7.2616	-1.39E-05	3.6423	1374447.	-14.3181	216023.	0.00
18.8000	1.05E-05	0.8084	4.5066	-1.39E-05	8.2341	1374447.	-13.2321	252939.	0.00
19.0000	7.69E-06	1.4451	1.9891	-1.37E-05	14.7194	1374447.	-11.9429	310498.	0.00
19.2000	4.96E-06	1.6040	-0.2373	-1.35E-05	16.3386	1374447.	-10.3211	415760.	0.00
19.4000	2.28E-06	1.3502	-2.0661	-1.33E-05	13.7526	1374447.	-7.9675	697749.	0.00
19.6000	-3.58E-07	0.7776	-2.8386	-1.32E-05	7.9204	1374447.	0.2432	135828.	0.00
19.8000	-2.98E-06	0.2147	-1.9440	-1.31E-05	2.1873	1374447.	8.7028	584607.	0.00

20.0000	-5.59E-06	0.00	0.00	-1.31E-05	0.00	1374447.	10.7368	192061.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 8:

Pile-head deflection = 0.03083943 meters
Computed slope at pile head = -0.00800043 radians
Maximum bending moment = 2037. kN-m
Maximum shear force = 900.00000000 kN
Depth of maximum bending moment = 3.40000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 44
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 9

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 950.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.03907	0.00	950.0000	-0.00948	0.00	1374447.	0.00	0.00	0.00
0.2000	0.03717	190.0000	949.3524	-0.00946	1935.	1374447.	-6.4759	34.8434	0.00
0.4000	0.03528	379.7410	945.7399	-0.00942	3868.	1374447.	-29.6488	168.0713	0.00
0.6000	0.03340	568.2960	936.8896	-0.00935	5789.	1374447.	-58.8548	352.4009	0.00
0.8000	0.03154	754.4968	921.7927	-0.00926	7685.	1374447.	-92.1145	584.1176	0.00
1.0000	0.02970	937.0130	899.7192	-0.00913	9544.	1374447.	-128.6199	866.1518	0.00
1.2000	0.02789	1114.	870.0900	-0.00899	11351.	1374447.	-167.6725	1203.	0.00
1.4000	0.02611	1285.	832.4564	-0.00881	13089.	1374447.	-208.6633	1599.	0.00
1.6000	0.02436	1447.	786.4839	-0.00861	14743.	1374447.	-251.0614	2061.	0.00
1.8000	0.02266	1600.	732.0200	-0.00839	16294.	1374447.	-293.5781	2591.	0.00
2.0000	0.02101	1740.	669.4611	-0.00815	17725.	1374447.	-332.0108	3161.	0.00

2.2000	0.01940	1867.	599.5599	-0.00788	19021.	1374447.	-367.0014	3783.	0.00
2.4000	0.01785	1980.	522.9989	-0.00760	20168.	1374447.	-398.6084	4466.	0.00
2.6000	0.01636	2077.	440.4510	-0.00731	21152.	1374447.	-426.8701	5219.	0.00
2.8000	0.01493	2156.	352.5834	-0.00700	21963.	1374447.	-451.8062	6053.	0.00
3.0000	0.01356	2218.	260.0957	-0.00668	22589.	1374447.	-473.0706	6978.	0.00
3.2000	0.01225	2260.	165.4938	-0.00636	23022.	1374447.	-472.9485	7719.	0.00
3.4000	0.01102	2284.	71.8671	-0.00603	23263.	1374447.	-463.3191	8412.	0.00
3.6000	0.00984	2289.	-19.6404	-0.00569	23315.	1374447.	-451.7551	9179.	0.00
3.8000	0.00874	2276.	-108.6444	-0.00536	23183.	1374447.	-438.2856	10032.	0.00
4.0000	0.00770	2246.	-194.7653	-0.00503	22873.	1374447.	-422.9233	10987.	0.00
4.2000	0.00672	2198.	-277.6225	-0.00471	22390.	1374447.	-405.6481	12064.	0.00
4.4000	0.00581	2134.	-322.5017	-0.00439	21741.	1374447.	-43.1444	1484.	0.00
4.6000	0.00497	2069.	-331.0325	-0.00409	21076.	1374447.	-42.1636	1698.	0.00
4.8000	0.00418	2002.	-339.3453	-0.00379	20393.	1374447.	-40.9641	1960.	0.00
5.0000	0.00345	1933.	-347.3931	-0.00351	19693.	1374447.	-39.5140	2291.	0.00
5.2000	0.00278	1863.	-355.1212	-0.00323	18977.	1374447.	-37.7670	2720.	0.00
5.4000	0.00216	1791.	-362.4631	-0.00296	18246.	1374447.	-35.6517	3305.	0.00
5.6000	0.00159	1718.	-369.3331	-0.00271	17500.	1374447.	-33.0481	4155.	0.00
5.8000	0.00107	1644.	-375.6108	-0.00246	16741.	1374447.	-29.7295	5535.	0.00
6.0000	6.05E-04	1568.	-381.1001	-0.00223	15970.	1374447.	-25.1637	8316.	0.00
6.2000	1.82E-04	1491.	-385.3430	-0.00201	15189.	1374447.	-17.2653	18985.	0.00
6.4000	-1.98E-04	1414.	-385.2521	-0.00180	14400.	1374447.	18.1748	18355.	0.00
6.6000	-5.37E-04	1337.	-380.8417	-0.00160	13619.	1374447.	25.9286	9660.	0.00
6.8000	-8.37E-04	1261.	-375.1748	-0.00141	12848.	1374447.	30.7410	7348.	0.00
7.0000	-0.00110	1187.	-368.6589	-0.00123	12090.	1374447.	34.4178	6259.	0.00
7.2000	-0.00133	1114.	-361.4726	-0.00106	11346.	1374447.	37.4450	5637.	0.00
7.4000	-0.00152	1042.	-353.7249	-9.05E-04	10618.	1374447.	40.0325	5251.	0.00
7.6000	-0.00169	972.4305	-345.4925	-7.59E-04	9905.	1374447.	42.2915	5003.	0.00
7.8000	-0.00183	904.1778	-336.8345	-6.22E-04	9210.	1374447.	44.2885	4845.	0.00
8.0000	-0.00194	837.6967	-327.0742	-4.95E-04	8533.	1374447.	53.3139	5498.	0.00
8.2000	-0.00203	773.3482	-316.3330	-3.78E-04	7877.	1374447.	54.0985	5340.	0.00
8.4000	-0.00209	711.1635	-305.4566	-2.70E-04	7244.	1374447.	54.6654	5230.	0.00
8.6000	-0.00213	651.1655	-294.4857	-1.71E-04	6633.	1374447.	55.0434	5158.	0.00
8.8000	-0.00216	593.3692	-283.4559	-8.04E-05	6044.	1374447.	55.2552	5119.	0.00
9.0000	-0.00217	537.7832	-272.3985	1.87E-06	5478.	1374447.	55.3187	5107.	0.00
9.2000	-0.00216	484.4098	-261.3417	7.62E-05	4934.	1374447.	55.2488	5120.	0.00
9.4000	-0.00214	433.2465	-250.3111	1.43E-04	4413.	1374447.	55.0579	5155.	0.00
9.6000	-0.00210	384.2854	-239.3296	2.02E-04	3914.	1374447.	54.7564	5212.	0.00
9.8000	-0.00205	337.5146	-228.4187	2.55E-04	3438.	1374447.	54.3531	5290.	0.00
10.0000	-0.00200	292.9180	-217.5978	3.01E-04	2984.	1374447.	53.8556	5388.	0.00
10.2000	-0.00193	250.4755	-206.8852	3.40E-04	2551.	1374447.	53.2706	5507.	0.00
10.4000	-0.00186	210.1639	-196.2977	3.74E-04	2141.	1374447.	52.6040	5648.	0.00
10.6000	-0.00179	171.9564	-185.8513	4.02E-04	1752.	1374447.	51.8608	5811.	0.00
10.8000	-0.00170	135.8234	-175.5606	4.24E-04	1383.	1374447.	51.0458	5998.	0.00

11.0000	-0.00162	101.7322	-165.4397	4.41E-04	1036.	1374447.	50.1629	6211.	0.00
11.2000	-0.00153	69.6475	-155.5018	4.54E-04	709.4234	1374447.	49.2161	6452.	0.00
11.4000	-0.00143	39.5314	-145.7594	4.62E-04	402.6638	1374447.	48.2086	6724.	0.00
11.6000	-0.00134	11.3437	-136.2242	4.66E-04	115.5462	1374447.	47.1436	7032.	0.00
11.8000	-0.00125	-14.9582	-126.9074	4.65E-04	152.3633	1374447.	46.0242	7378.	0.00
12.0000	-0.00115	-39.4192	-116.9455	4.61E-04	401.5209	1374447.	53.5940	9282.	0.00
12.2000	-0.00106	-61.7364	-105.4115	4.54E-04	628.8423	1374447.	61.7460	11616.	0.00
12.4000	-9.73E-04	-81.5838	-93.2415	4.44E-04	831.0062	1374447.	59.9542	12321.	0.00
12.6000	-8.86E-04	-99.0331	-81.4361	4.30E-04	1009.	1374447.	58.1004	13120.	0.00
12.8000	-8.01E-04	-114.1583	-70.0073	4.15E-04	1163.	1374447.	56.1876	14028.	0.00
13.0000	-7.20E-04	-127.0360	-58.9667	3.97E-04	1294.	1374447.	54.2183	15066.	0.00
13.2000	-6.42E-04	-137.7449	-48.3253	3.78E-04	1403.	1374447.	52.1950	16256.	0.00
13.4000	-5.69E-04	-146.3661	-38.0939	3.57E-04	1491.	1374447.	50.1193	17631.	0.00
13.6000	-4.99E-04	-152.9825	-28.2827	3.36E-04	1558.	1374447.	47.9927	19228.	0.00
13.8000	-4.34E-04	-157.6792	-18.9019	3.13E-04	1606.	1374447.	45.8159	21098.	0.00
14.0000	-3.74E-04	-160.5432	-9.9614	2.90E-04	1635.	1374447.	43.5889	23309.	0.00
14.2000	-3.18E-04	-161.6637	-1.4714	2.66E-04	1647.	1374447.	41.3107	25951.	0.00
14.4000	-2.67E-04	-161.1318	6.5575	2.43E-04	1641.	1374447.	38.9789	29149.	0.00
14.6000	-2.21E-04	-159.0407	14.1143	2.20E-04	1620.	1374447.	36.5891	33081.	0.00
14.8000	-1.80E-04	-155.4861	21.1866	1.97E-04	1584.	1374447.	34.1339	38011.	0.00
15.0000	-1.43E-04	-150.5661	27.7602	1.74E-04	1534.	1374447.	31.6013	44348.	0.00
15.2000	-1.10E-04	-144.3820	33.8174	1.53E-04	1471.	1374447.	28.9715	52766.	0.00
15.4000	-8.13E-05	-137.0391	39.3356	1.33E-04	1396.	1374447.	26.2103	64469.	0.00
15.6000	-5.68E-05	-128.6478	44.2823	1.13E-04	1310.	1374447.	23.2562	81889.	0.00
15.8000	-3.60E-05	-119.3262	48.6062	9.52E-05	1215.	1374447.	19.9827	110920.	0.00
16.0000	-1.87E-05	-109.2053	52.2113	7.85E-05	1112.	1374447.	16.0692	171539.	0.00
16.2000	-4.62E-06	-98.4416	54.8259	6.34E-05	1003.	1374447.	10.0768	436415.	0.00
16.4000	6.63E-06	-87.2749	54.6970	4.99E-05	888.9750	1374447.	-11.3665	342652.	0.00
16.6000	1.53E-05	-76.5629	52.0569	3.80E-05	779.8628	1374447.	-15.0338	195919.	0.00
16.8000	2.18E-05	-66.4521	48.8627	2.76E-05	676.8760	1374447.	-16.9081	154898.	0.00
17.0000	2.64E-05	-57.0178	45.3710	1.86E-05	580.7781	1374447.	-18.0097	136532.	0.00
17.2000	2.93E-05	-48.3038	41.7055	1.09E-05	492.0181	1374447.	-18.6450	127388.	0.00
17.4000	3.08E-05	-40.3356	37.9455	4.49E-06	410.8547	1374447.	-18.9552	123254.	0.00
17.6000	3.11E-05	-33.1256	34.1481	-8.53E-07	337.4143	1374447.	-19.0190	122430.	0.00
17.8000	3.04E-05	-26.6763	30.3577	-5.20E-06	271.7230	1374447.	-18.8849	124175.	0.00
18.0000	2.90E-05	-20.9825	26.6107	-8.67E-06	213.7260	1374447.	-18.5844	128223.	0.00
18.2000	2.69E-05	-16.0320	22.9385	-1.14E-05	163.3011	1374447.	-18.1379	134615.	0.00
18.4000	2.44E-05	-11.8071	19.3690	-1.34E-05	120.2662	1374447.	-17.5573	143667.	0.00
18.6000	2.16E-05	-8.2845	15.9286	-1.49E-05	84.3847	1374447.	-16.8465	156045.	0.00
18.8000	1.85E-05	-5.4357	12.6438	-1.59E-05	55.3672	1374447.	-16.0010	172975.	0.00
19.0000	1.53E-05	-3.2269	9.5434	-1.65E-05	32.8691	1374447.	-15.0034	196743.	0.00
19.2000	1.19E-05	-1.6183	6.6615	-1.68E-05	16.4839	1374447.	-13.8157	232027.	0.00
19.4000	8.52E-06	-0.5623	4.0443	-1.70E-05	5.7277	1374447.	-12.3559	290096.	0.00
19.6000	5.11E-06	-5.62E-04	1.7665	-1.70E-05	0.00572	1374447.	-10.4222	407754.	0.00

19.8000	1.71E-06	0.1443	0.00140	-1.70E-05	1.4698	1374447.	-7.2290	847748.	0.00
20.0000	-1.70E-06	0.00	0.00	-1.70E-05	0.00	1374447.	7.2150	425196.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 9:

Pile-head deflection = 0.03906692 meters
Computed slope at pile head = -0.00947807 radians
Maximum bending moment = 2289. kN-m
Maximum shear force = 950.00000000 kN
Depth of maximum bending moment = 3.60000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 77
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 10

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 1000.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.4904	-7.63E-09	1000.0000	-0.05234	7.77E-08	1374447.	0.00	0.00	0.00
0.2000	0.4799	200.0000	999.3524	-0.05232	2037.	1374447.	-6.4758	2.6986	0.00
0.4000	0.4695	399.7410	997.4758	-0.05228	4072.	1374447.	-12.2905	5.2357	0.00
0.6000	0.4590	598.9903	994.4322	-0.05221	6101.	1374447.	-18.1454	7.9059	0.00
0.8000	0.4486	797.5138	990.2290	-0.05211	8123.	1374447.	-23.8867	10.6494	0.00
1.0000	0.4382	995.0819	984.8963	-0.05198	10136.	1374447.	-29.4406	13.4373	0.00
1.2000	0.4278	1191.	978.4741	-0.05182	12136.	1374447.	-34.7811	16.2600	0.00
1.4000	0.4175	1386.	971.0050	-0.05163	14122.	1374447.	-39.9102	19.1202	0.00
1.6000	0.4072	1580.	962.5294	-0.05141	16092.	1374447.	-44.8451	22.0283	0.00
1.8000	0.3969	1771.	953.0839	-0.05117	18044.	1374447.	-49.6106	24.9991	0.00

2.0000	0.3867	1961.	942.6995	-0.05090	19976.	1374447.	-54.2334	28.0500	0.00
2.2000	0.3765	2149.	931.4022	-0.05060	21885.	1374447.	-58.7390	31.1993	0.00
2.4000	0.3665	2334.	919.2133	-0.05027	23771.	1374447.	-63.1498	34.4656	0.00
2.6000	0.3564	2516.	906.1499	-0.04992	25630.	1374447.	-67.4847	37.8669	0.00
2.8000	0.3465	2696.	892.2256	-0.04954	27463.	1374447.	-71.7583	41.4209	0.00
3.0000	0.3366	2873.	877.4546	-0.04914	29266.	1374447.	-75.9513	45.1265	0.00
3.2000	0.3268	3047.	862.1434	-0.04870	31038.	1374447.	-77.1613	47.2181	0.00
3.4000	0.3171	3218.	846.7111	-0.04825	32778.	1374447.	-77.1613	48.6619	0.00
3.6000	0.3075	3386.	831.2788	-0.04777	34487.	1374447.	-77.1613	50.1814	0.00
3.8000	0.2980	3551.	815.8466	-0.04726	36165.	1374447.	-77.1613	51.7817	0.00
4.0000	0.2886	3712.	800.4143	-0.04674	37811.	1374447.	-77.1613	53.4684	0.00
4.2000	0.2793	3871.	784.9820	-0.04618	39426.	1374447.	-77.1613	55.2472	0.00
4.4000	0.2702	4026.	761.7559	-0.04561	41010.	1374447.	-155.0998	114.8247	0.00
4.6000	0.2611	4175.	730.4516	-0.04501	42530.	1374447.	-157.9430	120.9887	0.00
4.8000	0.2521	4318.	698.5910	-0.04439	43986.	1374447.	-160.6633	127.4370	0.00
5.0000	0.2433	4455.	666.1987	-0.04376	45376.	1374447.	-163.2594	134.1879	0.00
5.2000	0.2346	4585.	633.2998	-0.04310	46700.	1374447.	-165.7298	141.2612	0.00
5.4000	0.2261	4708.	599.9195	-0.04242	47957.	1374447.	-168.0732	148.6781	0.00
5.6000	0.2177	4825.	566.0833	-0.04173	49145.	1374447.	-170.2884	156.4618	0.00
5.8000	0.2094	4935.	531.8171	-0.04102	50263.	1374447.	-172.3739	164.6373	0.00
6.0000	0.2013	5037.	497.1469	-0.04029	51311.	1374447.	-174.3285	173.2316	0.00
6.2000	0.1933	5133.	462.0989	-0.03955	52289.	1374447.	-176.1507	182.2742	0.00
6.4000	0.1854	5222.	426.6999	-0.03880	53194.	1374447.	-177.8393	191.7973	0.00
6.6000	0.1778	5304.	390.9767	-0.03803	54027.	1374447.	-179.3929	201.8359	0.00
6.8000	0.1702	5379.	354.9564	-0.03726	54787.	1374447.	-180.8099	212.4283	0.00
7.0000	0.1629	5446.	318.6665	-0.03647	55473.	1374447.	-182.0891	223.6165	0.00
7.2000	0.1556	5506.	282.1348	-0.03567	56085.	1374447.	-183.2288	235.4464	0.00
7.4000	0.1486	5559.	245.3891	-0.03487	56623.	1374447.	-184.2276	247.9688	0.00
7.6000	0.1417	5604.	208.4580	-0.03406	57085.	1374447.	-185.0840	261.2394	0.00
7.8000	0.1350	5642.	171.3700	-0.03324	57472.	1374447.	-185.7961	275.3200	0.00
8.0000	0.1284	5673.	131.2221	-0.03241	57783.	1374447.	-215.6824	335.9485	0.00
8.2000	0.1220	5695.	88.4501	-0.03159	58007.	1374447.	-212.0376	347.5973	0.00
8.4000	0.1158	5708.	46.4101	-0.03076	58144.	1374447.	-208.3625	359.9673	0.00
8.6000	0.1097	5713.	5.1082	-0.02993	58196.	1374447.	-204.6563	373.1229	0.00
8.8000	0.1038	5710.	-35.4492	-0.02909	58165.	1374447.	-200.9181	387.1364	0.00
9.0000	0.09806	5699.	-75.2558	-0.02826	58052.	1374447.	-197.1469	402.0893	0.00
9.2000	0.09249	5680.	-114.3046	-0.02744	57858.	1374447.	-193.3412	418.0745	0.00
9.4000	0.08709	5653.	-152.5886	-0.02661	57586.	1374447.	-189.4994	435.1978	0.00
9.6000	0.08185	5619.	-190.1005	-0.02579	57236.	1374447.	-185.6197	453.5805	0.00
9.8000	0.07677	5577.	-226.8325	-0.02498	56811.	1374447.	-181.6997	473.3626	0.00
10.0000	0.07186	5528.	-262.7761	-0.02417	56312.	1374447.	-177.7368	494.7065	0.00
10.2000	0.06710	5472.	-297.9226	-0.02337	55741.	1374447.	-173.7278	517.8018	0.00
10.4000	0.06251	5409.	-332.2623	-0.02258	55098.	1374447.	-169.6690	542.8721	0.00
10.6000	0.05807	5339.	-365.7847	-0.02180	54387.	1374447.	-165.5558	570.1823	0.00

10.8000	0.05379	5263.	-398.4786	-0.02102	53608.	1374447.	-161.3829	600.0499	0.00
11.0000	0.04966	5180.	-430.3313	-0.02026	52763.	1374447.	-157.1440	632.8586	0.00
11.2000	0.04568	5091.	-461.3288	-0.01952	51855.	1374447.	-152.8315	669.0778	0.00
11.4000	0.04185	4995.	-491.4556	-0.01878	50884.	1374447.	-148.4362	709.2884	0.00
11.6000	0.03817	4894.	-520.6939	-0.01806	49852.	1374447.	-143.9469	754.2197	0.00
11.8000	0.03463	4787.	-549.0236	-0.01736	48762.	1374447.	-139.3500	804.8017	0.00
12.0000	0.03123	4675.	-579.0450	-0.01667	47615.	1374447.	-160.8641	1030.	0.00
12.2000	0.02796	4556.	-613.4941	-0.01600	46403.	1374447.	-183.6262	1313.	0.00
12.4000	0.02483	4429.	-649.5060	-0.01535	45116.	1374447.	-176.4934	1422.	0.00
12.6000	0.02182	4296.	-684.0619	-0.01471	43757.	1374447.	-169.0656	1549.	0.00
12.8000	0.01894	4156.	-717.0961	-0.01410	42329.	1374447.	-161.2762	1703.	0.00
13.0000	0.01619	4009.	-748.5271	-0.01350	40835.	1374447.	-153.0336	1891.	0.00
13.2000	0.01354	3856.	-778.2512	-0.01293	39279.	1374447.	-144.2075	2130.	0.00
13.4000	0.01101	3698.	-806.1323	-0.01238	37664.	1374447.	-134.6031	2444.	0.00
13.6000	0.00859	3534.	-831.9834	-0.01185	35994.	1374447.	-123.9083	2885.	0.00
13.8000	0.00627	3365.	-855.5313	-0.01135	34274.	1374447.	-111.5704	3558.	0.00
14.0000	0.00405	3192.	-876.3322	-0.01087	32509.	1374447.	-96.4393	4762.	0.00
14.2000	0.00192	3014.	-893.4983	-0.01042	30704.	1374447.	-75.2212	7827.	0.00
14.4000	-1.19E-04	2834.	-898.0475	-0.01000	28868.	1374447.	29.7295	50102.	0.00
14.6000	-0.00208	2655.	-887.3556	-0.00960	27045.	1374447.	77.1892	7433.	0.00
14.8000	-0.00396	2479.	-870.0668	-0.00922	25253.	1374447.	95.6985	4836.	0.00
15.0000	-0.00577	2307.	-849.6479	-0.00888	23500.	1374447.	108.4910	3763.	0.00
15.2000	-0.00751	2139.	-826.9520	-0.00855	21791.	1374447.	118.4677	3156.	0.00
15.4000	-0.00919	1976.	-802.4339	-0.00825	20130.	1374447.	126.7132	2758.	0.00
15.6000	-0.01081	1818.	-776.3857	-0.00798	18522.	1374447.	133.7691	2475.	0.00
15.8000	-0.01238	1666.	-749.0136	-0.00772	16967.	1374447.	139.9511	2261.	0.00
16.0000	-0.01390	1519.	-720.4724	-0.00749	15470.	1374447.	145.4615	2093.	0.00
16.2000	-0.01538	1378.	-690.8823	-0.00728	14032.	1374447.	150.4393	1957.	0.00
16.4000	-0.01681	1242.	-660.3399	-0.00709	12655.	1374447.	154.9848	1844.	0.00
16.6000	-0.01821	1113.	-628.9241	-0.00692	11341.	1374447.	159.1729	1748.	0.00
16.8000	-0.01958	990.8263	-596.7007	-0.00677	10092.	1374447.	163.0616	1666.	0.00
17.0000	-0.02092	874.7474	-563.7249	-0.00663	8910.	1374447.	166.6967	1594.	0.00
17.2000	-0.02223	765.3363	-530.0437	-0.00651	7796.	1374447.	170.1148	1530.	0.00
17.4000	-0.02352	662.7299	-495.6976	-0.00641	6751.	1374447.	173.3462	1474.	0.00
17.6000	-0.02480	567.0573	-460.7214	-0.00632	5776.	1374447.	176.4156	1423.	0.00
17.8000	-0.02605	478.4413	-425.1455	-0.00624	4873.	1374447.	179.3440	1377.	0.00
18.0000	-0.02729	396.9991	-388.9962	-0.00618	4044.	1374447.	182.1487	1335.	0.00
18.2000	-0.02852	322.8428	-352.2968	-0.00613	3288.	1374447.	184.8447	1296.	0.00
18.4000	-0.02974	256.0804	-315.0679	-0.00608	2608.	1374447.	187.4445	1260.	0.00
18.6000	-0.03096	196.8157	-277.3276	-0.00605	2005.	1374447.	189.9589	1227.	0.00
18.8000	-0.03216	145.1493	-239.0920	-0.00603	1478.	1374447.	192.3970	1196.	0.00
19.0000	-0.03337	101.1789	-200.3756	-0.00601	1031.	1374447.	194.7666	1167.	0.00
19.2000	-0.03457	64.9991	-161.1915	-0.00600	662.0752	1374447.	197.0743	1140.	0.00
19.4000	-0.03576	36.7023	-121.5515	-0.00599	373.8461	1374447.	199.3257	1115.	0.00

19.6000	-0.03696	16.3785	-81.4664	-0.00598	166.8297	1374447.	201.5254	1090.	0.00
19.8000	-0.03816	4.1157	-40.9462	-0.00598	41.9220	1374447.	203.6773	1068.	0.00
20.0000	-0.03935	0.00	0.00	-0.00598	0.00	1374447.	205.7844	522.9021	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 10:

Pile-head deflection = 0.49041431 meters
Computed slope at pile head = -0.05233886 radians
Maximum bending moment = 5713. kN-m
Maximum shear force = 1000.00000000 kN
Depth of maximum bending moment = 8.60000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 76
Number of zero deflection points = 1

Summary of Pile-head Responses for Conventional Analyses

Definitions of Pile-head Loading Conditions:

Load Type 1: Load 1 = Shear, V, kN, and Load 2 = Moment, M, kN-m
Load Type 2: Load 1 = Shear, V, kN, and Load 2 = Slope, S, radians
Load Type 3: Load 1 = Shear, V, kN, and Load 2 = Rot. Stiffness, R, kN-m/rad.
Load Type 4: Load 1 = Top Deflection, y, m, and Load 2 = Moment, M, kN-m
Load Type 5: Load 1 = Top Deflection, y, m, and Load 2 = Slope, S, radians

Load Case No.	Load Type	Pile-head Load 1	Load Type 2	Pile-head Load 2	Axial Loading kN	Pile-head Deflection meters	Pile-head Rotation radians	Max Shear in Pile kN	Max Moment in Pile kN-m
1	V, kN	75.0000	M, kN-m	0.00	0.00	5.41E-04	-2.27E-04	75.0000	92.1589
2	V, kN	80.0000	M, kN-m	0.00	0.00	5.83E-04	-2.44E-04	80.0000	98.8875
3	V, kN	120.0000	M, kN-m	0.00	0.00	9.88E-04	-3.99E-04	120.0000	155.7499
4	V, kN	200.0000	M, kN-m	0.00	0.00	0.00204	-7.72E-04	200.0000	278.6575
5	V, kN	250.0000	M, kN-m	0.00	0.00	0.00284	-0.00104	250.0000	361.4274
6	V, kN	600.0000	M, kN-m	0.00	0.00	0.01207	-0.00374	600.0000	1095.
7	V, kN	800.0000	M, kN-m	0.00	0.00	0.02218	-0.00620	800.0000	1671.
8	V, kN	900.0000	M, kN-m	0.00	0.00	0.03084	-0.00800	900.0000	2037.

9	V, kN	950.0000	M, kN-m	0.00	0.00	0.03907	-0.00948	950.0000	2289.
10	V, kN	1000.0000	M, kN-m	0.00	0.00	0.4904	-0.05234	1000.0000	5713.

Maximum pile-head deflection = 0.4904143122 meters

Maximum pile-head rotation = -0.0523388567 radians = -2.998796 deg.

The analysis ended normally.

Opera VI04 – D1200

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LPile for Windows, Version 2016-09.009

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method
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Files Used for Analysis

Path to file locations:
\m9159\Work\07_Pali\VI04\LPILE\

Name of input data file:
VI04_spalle-pila_D1200_statica.lp9d

Name of output report file:
VI04_spalle-pila_D1200_statica.lp9o

Name of plot output file:
VI04_spalle-pila_D1200_statica.lp9p

Name of runtime message file:
VI04_spalle-pila_D1200_statica.lp9r

Date and Time of Analysis

Date: June 10, 2019 Time: 15:14:22

Problem Title

Project Name: VI02 - Spalle e pila
Job Number:
Client:
Engineer:
Description:

Program Options and Settings

Computational Options:
- Use unfactored loads in computations (conventional analysis)

Engineering Units Used for Data Input and Computations:
- International System Units (kilonewtons, meters, millimeters)

Analysis Control Options:
- Maximum number of iterations allowed = 500
- Deflection tolerance for convergence = 2.5400E-07 m
- Maximum allowable deflection = 2.5400 m
- Number of pile increments = 100

Loading Type and Number of Cycles of Loading:
- Static loading specified

- Use of p-y modification factors for p-y curves not selected
- No distributed lateral loads are entered
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected

- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:
- Output files use decimal points to denote decimal symbols.
- Values of pile-head deflection, bending moment, shear force, and soil reaction are printed for full length of pile.
- Printing Increment (nodal spacing of output points) = 1
- p-y curves computed and reported at user-specified depths
- Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined = 1
Total length of pile = 20.000 m
Depth of ground surface below top of pile = 0.0000 m

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point	Depth Below Pile Head meters	Pile Diameter millimeters
1	0.000	1200.00
2	20.000	1200.00

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is an elastic pile
Cross-sectional Shape = Circular Pile
Length of section = 20.000000 m

Width of top of section = 1.200000 m
Width of bottom of section = 1.200000 m
Top Area = 1.130973 sq. m
Bottom Area = 1.130973 sq. m
Moment of Inertia at Top = 0.101788 m^4
Moment of Inertia at Bottom = 0.101788 m^4
Elastic Modulus = 28000000. kPa

Ground Slope and Pile Batter Angles

Ground Slope Angle = 0.000 degrees
= 0.000 radians

Pile Batter Angle = 0.000 degrees
= 0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 3 layers

Layer 1 is stiff clay with water-induced erosion

Distance from top of pile to top of layer = 0.0000 m
Distance from top of pile to bottom of layer = 4.300000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 80.000000 kPa
Undrained cohesion at bottom of layer = 80.000000 kPa
Epsilon-50 at top of layer = 0.007000
Epsilon-50 at bottom of layer = 0.007000
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 2 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 4.300000 m
Distance from top of pile to bottom of layer = 12.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 35.000000 kPa
Undrained cohesion at bottom of layer = 35.000000 kPa
Epsilon-50 at top of layer = 0.020000
Epsilon-50 at bottom of layer = 0.020000

Layer 3 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 12.000000 m
Distance from top of pile to bottom of layer = 20.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 45.000000 kPa
Undrained cohesion at bottom of layer = 45.000000 kPa
Epsilon-50 at top of layer = 0.015000
Epsilon-50 at bottom of layer = 0.015000

(Depth of the lowest soil layer extends 0.000 m below the pile tip)

Summary of Input Soil Properties

Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth m	Effective Unit Wt. kN/m3	Undrained Cohesion kPa	E50 or krm	kpy kN/m3
1	Stiff Clay	0.00	9.0000	80.0000	0.00700	default
	with Free Water	4.3000	9.0000	80.0000	0.00700	default
2	Soft	4.3000	9.0000	35.0000	0.02000	--
	Clay	12.0000	9.0000	35.0000	0.02000	--
3	Soft	12.0000	9.0000	45.0000	0.01500	--
	Clay	20.0000	9.0000	45.0000	0.01500	--

Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 12

Load No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, kN	Compute Top y vs. Pile Length
1	1	V = 125.000000 kN	M = 0.0000 m-kN	0.0000000	No
2	1	V = 175.000000 kN	M = 0.0000 m-kN	0.0000000	No
3	1	V = 200.000000 kN	M = 0.0000 m-kN	0.0000000	No
4	1	V = 250.000000 kN	M = 0.0000 m-kN	0.0000000	No
5	1	V = 275.000000 kN	M = 0.0000 m-kN	0.0000000	No
6	1	V = 300.000000 kN	M = 0.0000 m-kN	0.0000000	No
7	1	V = 325.000000 kN	M = 0.0000 m-kN	0.0000000	No
8	1	V = 600.000000 kN	M = 0.0000 m-kN	0.0000000	No
9	1	V = 800.000000 kN	M = 0.0000 m-kN	0.0000000	No
10	1	V = 1000.000000 kN	M = 0.0000 m-kN	0.0000000	No
11	1	V = 1200. kN	M = 0.0000 m-kN	0.0000000	No
12	1	V = 1250. kN	M = 0.0000 m-kN	0.0000000	No

V = shear force applied normal to pile axis
M = bending moment applied to pile head
y = lateral deflection normal to pile axis
S = pile slope relative to original pile batter angle
R = rotational stiffness applied to pile head
Values of top y vs. pile lengths can be computed only for load types with
specified shear loading (Load Types 1, 2, and 3).
Thrust force is assumed to be acting axially for all pile batter angles.

Specified Depths for Output of p-y Curves

Lateral load-transfer (p-y) curves are computed and output at 8 depths.
(Note that load-transfer values are computeded at the specified depths and
may differ from values computed at nodal points)

Depth No.	Depth Below Pile Head m	Depth Below Ground Surface m
1	0.200	0.200
2	3.400	3.400
3	3.800	3.800
4	9.000	9.000
5	11.000	11.000
6	11.400	11.400
7	16.000	16.000
8	19.800	19.800

Depth of ground surface below top of pile = 0.0000 m

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

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Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Moment-curvature properties were derived from elastic section properties

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Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head	Equivalent Top Depth Below Grnd Surf	Same Layer Type As Layer	Layer is Rock or is Below	F0 Integral for Layer	F1 Integral for Layer

	meters	meters	Above	Rock Layer	kN	kN
1	0.00	0.00	N.A.	No	0.00	242.0230
2	4.3000	1.6245	No	No	242.0230	2360.
3	12.0000	9.3245	Yes	No	2602.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals for Layer n. Layering correction equivalent depths are computed only for soil types with both shallow-depth and deep-depth expressions for peak lateral load transfer. These soil types are soft and stiff clays, non-liquefied sands, and cemented c-phi soil.

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p-y Curves Reported for Specified Depths

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p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 0.200 m
Depth of p-y curve below ground surface = 0.200 m
Equivalent depth of p-y curve = 0.200 m
Pile diameter = 1200.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.008 m
As = 0.28166
Ac (not used) = 0.22353
pct = 239.440 kN/m
pcd = 1056.000 kN/m
pc = 239.440 kN/m
pu = 6.644 kN/m
p-multiplier = 1.00000

y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00118	32.11161
0.00237	63.53756
0.00355	72.28033
0.00473	76.68647
0.00591	78.60052
0.00710	78.72846
0.00828	77.46940
0.00946	75.08018
0.01065	71.73941
0.01183	67.57805
0.01301	62.69601
0.01420	57.17185
0.02366	40.36449
0.03312	23.50423
0.04259	6.64397
0.04495	6.64397

p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 3.400 m
Depth of p-y curve below ground surface = 3.400 m
Equivalent depth of p-y curve = 3.400 m
Pile diameter = 1200.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.008 m
As = 0.59865
Ac (not used) = 0.30000
pct = 998.480 kN/m

pcd = 1056.000 kN/m
pc = 998.480 kN/m
pu = 87.495 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00251	273.13788
0.00503	386.27529
0.00754	449.99918
0.01006	491.35936
0.01257	519.59239
0.01509	538.43449
0.01760	550.02061
0.02011	555.72845
0.02263	556.51574
0.02514	553.08374
0.02766	545.96615
0.03017	535.58151
0.05029	386.36634
0.07040	236.93060
0.09052	87.49486
0.09555	87.49486

p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 3.800 m
Depth of p-y curve below ground surface = 3.800 m
Equivalent depth of p-y curve = 3.800 m
Pile diameter = 1200.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700

y50 = 0.008 m
As = 0.60000
Ac (not used) = 0.30000
pct = 1093.360 kN/m
pcd = 1056.000 kN/m
pc = 1056.000 kN/m
pu = 92.594 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00252	289.19751
0.00504	408.98704
0.00756	476.48515
0.01008	520.31502
0.01260	550.25116
0.01512	570.24804
0.01764	582.56536
0.02016	588.66135
0.02268	589.54972
0.02520	585.97273
0.02772	578.49524
0.03024	567.56028
0.05040	409.39356
0.07056	250.99356
0.09072	92.59356
0.09576	92.59356

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 4.300 m
Depth of p-y curve below pile head = 9.000 m
Depth of p-y curve below ground surface = 9.000 m
Equiv. depth of p-y curve below ground surface = 9.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees

Effective slope angle = 0.000 degrees
Pile diameter = 1200.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 8.905 m
Static pu_s for flat ground = 380.700 kN/m
Static pu_d for flat ground = 378.000 kN/m
y_50 = 0.06000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 378.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00014222	25.20000
0.00114	50.40000
0.00384	75.60000
0.00910	100.80000
0.01778	126.00000
0.03072	151.20000
0.04878	176.40000
0.07282	201.60000
0.10368	226.80000
0.14222	252.00000
0.18930	277.20000
0.24576	302.40000
0.31246	327.60000
0.39026	352.80000
0.48000	378.00000
0.51000	378.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 4.300 m
Depth of p-y curve below pile head = 11.000 m
Depth of p-y curve below ground surface = 11.000 m

Equiv. depth of p-y curve below ground surface = 11.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1200.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 8.905 m
Static pu_s for flat ground = 437.300 kN/m
Static pu_d for flat ground = 378.000 kN/m
y_50 = 0.06000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 378.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00014222	25.20000
0.00114	50.40000
0.00384	75.60000
0.00910	100.80000
0.01778	126.00000
0.03072	151.20000
0.04878	176.40000
0.07282	201.60000
0.10368	226.80000
0.14222	252.00000
0.18930	277.20000
0.24576	302.40000
0.31246	327.60000
0.39026	352.80000
0.48000	378.00000
0.51000	378.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2

Depth of top of Layer 2 below pile head = 4.300 m
Depth of p-y curve below pile head = 11.400 m
Depth of p-y curve below ground surface = 11.400 m
Equiv. depth of p-y curve below ground surface = 11.400 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1200.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 8.905 m
Static pu_s for flat ground = 448.620 kN/m
Static pu_d for flat ground = 378.000 kN/m
y_50 = 0.06000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 378.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00014222	25.20000
0.00114	50.40000
0.00384	75.60000
0.00910	100.80000
0.01778	126.00000
0.03072	151.20000
0.04878	176.40000
0.07282	201.60000
0.10368	226.80000
0.14222	252.00000
0.18930	277.20000
0.24576	302.40000
0.31246	327.60000
0.39026	352.80000
0.48000	378.00000
0.51000	378.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 12.000 m
Depth of p-y curve below pile head = 16.000 m
Depth of p-y curve below ground surface = 16.000 m
Equiv. depth of p-y curve below ground surface = 16.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1200.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 9.730 m
Static pu_s for flat ground = 694.800 kN/m
Static pu_d for flat ground = 486.000 kN/m
y_50 = 0.04500 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 486.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00010667	32.40000
0.00085333	64.80000
0.00288	97.20000
0.00683	129.60000
0.01333	162.00000
0.02304	194.40000
0.03659	226.80000
0.05461	259.20000
0.07776	291.60000
0.10667	324.00000
0.14197	356.40000
0.18432	388.80000

0.23435	421.20000
0.29269	453.60000
0.36000	486.00000
0.38250	486.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 12.000 m
Depth of p-y curve below pile head = 19.800 m
Depth of p-y curve below ground surface = 19.800 m
Equiv. depth of p-y curve below ground surface = 19.800 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1200.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 9.730 m
Static pu_s for flat ground = 821.340 kN/m
Static pu_d for flat ground = 486.000 kN/m
y_50 = 0.04500 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 486.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00010667	32.40000
0.00085333	64.80000
0.00288	97.20000
0.00683	129.60000
0.01333	162.00000
0.02304	194.40000
0.03659	226.80000
0.05461	259.20000
0.07776	291.60000

0.10667	324.00000
0.14197	356.40000
0.18432	388.80000
0.23435	421.20000
0.29269	453.60000
0.36000	486.00000
0.38250	486.00000

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 1

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 125.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	7.38E-04	2.32E-11	125.0000	-2.61E-04	1.37E-10	2850053.	0.00	0.00	0.00
0.2000	6.86E-04	25.0000	123.1381	-2.60E-04	147.3657	2850053.	-18.6195	5429.	0.00
0.4000	6.34E-04	49.2552	117.8334	-2.57E-04	290.3412	2850053.	-34.4266	10858.	0.00
0.6000	5.83E-04	72.1334	109.9860	-2.53E-04	425.1994	2850053.	-44.0472	15110.	0.00
0.8000	5.33E-04	93.2496	100.7725	-2.47E-04	549.6719	2850053.	-48.0886	18047.	0.00
1.0000	4.84E-04	112.4424	90.8105	-2.40E-04	662.8058	2850053.	-51.5310	21288.	0.00
1.2000	4.37E-04	129.5738	80.2208	-2.32E-04	763.7895	2850053.	-54.3658	24886.	0.00
1.4000	3.92E-04	144.5307	69.1255	-2.22E-04	851.9546	2850053.	-56.5877	28906.	0.00
1.6000	3.48E-04	157.2240	57.6473	-2.11E-04	926.7771	2850053.	-58.1938	33429.	0.00
1.8000	3.07E-04	167.5896	45.9096	-2.00E-04	987.8784	2850053.	-59.1837	38556.	0.00
2.0000	2.68E-04	175.5879	34.0353	-1.88E-04	1035.	2850053.	-59.5588	44414.	0.00
2.2000	2.32E-04	181.2037	22.1473	-1.75E-04	1068.	2850053.	-59.3216	51172.	0.00
2.4000	1.98E-04	184.4468	10.3676	-1.63E-04	1087.	2850053.	-58.4747	59049.	0.00
2.6000	1.67E-04	185.3508	-1.1817	-1.50E-04	1093.	2850053.	-57.0187	68350.	0.00
2.8000	1.38E-04	183.9741	-12.1369	-1.37E-04	1084.	2850053.	-52.5332	76005.	0.00
3.0000	1.12E-04	180.4960	-21.9590	-1.24E-04	1064.	2850053.	-45.6882	81434.	0.00
3.2000	8.87E-05	175.1905	-30.3809	-1.11E-04	1033.	2850053.	-38.5304	86863.	0.00

3.4000	6.77E-05	168.3437	-37.3571	-9.93E-05	992.3233	2850053.	-31.2319	92292.	0.00
3.6000	4.90E-05	160.2476	-42.8749	-8.77E-05	944.6001	2850053.	-23.9458	97721.	0.00
3.8000	3.26E-05	151.1937	-46.9500	-7.68E-05	891.2308	2850053.	-16.8059	103150.	0.00
4.0000	1.83E-05	141.4676	-49.6233	-6.65E-05	833.8989	2850053.	-9.9264	108579.	0.00
4.2000	5.97E-06	131.3444	-50.9561	-5.70E-05	774.2265	2850053.	-3.4024	114008.	0.00
4.4000	-4.50E-06	121.0852	-50.8777	-4.81E-05	713.7519	2850053.	4.1867	185926.	0.00
4.6000	-1.33E-05	110.9933	-49.8316	-4.00E-05	654.2644	2850053.	6.2745	94521.	0.00
4.8000	-2.05E-05	101.1525	-48.4571	-3.25E-05	596.2564	2850053.	7.4701	72909.	0.00
5.0000	-2.63E-05	91.6105	-46.8761	-2.58E-05	540.0097	2850053.	8.3407	63459.	0.00
5.2000	-3.08E-05	82.4021	-45.1396	-1.97E-05	485.7297	2850053.	9.0239	58603.	0.00
5.4000	-3.41E-05	73.5547	-43.2795	-1.42E-05	433.5773	2850053.	9.5771	56089.	0.00
5.6000	-3.65E-05	65.0903	-41.3188	-9.32E-06	383.6830	2850053.	10.0301	55004.	0.00
5.8000	-3.79E-05	57.0271	-39.2757	-5.04E-06	336.1538	2850053.	10.4005	54916.	0.00
6.0000	-3.85E-05	49.3800	-37.1657	-1.30E-06	291.0767	2850053.	10.6994	55603.	0.00
6.2000	-3.84E-05	42.1608	-35.0024	1.91E-06	248.5225	2850053.	10.9343	56952.	0.00
6.4000	-3.77E-05	35.3791	-32.7979	4.63E-06	208.5464	2850053.	11.1106	58910.	0.00
6.6000	-3.65E-05	29.0417	-30.5636	6.89E-06	171.1900	2850053.	11.2322	61468.	0.00
6.8000	-3.50E-05	23.1536	-28.3102	8.72E-06	136.4820	2850053.	11.3019	64648.	0.00
7.0000	-3.31E-05	17.7176	-26.0478	1.02E-05	104.4389	2850053.	11.3221	68499.	0.00
7.2000	-3.09E-05	12.7345	-23.7861	1.12E-05	75.0653	2850053.	11.2944	73098.	0.00
7.4000	-2.86E-05	8.2032	-21.5347	1.20E-05	48.3548	2850053.	11.2202	78553.	0.00
7.6000	-2.61E-05	4.1207	-19.3026	1.24E-05	24.2898	2850053.	11.1008	85005.	0.00
7.8000	-2.36E-05	0.4822	-17.0988	1.26E-05	2.8422	2850053.	10.9369	92643.	0.00
8.0000	-2.11E-05	-2.7188	-14.9321	1.25E-05	16.0266	2850053.	10.7294	101716.	0.00
8.2000	-1.86E-05	-5.4907	-12.8113	1.22E-05	32.3656	2850053.	10.4788	112549.	0.00
8.4000	-1.62E-05	-7.8434	-10.7449	1.17E-05	46.2338	2850053.	10.1855	125577.	0.00
8.6000	-1.39E-05	-9.7886	-8.7414	1.11E-05	57.7004	2850053.	9.8500	141388.	0.00
8.8000	-1.18E-05	-11.3399	-6.8091	1.04E-05	66.8446	2850053.	9.4721	160792.	0.00
9.0000	-9.79E-06	-12.5123	-4.8371	9.52E-06	73.7554	2850053.	10.2482	209367.	0.00
9.2000	-7.97E-06	-13.2748	-2.8561	8.62E-06	78.2498	2850053.	9.5619	239855.	0.00
9.4000	-6.34E-06	-13.6547	-1.0149	7.67E-06	80.4896	2850053.	8.8498	279051.	0.00
9.6000	-4.90E-06	-13.6807	0.6811	6.71E-06	80.6428	2850053.	8.1101	330749.	0.00
9.8000	-3.66E-06	-13.3823	2.2260	5.76E-06	78.8838	2850053.	7.3388	401304.	0.00
10.0000	-2.60E-06	-12.7904	3.6125	4.85E-06	75.3944	2850053.	6.5266	502306.	0.00
10.2000	-1.72E-06	-11.9373	4.8305	3.98E-06	70.3661	2850053.	5.6538	657680.	0.00
10.4000	-1.01E-06	-10.8581	5.8633	3.18E-06	64.0047	2850053.	4.6736	927735.	0.00
10.6000	-4.48E-07	-9.5920	6.3484	2.46E-06	56.5414	2850053.	0.1775	79233.	0.00
10.8000	-2.34E-08	-8.3188	6.3671	1.83E-06	49.0361	2850053.	0.00926	79233.	0.00
11.0000	2.85E-07	-7.0452	6.3567	1.29E-06	41.5288	2850053.	-0.1128	79233.	0.00
11.2000	4.94E-07	-5.7761	6.3259	8.43E-07	34.0479	2850053.	-0.1956	79233.	0.00
11.4000	6.22E-07	-4.5148	6.2817	4.82E-07	26.6133	2850053.	-0.2463	79233.	0.00
11.6000	6.87E-07	-3.2634	5.7988	2.09E-07	19.2367	2850053.	-4.5828	1335033.	0.00
11.8000	7.05E-07	-2.1953	4.8724	1.75E-08	12.9406	2850053.	-4.6805	1326978.	0.00
12.0000	6.94E-07	-1.3144	3.8371	-1.06E-07	7.7482	2850053.	-5.6725	1635816.	0.00

12.2000	6.63E-07	-0.6605	2.5891	-1.75E-07	3.8932	2850053.	-6.8077	2053045.	0.00
12.4000	6.24E-07	-0.2788	1.2164	-2.08E-07	1.6434	2850053.	-6.9196	2219399.	0.00
12.6000	5.80E-07	-0.1739	0.4851	-2.24E-07	1.0251	2850053.	-0.3939	135828.	0.00
12.8000	5.34E-07	-0.08478	0.4094	-2.33E-07	0.4997	2850053.	-0.3627	135828.	0.00
13.0000	4.87E-07	-0.01015	0.3401	-2.36E-07	0.05983	2850053.	-0.3307	135828.	0.00
13.2000	4.40E-07	0.05125	0.2771	-2.35E-07	0.3021	2850053.	-0.2985	135828.	0.00
13.4000	3.93E-07	0.1007	0.2206	-2.29E-07	0.5936	2850053.	-0.2669	135828.	0.00
13.6000	3.48E-07	0.1395	0.1703	-2.21E-07	0.8222	2850053.	-0.2362	135828.	0.00
13.8000	3.05E-07	0.1688	0.1260	-2.10E-07	0.9952	2850053.	-0.2068	135828.	0.00
14.0000	2.64E-07	0.1899	0.08740	-1.98E-07	1.1193	2850053.	-0.1791	135828.	0.00
14.2000	2.26E-07	0.2038	0.05417	-1.84E-07	1.2012	2850053.	-0.1532	135828.	0.00
14.4000	1.90E-07	0.2116	0.02594	-1.69E-07	1.2470	2850053.	-0.1292	135828.	0.00
14.6000	1.58E-07	0.2142	0.00230	-1.54E-07	1.2624	2850053.	-0.1072	135828.	0.00
14.8000	1.28E-07	0.2125	-0.01714	-1.39E-07	1.2525	2850053.	-0.08726	135828.	0.00
15.0000	1.02E-07	0.2073	-0.03281	-1.25E-07	1.2220	2850053.	-0.06935	135828.	0.00
15.2000	7.87E-08	0.1994	-0.04508	-1.10E-07	1.1751	2850053.	-0.05342	135828.	0.00
15.4000	5.80E-08	0.1893	-0.05436	-9.67E-08	1.1157	2850053.	-0.03939	135828.	0.00
15.6000	4.00E-08	0.1776	-0.06102	-8.38E-08	1.0469	2850053.	-0.02716	135828.	0.00
15.8000	2.45E-08	0.1649	-0.06540	-7.18E-08	0.9718	2850053.	-0.01662	135828.	0.00
16.0000	1.13E-08	0.1514	-0.06782	-6.07E-08	0.8927	2850053.	-0.00766	135828.	0.00
16.2000	2.02E-10	0.1377	-0.06860	-5.05E-08	0.8119	2850053.	-1.37E-04	135828.	0.00
16.4000	-8.94E-09	0.1240	-0.06801	-4.14E-08	0.7310	2850053.	0.00607	135828.	0.00
16.6000	-1.63E-08	0.1105	-0.06629	-3.31E-08	0.6515	2850053.	0.01110	135828.	0.00
16.8000	-2.22E-08	0.09749	-0.06368	-2.58E-08	0.5747	2850053.	0.01507	135828.	0.00
17.0000	-2.67E-08	0.08506	-0.06036	-1.94E-08	0.5014	2850053.	0.01811	135828.	0.00
17.2000	-3.00E-08	0.07335	-0.05651	-1.39E-08	0.4324	2850053.	0.02035	135828.	0.00
17.4000	-3.22E-08	0.06245	-0.05229	-9.10E-09	0.3681	2850053.	0.02188	135828.	0.00
17.6000	-3.36E-08	0.05243	-0.04782	-5.07E-09	0.3091	2850053.	0.02282	135828.	0.00
17.8000	-3.42E-08	0.04332	-0.04321	-1.71E-09	0.2554	2850053.	0.02326	135828.	0.00
18.0000	-3.43E-08	0.03515	-0.03856	1.05E-09	0.2072	2850053.	0.02328	135828.	0.00
18.2000	-3.38E-08	0.02790	-0.03393	3.26E-09	0.1645	2850053.	0.02297	135828.	0.00
18.4000	-3.30E-08	0.02157	-0.02940	4.99E-09	0.1272	2850053.	0.02240	135828.	0.00
18.6000	-3.18E-08	0.01614	-0.02500	6.32E-09	0.09515	2850053.	0.02162	135828.	0.00
18.8000	-3.05E-08	0.01157	-0.02077	7.29E-09	0.06823	2850053.	0.02068	135828.	0.00
19.0000	-2.89E-08	0.00784	-0.01673	7.97E-09	0.04619	2850053.	0.01964	135828.	0.00
19.2000	-2.73E-08	0.00488	-0.01292	8.42E-09	0.02877	2850053.	0.01852	135828.	0.00
19.4000	-2.55E-08	0.00267	-0.00933	8.68E-09	0.01572	2850053.	0.01735	135828.	0.00
19.6000	-2.38E-08	0.00115	-0.00598	8.81E-09	0.00677	2850053.	0.01616	135828.	0.00
19.8000	-2.20E-08	2.75E-04	-0.00287	8.86E-09	0.00162	2850053.	0.01495	135828.	0.00
20.0000	-2.02E-08	0.00	0.00	8.87E-09	0.00	2850053.	0.01375	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 1:

Pile-head deflection = 0.00073809 meters
Computed slope at pile head = -0.00026077 radians
Maximum bending moment = 185.35079363 kN-m
Maximum shear force = 125.00000000 kN
Depth of maximum bending moment = 2.60000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 6
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 2

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 175.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00118	1.24E-10	175.0000	-4.00E-04	7.29E-10	2850053.	0.00	0.00	0.00
0.2000	0.00110	35.0000	172.0239	-3.99E-04	206.3120	2850053.	-29.7612	5429.	0.00
0.4000	0.00102	68.8096	164.0566	-3.95E-04	405.6067	2850053.	-49.9119	9816.	0.00
0.6000	9.38E-04	100.6226	153.4779	-3.89E-04	593.1329	2850053.	-55.8750	11909.	0.00
0.8000	8.61E-04	130.2007	141.7777	-3.81E-04	767.4847	2850053.	-61.1263	14194.	0.00
1.0000	7.86E-04	157.3337	129.1001	-3.71E-04	927.4237	2850053.	-65.6505	16705.	0.00
1.2000	7.13E-04	181.8407	115.5914	-3.59E-04	1072.	2850053.	-69.4356	19479.	0.00
1.4000	6.42E-04	203.5703	101.4006	-3.45E-04	1200.	2850053.	-72.4726	22563.	0.00
1.6000	5.75E-04	222.4010	86.6778	-3.31E-04	1311.	2850053.	-74.7553	26013.	0.00
1.8000	5.10E-04	238.2414	71.5743	-3.14E-04	1404.	2850053.	-76.2799	29901.	0.00
2.0000	4.49E-04	251.0307	56.2419	-2.97E-04	1480.	2850053.	-77.0441	34317.	0.00
2.2000	3.91E-04	260.7382	40.8328	-2.79E-04	1537.	2850053.	-77.0469	39376.	0.00
2.4000	3.37E-04	267.3638	25.4995	-2.61E-04	1576.	2850053.	-76.2867	45230.	0.00
2.6000	2.87E-04	270.9380	10.3948	-2.42E-04	1597.	2850053.	-74.7601	52086.	0.00
2.8000	2.41E-04	271.5217	-4.3271	-2.23E-04	1601.	2850053.	-72.4590	60231.	0.00
3.0000	1.98E-04	269.2071	-18.5097	-2.04E-04	1587.	2850053.	-69.3665	70082.	0.00

3.2000	1.59E-04	264.1179	-31.9913	-1.85E-04	1557.	2850053.	-65.4498	82281.	0.00
3.4000	1.24E-04	256.4106	-44.2549	-1.67E-04	1511.	2850053.	-57.1862	92292.	0.00
3.6000	9.24E-05	246.4159	-54.4863	-1.49E-04	1453.	2850053.	-45.1275	97721.	0.00
3.8000	6.43E-05	234.6161	-62.3129	-1.32E-04	1383.	2850053.	-33.1389	103150.	0.00
4.0000	3.94E-05	221.4907	-67.7680	-1.16E-04	1306.	2850053.	-21.4121	108579.	0.00
4.2000	1.77E-05	207.5089	-70.9203	-1.01E-04	1223.	2850053.	-10.1102	114008.	0.00
4.4000	-1.06E-06	193.1226	-71.6668	-8.72E-05	1138.	2850053.	2.6451	500814.	0.00
4.6000	-1.71E-05	178.8422	-70.7128	-7.41E-05	1054.	2850053.	6.8949	80462.	0.00
4.8000	-3.07E-05	164.8375	-69.1632	-6.21E-05	971.6556	2850053.	8.6016	56018.	0.00
5.0000	-4.20E-05	151.1769	-67.3233	-5.10E-05	891.1315	2850053.	9.7970	46687.	0.00
5.2000	-5.11E-05	137.9082	-65.2706	-4.08E-05	812.9173	2850053.	10.7304	41994.	0.00
5.4000	-5.83E-05	125.0687	-63.0482	-3.16E-05	737.2332	2850053.	11.4931	39423.	0.00
5.6000	-6.38E-05	112.6889	-60.6859	-2.33E-05	664.2590	2850053.	12.1295	38052.	0.00
5.8000	-6.76E-05	100.7943	-58.2065	-1.58E-05	594.1448	2850053.	12.6646	37460.	0.00
6.0000	-7.01E-05	89.4063	-55.6287	-9.11E-06	527.0167	2850053.	13.1142	37434.	0.00
6.2000	-7.13E-05	78.5428	-52.9684	-3.22E-06	462.9807	2850053.	13.4884	37857.	0.00
6.4000	-7.14E-05	68.2189	-50.2401	1.93E-06	402.1251	2850053.	13.7945	38665.	0.00
6.6000	-7.05E-05	58.4468	-47.4569	6.38E-06	344.5221	2850053.	14.0376	39830.	0.00
6.8000	-6.88E-05	49.2362	-44.6310	1.02E-05	290.2288	2850053.	14.2214	41340.	0.00
7.0000	-6.64E-05	40.5944	-41.7740	1.33E-05	239.2888	2850053.	14.3490	43202.	0.00
7.2000	-6.35E-05	32.5266	-38.8968	1.59E-05	191.7321	2850053.	14.4224	45439.	0.00
7.4000	-6.01E-05	25.0357	-36.0102	1.79E-05	147.5759	2850053.	14.4434	48082.	0.00
7.6000	-5.63E-05	18.1225	-33.1246	1.94E-05	106.8253	2850053.	14.4134	51180.	0.00
7.8000	-5.23E-05	11.7858	-30.2499	2.05E-05	69.4731	2850053.	14.3335	54796.	0.00
8.0000	-4.81E-05	6.0225	-27.3961	2.11E-05	35.5005	2850053.	14.2046	59011.	0.00
8.2000	-4.39E-05	0.8274	-24.5729	2.13E-05	4.8772	2850053.	14.0274	63929.	0.00
8.4000	-3.96E-05	-3.8066	-21.7899	2.12E-05	22.4387	2850053.	13.8026	69685.	0.00
8.6000	-3.54E-05	-7.8886	-19.0566	2.08E-05	46.5001	2850053.	13.5305	76448.	0.00
8.8000	-3.13E-05	-11.4293	-16.3824	2.01E-05	67.3713	2850053.	13.2117	84441.	0.00
9.0000	-2.73E-05	-14.4415	-13.6068	1.92E-05	85.1273	2850053.	14.5441	106367.	0.00
9.2000	-2.36E-05	-16.8720	-10.7680	1.81E-05	99.4540	2850053.	13.8435	117295.	0.00
9.4000	-2.01E-05	-18.7487	-8.0721	1.69E-05	110.5166	2850053.	13.1152	130507.	0.00
9.6000	-1.69E-05	-20.1008	-5.5246	1.55E-05	118.4869	2850053.	12.3600	146652.	0.00
9.8000	-1.39E-05	-20.9586	-3.1308	1.41E-05	123.5429	2850053.	11.5782	166645.	0.00
10.0000	-1.12E-05	-21.3532	-0.8960	1.26E-05	125.8689	2850053.	10.7694	191807.	0.00
10.2000	-8.86E-06	-21.3170	1.1740	1.11E-05	125.6556	2850053.	9.9316	224122.	0.00
10.4000	-6.80E-06	-20.8835	3.0733	9.60E-06	123.1007	2850053.	9.0612	266694.	0.00
10.6000	-5.02E-06	-20.0876	4.7945	8.17E-06	118.4092	2850053.	8.1510	324689.	0.00
10.8000	-3.53E-06	-18.9657	6.3284	6.80E-06	111.7959	2850053.	7.1876	407424.	0.00
11.0000	-2.30E-06	-17.5563	7.6616	5.52E-06	103.4878	2850053.	6.1441	533797.	0.00
11.2000	-1.32E-06	-15.9011	8.7718	4.34E-06	93.7310	2850053.	4.9583	750035.	0.00
11.4000	-5.65E-07	-14.0476	9.6115	3.29E-06	82.8052	2850053.	3.4385	1216265.	0.00
11.6000	-5.86E-09	-12.0565	9.9556	2.37E-06	71.0686	2850053.	0.00232	79233.	0.00
11.8000	3.84E-07	-10.0653	9.9406	1.60E-06	59.3315	2850053.	-0.1523	79233.	0.00

12.0000	6.34E-07	-8.0803	9.8925	9.62E-07	47.6302	2850053.	-0.3278	103488.	0.00
12.2000	7.69E-07	-6.1083	9.1784	4.64E-07	36.0063	2850053.	-6.8135	1771425.	0.00
12.4000	8.19E-07	-4.4089	7.8217	9.51E-08	25.9889	2850053.	-6.7536	1648777.	0.00
12.6000	8.07E-07	-2.9797	6.4914	-1.64E-07	17.5639	2850053.	-6.5496	1622599.	0.00
12.8000	7.54E-07	-1.8124	5.2135	-3.32E-07	10.6832	2850053.	-6.2286	1653129.	0.00
13.0000	6.74E-07	-0.8942	4.0096	-4.27E-07	5.2712	2850053.	-5.8109	1723352.	0.00
13.2000	5.83E-07	-0.2085	2.8971	-4.66E-07	1.2292	2850053.	-5.3142	1824156.	0.00
13.4000	4.88E-07	0.2646	1.8899	-4.64E-07	1.5597	2850053.	-4.7575	1949822.	0.00
13.6000	3.97E-07	0.5474	0.9977	-4.36E-07	3.2269	2850053.	-4.1645	2097760.	0.00
13.8000	3.14E-07	0.6637	0.2248	-3.93E-07	3.9122	2850053.	-3.5646	2271987.	0.00
14.0000	2.40E-07	0.6374	-0.1480	-3.47E-07	3.7569	2850053.	-0.1629	135828.	0.00
14.2000	1.75E-07	0.6045	-0.1761	-3.04E-07	3.5633	2850053.	-0.1187	135828.	0.00
14.4000	1.18E-07	0.5669	-0.1960	-2.63E-07	3.3417	2850053.	-0.08036	135828.	0.00
14.6000	6.98E-08	0.5261	-0.2088	-2.24E-07	3.1011	2850053.	-0.04738	135828.	0.00
14.8000	2.86E-08	0.4834	-0.2155	-1.89E-07	2.8494	2850053.	-0.01942	135828.	0.00
15.0000	-5.80E-09	0.4399	-0.2170	-1.57E-07	2.5930	2850053.	0.00394	135828.	0.00
15.2000	-3.40E-08	0.3966	-0.2143	-1.27E-07	2.3376	2850053.	0.02310	135828.	0.00
15.4000	-5.67E-08	0.3542	-0.2082	-1.01E-07	2.0877	2850053.	0.03849	135828.	0.00
15.6000	-7.44E-08	0.3133	-0.1993	-7.74E-08	1.8468	2850053.	0.05050	135828.	0.00
15.8000	-8.76E-08	0.2745	-0.1883	-5.68E-08	1.6178	2850053.	0.05952	135828.	0.00
16.0000	-9.71E-08	0.2380	-0.1757	-3.88E-08	1.4029	2850053.	0.06592	135828.	0.00
16.2000	-1.03E-07	0.2042	-0.1621	-2.33E-08	1.2035	2850053.	0.07006	135828.	0.00
16.4000	-1.06E-07	0.1731	-0.1479	-1.01E-08	1.0206	2850053.	0.07225	135828.	0.00
16.6000	-1.07E-07	0.1450	-0.1334	1.11E-09	0.8548	2850053.	0.07279	135828.	0.00
16.8000	-1.06E-07	0.1198	-0.1189	1.04E-08	0.7061	2850053.	0.07195	135828.	0.00
17.0000	-1.03E-07	0.09745	-0.1047	1.80E-08	0.5744	2850053.	0.06997	135828.	0.00
17.2000	-9.87E-08	0.07790	-0.09102	2.42E-08	0.4592	2850053.	0.06706	135828.	0.00
17.4000	-9.34E-08	0.06104	-0.07797	2.90E-08	0.3598	2850053.	0.06340	135828.	0.00
17.6000	-8.71E-08	0.04671	-0.06572	3.28E-08	0.2754	2850053.	0.05916	135828.	0.00
17.8000	-8.02E-08	0.03475	-0.05435	3.57E-08	0.2049	2850053.	0.05448	135828.	0.00
18.0000	-7.28E-08	0.02497	-0.04396	3.78E-08	0.1472	2850053.	0.04947	135828.	0.00
18.2000	-6.51E-08	0.01717	-0.03459	3.93E-08	0.1012	2850053.	0.04422	135828.	0.00
18.4000	-5.71E-08	0.01114	-0.02629	4.03E-08	0.06566	2850053.	0.03880	135828.	0.00
18.6000	-4.90E-08	0.00666	-0.01908	4.09E-08	0.03924	2850053.	0.03328	135828.	0.00
18.8000	-4.08E-08	0.00351	-0.01298	4.12E-08	0.02068	2850053.	0.02770	135828.	0.00
19.0000	-3.25E-08	0.00147	-0.00800	4.14E-08	0.00864	2850053.	0.02208	135828.	0.00
19.2000	-2.42E-08	3.07E-04	-0.00415	4.15E-08	0.00181	2850053.	0.01645	135828.	0.00
19.4000	-1.59E-08	-1.93E-04	-0.00142	4.15E-08	0.00114	2850053.	0.01082	135828.	0.00
19.6000	-7.63E-09	-2.61E-04	1.79E-04	4.15E-08	0.00154	2850053.	0.00518	135828.	0.00
19.8000	6.59E-10	-1.22E-04	6.52E-04	4.14E-08	7.16E-04	2850053.	-4.48E-04	135828.	0.00
20.0000	8.95E-09	0.00	0.00	4.14E-08	0.00	2850053.	-0.00608	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 2:

Pile-head deflection = 0.00117637 meters
Computed slope at pile head = -0.00039988 radians
Maximum bending moment = 271.52174273 kN-m
Maximum shear force = 175.00000000 kN
Depth of maximum bending moment = 2.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 9
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 3

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 200.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00142	4.64E-11	200.0000	-4.76E-04	2.73E-10	2850053.	0.00	0.00	0.00
0.2000	0.00133	40.0000	196.3931	-4.74E-04	235.7851	2850053.	-36.0686	5429.	0.00
0.4000	0.00123	78.5573	187.2879	-4.70E-04	463.0658	2850053.	-54.9836	8910.	0.00
0.6000	0.00114	114.9152	175.6295	-4.64E-04	677.3821	2850053.	-61.6008	10801.	0.00
0.8000	0.00105	148.8091	162.7245	-4.54E-04	877.1739	2850053.	-67.4490	12863.	0.00
1.0000	9.59E-04	180.0050	148.7285	-4.43E-04	1061.	2850053.	-72.5112	15123.	0.00
1.2000	8.72E-04	208.3004	133.8000	-4.29E-04	1228.	2850053.	-76.7740	17616.	0.00
1.4000	7.87E-04	233.5250	118.0999	-4.14E-04	1377.	2850053.	-80.2267	20380.	0.00
1.6000	7.06E-04	255.5404	101.7911	-3.96E-04	1506.	2850053.	-82.8616	23467.	0.00
1.8000	6.29E-04	274.2414	85.0376	-3.78E-04	1617.	2850053.	-84.6731	26935.	0.00
2.0000	5.55E-04	289.5554	68.0045	-3.58E-04	1707.	2850053.	-85.6576	30864.	0.00
2.2000	4.85E-04	301.4432	50.8575	-3.37E-04	1777.	2850053.	-85.8122	35351.	0.00
2.4000	4.20E-04	309.8985	33.7630	-3.16E-04	1827.	2850053.	-85.1335	40526.	0.00
2.6000	3.59E-04	314.9484	16.8880	-2.94E-04	1857.	2850053.	-83.6161	46565.	0.00
2.8000	3.03E-04	316.6537	0.4014	-2.72E-04	1867.	2850053.	-81.2497	53708.	0.00

3.0000	2.50E-04	315.1090	-15.5250	-2.50E-04	1857.	2850053.	-78.0146	62307.	0.00
3.2000	2.03E-04	310.4437	-30.7140	-2.28E-04	1830.	2850053.	-73.8754	72888.	0.00
3.4000	1.59E-04	302.8234	-44.9783	-2.06E-04	1785.	2850053.	-68.7676	86309.	0.00
3.6000	1.20E-04	292.4524	-57.7303	-1.85E-04	1724.	2850053.	-58.7522	97721.	0.00
3.8000	8.52E-05	279.7313	-68.0019	-1.65E-04	1649.	2850053.	-43.9638	103150.	0.00
4.0000	5.42E-05	265.2516	-75.3389	-1.46E-04	1564.	2850053.	-29.4066	108579.	0.00
4.2000	2.68E-05	249.5957	-79.8080	-1.28E-04	1471.	2850053.	-15.2843	114008.	0.00
4.4000	2.96E-06	233.3284	-81.7101	-1.11E-04	1375.	2850053.	-3.7364	252262.	0.00
4.6000	-1.76E-05	216.9117	-81.3879	-9.53E-05	1279.	2850053.	6.9583	79011.	0.00
4.8000	-3.51E-05	200.7733	-79.7924	-8.06E-05	1183.	2850053.	8.9969	51199.	0.00
5.0000	-4.99E-05	184.9947	-77.8551	-6.71E-05	1090.	2850053.	10.3754	41620.	0.00
5.2000	-6.20E-05	169.6312	-75.6734	-5.46E-05	999.9127	2850053.	11.4420	36924.	0.00
5.4000	-7.17E-05	154.7254	-73.2979	-4.33E-05	912.0484	2850053.	12.3129	34340.	0.00
5.6000	-7.93E-05	140.3120	-70.7624	-3.29E-05	827.0872	2850053.	13.0422	32903.	0.00
5.8000	-8.49E-05	126.4204	-68.0922	-2.35E-05	745.2012	2850053.	13.6601	32190.	0.00
6.0000	-8.87E-05	113.0752	-65.3077	-1.51E-05	666.5361	2850053.	14.1848	31986.	0.00
6.2000	-9.09E-05	100.2973	-62.4263	-7.65E-06	591.2155	2850053.	14.6284	32176.	0.00
6.4000	-9.18E-05	88.1046	-59.4636	-1.04E-06	519.3441	2850053.	14.9991	32694.	0.00
6.6000	-9.13E-05	76.5119	-56.4334	4.73E-06	451.0092	2850053.	15.3028	33505.	0.00
6.8000	-8.99E-05	65.5313	-53.3488	9.72E-06	386.2825	2850053.	15.5438	34595.	0.00
7.0000	-8.75E-05	55.1724	-50.2218	1.40E-05	325.2208	2850053.	15.7255	35961.	0.00
7.2000	-8.43E-05	45.4426	-47.0642	1.75E-05	267.8669	2850053.	15.8503	37613.	0.00
7.4000	-8.05E-05	36.3467	-43.8872	2.04E-05	214.2503	2850053.	15.9204	39571.	0.00
7.6000	-7.61E-05	27.8877	-40.7014	2.26E-05	164.3875	2850053.	15.9372	41863.	0.00
7.8000	-7.14E-05	20.0661	-37.5175	2.43E-05	118.2825	2850053.	15.9021	44530.	0.00
8.0000	-6.64E-05	12.8807	-34.3456	2.54E-05	75.9269	2850053.	15.8162	47622.	0.00
8.2000	-6.12E-05	6.3279	-31.1960	2.61E-05	37.3005	2850053.	15.6805	51206.	0.00
8.4000	-5.60E-05	0.4023	-28.0784	2.64E-05	2.3714	2850053.	15.4957	55365.	0.00
8.6000	-5.07E-05	-4.9035	-25.0025	2.62E-05	28.9040	2850053.	15.2627	60205.	0.00
8.8000	-4.55E-05	-9.5987	-21.9780	2.57E-05	56.5808	2850053.	14.9822	65859.	0.00
9.0000	-4.04E-05	-13.6947	-18.8206	2.49E-05	80.7249	2850053.	16.5916	82081.	0.00
9.2000	-3.55E-05	-17.1269	-15.5715	2.38E-05	100.9570	2850053.	15.8996	89451.	0.00
9.4000	-3.09E-05	-19.9233	-12.4635	2.25E-05	117.4402	2850053.	15.1807	98220.	0.00
9.6000	-2.66E-05	-22.1123	-9.5017	2.10E-05	130.3440	2850053.	14.4370	108739.	0.00
9.8000	-2.25E-05	-23.7239	-6.6910	1.94E-05	139.8438	2850053.	13.6702	121483.	0.00
10.0000	-1.88E-05	-24.7887	-4.0358	1.77E-05	146.1204	2850053.	12.8820	137110.	0.00
10.2000	-1.54E-05	-25.3383	-1.5402	1.59E-05	149.3595	2850053.	12.0738	156559.	0.00
10.4000	-1.24E-05	-25.4048	0.7918	1.42E-05	149.7519	2850053.	11.2464	181209.	0.00
10.6000	-9.76E-06	-25.0215	2.9565	1.24E-05	147.4925	2850053.	10.4005	213170.	0.00
10.8000	-7.45E-06	-24.2222	4.9501	1.07E-05	142.7809	2850053.	9.5358	255846.	0.00
11.0000	-5.49E-06	-23.0415	6.7688	9.01E-06	135.8208	2850053.	8.6511	315117.	0.00
11.2000	-3.85E-06	-21.5147	8.4083	7.45E-06	126.8210	2850053.	7.7431	402183.	0.00
11.4000	-2.51E-06	-19.6782	9.8630	6.00E-06	115.9954	2850053.	6.8048	541733.	0.00
11.6000	-1.45E-06	-17.5695	11.1261	4.69E-06	103.5654	2850053.	5.8257	803447.	0.00

11.8000	-6.35E-07	-15.2277	11.7338	3.54E-06	89.7618	2850053.	0.2514	79233.	0.00
12.0000	-3.29E-08	-12.8759	11.7606	2.56E-06	75.8989	2850053.	0.01701	103488.	0.00
12.2000	3.88E-07	-10.5235	11.3401	1.74E-06	62.0319	2850053.	-4.2220	2175249.	0.00
12.4000	6.62E-07	-8.3399	10.3728	1.07E-06	49.1605	2850053.	-5.4511	1647953.	0.00
12.6000	8.18E-07	-6.3743	9.2253	5.58E-07	37.5744	2850053.	-6.0238	1473013.	0.00
12.8000	8.85E-07	-4.6498	7.9941	1.71E-07	27.4086	2850053.	-6.2888	1421577.	0.00
13.0000	8.86E-07	-3.1767	6.7283	-1.03E-07	18.7255	2850053.	-6.3692	1437151.	0.00
13.2000	8.43E-07	-1.9584	5.4586	-2.84E-07	11.5443	2850053.	-6.3279	1500585.	0.00
13.4000	7.73E-07	-0.9933	4.2054	-3.87E-07	5.8551	2850053.	-6.2039	1605314.	0.00
13.6000	6.89E-07	-0.2763	2.9825	-4.32E-07	1.6286	2850053.	-6.0253	1750234.	0.00
13.8000	6.00E-07	0.1997	1.7986	-4.34E-07	1.1772	2850053.	-5.8136	1937131.	0.00
14.0000	5.15E-07	0.4431	0.6587	-4.12E-07	2.6122	2850053.	-5.5853	2170114.	0.00
14.2000	4.35E-07	0.4632	0.07057	-3.80E-07	2.7302	2850053.	-0.2958	135828.	0.00
14.4000	3.63E-07	0.4714	0.01636	-3.47E-07	2.7786	2850053.	-0.2463	135828.	0.00
14.6000	2.97E-07	0.4697	-0.02841	-3.14E-07	2.7688	2850053.	-0.2014	135828.	0.00
14.8000	2.37E-07	0.4600	-0.06465	-2.82E-07	2.7116	2850053.	-0.1610	135828.	0.00
15.0000	1.84E-07	0.4439	-0.09324	-2.50E-07	2.6164	2850053.	-0.1249	135828.	0.00
15.2000	1.37E-07	0.4227	-0.1150	-2.20E-07	2.4917	2850053.	-0.09309	135828.	0.00
15.4000	9.61E-08	0.3978	-0.1309	-1.91E-07	2.3451	2850053.	-0.06529	135828.	0.00
15.6000	6.08E-08	0.3704	-0.1415	-1.64E-07	2.1831	2850053.	-0.04128	135828.	0.00
15.8000	3.06E-08	0.3412	-0.1477	-1.39E-07	2.0114	2850053.	-0.02080	135828.	0.00
16.0000	5.26E-09	0.3113	-0.1502	-1.16E-07	1.8348	2850053.	-0.00358	135828.	0.00
16.2000	-1.57E-08	0.2812	-0.1495	-9.51E-08	1.6573	2850053.	0.01068	135828.	0.00
16.4000	-3.28E-08	0.2515	-0.1462	-7.64E-08	1.4823	2850053.	0.02226	135828.	0.00
16.6000	-4.63E-08	0.2227	-0.1408	-5.98E-08	1.3126	2850053.	0.03144	135828.	0.00
16.8000	-5.67E-08	0.1952	-0.1338	-4.51E-08	1.1504	2850053.	0.03850	135828.	0.00
17.0000	-6.43E-08	0.1692	-0.1256	-3.23E-08	0.9971	2850053.	0.04370	135828.	0.00
17.2000	-6.96E-08	0.1449	-0.1165	-2.13E-08	0.8542	2850053.	0.04729	135828.	0.00
17.4000	-7.29E-08	0.1226	-0.1068	-1.19E-08	0.7225	2850053.	0.04949	135828.	0.00
17.6000	-7.44E-08	0.1022	-0.09681	-4.05E-09	0.6024	2850053.	0.05053	135828.	0.00
17.8000	-7.45E-08	0.08384	-0.08670	2.48E-09	0.4942	2850053.	0.05060	135828.	0.00
18.0000	-7.34E-08	0.06751	-0.07665	7.79E-09	0.3980	2850053.	0.04986	135828.	0.00
18.2000	-7.14E-08	0.05318	-0.06682	1.20E-08	0.3135	2850053.	0.04848	135828.	0.00
18.4000	-6.86E-08	0.04079	-0.05731	1.53E-08	0.2404	2850053.	0.04659	135828.	0.00
18.6000	-6.53E-08	0.03026	-0.04822	1.78E-08	0.1783	2850053.	0.04432	135828.	0.00
18.8000	-6.15E-08	0.02150	-0.03961	1.96E-08	0.1267	2850053.	0.04176	135828.	0.00
19.0000	-5.74E-08	0.01441	-0.03154	2.09E-08	0.08495	2850053.	0.03899	135828.	0.00
19.2000	-5.31E-08	0.00888	-0.02403	2.17E-08	0.05236	2850053.	0.03608	135828.	0.00
19.4000	-4.87E-08	0.00480	-0.01711	2.22E-08	0.02829	2850053.	0.03309	135828.	0.00
19.6000	-4.43E-08	0.00204	-0.01080	2.24E-08	0.01201	2850053.	0.03005	135828.	0.00
19.8000	-3.98E-08	4.79E-04	-0.00509	2.25E-08	0.00282	2850053.	0.02700	135828.	0.00
20.0000	-3.52E-08	0.00	0.00	2.25E-08	0.00	2850053.	0.02394	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 3:

Pile-head deflection = 0.00142392 meters
Computed slope at pile head = -0.00047586 radians
Maximum bending moment = 316.65367056 kN-m
Maximum shear force = 200.00000000 kN
Depth of maximum bending moment = 2.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 10
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 4

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 250.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00196	6.18E-11	250.0000	-6.36E-04	3.64E-10	2850053.	0.00	0.00	0.00
0.2000	0.00184	50.0000	245.0165	-6.34E-04	294.7314	2850053.	-49.8352	5429.	0.00
0.4000	0.00171	98.0066	233.5618	-6.29E-04	577.7124	2850053.	-64.7114	7571.	0.00
0.6000	0.00158	143.4247	219.8305	-6.20E-04	845.4353	2850053.	-72.6020	9164.	0.00
0.8000	0.00146	185.9388	204.6082	-6.09E-04	1096.	2850053.	-79.6204	10896.	0.00
1.0000	0.00134	225.2680	188.0715	-5.94E-04	1328.	2850053.	-85.7472	12789.	0.00
1.2000	0.00122	261.1674	170.4001	-5.77E-04	1539.	2850053.	-90.9664	14867.	0.00
1.4000	0.00111	293.4281	151.7770	-5.58E-04	1730.	2850053.	-95.2649	17163.	0.00
1.6000	0.00100	321.8782	132.3872	-5.36E-04	1897.	2850053.	-98.6328	19714.	0.00
1.8000	8.96E-04	346.3830	112.4177	-5.13E-04	2042.	2850053.	-101.0626	22567.	0.00
2.0000	7.96E-04	366.8452	92.0566	-4.88E-04	2162.	2850053.	-102.5484	25780.	0.00
2.2000	7.01E-04	383.2056	71.4932	-4.61E-04	2259.	2850053.	-103.0855	29427.	0.00
2.4000	6.11E-04	395.4425	50.9178	-4.34E-04	2331.	2850053.	-102.6687	33604.	0.00
2.6000	5.27E-04	403.5727	30.5218	-4.06E-04	2379.	2850053.	-101.2910	38439.	0.00

2.8000	4.49E-04	407.6512	10.4986	-3.77E-04	2403.	2850053.	-98.9406	44105.	0.00
3.0000	3.76E-04	407.7721	-8.9551	-3.49E-04	2404.	2850053.	-95.5972	50846.	0.00
3.2000	3.09E-04	404.0692	-27.6374	-3.20E-04	2382.	2850053.	-91.2258	59025.	0.00
3.4000	2.48E-04	396.7172	-45.3366	-2.92E-04	2338.	2850053.	-85.7654	69204.	0.00
3.6000	1.92E-04	385.9345	-61.8241	-2.65E-04	2275.	2850053.	-79.1097	82326.	0.00
3.8000	1.42E-04	371.9875	-76.5989	-2.38E-04	2193.	2850053.	-68.6388	96725.	0.00
4.0000	9.69E-05	355.2950	-88.7227	-2.13E-04	2094.	2850053.	-52.5992	108579.	0.00
4.2000	5.68E-05	336.4984	-97.2224	-1.88E-04	1984.	2850053.	-32.3974	114008.	0.00
4.4000	2.15E-05	316.4060	-101.1858	-1.66E-04	1865.	2850053.	-7.2370	67310.	0.00
4.6000	-9.39E-06	296.0241	-101.3457	-1.44E-04	1745.	2850053.	5.6382	120137.	0.00
4.8000	-3.61E-05	275.8677	-99.8741	-1.24E-04	1626.	2850053.	9.0779	50263.	0.00
5.0000	-5.90E-05	256.0745	-97.8691	-1.05E-04	1509.	2850053.	10.9720	37203.	0.00
5.2000	-7.83E-05	236.7201	-95.5353	-8.80E-05	1395.	2850053.	12.3657	31604.	0.00
5.4000	-9.42E-05	217.8604	-92.9504	-7.21E-05	1284.	2850053.	13.4835	28627.	0.00
5.6000	-1.07E-04	199.5400	-90.1604	-5.74E-05	1176.	2850053.	14.4160	26923.	0.00
5.8000	-1.17E-04	181.7962	-87.1979	-4.41E-05	1072.	2850053.	15.2092	25959.	0.00
6.0000	-1.25E-04	164.6608	-84.0880	-3.19E-05	970.6140	2850053.	15.8900	25482.	0.00
6.2000	-1.30E-04	148.1610	-80.8514	-2.09E-05	873.3539	2850053.	16.4754	25358.	0.00
6.4000	-1.33E-04	132.3202	-77.5062	-1.11E-05	779.9784	2850053.	16.9768	25512.	0.00
6.6000	-1.34E-04	117.1585	-74.0683	-2.34E-06	690.6057	2850053.	17.4021	25900.	0.00
6.8000	-1.34E-04	102.6929	-70.5524	5.38E-06	605.3363	2850053.	17.7571	26498.	0.00
7.0000	-1.32E-04	88.9375	-66.9721	1.21E-05	524.2536	2850053.	18.0462	27295.	0.00
7.2000	-1.29E-04	75.9040	-63.3402	1.79E-05	447.4261	2850053.	18.2726	28289.	0.00
7.4000	-1.25E-04	63.6015	-59.6691	2.28E-05	374.9069	2850053.	18.4388	29484.	0.00
7.6000	-1.20E-04	52.0364	-55.9705	2.68E-05	306.7353	2850053.	18.5470	30893.	0.00
7.8000	-1.14E-04	41.2133	-52.2559	3.01E-05	242.9368	2850053.	18.5986	32532.	0.00
8.0000	-1.08E-04	31.1340	-48.5366	3.26E-05	183.5236	2850053.	18.5950	34425.	0.00
8.2000	-1.01E-04	21.7986	-44.8233	3.45E-05	128.4948	2850053.	18.5374	36605.	0.00
8.4000	-9.42E-05	13.2047	-41.1269	3.57E-05	77.8369	2850053.	18.4267	39110.	0.00
8.6000	-8.70E-05	5.3479	-37.4579	3.64E-05	31.5237	2850053.	18.2637	41990.	0.00
8.8000	-7.97E-05	-1.7784	-33.8266	3.65E-05	10.4832	2850053.	18.0492	45306.	0.00
9.0000	-7.24E-05	-8.1828	-30.0082	3.62E-05	48.2344	2850053.	20.1342	55628.	0.00
9.2000	-6.52E-05	-13.7817	-26.0501	3.54E-05	81.2382	2850053.	19.4476	59642.	0.00
9.4000	-5.82E-05	-18.6028	-22.2324	3.43E-05	109.6566	2850053.	18.7295	64326.	0.00
9.6000	-5.15E-05	-22.6747	-18.5612	3.28E-05	133.6588	2850053.	17.9819	69814.	0.00
9.8000	-4.51E-05	-26.0273	-15.0423	3.11E-05	153.4211	2850053.	17.2069	76284.	0.00
10.0000	-3.91E-05	-28.6916	-11.6811	2.92E-05	169.1264	2850053.	16.4059	83969.	0.00
10.2000	-3.34E-05	-30.6997	-8.4824	2.71E-05	180.9633	2850053.	15.5806	93177.	0.00
10.4000	-2.82E-05	-32.0846	-5.4512	2.49E-05	189.1266	2850053.	14.7318	104332.	0.00
10.6000	-2.35E-05	-32.8802	-2.5919	2.26E-05	193.8164	2850053.	13.8606	118022.	0.00
10.8000	-1.92E-05	-33.1213	0.09085	2.03E-05	195.2380	2850053.	12.9671	135093.	0.00
11.0000	-1.54E-05	-32.8438	2.5927	1.80E-05	193.6022	2850053.	12.0511	156799.	0.00
11.2000	-1.20E-05	-32.0843	4.9089	1.57E-05	189.1249	2850053.	11.1113	185089.	0.00
11.4000	-9.09E-06	-30.8803	7.0345	1.35E-05	182.0277	2850053.	10.1448	223164.	0.00

11.6000	-6.61E-06	-29.2705	8.9636	1.14E-05	172.5385	2850053.	9.1458	276704.	0.00
11.8000	-4.54E-06	-27.2948	10.6885	9.39E-06	160.8928	2850053.	8.1032	356961.	0.00
12.0000	-2.85E-06	-24.9951	12.3345	7.56E-06	147.3366	2850053.	8.3569	585897.	0.00
12.2000	-1.52E-06	-22.3610	13.9862	5.90E-06	131.8099	2850053.	8.1598	1076412.	0.00
12.4000	-4.93E-07	-19.4006	14.8357	4.43E-06	114.3592	2850053.	0.3351	135828.	0.00
12.6000	2.57E-07	-16.4267	14.8517	3.18E-06	96.8296	2850053.	-0.1746	135828.	0.00
12.8000	7.77E-07	-13.4599	14.2366	2.13E-06	79.3411	2850053.	-5.9766	1538361.	0.00
13.0000	1.11E-06	-10.7321	12.9519	1.28E-06	63.2618	2850053.	-6.8709	1240205.	0.00
13.2000	1.29E-06	-8.2792	11.5352	6.11E-07	48.8025	2850053.	-7.2952	1132431.	0.00
13.4000	1.35E-06	-6.1180	10.0598	1.06E-07	36.0634	2850053.	-7.4590	1102912.	0.00
13.6000	1.33E-06	-4.2552	8.5687	-2.58E-07	25.0830	2850053.	-7.4522	1119843.	0.00
13.8000	1.25E-06	-2.6905	7.0910	-5.01E-07	15.8596	2850053.	-7.3246	1172372.	0.00
14.0000	1.13E-06	-1.4188	5.6477	-6.46E-07	8.3634	2850053.	-7.1089	1257793.	0.00
14.2000	9.91E-07	-0.4315	4.2539	-7.10E-07	2.5432	2850053.	-6.8288	1377745.	0.00
14.4000	8.46E-07	0.2828	2.9207	-7.16E-07	1.6667	2850053.	-6.5031	1537049.	0.00
14.6000	7.05E-07	0.7368	1.6557	-6.80E-07	4.3434	2850053.	-6.1470	1743757.	0.00
14.8000	5.74E-07	0.9450	0.4638	-6.21E-07	5.5707	2850053.	-5.7722	2010494.	0.00
15.0000	4.57E-07	0.9224	-0.1444	-5.55E-07	5.4369	2850053.	-0.3101	135828.	0.00
15.2000	3.52E-07	0.8873	-0.1994	-4.92E-07	5.2301	2850053.	-0.2391	135828.	0.00
15.4000	2.60E-07	0.8426	-0.2409	-4.31E-07	4.9669	2850053.	-0.1765	135828.	0.00
15.6000	1.80E-07	0.7909	-0.2708	-3.74E-07	4.6620	2850053.	-0.1220	135828.	0.00
15.8000	1.10E-07	0.7343	-0.2905	-3.20E-07	4.3284	2850053.	-0.07494	135828.	0.00
16.0000	5.14E-08	0.6747	-0.3014	-2.71E-07	3.9772	2850053.	-0.03492	135828.	0.00
16.2000	1.97E-09	0.6137	-0.3051	-2.26E-07	3.6177	2850053.	-0.00134	135828.	0.00
16.4000	-3.89E-08	0.5527	-0.3026	-1.85E-07	3.2579	2850053.	0.02640	135828.	0.00
16.6000	-7.20E-08	0.4927	-0.2950	-1.48E-07	2.9043	2850053.	0.04887	135828.	0.00
16.8000	-9.81E-08	0.4347	-0.2835	-1.16E-07	2.5622	2850053.	0.06664	135828.	0.00
17.0000	-1.18E-07	0.3793	-0.2688	-8.70E-08	2.2359	2850053.	0.08027	135828.	0.00
17.2000	-1.33E-07	0.3272	-0.2517	-6.22E-08	1.9284	2850053.	0.09028	135828.	0.00
17.4000	-1.43E-07	0.2786	-0.2330	-4.10E-08	1.6423	2850053.	0.09717	135828.	0.00
17.6000	-1.49E-07	0.2340	-0.2131	-2.30E-08	1.3791	2850053.	0.1014	135828.	0.00
17.8000	-1.52E-07	0.1934	-0.1927	-8.01E-09	1.1397	2850053.	0.1034	135828.	0.00
18.0000	-1.53E-07	0.1569	-0.1720	4.28E-09	0.9248	2850053.	0.1036	135828.	0.00
18.2000	-1.51E-07	0.1246	-0.1514	1.42E-08	0.7343	2850053.	0.1023	135828.	0.00
18.4000	-1.47E-07	0.09634	-0.1312	2.19E-08	0.5679	2850053.	0.09974	135828.	0.00
18.6000	-1.42E-07	0.07210	-0.1116	2.78E-08	0.4250	2850053.	0.09631	135828.	0.00
18.8000	-1.36E-07	0.05172	-0.09272	3.22E-08	0.3049	2850053.	0.09218	135828.	0.00
19.0000	-1.29E-07	0.03502	-0.07474	3.52E-08	0.2064	2850053.	0.08757	135828.	0.00
19.2000	-1.22E-07	0.02182	-0.05772	3.72E-08	0.1286	2850053.	0.08262	135828.	0.00
19.4000	-1.14E-07	0.01193	-0.04171	3.84E-08	0.07032	2850053.	0.07746	135828.	0.00
19.6000	-1.06E-07	0.00514	-0.02675	3.90E-08	0.03028	2850053.	0.07219	135828.	0.00
19.8000	-9.85E-08	0.00123	-0.01284	3.92E-08	0.00726	2850053.	0.06687	135828.	0.00
20.0000	-9.06E-08	0.00	0.00	3.93E-08	0.00	2850053.	0.06154	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 4:

Pile-head deflection = 0.00196303 meters
Computed slope at pile head = -0.00063562 radians
Maximum bending moment = 407.77213757 kN-m
Maximum shear force = 250.00000000 kN
Depth of maximum bending moment = 3.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 11
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 5

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 275.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00225	-1.85E-10	275.0000	-7.19E-04	1.09E-09	2850053.	0.00	0.00	0.00
0.2000	0.00211	55.0000	269.2745	-7.17E-04	324.2045	2850053.	-57.2548	5429.	0.00
0.4000	0.00197	107.7098	256.6089	-7.11E-04	634.9092	2850053.	-69.4012	7059.	0.00
0.6000	0.00182	157.6436	241.8775	-7.02E-04	929.2501	2850053.	-77.9125	8540.	0.00
0.8000	0.00169	204.4608	225.5359	-6.89E-04	1205.	2850053.	-85.5044	10147.	0.00
1.0000	0.00155	247.8579	207.7698	-6.74E-04	1461.	2850053.	-92.1561	11900.	0.00
1.2000	0.00142	287.5687	188.7691	-6.55E-04	1695.	2850053.	-97.8507	13822.	0.00
1.4000	0.00129	323.3656	168.7266	-6.33E-04	1906.	2850053.	-102.5743	15941.	0.00
1.6000	0.00116	355.0594	147.8376	-6.10E-04	2093.	2850053.	-106.3160	18290.	0.00
1.8000	0.00104	382.5006	126.2992	-5.84E-04	2255.	2850053.	-109.0675	20911.	0.00
2.0000	9.29E-04	405.5791	104.3103	-5.56E-04	2391.	2850053.	-110.8222	23856.	0.00
2.2000	8.21E-04	424.2247	82.0706	-5.27E-04	2501.	2850053.	-111.5749	27189.	0.00
2.4000	7.18E-04	438.4073	59.7811	-4.97E-04	2584.	2850053.	-111.3199	30994.	0.00

2.6000	6.22E-04	448.1371	37.6441	-4.66E-04	2642.	2850053.	-110.0500	35382.	0.00
2.8000	5.32E-04	453.4649	15.8637	-4.34E-04	2673.	2850053.	-107.7533	40501.	0.00
3.0000	4.49E-04	454.4826	-5.3526	-4.02E-04	2679.	2850053.	-104.4101	46559.	0.00
3.2000	3.71E-04	451.3239	-25.7923	-3.70E-04	2660.	2850053.	-99.9866	53859.	0.00
3.4000	3.00E-04	444.1657	-45.2334	-3.39E-04	2618.	2850053.	-94.4249	62865.	0.00
3.6000	2.36E-04	433.2305	-63.4385	-3.08E-04	2554.	2850053.	-87.6257	74336.	0.00
3.8000	1.77E-04	418.7903	-79.8710	-2.78E-04	2469.	2850053.	-76.6995	86576.	0.00
4.0000	1.24E-04	401.2821	-93.9704	-2.49E-04	2365.	2850053.	-64.2941	103292.	0.00
4.2000	7.74E-05	381.2022	-104.8135	-2.22E-04	2247.	2850053.	-44.1373	114008.	0.00
4.4000	3.57E-05	359.3567	-110.0848	-1.96E-04	2118.	2850053.	-8.5753	48018.	0.00
4.6000	-9.51E-07	337.1683	-110.6865	-1.72E-04	1987.	2850053.	2.5579	538053.	0.00
4.8000	-3.29E-05	315.0821	-109.5515	-1.49E-04	1857.	2850053.	8.7925	53472.	0.00
5.0000	-6.04E-05	293.3477	-107.5667	-1.27E-04	1729.	2850053.	11.0553	36607.	0.00
5.2000	-8.38E-05	272.0555	-105.1964	-1.07E-04	1604.	2850053.	12.6480	30187.	0.00
5.4000	-1.03E-04	251.2691	-102.5410	-8.91E-05	1481.	2850053.	13.9052	26902.	0.00
5.6000	-1.19E-04	231.0390	-99.6558	-7.22E-05	1362.	2850053.	14.9472	25032.	0.00
5.8000	-1.32E-04	211.4068	-96.5778	-5.66E-05	1246.	2850053.	15.8324	23946.	0.00
6.0000	-1.42E-04	192.4079	-93.3352	-4.25E-05	1134.	2850053.	16.5935	23358.	0.00
6.2000	-1.49E-04	174.0727	-89.9508	-2.96E-05	1026.	2850053.	17.2509	23121.	0.00
6.4000	-1.54E-04	156.4276	-86.4439	-1.80E-05	922.0824	2850053.	17.8179	23152.	0.00
6.6000	-1.56E-04	139.4952	-82.8317	-7.62E-06	822.2720	2850053.	18.3039	23403.	0.00
6.8000	-1.57E-04	123.2949	-79.1298	1.60E-06	726.7775	2850053.	18.7155	23846.	0.00
7.0000	-1.56E-04	107.8433	-75.3525	9.71E-06	635.6958	2850053.	19.0577	24467.	0.00
7.2000	-1.53E-04	93.1539	-71.5133	1.68E-05	549.1076	2850053.	19.3342	25260.	0.00
7.4000	-1.49E-04	79.2379	-67.6251	2.28E-05	467.0781	2850053.	19.5478	26225.	0.00
7.6000	-1.44E-04	66.1039	-63.7002	2.79E-05	389.6578	2850053.	19.7009	27370.	0.00
7.8000	-1.38E-04	53.7579	-59.7506	3.21E-05	316.8825	2850053.	19.7951	28706.	0.00
8.0000	-1.31E-04	42.2036	-55.7879	3.55E-05	248.7747	2850053.	19.8321	30252.	0.00
8.2000	-1.24E-04	31.4427	-51.8234	3.81E-05	185.3430	2850053.	19.8129	32028.	0.00
8.4000	-1.16E-04	21.4743	-47.8682	3.99E-05	126.5829	2850053.	19.7387	34065.	0.00
8.6000	-1.08E-04	12.2954	-43.9333	4.11E-05	72.4768	2850053.	19.6102	36399.	0.00
8.8000	-9.94E-05	3.9009	-40.0295	4.17E-05	22.9946	2850053.	19.4283	39074.	0.00
9.0000	-9.11E-05	-3.7164	-35.9137	4.17E-05	21.9068	2850053.	21.7302	47716.	0.00
9.2000	-8.28E-05	-10.4645	-31.6358	4.12E-05	61.6845	2850053.	21.0488	50860.	0.00
9.4000	-7.46E-05	-16.3707	-27.4975	4.02E-05	96.4991	2850053.	20.3336	54508.	0.00
9.6000	-6.67E-05	-21.4635	-23.5055	3.89E-05	126.5195	2850053.	19.5865	58753.	0.00
9.8000	-5.90E-05	-25.7729	-19.6659	3.73E-05	151.9216	2850053.	18.8095	63717.	0.00
10.0000	-5.18E-05	-29.3299	-15.9845	3.53E-05	172.8887	2850053.	18.0043	69554.	0.00
10.2000	-4.49E-05	-32.1667	-12.4669	3.32E-05	189.6107	2850053.	17.1722	76472.	0.00
10.4000	-3.85E-05	-34.3166	-9.1182	3.08E-05	202.2837	2850053.	16.3143	84742.	0.00
10.6000	-3.26E-05	-35.8140	-5.9436	2.84E-05	211.1101	2850053.	15.4314	94737.	0.00
10.8000	-2.72E-05	-36.6941	-2.9481	2.58E-05	216.2979	2850053.	14.5238	106974.	0.00
11.0000	-2.22E-05	-36.9932	-0.1366	2.32E-05	218.0613	2850053.	13.5911	122192.	0.00
11.2000	-1.79E-05	-36.7487	2.4857	2.07E-05	216.6201	2850053.	12.6323	141489.	0.00

11.4000	-1.40E-05	-35.9989	4.9134	1.81E-05	212.2004	2850053.	11.6448	166561.	0.00
11.6000	-1.06E-05	-34.7834	7.1403	1.56E-05	205.0350	2850053.	10.6241	200185.	0.00
11.8000	-7.73E-06	-33.1428	9.1589	1.32E-05	195.3646	2850053.	9.5618	247260.	0.00
12.0000	-5.32E-06	-31.1198	11.1238	1.10E-05	183.4397	2850053.	10.0870	379265.	0.00
12.2000	-3.34E-06	-28.6933	13.1558	8.88E-06	169.1364	2850053.	10.2336	612600.	0.00
12.4000	-1.77E-06	-25.8575	15.0069	6.97E-06	152.4202	2850053.	8.2775	937664.	0.00
12.6000	-5.53E-07	-22.6905	16.3977	5.27E-06	133.7523	2850053.	5.6299	2036270.	0.00
12.8000	3.41E-07	-19.2984	16.9375	3.79E-06	113.7569	2850053.	-0.2317	135828.	0.00
13.0000	9.64E-07	-15.9155	16.2384	2.56E-06	93.8162	2850053.	-6.7595	1401751.	0.00
13.2000	1.36E-06	-12.8031	14.8032	1.55E-06	75.4692	2850053.	-7.5928	1113024.	0.00
13.4000	1.58E-06	-9.9943	13.2454	7.50E-07	58.9126	2850053.	-7.9845	1007791.	0.00
13.6000	1.66E-06	-7.5049	11.6350	1.36E-07	44.2385	2850053.	-8.1199	975652.	0.00
13.8000	1.64E-06	-5.3403	10.0148	-3.14E-07	31.4790	2850053.	-8.0819	986116.	0.00
14.0000	1.54E-06	-3.4990	8.4149	-6.24E-07	20.6251	2850053.	-7.9172	1029009.	0.00
14.2000	1.39E-06	-1.9743	6.8575	-8.16E-07	11.6379	2850053.	-7.6563	1102125.	0.00
14.4000	1.21E-06	-0.7559	5.3599	-9.12E-07	4.4560	2850053.	-7.3206	1207811.	0.00
14.6000	1.02E-06	0.1696	3.9351	-9.33E-07	0.9998	2850053.	-6.9267	1352265.	0.00
14.8000	8.39E-07	0.8181	2.5937	-8.98E-07	4.8224	2850053.	-6.4872	1546265.	0.00
15.0000	6.65E-07	1.2071	1.3438	-8.27E-07	7.1154	2850053.	-6.0118	1807538.	0.00
15.2000	5.08E-07	1.3556	0.1921	-7.37E-07	7.9909	2850053.	-5.5058	2166628.	0.00
15.4000	3.70E-07	1.2839	-0.3837	-6.45E-07	7.5682	2850053.	-0.2515	135828.	0.00
15.6000	2.50E-07	1.2022	-0.4258	-5.57E-07	7.0863	2850053.	-0.1701	135828.	0.00
15.8000	1.47E-07	1.1136	-0.4528	-4.76E-07	6.5642	2850053.	-0.1001	135828.	0.00
16.0000	6.00E-08	1.0210	-0.4669	-4.01E-07	6.0186	2850053.	-0.04072	135828.	0.00
16.2000	-1.31E-08	0.9268	-0.4701	-3.33E-07	5.4633	2850053.	0.00891	135828.	0.00
16.4000	-7.32E-08	0.8330	-0.4642	-2.71E-07	4.9101	2850053.	0.04970	135828.	0.00
16.6000	-1.22E-07	0.7411	-0.4510	-2.16E-07	4.3687	2850053.	0.08256	135828.	0.00
16.8000	-1.60E-07	0.6526	-0.4319	-1.67E-07	3.8467	2850053.	0.1083	135828.	0.00
17.0000	-1.88E-07	0.5684	-0.4083	-1.24E-07	3.3503	2850053.	0.1279	135828.	0.00
17.2000	-2.09E-07	0.4893	-0.3813	-8.70E-08	2.8840	2850053.	0.1421	135828.	0.00
17.4000	-2.23E-07	0.4158	-0.3519	-5.53E-08	2.4512	2850053.	0.1516	135828.	0.00
17.6000	-2.31E-07	0.3485	-0.3211	-2.85E-08	2.0542	2850053.	0.1571	135828.	0.00
17.8000	-2.35E-07	0.2874	-0.2894	-6.15E-09	1.6942	2850053.	0.1593	135828.	0.00
18.0000	-2.34E-07	0.2327	-0.2576	1.21E-08	1.3718	2850053.	0.1588	135828.	0.00
18.2000	-2.30E-07	0.1844	-0.2261	2.67E-08	1.0868	2850053.	0.1560	135828.	0.00
18.4000	-2.23E-07	0.1423	-0.1954	3.82E-08	0.8385	2850053.	0.1515	135828.	0.00
18.6000	-2.14E-07	0.1062	-0.1657	4.69E-08	0.6260	2850053.	0.1456	135828.	0.00
18.8000	-2.04E-07	0.07598	-0.1372	5.33E-08	0.4479	2850053.	0.1388	135828.	0.00
19.0000	-1.93E-07	0.05131	-0.1103	5.78E-08	0.3024	2850053.	0.1312	135828.	0.00
19.2000	-1.81E-07	0.03188	-0.08484	6.07E-08	0.1879	2850053.	0.1231	135828.	0.00
19.4000	-1.69E-07	0.01737	-0.06106	6.24E-08	0.1024	2850053.	0.1147	135828.	0.00
19.6000	-1.56E-07	0.00745	-0.03899	6.33E-08	0.04393	2850053.	0.1061	135828.	0.00
19.8000	-1.44E-07	0.00178	-0.01863	6.36E-08	0.01047	2850053.	0.09747	135828.	0.00
20.0000	-1.31E-07	0.00	0.00	6.37E-08	0.00	2850053.	0.08882	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 5:

Pile-head deflection = 0.00225307 meters
Computed slope at pile head = -0.00071911 radians
Maximum bending moment = 454.48262366 kN-m
Maximum shear force = 275.00000000 kN
Depth of maximum bending moment = 3.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 11
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 6

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 300.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00256	1.55E-10	300.0000	-8.06E-04	9.11E-10	2850053.	0.00	0.00	0.00
0.2000	0.00240	60.0000	293.6103	-8.04E-04	353.6777	2850053.	-63.8975	5331.	0.00
0.4000	0.00224	117.4441	279.8184	-7.97E-04	692.2892	2850053.	-74.0207	6619.	0.00
0.6000	0.00208	171.9274	264.1018	-7.87E-04	1013.	2850053.	-83.1458	8002.	0.00
0.8000	0.00192	223.0848	246.6567	-7.73E-04	1315.	2850053.	-91.3054	9502.	0.00
1.0000	0.00177	270.5900	227.6783	-7.56E-04	1595.	2850053.	-98.4779	11135.	0.00
1.2000	0.00162	314.1562	207.3660	-7.36E-04	1852.	2850053.	-104.6451	12924.	0.00
1.4000	0.00147	353.5365	185.9223	-7.12E-04	2084.	2850053.	-109.7924	14892.	0.00
1.6000	0.00133	388.5251	163.5522	-6.86E-04	2290.	2850053.	-113.9080	17070.	0.00
1.8000	0.00120	418.9574	140.4632	-6.58E-04	2470.	2850053.	-116.9827	19495.	0.00
2.0000	0.00107	444.7103	116.8640	-6.27E-04	2621.	2850053.	-119.0094	22214.	0.00
2.2000	9.49E-04	465.7029	92.9648	-5.95E-04	2745.	2850053.	-119.9820	25283.	0.00

2.4000	8.33E-04	481.8963	68.9772	-5.62E-04	2841.	2850053.	-119.8945	28776.	0.00
2.6000	7.24E-04	493.2938	45.1138	-5.28E-04	2908.	2850053.	-118.7390	32790.	0.00
2.8000	6.22E-04	499.9418	21.5895	-4.93E-04	2947.	2850053.	-116.5037	37456.	0.00
3.0000	5.27E-04	501.9296	-1.3777	-4.58E-04	2959.	2850053.	-113.1690	42951.	0.00
3.2000	4.39E-04	499.3907	-23.5648	-4.23E-04	2944.	2850053.	-108.7018	49536.	0.00
3.4000	3.58E-04	492.5037	-44.7396	-3.88E-04	2903.	2850053.	-103.0465	57599.	0.00
3.6000	2.84E-04	481.4948	-64.6551	-3.54E-04	2838.	2850053.	-96.1086	67767.	0.00
3.8000	2.16E-04	466.6416	-82.7387	-3.21E-04	2751.	2850053.	-84.7264	78362.	0.00
4.0000	1.55E-04	448.3994	-98.3937	-2.89E-04	2643.	2850053.	-71.8243	92444.	0.00
4.2000	1.01E-04	427.2841	-111.3238	-2.58E-04	2519.	2850053.	-57.4761	114008.	0.00
4.4000	5.23E-05	403.8699	-118.0445	-2.29E-04	2381.	2850053.	-9.7316	37240.	0.00
4.6000	9.37E-06	380.0663	-119.5827	-2.01E-04	2240.	2850053.	-5.6500	120614.	0.00
4.8000	-2.82E-05	356.0368	-119.3124	-1.75E-04	2099.	2850053.	8.3526	59253.	0.00
5.0000	-6.08E-05	332.3414	-117.3694	-1.51E-04	1959.	2850053.	11.0773	36464.	0.00
5.2000	-8.87E-05	309.0890	-114.9729	-1.29E-04	1822.	2850053.	12.8881	29074.	0.00
5.4000	-1.12E-04	286.3522	-112.2550	-1.08E-04	1688.	2850053.	14.2908	25469.	0.00
5.6000	-1.32E-04	264.1870	-109.2814	-8.84E-05	1557.	2850053.	15.4448	23443.	0.00
5.8000	-1.48E-04	242.6396	-106.0947	-7.07E-05	1430.	2850053.	16.4227	22253.	0.00
6.0000	-1.60E-04	221.7492	-102.7260	-5.44E-05	1307.	2850053.	17.2641	21576.	0.00
6.2000	-1.69E-04	201.5492	-99.2003	-3.95E-05	1188.	2850053.	17.9931	21250.	0.00
6.4000	-1.76E-04	182.0690	-95.5385	-2.61E-05	1073.	2850053.	18.6252	21185.	0.00
6.6000	-1.80E-04	163.3338	-91.7588	-1.39E-05	962.7921	2850053.	19.1713	21329.	0.00
6.8000	-1.81E-04	145.3655	-87.8778	-3.11E-06	856.8755	2850053.	19.6389	21651.	0.00
7.0000	-1.81E-04	128.1827	-83.9105	6.49E-06	755.5894	2850053.	20.0337	22135.	0.00
7.2000	-1.79E-04	111.8013	-79.8712	1.49E-05	659.0269	2850053.	20.3598	22772.	0.00
7.4000	-1.75E-04	96.2342	-75.7732	2.22E-05	567.2650	2850053.	20.6204	23560.	0.00
7.6000	-1.70E-04	81.4920	-71.6293	2.84E-05	480.3651	2850053.	20.8181	24502.	0.00
7.8000	-1.64E-04	67.5825	-67.4520	3.37E-05	398.3738	2850053.	20.9549	25606.	0.00
8.0000	-1.56E-04	54.5112	-63.2533	3.80E-05	321.3233	2850053.	21.0324	26885.	0.00
8.2000	-1.48E-04	42.2812	-59.0448	4.14E-05	249.2320	2850053.	21.0519	28356.	0.00
8.4000	-1.40E-04	30.8933	-54.8382	4.39E-05	182.1044	2850053.	21.0145	30038.	0.00
8.6000	-1.31E-04	20.3459	-50.6446	4.57E-05	119.9317	2850053.	20.9212	31961.	0.00
8.8000	-1.22E-04	10.6354	-46.4752	4.68E-05	62.6919	2850053.	20.7728	34158.	0.00
9.0000	-1.12E-04	1.7558	-42.0691	4.72E-05	10.3500	2850053.	23.2883	41515.	0.00
9.2000	-1.03E-04	-6.1922	-37.4788	4.71E-05	36.5009	2850053.	22.6147	44027.	0.00
9.4000	-9.34E-05	-13.2357	-33.0268	4.64E-05	78.0195	2850053.	21.9052	46928.	0.00
9.6000	-8.42E-05	-19.4030	-28.7201	4.53E-05	114.3732	2850053.	21.1619	50285.	0.00
9.8000	-7.53E-05	-24.7237	-24.5652	4.37E-05	145.7373	2850053.	20.3870	54184.	0.00
10.0000	-6.67E-05	-29.2291	-20.5683	4.18E-05	172.2944	2850053.	19.5822	58733.	0.00
10.2000	-5.85E-05	-32.9511	-16.7352	3.96E-05	194.2343	2850053.	18.7490	64073.	0.00
10.4000	-5.08E-05	-35.9231	-13.0714	3.72E-05	211.7534	2850053.	17.8886	70390.	0.00
10.6000	-4.36E-05	-38.1796	-9.5823	3.46E-05	225.0547	2850053.	17.0021	77929.	0.00
10.8000	-3.70E-05	-39.7561	-6.2731	3.19E-05	234.3472	2850053.	16.0899	87024.	0.00
11.0000	-3.09E-05	-40.6889	-3.1489	2.91E-05	239.8459	2850053.	15.1523	98138.	0.00

11.2000	-2.54E-05	-41.0156	-0.2148	2.62E-05	241.7719	2850053.	14.1888	111934.	0.00
11.4000	-2.04E-05	-40.7748	2.5239	2.33E-05	240.3524	2850053.	13.1980	129390.	0.00
11.6000	-1.60E-05	-40.0061	5.0614	2.05E-05	235.8210	2850053.	12.1773	152019.	0.00
11.8000	-1.22E-05	-38.7503	7.3913	1.77E-05	228.4184	2850053.	11.1219	182286.	0.00
12.0000	-8.93E-06	-37.0496	9.7012	1.51E-05	218.3934	2850053.	11.9765	268274.	0.00
12.2000	-6.17E-06	-34.8698	12.1533	1.25E-05	205.5445	2850053.	12.5454	406374.	0.00
12.4000	-3.91E-06	-32.1882	14.4855	1.02E-05	189.7376	2850053.	10.7766	551308.	0.00
12.6000	-2.10E-06	-29.0756	16.4395	8.05E-06	171.3898	2850053.	8.7627	835979.	0.00
12.8000	-6.91E-07	-25.6124	17.9235	6.13E-06	150.9758	2850053.	6.0778	1758127.	0.00
13.0000	3.54E-07	-21.9062	18.5072	4.46E-06	129.1288	2850053.	-0.2405	135828.	0.00
13.2000	1.09E-06	-18.2095	17.7823	3.05E-06	107.3385	2850053.	-7.0087	1283375.	0.00
13.4000	1.57E-06	-14.7933	16.2890	1.89E-06	87.2007	2850053.	-7.9248	1006484.	0.00
13.6000	1.85E-06	-11.6940	14.6603	9.64E-07	68.9315	2850053.	-8.3617	904138.	0.00
13.8000	1.96E-06	-8.9291	12.9719	2.41E-07	52.6338	2850053.	-8.5223	869431.	0.00
14.0000	1.95E-06	-6.5052	11.2702	-3.01E-07	38.3456	2850053.	-8.4953	873155.	0.00
14.2000	1.84E-06	-4.4211	9.5877	-6.84E-07	26.0604	2850053.	-8.3297	905381.	0.00
14.4000	1.67E-06	-2.6701	7.9491	-9.33E-07	15.7393	2850053.	-8.0563	963585.	0.00
14.6000	1.47E-06	-1.2414	6.3738	-1.07E-06	7.3177	2850053.	-7.6961	1049390.	0.00
14.8000	1.24E-06	-0.1206	4.8778	-1.12E-06	0.7107	2850053.	-7.2642	1167888.	0.00
15.0000	1.02E-06	0.7097	3.4743	-1.10E-06	4.1835	2850053.	-6.7712	1328319.	0.00
15.2000	8.05E-07	1.2691	2.1748	-1.03E-06	7.4811	2850053.	-6.2236	1546254.	0.00
15.4000	6.08E-07	1.5796	0.9901	-9.28E-07	9.3113	2850053.	-5.6229	1848759.	0.00
15.6000	4.34E-07	1.6652	-0.06824	-8.14E-07	9.8157	2850053.	-4.9610	2287503.	0.00
15.8000	2.83E-07	1.5523	-0.5835	-7.01E-07	9.1504	2850053.	-0.1919	135828.	0.00
16.0000	1.53E-07	1.4318	-0.6131	-5.97E-07	8.4398	2850053.	-0.1040	135828.	0.00
16.2000	4.39E-08	1.3071	-0.6265	-5.01E-07	7.7047	2850053.	-0.02982	135828.	0.00
16.4000	-4.70E-08	1.1812	-0.6263	-4.13E-07	6.9626	2850053.	0.03194	135828.	0.00
16.6000	-1.21E-07	1.0566	-0.6149	-3.35E-07	6.2280	2850053.	0.08244	135828.	0.00
16.8000	-1.81E-07	0.9352	-0.5943	-2.65E-07	5.5128	2850053.	0.1229	135828.	0.00
17.0000	-2.27E-07	0.8188	-0.5666	-2.03E-07	4.8266	2850053.	0.1544	135828.	0.00
17.2000	-2.62E-07	0.7086	-0.5334	-1.50E-07	4.1768	2850053.	0.1781	135828.	0.00
17.4000	-2.87E-07	0.6055	-0.4960	-1.04E-07	3.5690	2850053.	0.1951	135828.	0.00
17.6000	-3.04E-07	0.5102	-0.4559	-6.45E-08	3.0072	2850053.	0.2063	135828.	0.00
17.8000	-3.13E-07	0.4231	-0.4140	-3.17E-08	2.4941	2850053.	0.2126	135828.	0.00
18.0000	-3.16E-07	0.3446	-0.3713	-4.79E-09	2.0310	2850053.	0.2149	135828.	0.00
18.2000	-3.15E-07	0.2746	-0.3284	1.69E-08	1.6186	2850053.	0.2139	135828.	0.00
18.4000	-3.10E-07	0.2132	-0.2860	3.40E-08	1.2567	2850053.	0.2103	135828.	0.00
18.6000	-3.01E-07	0.1602	-0.2445	4.71E-08	0.9443	2850053.	0.2046	135828.	0.00
18.8000	-2.91E-07	0.1154	-0.2043	5.68E-08	0.6802	2850053.	0.1975	135828.	0.00
19.0000	-2.79E-07	0.07848	-0.1656	6.36E-08	0.4626	2850053.	0.1892	135828.	0.00
19.2000	-2.65E-07	0.04913	-0.1287	6.81E-08	0.2896	2850053.	0.1802	135828.	0.00
19.4000	-2.51E-07	0.02700	-0.09360	7.08E-08	0.1592	2850053.	0.1707	135828.	0.00
19.6000	-2.37E-07	0.01169	-0.06044	7.21E-08	0.06893	2850053.	0.1610	135828.	0.00
19.8000	-2.22E-07	0.00282	-0.02923	7.26E-08	0.01665	2850053.	0.1511	135828.	0.00

20.0000	-2.08E-07	0.00	0.00	7.27E-08	0.00	2850053.	0.1412	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 6:

Pile-head deflection = 0.00255819 meters
Computed slope at pile head = -0.00080572 radians
Maximum bending moment = 501.92961899 kN-m
Maximum shear force = 300.00000000 kN
Depth of maximum bending moment = 3.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 12
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 7

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 325.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00289	3.09E-10	325.0000	-8.97E-04	1.82E-09	2850053.	0.00	0.00	0.00
0.2000	0.00271	65.0000	318.3190	-8.94E-04	383.1508	2850053.	-66.8101	4933.	0.00
0.4000	0.00253	127.3276	303.7651	-8.88E-04	750.5487	2850053.	-78.7290	6223.	0.00
0.6000	0.00235	186.5060	287.0433	-8.77E-04	1099.	2850053.	-88.4883	7519.	0.00
0.8000	0.00218	242.1449	268.4707	-8.61E-04	1427.	2850053.	-97.2385	8922.	0.00
1.0000	0.00201	293.8943	248.2511	-8.43E-04	1732.	2850053.	-104.9569	10448.	0.00
1.2000	0.00184	341.4454	226.5929	-8.20E-04	2013.	2850053.	-111.6249	12115.	0.00
1.4000	0.00168	384.5315	203.7077	-7.95E-04	2267.	2850053.	-117.2270	13947.	0.00
1.6000	0.00152	422.9285	179.8099	-7.67E-04	2493.	2850053.	-121.7512	15970.	0.00
1.8000	0.00137	456.4554	155.1160	-7.36E-04	2691.	2850053.	-125.1879	18217.	0.00
2.0000	0.00123	484.9749	129.8442	-7.03E-04	2859.	2850053.	-127.5299	20729.	0.00

2.2000	0.00109	508.3931	104.2141	-6.68E-04	2997.	2850053.	-128.7714	23557.	0.00
2.4000	9.63E-04	526.6605	78.4463	-6.32E-04	3104.	2850053.	-128.9066	26764.	0.00
2.6000	8.41E-04	539.7717	52.7628	-5.94E-04	3182.	2850053.	-127.9287	30435.	0.00
2.8000	7.26E-04	547.7656	27.3872	-5.56E-04	3229.	2850053.	-125.8271	34680.	0.00
3.0000	6.18E-04	550.7266	2.5461	-5.17E-04	3246.	2850053.	-122.5846	39652.	0.00
3.2000	5.19E-04	548.7841	-21.5296	-4.79E-04	3235.	2850053.	-118.1717	45566.	0.00
3.4000	4.27E-04	542.1147	-44.6007	-4.41E-04	3196.	2850053.	-112.5393	52741.	0.00
3.6000	3.42E-04	530.9438	-66.4150	-4.03E-04	3130.	2850053.	-105.6040	61674.	0.00
3.8000	2.66E-04	515.5487	-86.3655	-3.66E-04	3039.	2850053.	-93.9008	70707.	0.00
4.0000	1.96E-04	496.3976	-103.8220	-3.31E-04	2926.	2850053.	-80.6640	82316.	0.00
4.2000	1.33E-04	474.0199	-118.5421	-2.97E-04	2794.	2850053.	-66.5373	99806.	0.00
4.4000	7.73E-05	448.9808	-126.3048	-2.64E-04	2647.	2850053.	-11.0896	28680.	0.00
4.6000	2.76E-05	423.4980	-128.2232	-2.34E-04	2496.	2850053.	-8.0948	58583.	0.00
4.8000	-1.61E-05	397.6915	-128.3405	-2.05E-04	2344.	2850053.	6.9225	85891.	0.00
5.0000	-5.43E-05	372.1618	-126.5816	-1.78E-04	2194.	2850053.	10.6661	39292.	0.00
5.2000	-8.72E-05	347.0588	-124.2333	-1.53E-04	2046.	2850053.	12.8166	29382.	0.00
5.4000	-1.15E-04	322.4685	-121.5097	-1.29E-04	1901.	2850053.	14.4191	25007.	0.00
5.6000	-1.39E-04	298.4549	-118.4963	-1.07E-04	1759.	2850053.	15.7158	22633.	0.00
5.8000	-1.58E-04	275.0700	-115.2441	-8.72E-05	1621.	2850053.	16.8062	21242.	0.00
6.0000	-1.74E-04	252.3573	-111.7892	-6.87E-05	1488.	2850053.	17.7419	20423.	0.00
6.2000	-1.86E-04	230.3543	-108.1598	-5.17E-05	1358.	2850053.	18.5528	19981.	0.00
6.4000	-1.94E-04	209.0934	-104.3787	-3.63E-05	1233.	2850053.	19.2581	19810.	0.00
6.6000	-2.00E-04	188.6028	-100.4658	-2.24E-05	1112.	2850053.	19.8706	19848.	0.00
6.8000	-2.03E-04	168.9071	-96.4388	-9.81E-06	995.6443	2850053.	20.3995	20061.	0.00
7.0000	-2.04E-04	150.0273	-92.3137	1.38E-06	884.3551	2850053.	20.8513	20427.	0.00
7.2000	-2.03E-04	131.9816	-88.1055	1.13E-05	777.9823	2850053.	21.2308	20935.	0.00
7.4000	-2.00E-04	114.7851	-83.8282	1.99E-05	676.6154	2850053.	21.5419	21581.	0.00
7.6000	-1.95E-04	98.4503	-79.4953	2.74E-05	580.3278	2850053.	21.7874	22363.	0.00
7.8000	-1.89E-04	82.9870	-75.1196	3.38E-05	489.1773	2850053.	21.9695	23288.	0.00
8.0000	-1.81E-04	68.4024	-70.7136	3.91E-05	403.2069	2850053.	22.0903	24364.	0.00
8.2000	-1.73E-04	54.7015	-66.2895	4.34E-05	322.4450	2850053.	22.1510	25603.	0.00
8.4000	-1.64E-04	41.8866	-61.8591	4.68E-05	246.9060	2850053.	22.1530	27021.	0.00
8.6000	-1.54E-04	29.9579	-57.4341	4.93E-05	176.5904	2850053.	22.0973	28639.	0.00
8.8000	-1.44E-04	18.9130	-53.0259	5.10E-05	111.4850	2850053.	21.9848	30483.	0.00
9.0000	-1.34E-04	8.7475	-48.3575	5.20E-05	51.5633	2850053.	24.6995	36892.	0.00
9.2000	-1.23E-04	-0.4300	-43.4836	5.23E-05	2.5347	2850053.	24.0388	38949.	0.00
9.4000	-1.13E-04	-8.6460	-38.7458	5.20E-05	50.9647	2850053.	23.3401	41317.	0.00
9.6000	-1.03E-04	-15.9283	-34.1512	5.11E-05	93.8914	2850053.	22.6057	44046.	0.00
9.8000	-9.25E-05	-22.3064	-29.7068	4.98E-05	131.4881	2850053.	21.8378	47200.	0.00
10.0000	-8.27E-05	-27.8110	-25.4192	4.80E-05	163.9357	2850053.	21.0382	50857.	0.00
10.2000	-7.33E-05	-32.4741	-21.2945	4.59E-05	191.4228	2850053.	20.2086	55120.	0.00
10.4000	-6.44E-05	-36.3289	-17.3386	4.35E-05	214.1450	2850053.	19.3504	60120.	0.00
10.6000	-5.59E-05	-39.4096	-13.5571	4.08E-05	232.3047	2850053.	18.4647	66028.	0.00
10.8000	-4.80E-05	-41.7517	-9.9554	3.80E-05	246.1107	2850053.	17.5524	73073.	0.00

11.0000	-4.07E-05	-43.3917	-6.5388	3.50E-05	255.7781	2850053.	16.6137	81567.	0.00
11.2000	-3.40E-05	-44.3672	-3.3125	3.19E-05	261.5282	2850053.	15.6488	91939.	0.00
11.4000	-2.80E-05	-44.7168	-0.2820	2.88E-05	263.5886	2850053.	14.6570	104807.	0.00
11.6000	-2.25E-05	-44.4800	2.5474	2.57E-05	262.1931	2850053.	13.6367	121082.	0.00
11.8000	-1.77E-05	-43.6978	5.1696	2.26E-05	257.5822	2850053.	12.5850	142168.	0.00
12.0000	-1.35E-05	-42.4122	7.8018	1.95E-05	250.0040	2850053.	13.7372	203555.	0.00
12.2000	-9.89E-06	-40.5771	10.6420	1.66E-05	239.1868	2850053.	14.6650	296697.	0.00
12.4000	-6.84E-06	-38.1554	13.4057	1.39E-05	224.9117	2850053.	12.9724	379136.	0.00
12.6000	-4.34E-06	-35.2148	15.8171	1.13E-05	207.5780	2850053.	11.1413	513861.	0.00
12.8000	-2.32E-06	-31.8285	17.8359	8.95E-06	187.6174	2850053.	9.0470	778670.	0.00
13.0000	-7.58E-07	-28.0804	19.3625	6.84E-06	165.5235	2850053.	6.2189	1641231.	0.00
13.2000	4.14E-07	-24.0835	19.9563	5.01E-06	141.9634	2850053.	-0.2811	135828.	0.00
13.4000	1.25E-06	-20.0979	19.1913	3.46E-06	118.4695	2850053.	-7.3692	1181221.	0.00
13.6000	1.80E-06	-16.4070	17.6221	2.18E-06	96.7132	2850053.	-8.3231	925086.	0.00
13.8000	2.12E-06	-13.0491	15.9106	1.15E-06	76.9194	2850053.	-8.7913	829037.	0.00
14.0000	2.26E-06	-10.0428	14.1336	3.39E-07	59.1984	2850053.	-8.9788	794884.	0.00
14.2000	2.26E-06	-7.3956	12.3381	-2.73E-07	43.5944	2850053.	-8.9762	795588.	0.00
14.4000	2.15E-06	-5.1075	10.5571	-7.11E-07	30.1070	2850053.	-8.8340	821757.	0.00
14.6000	1.97E-06	-3.1728	8.8152	-1.00E-06	18.7024	2850053.	-8.5846	870697.	0.00
14.8000	1.75E-06	-1.5814	7.1317	-1.17E-06	9.3220	2850053.	-8.2505	943331.	0.00
15.0000	1.50E-06	-0.3201	5.5218	-1.24E-06	1.8869	2850053.	-7.8484	1043422.	0.00
15.2000	1.26E-06	0.6273	3.9978	-1.22E-06	3.6976	2850053.	-7.3913	1177884.	0.00
15.4000	1.01E-06	1.2790	2.5698	-1.16E-06	7.5394	2850053.	-6.8888	1358115.	0.00
15.6000	7.92E-07	1.6552	1.2462	-1.05E-06	9.7569	2850053.	-6.3473	1603123.	0.00
15.8000	5.92E-07	1.7775	0.03469	-9.34E-07	10.4778	2850053.	-5.7681	1947077.	0.00
16.0000	4.18E-07	1.6691	-0.5705	-8.14E-07	9.8387	2850053.	-0.2839	135828.	0.00
16.2000	2.67E-07	1.5493	-0.6170	-7.01E-07	9.1326	2850053.	-0.1814	135828.	0.00
16.4000	1.38E-07	1.4223	-0.6445	-5.96E-07	8.3838	2850053.	-0.09360	135828.	0.00
16.6000	2.85E-08	1.2915	-0.6558	-5.01E-07	7.6129	2850053.	-0.01938	135828.	0.00
16.8000	-6.26E-08	1.1599	-0.6535	-4.15E-07	6.8374	2850053.	0.04254	135828.	0.00
17.0000	-1.38E-07	1.0301	-0.6399	-3.38E-07	6.0720	2850053.	0.09339	135828.	0.00
17.2000	-1.98E-07	0.9040	-0.6172	-2.70E-07	5.3286	2850053.	0.1344	135828.	0.00
17.4000	-2.46E-07	0.7832	-0.5870	-2.11E-07	4.6168	2850053.	0.1669	135828.	0.00
17.6000	-2.82E-07	0.6692	-0.5512	-1.60E-07	3.9445	2850053.	0.1918	135828.	0.00
17.8000	-3.10E-07	0.5628	-0.5109	-1.17E-07	3.3173	2850053.	0.2104	135828.	0.00
18.0000	-3.29E-07	0.4648	-0.4675	-8.10E-08	2.7397	2850053.	0.2236	135828.	0.00
18.2000	-3.42E-07	0.3758	-0.4219	-5.15E-08	2.2149	2850053.	0.2324	135828.	0.00
18.4000	-3.50E-07	0.2960	-0.3749	-2.79E-08	1.7449	2850053.	0.2376	135828.	0.00
18.6000	-3.53E-07	0.2258	-0.3272	-9.61E-09	1.3309	2850053.	0.2400	135828.	0.00
18.8000	-3.54E-07	0.1651	-0.2792	4.10E-09	0.9734	2850053.	0.2402	135828.	0.00
19.0000	-3.52E-07	0.1141	-0.2313	1.39E-08	0.6727	2850053.	0.2389	135828.	0.00
19.2000	-3.48E-07	0.07264	-0.1837	2.05E-08	0.4282	2850053.	0.2364	135828.	0.00
19.4000	-3.44E-07	0.04062	-0.1368	2.44E-08	0.2395	2850053.	0.2333	135828.	0.00
19.6000	-3.38E-07	0.01794	-0.09044	2.65E-08	0.1057	2850053.	0.2298	135828.	0.00

19.8000	-3.33E-07	0.00445	-0.04485	2.73E-08	0.02622	2850053.	0.2261	135828.	0.00
20.0000	-3.27E-07	0.00	0.00	2.74E-08	0.00	2850053.	0.2224	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 7:

Pile-head deflection = 0.00288809 meters
Computed slope at pile head = -0.00089657 radians
Maximum bending moment = 550.72655187 kN-m
Maximum shear force = 325.00000000 kN
Depth of maximum bending moment = 3.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 13
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 8

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 600.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00768	1.11E-09	600.0000	-0.00210	6.56E-09	2850053.	0.00	0.00	0.00
0.2000	0.00726	120.0000	592.1365	-0.00210	707.3553	2850053.	-78.6349	2167.	0.00
0.4000	0.00684	236.8546	573.9664	-0.00209	1396.	2850053.	-103.0658	3014.	0.00
0.6000	0.00642	349.5866	551.1203	-0.00207	2061.	2850053.	-125.3951	3905.	0.00
0.8000	0.00601	457.3027	524.0071	-0.00204	2696.	2850053.	-145.7373	4849.	0.00
1.0000	0.00561	559.1894	493.0199	-0.00200	3296.	2850053.	-164.1348	5855.	0.00
1.2000	0.00521	654.5107	458.5485	-0.00196	3858.	2850053.	-180.5793	6932.	0.00
1.4000	0.00482	742.6088	420.9901	-0.00191	4377.	2850053.	-195.0048	8087.	0.00
1.6000	0.00445	822.9067	380.7696	-0.00186	4851.	2850053.	-207.2003	9322.	0.00
1.8000	0.00408	894.9166	338.4817	-0.00180	5275.	2850053.	-215.6784	10574.	0.00

2.0000	0.00373	958.2994	294.7206	-0.00173	5649.	2850053.	-221.9328	11911.	0.00
2.2000	0.00339	1013.	249.8633	-0.00166	5970.	2850053.	-226.6394	13384.	0.00
2.4000	0.00306	1058.	204.2198	-0.00159	6238.	2850053.	-229.7963	15013.	0.00
2.6000	0.00275	1094.	158.0999	-0.00151	6452.	2850053.	-231.4028	16825.	0.00
2.8000	0.00246	1121.	111.8137	-0.00144	6611.	2850053.	-231.4591	18852.	0.00
3.0000	0.00218	1139.	65.6714	-0.00136	6715.	2850053.	-229.9638	21135.	0.00
3.2000	0.00191	1148.	19.9838	-0.00128	6766.	2850053.	-226.9120	23728.	0.00
3.4000	0.00167	1147.	-24.9366	-0.00120	6762.	2850053.	-222.2920	26698.	0.00
3.6000	0.00143	1138.	-68.7738	-0.00112	6707.	2850053.	-216.0804	30138.	0.00
3.8000	0.00122	1120.	-110.4938	-0.00104	6600.	2850053.	-201.1197	33007.	0.00
4.0000	0.00102	1094.	-148.9973	-9.60E-04	6446.	2850053.	-183.9150	36095.	0.00
4.2000	8.35E-04	1060.	-184.0351	-8.84E-04	6249.	2850053.	-166.4625	39881.	0.00
4.4000	6.65E-04	1020.	-202.9529	-8.11E-04	6012.	2850053.	-22.7156	6827.	0.00
4.6000	5.10E-04	978.9222	-207.3616	-7.41E-04	5770.	2850053.	-21.3716	8375.	0.00
4.8000	3.69E-04	937.0224	-211.4689	-6.74E-04	5523.	2850053.	-19.7021	10677.	0.00
5.0000	2.41E-04	894.3346	-215.1934	-6.09E-04	5272.	2850053.	-17.5422	14563.	0.00
5.2000	1.25E-04	850.9451	-218.3948	-5.48E-04	5016.	2850053.	-14.4726	23101.	0.00
5.4000	2.16E-05	806.9767	-220.6701	-4.90E-04	4757.	2850053.	-8.2794	76556.	0.00
5.6000	-7.07E-05	762.6771	-220.2439	-4.35E-04	4496.	2850053.	12.5412	35471.	0.00
5.8000	-1.52E-04	718.8791	-217.3306	-3.83E-04	4238.	2850053.	16.5913	21781.	0.00
6.0000	-2.24E-04	675.7448	-213.7410	-3.34E-04	3983.	2850053.	19.3045	17244.	0.00
6.2000	-2.86E-04	633.3827	-209.6684	-2.88E-04	3734.	2850053.	21.4224	14983.	0.00
6.4000	-3.39E-04	591.8775	-205.2081	-2.45E-04	3489.	2850053.	23.1803	13670.	0.00
6.6000	-3.84E-04	551.2995	-200.4214	-2.05E-04	3250.	2850053.	24.6865	12857.	0.00
6.8000	-4.21E-04	511.7089	-195.3528	-1.68E-04	3016.	2850053.	26.0000	12348.	0.00
7.0000	-4.51E-04	473.1584	-190.0371	-1.33E-04	2789.	2850053.	27.1569	12041.	0.00
7.2000	-4.74E-04	435.6941	-184.5033	-1.01E-04	2568.	2850053.	28.1809	11881.	0.00
7.4000	-4.92E-04	399.3570	-178.7764	-7.20E-05	2354.	2850053.	29.0880	11834.	0.00
7.6000	-5.03E-04	364.1835	-172.8786	-4.52E-05	2147.	2850053.	29.8899	11881.	0.00
7.8000	-5.10E-04	330.2056	-166.8301	-2.08E-05	1946.	2850053.	30.5951	12006.	0.00
8.0000	-5.11E-04	297.4515	-160.6496	1.22E-06	1753.	2850053.	31.2102	12204.	0.00
8.2000	-5.09E-04	265.9458	-154.3546	2.10E-05	1568.	2850053.	31.7400	12468.	0.00
8.4000	-5.03E-04	235.7096	-147.9617	3.86E-05	1389.	2850053.	32.1885	12796.	0.00
8.6000	-4.94E-04	206.7611	-141.4870	5.41E-05	1219.	2850053.	32.5588	13189.	0.00
8.8000	-4.81E-04	179.1148	-134.9458	6.77E-05	1056.	2850053.	32.8533	13648.	0.00
9.0000	-4.67E-04	152.7828	-127.9159	7.93E-05	900.5975	2850053.	37.4450	16048.	0.00
9.2000	-4.50E-04	127.9485	-120.4728	8.92E-05	754.2086	2850053.	36.9866	16448.	0.00
9.4000	-4.31E-04	104.5936	-113.1275	9.73E-05	616.5406	2850053.	36.4660	16921.	0.00
9.6000	-4.11E-04	82.6975	-105.8922	1.04E-04	487.4707	2850053.	35.8874	17472.	0.00
9.8000	-3.89E-04	62.2368	-98.7780	1.09E-04	366.8626	2850053.	35.2545	18105.	0.00
10.0000	-3.67E-04	43.1863	-91.7955	1.13E-04	254.5669	2850053.	34.5706	18828.	0.00
10.2000	-3.44E-04	25.5186	-84.9546	1.15E-04	150.4225	2850053.	33.8386	19652.	0.00
10.4000	-3.21E-04	9.2044	-78.2646	1.16E-04	54.2567	2850053.	33.0613	20587.	0.00
10.6000	-2.98E-04	-5.7873	-71.7344	1.16E-04	34.1137	2850053.	32.2409	21648.	0.00

10.8000	-2.75E-04	-19.4893	-65.3723	1.16E-04	114.8823	2850053.	31.3796	22853.	0.00
11.0000	-2.52E-04	-31.9362	-59.1864	1.14E-04	188.2519	2850053.	30.4793	24223.	0.00
11.2000	-2.29E-04	-43.1639	-53.1843	1.11E-04	254.4350	2850053.	29.5416	25786.	0.00
11.4000	-2.07E-04	-53.2099	-47.3733	1.08E-04	313.6526	2850053.	28.5682	27573.	0.00
11.6000	-1.86E-04	-62.1132	-41.7605	1.04E-04	366.1343	2850053.	27.5604	29627.	0.00
11.8000	-1.66E-04	-69.9141	-36.3525	9.90E-05	412.1176	2850053.	26.5195	31999.	0.00
12.0000	-1.46E-04	-76.6542	-30.6600	9.39E-05	451.8481	2850053.	30.4056	41527.	0.00
12.2000	-1.28E-04	-82.1781	-24.1746	8.83E-05	484.4093	2850053.	34.4483	53742.	0.00
12.4000	-1.11E-04	-86.3241	-17.4453	8.24E-05	508.8482	2850053.	32.8447	59120.	0.00
12.6000	-9.52E-05	-89.1562	-11.0409	7.62E-05	525.5427	2850053.	31.1998	65520.	0.00
12.8000	-8.06E-05	-90.7404	-4.9695	6.99E-05	534.8809	2850053.	29.5138	73222.	0.00
13.0000	-6.73E-05	-91.1440	0.7605	6.36E-05	537.2601	2850053.	27.7858	82616.	0.00
13.2000	-5.52E-05	-90.4362	6.1404	5.72E-05	533.0878	2850053.	26.0135	94261.	0.00
13.4000	-4.44E-05	-88.6879	11.1610	5.09E-05	522.7820	2850053.	24.1927	108993.	0.00
13.6000	-3.48E-05	-85.9718	15.8118	4.48E-05	506.7718	2850053.	22.3154	128114.	0.00
13.8000	-2.65E-05	-82.3631	20.0802	3.89E-05	485.5001	2850053.	20.3683	153800.	0.00
14.0000	-1.93E-05	-77.9397	23.9498	3.32E-05	459.4258	2850053.	18.3277	189995.	0.00
14.2000	-1.32E-05	-72.7832	27.3974	2.79E-05	429.0300	2850053.	16.1488	244812.	0.00
14.4000	-8.11E-06	-66.9808	30.3860	2.30E-05	394.8267	2850053.	13.7364	338578.	0.00
14.6000	-3.98E-06	-60.6288	32.8432	1.86E-05	357.3845	2850053.	10.8357	545102.	0.00
14.8000	-6.88E-07	-53.8435	34.5341	1.45E-05	317.3873	2850053.	6.0730	1765210.	0.00
15.0000	1.84E-06	-46.8152	34.3057	1.10E-05	275.9583	2850053.	-8.3562	906389.	0.00
15.2000	3.72E-06	-40.1212	32.4130	7.97E-06	236.4995	2850053.	-10.5710	568529.	0.00
15.4000	5.03E-06	-33.8500	30.1864	5.37E-06	199.5333	2850053.	-11.6946	464949.	0.00
15.6000	5.87E-06	-28.0466	27.7859	3.20E-06	165.3244	2850053.	-12.3111	419658.	0.00
15.8000	6.31E-06	-22.7357	25.2934	1.42E-06	134.0183	2850053.	-12.6132	399768.	0.00
16.0000	6.43E-06	-17.9292	22.7627	-9.17E-09	105.6862	2850053.	-12.6939	394574.	0.00
16.2000	6.31E-06	-13.6306	20.2326	-1.12E-06	80.3472	2850053.	-12.6069	399800.	0.00
16.4000	5.99E-06	-9.8362	17.7333	-1.94E-06	57.9807	2850053.	-12.3868	413743.	0.00
16.6000	5.53E-06	-6.5373	15.2888	-2.51E-06	38.5348	2850053.	-12.0575	436023.	0.00
16.8000	4.98E-06	-3.7207	12.9195	-2.87E-06	21.9319	2850053.	-11.6365	467151.	0.00
17.0000	4.38E-06	-1.3695	10.6421	-3.05E-06	8.0726	2850053.	-11.1368	508424.	0.00
17.2000	3.76E-06	0.5362	8.4716	-3.08E-06	3.1607	2850053.	-10.5683	562033.	0.00
17.4000	3.15E-06	2.0192	6.4210	-2.99E-06	11.9021	2850053.	-9.9377	631354.	0.00
17.6000	2.56E-06	3.1046	4.5023	-2.81E-06	18.3004	2850053.	-9.2493	721551.	0.00
17.8000	2.02E-06	3.8201	2.7270	-2.57E-06	22.5179	2850053.	-8.5039	840730.	0.00
18.0000	1.54E-06	4.1954	1.1069	-2.29E-06	24.7302	2850053.	-7.6972	1002346.	0.00
18.2000	1.11E-06	4.2628	-0.3445	-1.99E-06	25.1277	2850053.	-6.8163	1230841.	0.00
18.4000	7.39E-07	4.0576	-1.6091	-1.70E-06	23.9180	2850053.	-5.8294	1577336.	0.00
18.6000	4.28E-07	3.6192	-2.6574	-1.43E-06	21.3338	2850053.	-4.6542	2176572.	0.00
18.8000	1.67E-07	2.9946	-3.1342	-1.20E-06	17.6522	2850053.	-0.1134	135828.	0.00
19.0000	-5.17E-08	2.3655	-3.1420	-1.01E-06	13.9439	2850053.	0.03510	135828.	0.00
19.2000	-2.37E-07	1.7378	-3.1224	-8.66E-07	10.2438	2850053.	0.1611	135828.	0.00
19.4000	-3.98E-07	1.1166	-3.0792	-7.66E-07	6.5817	2850053.	0.2704	135828.	0.00

19.6000	-5.44E-07	0.5061	-2.4676	-7.09E-07	2.9834	2850053.	5.8462	2150835.	0.00
19.8000	-6.82E-07	0.1295	-1.2653	-6.87E-07	0.7636	2850053.	6.1764	1811472.	0.00
20.0000	-8.18E-07	0.00	0.00	-6.82E-07	0.00	2850053.	6.4767	791379.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 8:

Pile-head deflection = 0.00767883 meters
Computed slope at pile head = -0.00210496 radians
Maximum bending moment = 1148. kN-m
Maximum shear force = 600.00000000 kN
Depth of maximum bending moment = 3.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 17
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 9

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 800.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.01301	2.47E-10	800.0000	-0.00329	1.46E-09	2850053.	0.00	0.00	0.00
0.2000	0.01235	160.0000	793.4477	-0.00328	943.1404	2850053.	-65.5228	1061.	0.00
0.4000	0.01169	317.3791	776.9571	-0.00327	1871.	2850053.	-99.3836	1700.	0.00
0.6000	0.01104	470.7828	753.9671	-0.00324	2775.	2850053.	-130.5157	2364.	0.00
0.8000	0.01040	618.9659	724.9972	-0.00320	3649.	2850053.	-159.1838	3062.	0.00
1.0000	0.00976	760.7817	690.5254	-0.00315	4485.	2850053.	-185.5345	3801.	0.00
1.2000	0.00914	895.1761	651.0070	-0.00309	5277.	2850053.	-209.6497	4589.	0.00
1.4000	0.00852	1021.	606.8847	-0.00303	6020.	2850053.	-231.5730	5433.	0.00
1.6000	0.00793	1138.	558.5952	-0.00295	6708.	2850053.	-251.3222	6341.	0.00

1.8000	0.00734	1245.	506.5733	-0.00287	7337.	2850053.	-268.8962	7322.	0.00
2.0000	0.00678	1341.	451.2561	-0.00278	7902.	2850053.	-284.2758	8386.	0.00
2.2000	0.00623	1425.	393.0867	-0.00268	8401.	2850053.	-297.4184	9542.	0.00
2.4000	0.00571	1498.	332.5209	-0.00258	8829.	2850053.	-308.2394	10800.	0.00
2.6000	0.00520	1558.	270.0429	-0.00247	9185.	2850053.	-316.5405	12166.	0.00
2.8000	0.00472	1606.	206.2974	-0.00236	9466.	2850053.	-320.9150	13596.	0.00
3.0000	0.00426	1641.	142.0302	-0.00224	9671.	2850053.	-321.7572	15105.	0.00
3.2000	0.00382	1663.	77.7749	-0.00213	9801.	2850053.	-320.7958	16783.	0.00
3.4000	0.00341	1672.	13.8916	-0.00201	9854.	2850053.	-318.0371	18660.	0.00
3.6000	0.00302	1668.	-49.2603	-0.00189	9833.	2850053.	-313.4820	20773.	0.00
3.8000	0.00265	1652.	-110.2714	-0.00178	9738.	2850053.	-296.6286	22378.	0.00
4.0000	0.00231	1624.	-167.6060	-0.00166	9573.	2850053.	-276.7171	23988.	0.00
4.2000	0.00199	1585.	-220.9511	-0.00155	9343.	2850053.	-256.7347	25856.	0.00
4.4000	0.00169	1536.	-249.7217	-0.00144	9052.	2850053.	-30.9713	3672.	0.00
4.6000	0.00141	1485.	-255.8171	-0.00133	8754.	2850053.	-29.9819	4254.	0.00
4.8000	0.00115	1433.	-261.6951	-0.00123	8449.	2850053.	-28.7982	4995.	0.00
5.0000	9.17E-04	1380.	-267.3129	-0.00113	8137.	2850053.	-27.3802	5974.	0.00
5.2000	7.00E-04	1326.	-272.6173	-0.00104	7819.	2850053.	-25.6639	7337.	0.00
5.4000	5.01E-04	1271.	-277.5375	-9.48E-04	7494.	2850053.	-23.5380	9394.	0.00
5.6000	3.21E-04	1215.	-281.9689	-8.60E-04	7164.	2850053.	-20.7765	12963.	0.00
5.8000	1.57E-04	1159.	-285.7237	-7.77E-04	6830.	2850053.	-16.7706	21359.	0.00
6.0000	9.77E-06	1101.	-288.0833	-6.98E-04	6491.	2850053.	-6.8262	139781.	0.00
6.2000	-1.22E-04	1043.	-287.1533	-6.22E-04	6150.	2850053.	16.1267	26427.	0.00
6.4000	-2.39E-04	986.2731	-283.4772	-5.51E-04	5814.	2850053.	20.6342	17252.	0.00
6.6000	-3.43E-04	929.9903	-279.0373	-4.84E-04	5482.	2850053.	23.7645	13875.	0.00
6.8000	-4.33E-04	874.6582	-274.0369	-4.21E-04	5156.	2850053.	26.2391	12125.	0.00
7.0000	-5.11E-04	820.3755	-268.5823	-3.61E-04	4836.	2850053.	28.3074	11083.	0.00
7.2000	-5.77E-04	767.2252	-262.7428	-3.06E-04	4523.	2850053.	30.0879	10424.	0.00
7.4000	-6.33E-04	715.2784	-256.5693	-2.53E-04	4216.	2850053.	31.6472	9999.	0.00
7.6000	-6.79E-04	664.5975	-250.1019	-2.05E-04	3918.	2850053.	33.0263	9732.	0.00
7.8000	-7.15E-04	615.2377	-243.3740	-1.60E-04	3627.	2850053.	34.2523	9580.	0.00
8.0000	-7.43E-04	567.2479	-236.4144	-1.19E-04	3344.	2850053.	35.3440	9517.	0.00
8.2000	-7.63E-04	520.6719	-229.2485	-8.05E-05	3069.	2850053.	36.3151	9525.	0.00
8.4000	-7.75E-04	475.5485	-221.8994	-4.56E-05	2803.	2850053.	37.1758	9594.	0.00
8.6000	-7.81E-04	431.9121	-214.3885	-1.37E-05	2546.	2850053.	37.9336	9717.	0.00
8.8000	-7.80E-04	389.7931	-206.7357	1.51E-05	2298.	2850053.	38.5946	9890.	0.00
9.0000	-7.75E-04	349.2179	-198.4423	4.10E-05	2059.	2850053.	44.3388	11447.	0.00
9.2000	-7.64E-04	310.4162	-189.5950	6.42E-05	1830.	2850053.	44.1346	11553.	0.00
9.4000	-7.49E-04	273.3799	-180.7971	8.47E-05	1611.	2850053.	43.8437	11707.	0.00
9.6000	-7.30E-04	238.0973	-172.0655	1.03E-04	1403.	2850053.	43.4728	11908.	0.00
9.8000	-7.08E-04	204.5537	-163.4154	1.18E-04	1206.	2850053.	43.0278	12155.	0.00
10.0000	-6.83E-04	172.7312	-154.8613	1.31E-04	1018.	2850053.	42.5140	12451.	0.00
10.2000	-6.55E-04	142.6092	-146.4163	1.42E-04	840.6281	2850053.	41.9358	12797.	0.00
10.4000	-6.26E-04	114.1646	-138.0930	1.51E-04	672.9581	2850053.	41.2972	13195.	0.00

10.6000	-5.95E-04	87.3720	-129.9031	1.59E-04	515.0254	2850053.	40.6018	13651.	0.00
10.8000	-5.63E-04	62.2034	-121.8576	1.64E-04	366.6660	2850053.	39.8528	14169.	0.00
11.0000	-5.29E-04	38.6289	-113.9670	1.67E-04	227.7032	2850053.	39.0531	14756.	0.00
11.2000	-4.96E-04	16.6166	-106.2412	1.69E-04	97.9487	2850053.	38.2052	15418.	0.00
11.4000	-4.62E-04	-3.8675	-98.6895	1.70E-04	22.7977	2850053.	37.3117	16166.	0.00
11.6000	-4.28E-04	-22.8592	-91.3209	1.69E-04	134.7465	2850053.	36.3748	17009.	0.00
11.8000	-3.94E-04	-40.3959	-84.1437	1.67E-04	238.1187	2850053.	35.3965	17963.	0.00
12.0000	-3.61E-04	-56.5167	-76.4962	1.63E-04	333.1449	2850053.	41.0785	22753.	0.00
12.2000	-3.29E-04	-70.9944	-67.6727	1.59E-04	418.4854	2850053.	47.1572	28680.	0.00
12.4000	-2.98E-04	-83.5858	-58.3955	1.53E-04	492.7070	2850053.	45.6144	30653.	0.00
12.6000	-2.68E-04	-94.3526	-49.4317	1.47E-04	556.1733	2850053.	44.0239	32909.	0.00
12.8000	-2.39E-04	-103.3584	-40.7905	1.40E-04	609.2595	2850053.	42.3878	35499.	0.00
13.0000	-2.12E-04	-110.6688	-32.4809	1.33E-04	652.3513	2850053.	40.7079	38490.	0.00
13.2000	-1.86E-04	-116.3508	-24.5116	1.25E-04	685.8448	2850053.	38.9854	41967.	0.00
13.4000	-1.62E-04	-120.4734	-16.8910	1.16E-04	710.1461	2850053.	37.2213	46041.	0.00
13.6000	-1.39E-04	-123.1072	-9.6273	1.08E-04	725.6711	2850053.	35.4157	50857.	0.00
13.8000	-1.19E-04	-124.3243	-2.7288	9.91E-05	732.8457	2850053.	33.5683	56612.	0.00
14.0000	-9.97E-05	-124.1987	3.7957	9.03E-05	732.1053	2850053.	31.6774	63576.	0.00
14.2000	-8.25E-05	-122.8061	9.9374	8.17E-05	723.8960	2850053.	29.7399	72135.	0.00
14.4000	-6.70E-05	-120.2238	15.6865	7.31E-05	708.6743	2850053.	27.7503	82857.	0.00
14.6000	-5.32E-05	-116.5315	21.0315	6.48E-05	686.9096	2850053.	25.6999	96619.	0.00
14.8000	-4.10E-05	-111.8112	25.9588	5.68E-05	659.0852	2850053.	23.5735	114857.	0.00
15.0000	-3.05E-05	-106.1479	30.4508	4.92E-05	625.7026	2850053.	21.3459	140119.	0.00
15.2000	-2.14E-05	-99.6309	34.4824	4.20E-05	587.2869	2850053.	18.9706	177482.	0.00
15.4000	-1.37E-05	-92.3550	38.0149	3.52E-05	544.3982	2850053.	16.3543	239006.	0.00
15.6000	-7.29E-06	-84.4249	40.9769	2.90E-05	497.6534	2850053.	13.2654	363979.	0.00
15.8000	-2.08E-06	-75.9642	43.1795	2.34E-05	447.7808	2850053.	8.7605	843225.	0.00
16.0000	2.07E-06	-67.1531	43.1892	1.84E-05	395.8427	2850053.	-8.6625	838066.	0.00
16.2000	5.27E-06	-58.6885	41.1362	1.40E-05	345.9470	2850053.	-11.8681	450411.	0.00
16.4000	7.65E-06	-50.6987	38.6048	1.01E-05	298.8497	2850053.	-13.4455	351569.	0.00
16.6000	9.32E-06	-43.2466	35.8240	6.82E-06	254.9226	2850053.	-14.3628	308338.	0.00
16.8000	1.04E-05	-36.3691	32.8987	4.03E-06	214.3820	2850053.	-14.8904	286998.	0.00
17.0000	1.09E-05	-30.0871	29.8946	1.69E-06	177.3524	2850053.	-15.1504	277310.	0.00
17.2000	1.11E-05	-24.4112	26.8586	-2.18E-07	143.8950	2850053.	-15.2102	275187.	0.00
17.4000	1.08E-05	-19.3437	23.8264	-1.75E-06	114.0239	2850053.	-15.1117	278825.	0.00
17.6000	1.04E-05	-14.8807	20.8269	-2.95E-06	87.7160	2850053.	-14.8828	287502.	0.00
17.8000	9.66E-06	-11.0129	17.8844	-3.86E-06	64.9172	2850053.	-14.5425	301149.	0.00
18.0000	8.81E-06	-7.7269	15.0198	-4.52E-06	45.5473	2850053.	-14.1033	320230.	0.00
18.2000	7.85E-06	-5.0050	12.2522	-4.97E-06	29.5027	2850053.	-13.5727	345800.	0.00
18.4000	6.82E-06	-2.8260	9.5997	-5.24E-06	16.6584	2850053.	-12.9527	379756.	0.00
18.6000	5.75E-06	-1.1652	7.0805	-5.38E-06	6.8681	2850053.	-12.2387	425438.	0.00
18.8000	4.67E-06	0.00618	4.7150	-5.42E-06	0.03642	2850053.	-11.4167	489046.	0.00
19.0000	3.58E-06	0.7208	2.5277	-5.40E-06	4.2491	2850053.	-10.4556	583362.	0.00
19.2000	2.51E-06	1.0173	0.5534	-5.34E-06	5.9965	2850053.	-9.2877	739952.	0.00

19.4000	1.45E-06	0.9422	-1.1495	-5.27E-06	5.5539	2850053.	-7.7410	1067468.	0.00
19.6000	4.04E-07	0.5575	-1.9510	-5.21E-06	3.2862	2850053.	-0.2741	135828.	0.00
19.8000	-6.35E-07	0.1618	-1.3937	-5.19E-06	0.9539	2850053.	5.8463	1840326.	0.00
20.0000	-1.67E-06	0.00	0.00	-5.18E-06	0.00	2850053.	8.0910	483903.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 9:

Pile-head deflection = 0.01300618 meters
Computed slope at pile head = -0.00328823 radians
Maximum bending moment = 1672. kN-m
Maximum shear force = 800.00000000 kN
Depth of maximum bending moment = 3.40000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 21
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 10

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 1000.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.02132	2.72E-09	1000.	-0.00491	1.60E-08	2850053.	0.00	0.00	0.00
0.2000	0.02034	200.0000	995.3724	-0.00490	1179.	2850053.	-46.2762	454.9885	0.00
0.4000	0.01936	398.1490	983.1566	-0.00488	2347.	2850053.	-75.8819	783.7689	0.00
0.6000	0.01839	593.2626	964.6328	-0.00484	3497.	2850053.	-109.3562	1189.	0.00
0.8000	0.01743	784.0021	938.8330	-0.00479	4621.	2850053.	-148.6417	1706.	0.00
1.0000	0.01647	968.7958	905.4422	-0.00473	5711.	2850053.	-185.2657	2249.	0.00
1.2000	0.01553	1146.	864.9945	-0.00466	6756.	2850053.	-219.2111	2823.	0.00
1.4000	0.01461	1315.	818.0139	-0.00457	7750.	2850053.	-250.5954	3431.	0.00

1.6000	0.01370	1473.	765.0048	-0.00447	8685.	2850053.	-279.4953	4079.	0.00
1.8000	0.01282	1621.	706.4591	-0.00437	9554.	2850053.	-305.9615	4774.	0.00
2.0000	0.01196	1756.	642.8603	-0.00425	10351.	2850053.	-330.0274	5520.	0.00
2.2000	0.01112	1878.	574.6861	-0.00412	11070.	2850053.	-351.7143	6326.	0.00
2.4000	0.01031	1986.	502.4112	-0.00398	11706.	2850053.	-371.0345	7198.	0.00
2.6000	0.00953	2079.	426.5086	-0.00384	12254.	2850053.	-387.9918	8146.	0.00
2.8000	0.00877	2156.	347.4512	-0.00369	12711.	2850053.	-402.5821	9179.	0.00
3.0000	0.00805	2218.	265.7139	-0.00354	13074.	2850053.	-414.7904	10307.	0.00
3.2000	0.00736	2263.	181.7763	-0.00338	13338.	2850053.	-424.5860	11544.	0.00
3.4000	0.00670	2291.	96.1266	-0.00322	13502.	2850053.	-431.9113	12902.	0.00
3.6000	0.00607	2301.	9.2784	-0.00306	13565.	2850053.	-436.5699	14392.	0.00
3.8000	0.00547	2294.	-76.7210	-0.00290	13524.	2850053.	-423.4248	15480.	0.00
4.0000	0.00491	2270.	-159.4179	-0.00274	13384.	2850053.	-403.5441	16449.	0.00
4.2000	0.00437	2231.	-237.8755	-0.00258	13148.	2850053.	-381.0321	17421.	0.00
4.4000	0.00387	2175.	-280.0646	-0.00243	12823.	2850053.	-40.8586	2110.	0.00
4.6000	0.00340	2119.	-288.1725	-0.00228	12488.	2850053.	-40.2205	2364.	0.00
4.8000	0.00296	2060.	-296.1388	-0.00213	12143.	2850053.	-39.4422	2663.	0.00
5.0000	0.00255	2000.	-303.9341	-0.00199	11790.	2850053.	-38.5112	3019.	0.00
5.2000	0.00217	1939.	-311.5263	-0.00185	11427.	2850053.	-37.4105	3452.	0.00
5.4000	0.00181	1875.	-318.8790	-0.00172	11055.	2850053.	-36.1170	3989.	0.00
5.6000	0.00148	1811.	-325.9505	-0.00159	10675.	2850053.	-34.5978	4673.	0.00
5.8000	0.00118	1745.	-332.6907	-0.00146	10287.	2850053.	-32.8038	5578.	0.00
6.0000	8.96E-04	1678.	-339.0367	-0.00134	9890.	2850053.	-30.6564	6843.	0.00
6.2000	6.39E-04	1609.	-344.9041	-0.00123	9487.	2850053.	-28.0175	8765.	0.00
6.4000	4.05E-04	1540.	-350.1662	-0.00112	9077.	2850053.	-24.6031	12142.	0.00
6.6000	1.93E-04	1469.	-354.5890	-0.00101	8661.	2850053.	-19.6257	20356.	0.00
6.8000	1.00E-06	1398.	-356.9045	-9.10E-04	8241.	2850053.	-3.5292	703460.	0.00
7.0000	-1.71E-04	1327.	-355.2913	-8.14E-04	7820.	2850053.	19.6620	22971.	0.00
7.2000	-3.25E-04	1256.	-350.8412	-7.24E-04	7403.	2850053.	24.8382	15296.	0.00
7.4000	-4.61E-04	1186.	-345.5107	-6.38E-04	6993.	2850053.	28.4674	12358.	0.00
7.6000	-5.80E-04	1118.	-339.5298	-5.57E-04	6589.	2850053.	31.3416	10807.	0.00
7.8000	-6.84E-04	1050.	-333.0212	-4.81E-04	6192.	2850053.	33.7436	9872.	0.00
8.0000	-7.73E-04	984.5465	-326.0659	-4.10E-04	5804.	2850053.	35.8100	9271.	0.00
8.2000	-8.48E-04	920.0495	-318.7231	-3.43E-04	5423.	2850053.	37.6182	8877.	0.00
8.4000	-9.10E-04	857.0573	-311.0396	-2.81E-04	5052.	2850053.	39.2165	8622.	0.00
8.6000	-9.60E-04	795.6337	-303.0543	-2.23E-04	4690.	2850053.	40.6368	8468.	0.00
8.8000	-9.99E-04	735.8356	-294.8004	-1.69E-04	4337.	2850053.	41.9018	8391.	0.00
9.0000	-0.00103	677.7135	-285.7389	-1.19E-04	3995.	2850053.	48.7137	9483.	0.00
9.2000	-0.00105	621.5400	-275.9661	-7.37E-05	3664.	2850053.	49.0139	9367.	0.00
9.4000	-0.00106	567.3271	-266.1472	-3.20E-05	3344.	2850053.	49.1754	9306.	0.00
9.6000	-0.00106	515.0812	-256.3083	5.98E-06	3036.	2850053.	49.2129	9292.	0.00
9.8000	-0.00105	464.8038	-246.4732	4.04E-05	2740.	2850053.	49.1383	9320.	0.00
10.0000	-0.00104	416.4919	-236.6632	7.13E-05	2455.	2850053.	48.9617	9388.	0.00
10.2000	-0.00103	370.1385	-226.8979	9.89E-05	2182.	2850053.	48.6914	9492.	0.00

10.4000	-0.00100	325.7327	-217.1953	1.23E-04	1920.	2850053.	48.3348	9633.	0.00
10.6000	-9.77E-04	283.2604	-207.5720	1.45E-04	1670.	2850053.	47.8983	9809.	0.00
10.8000	-9.46E-04	242.7039	-198.0434	1.63E-04	1431.	2850053.	47.3873	10022.	0.00
11.0000	-9.11E-04	204.0430	-188.6240	1.79E-04	1203.	2850053.	46.8069	10272.	0.00
11.2000	-8.74E-04	167.2543	-179.3272	1.92E-04	985.9021	2850053.	46.1613	10561.	0.00
11.4000	-8.35E-04	132.3121	-170.1656	2.02E-04	779.9308	2850053.	45.4546	10892.	0.00
11.6000	-7.93E-04	99.1881	-161.1511	2.10E-04	584.6770	2850053.	44.6903	11268.	0.00
11.8000	-7.50E-04	67.8517	-152.2949	2.16E-04	399.9605	2850053.	43.8718	11692.	0.00
12.0000	-7.07E-04	38.2702	-142.7695	2.20E-04	225.5883	2850053.	51.3824	14541.	0.00
12.2000	-6.62E-04	10.7439	-131.6758	2.22E-04	63.3313	2850053.	59.5546	17980.	0.00
12.4000	-6.18E-04	-14.4002	-119.9011	2.22E-04	84.8835	2850053.	58.1922	18832.	0.00
12.6000	-5.74E-04	-37.2165	-108.4049	2.20E-04	219.3775	2850053.	56.7695	19787.	0.00
12.8000	-5.30E-04	-57.7621	-97.1990	2.16E-04	340.4862	2850053.	55.2899	20860.	0.00
13.0000	-4.87E-04	-76.0961	-86.2944	2.12E-04	448.5582	2850053.	53.7563	22067.	0.00
13.2000	-4.45E-04	-92.2799	-75.7016	2.06E-04	543.9554	2850053.	52.1715	23428.	0.00
13.4000	-4.05E-04	-106.3767	-65.4306	1.99E-04	627.0513	2850053.	50.5382	24966.	0.00
13.6000	-3.66E-04	-118.4521	-55.4910	1.91E-04	698.2310	2850053.	48.8583	26712.	0.00
13.8000	-3.28E-04	-128.5731	-45.8917	1.82E-04	757.8907	2850053.	47.1339	28702.	0.00
14.0000	-2.93E-04	-136.8088	-36.6417	1.73E-04	806.4369	2850053.	45.3666	30980.	0.00
14.2000	-2.59E-04	-143.2298	-27.7493	1.63E-04	844.2863	2850053.	43.5575	33606.	0.00
14.4000	-2.28E-04	-147.9085	-19.2228	1.53E-04	871.8655	2850053.	41.7074	36652.	0.00
14.6000	-1.98E-04	-150.9189	-11.0704	1.43E-04	889.6108	2850053.	39.8163	40214.	0.00
14.8000	-1.71E-04	-152.3367	-3.3004	1.32E-04	897.9679	2850053.	37.8838	44419.	0.00
15.0000	-1.45E-04	-152.2391	4.0788	1.21E-04	897.3926	2850053.	35.9082	49437.	0.00
15.2000	-1.22E-04	-150.7051	11.0582	1.11E-04	888.3507	2850053.	33.8862	55506.	0.00
15.4000	-1.01E-04	-147.8158	17.6282	1.00E-04	871.3189	2850053.	31.8128	62968.	0.00
15.6000	-8.21E-05	-143.6539	23.7774	8.99E-05	846.7862	2850053.	29.6793	72332.	0.00
15.8000	-6.51E-05	-138.3048	29.4925	8.00E-05	815.2555	2850053.	27.4720	84400.	0.00
16.0000	-5.01E-05	-131.8569	34.7565	7.05E-05	777.2473	2850053.	25.1681	100520.	0.00
16.2000	-3.69E-05	-124.4022	39.5462	6.15E-05	733.3048	2850053.	22.7288	123180.	0.00
16.4000	-2.55E-05	-116.0384	43.8272	5.31E-05	684.0033	2850053.	20.0811	157643.	0.00
16.6000	-1.57E-05	-106.8714	47.5422	4.52E-05	629.9669	2850053.	17.0692	217740.	0.00
16.8000	-7.38E-06	-97.0215	50.5743	3.81E-05	571.9058	2850053.	13.2521	359119.	0.00
17.0000	-4.44E-07	-86.6416	52.3908	3.16E-05	510.7201	2850053.	4.9122	2213795.	0.00
17.2000	5.28E-06	-76.0652	51.6864	2.59E-05	448.3761	2850053.	-11.9557	453145.	0.00
17.4000	9.93E-06	-65.9670	49.0185	2.10E-05	388.8512	2850053.	-14.7241	296565.	0.00
17.6000	1.37E-05	-56.4578	45.9099	1.67E-05	332.7979	2850053.	-16.3617	239611.	0.00
17.8000	1.66E-05	-47.6031	42.5285	1.30E-05	280.6025	2850053.	-17.4520	210370.	0.00
18.0000	1.89E-05	-39.4464	38.9624	9.95E-06	232.5220	2850053.	-18.2089	193113.	0.00
18.2000	2.06E-05	-32.0181	35.2674	7.44E-06	188.7349	2850053.	-18.7416	182210.	0.00
18.4000	2.18E-05	-25.3395	31.4817	5.43E-06	149.3668	2850053.	-19.1157	175092.	0.00
18.6000	2.27E-05	-19.4255	27.6325	3.86E-06	114.5059	2850053.	-19.3754	170385.	0.00
18.8000	2.34E-05	-14.2865	23.7397	2.68E-06	84.2134	2850053.	-19.5528	167272.	0.00
19.0000	2.38E-05	-9.9296	19.8172	1.83E-06	58.5311	2850053.	-19.6721	165219.	0.00

19.2000	2.41E-05	-6.3596	15.8748	1.25E-06	37.4873	2850053.	-19.7521	163857.	0.00
19.4000	2.43E-05	-3.5797	11.9189	9.06E-07	21.1007	2850053.	-19.8072	162921.	0.00
19.6000	2.45E-05	-1.5920	7.9533	7.24E-07	9.3844	2850053.	-19.8485	162219.	0.00
19.8000	2.46E-05	-0.3983	3.9801	6.55E-07	2.3481	2850053.	-19.8836	161623.	0.00
20.0000	2.47E-05	0.00	0.00	6.41E-07	0.00	2850053.	-19.9171	80528.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 10:

Pile-head deflection = 0.02132287 meters
Computed slope at pile head = -0.00490588 radians
Maximum bending moment = 2301. kN-m
Maximum shear force = 1000. kN
Depth of maximum bending moment = 3.60000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 28
Number of zero deflection points = 2

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 11

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 1200.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.04316	3.46E-09	1200.	-0.00822	2.04E-08	2850053.	0.00	0.00	0.00
0.2000	0.04152	240.0000	1199.	-0.00821	1415.	2850053.	-8.5501	41.1885	0.00
0.4000	0.03988	479.6580	1195.	-0.00818	2827.	2850053.	-32.0925	160.9562	0.00
0.6000	0.03824	718.0323	1186.	-0.00814	4233.	2850053.	-59.9675	313.6019	0.00
0.8000	0.03662	954.0079	1171.	-0.00808	5624.	2850053.	-91.4615	499.4968	0.00
1.0000	0.03501	1186.	1149.	-0.00801	6993.	2850053.	-125.9579	719.5132	0.00
1.2000	0.03342	1414.	1120.	-0.00791	8333.	2850053.	-162.9154	974.9834	0.00

1.4000	0.03185	1634.	1084.	-0.00781	9634.	2850053.	-201.8550	1268.	0.00
1.6000	0.03030	1847.	1039.	-0.00769	10888.	2850053.	-242.3505	1600.	0.00
1.8000	0.02877	2050.	986.5676	-0.00755	12084.	2850053.	-284.0228	1974.	0.00
2.0000	0.02728	2242.	925.5118	-0.00740	13214.	2850053.	-326.5357	2394.	0.00
2.2000	0.02581	2420.	856.2704	-0.00723	14266.	2850053.	-365.8779	2835.	0.00
2.4000	0.02438	2584.	779.4047	-0.00706	15233.	2850053.	-402.7797	3304.	0.00
2.6000	0.02299	2732.	695.4101	-0.00687	16104.	2850053.	-437.1660	3803.	0.00
2.8000	0.02163	2862.	604.7835	-0.00668	16873.	2850053.	-469.0998	4337.	0.00
3.0000	0.02032	2974.	508.0098	-0.00647	17530.	2850053.	-498.6369	4908.	0.00
3.2000	0.01905	3066.	405.5634	-0.00626	18070.	2850053.	-525.8276	5522.	0.00
3.4000	0.01781	3136.	297.9090	-0.00604	18486.	2850053.	-550.7166	6183.	0.00
3.6000	0.01663	3185.	185.5461	-0.00582	18773.	2850053.	-572.9116	6891.	0.00
3.8000	0.01549	3210.	71.0078	-0.00560	18924.	2850053.	-572.4722	7393.	0.00
4.0000	0.01439	3213.	-42.7716	-0.00537	18940.	2850053.	-565.3216	7857.	0.00
4.2000	0.01334	3193.	-155.0053	-0.00515	18823.	2850053.	-557.0147	8352.	0.00
4.4000	0.01233	3151.	-216.7172	-0.00492	18575.	2850053.	-60.1052	974.8065	0.00
4.6000	0.01137	3107.	-228.7402	-0.00470	18312.	2850053.	-60.1244	1058.	0.00
4.8000	0.01045	3060.	-240.7566	-0.00449	18035.	2850053.	-60.0393	1149.	0.00
5.0000	0.00957	3010.	-252.7453	-0.00427	17744.	2850053.	-59.8476	1250.	0.00
5.2000	0.00874	2959.	-264.6847	-0.00406	17439.	2850053.	-59.5465	1363.	0.00
5.4000	0.00795	2904.	-276.5526	-0.00386	17120.	2850053.	-59.1330	1488.	0.00
5.6000	0.00720	2848.	-288.3262	-0.00366	16787.	2850053.	-58.6032	1629.	0.00
5.8000	0.00649	2789.	-299.9819	-0.00346	16441.	2850053.	-57.9529	1787.	0.00
6.0000	0.00581	2728.	-311.4948	-0.00327	16080.	2850053.	-57.1768	1967.	0.00
6.2000	0.00518	2664.	-322.8393	-0.00308	15706.	2850053.	-56.2684	2173.	0.00
6.4000	0.00458	2599.	-333.9882	-0.00289	15319.	2850053.	-55.2198	2410.	0.00
6.6000	0.00402	2531.	-344.9123	-0.00271	14919.	2850053.	-54.0211	2686.	0.00
6.8000	0.00350	2461.	-355.5803	-0.00254	14506.	2850053.	-52.6597	3011.	0.00
7.0000	0.00301	2389.	-365.9582	-0.00237	14080.	2850053.	-51.1191	3399.	0.00
7.2000	0.00255	2314.	-376.0079	-0.00220	13643.	2850053.	-49.3772	3871.	0.00
7.4000	0.00213	2238.	-385.6860	-0.00204	13194.	2850053.	-47.4036	4457.	0.00
7.6000	0.00173	2160.	-394.9418	-0.00189	12733.	2850053.	-45.1548	5207.	0.00
7.8000	0.00137	2080.	-403.7138	-0.00174	12262.	2850053.	-42.5652	6204.	0.00
8.0000	0.00104	1999.	-411.9232	-0.00160	11781.	2850053.	-39.5286	7609.	0.00
8.2000	7.34E-04	1915.	-419.4616	-0.00146	11291.	2850053.	-35.8555	9771.	0.00
8.4000	4.56E-04	1831.	-426.1617	-0.00133	10792.	2850053.	-31.1451	13669.	0.00
8.6000	2.03E-04	1745.	-431.6980	-0.00120	10286.	2850053.	-24.2179	23839.	0.00
8.8000	-2.49E-05	1658.	-432.8961	-0.00108	9775.	2850053.	12.2368	98459.	0.00
9.0000	-2.30E-04	1572.	-428.7160	-9.69E-04	9266.	2850053.	29.5634	25750.	0.00
9.2000	-4.12E-04	1487.	-422.1664	-8.61E-04	8764.	2850053.	35.9328	17430.	0.00
9.4000	-5.74E-04	1403.	-414.5606	-7.60E-04	8270.	2850053.	40.1256	13977.	0.00
9.6000	-7.16E-04	1321.	-406.2284	-6.64E-04	7786.	2850053.	43.1958	12061.	0.00
9.8000	-8.40E-04	1241.	-397.3539	-5.74E-04	7312.	2850053.	45.5498	10847.	0.00
10.0000	-9.46E-04	1162.	-388.0595	-4.90E-04	6849.	2850053.	47.3938	10019.	0.00

10.2000	-0.00104	1085.	-378.4352	-4.11E-04	6397.	2850053.	48.8495	9431.	0.00
10.4000	-0.00111	1011.	-368.5506	-3.38E-04	5957.	2850053.	49.9958	9003.	0.00
10.6000	-0.00117	937.8697	-358.4624	-2.69E-04	5528.	2850053.	50.8872	8690.	0.00
10.8000	-0.00122	867.1950	-348.2173	-2.06E-04	5112.	2850053.	51.5633	8464.	0.00
11.0000	-0.00125	798.5828	-337.8555	-1.48E-04	4707.	2850053.	52.0543	8305.	0.00
11.2000	-0.00128	732.0528	-327.4118	-9.40E-05	4315.	2850053.	52.3834	8201.	0.00
11.4000	-0.00129	667.6181	-316.9165	-4.49E-05	3935.	2850053.	52.5694	8143.	0.00
11.6000	-0.00130	605.2862	-306.3968	-1.88E-07	3568.	2850053.	52.6275	8125.	0.00
11.8000	-0.00129	545.0594	-295.8770	4.02E-05	3213.	2850053.	52.5704	8143.	0.00
12.0000	-0.00128	486.9354	-284.3578	7.64E-05	2870.	2850053.	62.6221	9790.	0.00
12.2000	-0.00126	431.3163	-270.7154	1.09E-04	2542.	2850053.	73.8015	11708.	0.00
12.4000	-0.00124	378.6492	-256.0037	1.37E-04	2232.	2850053.	73.3153	11864.	0.00
12.6000	-0.00121	328.9148	-241.4006	1.62E-04	1939.	2850053.	72.7160	12061.	0.00
12.8000	-0.00117	282.0890	-226.9278	1.83E-04	1663.	2850053.	72.0122	12297.	0.00
13.0000	-0.00113	238.1437	-212.6054	2.02E-04	1404.	2850053.	71.2114	12576.	0.00
13.2000	-0.00109	197.0468	-198.4522	2.17E-04	1162.	2850053.	70.3204	12896.	0.00
13.4000	-0.00105	158.7628	-184.4857	2.29E-04	935.8475	2850053.	69.3452	13262.	0.00
13.6000	-9.99E-04	123.2526	-170.7221	2.39E-04	726.5279	2850053.	68.2910	13674.	0.00
13.8000	-9.50E-04	90.4740	-157.1767	2.47E-04	533.3104	2850053.	67.1625	14137.	0.00
14.0000	-9.00E-04	60.3819	-143.8641	2.52E-04	355.9287	2850053.	65.9638	14656.	0.00
14.2000	-8.49E-04	32.9283	-130.7979	2.55E-04	194.1003	2850053.	64.6983	15235.	0.00
14.4000	-7.98E-04	8.0627	-117.9911	2.57E-04	47.5268	2850053.	63.3690	15881.	0.00
14.6000	-7.47E-04	-14.2681	-105.4564	2.56E-04	84.1052	2850053.	61.9784	16601.	0.00
14.8000	-6.95E-04	-34.1198	-93.2057	2.55E-04	201.1236	2850053.	60.5282	17406.	0.00
15.0000	-6.45E-04	-51.5504	-81.2510	2.52E-04	303.8704	2850053.	59.0196	18308.	0.00
15.2000	-5.95E-04	-66.6202	-69.6037	2.48E-04	392.7013	2850053.	57.4530	19320.	0.00
15.4000	-5.46E-04	-79.3919	-58.2756	2.43E-04	467.9855	2850053.	55.8278	20461.	0.00
15.6000	-4.98E-04	-89.9304	-47.2786	2.37E-04	530.1065	2850053.	54.1425	21754.	0.00
15.8000	-4.51E-04	-98.3033	-36.6249	2.30E-04	579.4614	2850053.	52.3941	23231.	0.00
16.0000	-4.06E-04	-104.5804	-26.3278	2.23E-04	616.4627	2850053.	50.5779	24929.	0.00
16.2000	-3.62E-04	-108.8344	-16.4013	2.15E-04	641.5384	2850053.	48.6868	26903.	0.00
16.4000	-3.20E-04	-111.1409	-6.8615	2.08E-04	655.1344	2850053.	46.7108	29227.	0.00
16.6000	-2.79E-04	-111.5790	2.2731	2.00E-04	657.7168	2850053.	44.6350	32009.	0.00
16.8000	-2.40E-04	-110.2317	10.9804	1.92E-04	649.7749	2850053.	42.4385	35408.	0.00
17.0000	-2.02E-04	-107.1869	19.2333	1.84E-04	631.8267	2850053.	40.0900	39678.	0.00
17.2000	-1.66E-04	-102.5384	26.9965	1.77E-04	604.4258	2850053.	37.5423	45246.	0.00
17.4000	-1.31E-04	-96.3883	34.2227	1.70E-04	568.1730	2850053.	34.7194	52903.	0.00
17.6000	-9.79E-05	-88.8493	40.8435	1.64E-04	523.7338	2850053.	31.4888	64315.	0.00
17.8000	-6.58E-05	-80.0509	46.7509	1.58E-04	471.8701	2850053.	27.5850	83807.	0.00
18.0000	-3.49E-05	-70.1490	51.7412	1.52E-04	413.5022	2850053.	22.3181	128032.	0.00
18.2000	-4.88E-06	-59.3544	55.1319	1.48E-04	349.8721	2850053.	11.5894	474867.	0.00
18.4000	2.43E-05	-48.0962	54.3130	1.44E-04	283.5094	2850053.	-19.7790	163005.	0.00
18.6000	5.27E-05	-37.6292	49.7730	1.41E-04	221.8102	2850053.	-25.6201	97153.	0.00
18.8000	8.07E-05	-28.1870	44.2589	1.39E-04	166.1519	2850053.	-29.5211	73173.	0.00

19.0000	1.08E-04	-19.9256	38.0510	1.37E-04	117.4543	2850053.	-32.5579	60160.	0.00
19.2000	1.36E-04	-12.9666	31.2862	1.36E-04	76.4333	2850053.	-35.0902	51790.	0.00
19.4000	1.63E-04	-7.4112	24.0484	1.35E-04	43.6860	2850053.	-37.2879	45865.	0.00
19.6000	1.90E-04	-3.3472	16.3950	1.35E-04	19.7307	2850053.	-39.2461	41403.	0.00
19.8000	2.17E-04	-0.8532	8.3681	1.35E-04	5.0290	2850053.	-41.0232	37893.	0.00
20.0000	2.43E-04	0.00	0.00	1.35E-04	0.00	2850053.	-42.6577	17522.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 11:

Pile-head deflection = 0.04316007 meters
Computed slope at pile head = -0.00821533 radians
Maximum bending moment = 3213. kN-m
Maximum shear force = 1200. kN
Depth of maximum bending moment = 4.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 125
Number of zero deflection points = 2

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 12

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 1250.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.5456	1.74E-07	1250.	-0.04868	1.03E-06	2850053.	0.00	0.00	0.00
0.2000	0.5358	250.0000	1249.	-0.04867	1474.	2850053.	-6.6440	2.4798	0.00
0.4000	0.5261	499.7342	1247.	-0.04865	2946.	2850053.	-12.4356	4.7274	0.00
0.6000	0.5164	748.9711	1244.	-0.04860	4415.	2850053.	-18.3291	7.0991	0.00
0.8000	0.5067	997.4747	1240.	-0.04854	5880.	2850053.	-24.1833	9.5461	0.00
1.0000	0.4970	1245.	1235.	-0.04846	7339.	2850053.	-29.9173	12.0401	0.00

1.2000	0.4873	1491.	1228.	-0.04837	8791.	2850053.	-35.4895	14.5664	0.00
1.4000	0.4776	1736.	1221.	-0.04825	10235.	2850053.	-40.8838	17.1200	0.00
1.6000	0.4680	1980.	1212.	-0.04812	11669.	2850053.	-46.1000	19.7018	0.00
1.8000	0.4584	2221.	1202.	-0.04798	13092.	2850053.	-51.1483	22.3177	0.00
2.0000	0.4488	2460.	1191.	-0.04781	14503.	2850053.	-56.0441	24.9758	0.00
2.2000	0.4392	2698.	1180.	-0.04763	15901.	2850053.	-60.8057	27.6867	0.00
2.4000	0.4297	2932.	1167.	-0.04743	17285.	2850053.	-65.4515	30.4614	0.00
2.6000	0.4203	3164.	1154.	-0.04722	18653.	2850053.	-69.9993	33.3117	0.00
2.8000	0.4108	3394.	1139.	-0.04699	20004.	2850053.	-74.4650	36.2495	0.00
3.0000	0.4015	3620.	1124.	-0.04674	21339.	2850053.	-78.8622	39.2865	0.00
3.2000	0.3921	3843.	1108.	-0.04648	22654.	2850053.	-83.2024	42.4340	0.00
3.4000	0.3829	4063.	1090.	-0.04620	23950.	2850053.	-87.4949	45.7035	0.00
3.6000	0.3737	4279.	1073.	-0.04591	25225.	2850053.	-91.7098	49.0862	0.00
3.8000	0.3645	4492.	1054.	-0.04560	26479.	2850053.	-92.5936	50.8036	0.00
4.0000	0.3554	4701.	1036.	-0.04528	27711.	2850053.	-92.5936	52.1027	0.00
4.2000	0.3464	4906.	1017.	-0.04494	28921.	2850053.	-92.5936	53.4599	0.00
4.4000	0.3374	5108.	989.6983	-0.04459	30109.	2850053.	-181.1242	107.3489	0.00
4.6000	0.3286	5302.	953.1350	-0.04423	31254.	2850053.	-184.5090	112.3113	0.00
4.8000	0.3198	5489.	915.9052	-0.04385	32356.	2850053.	-187.7885	117.4563	0.00
5.0000	0.3110	5668.	878.0302	-0.04346	33414.	2850053.	-190.9613	122.7937	0.00
5.2000	0.3024	5840.	839.5315	-0.04305	34426.	2850053.	-194.0260	128.3342	0.00
5.4000	0.2938	6004.	800.4308	-0.04264	35393.	2850053.	-196.9812	134.0890	0.00
5.6000	0.2853	6160.	760.7501	-0.04221	36314.	2850053.	-199.8253	140.0704	0.00
5.8000	0.2769	6309.	720.5119	-0.04177	37187.	2850053.	-202.5568	146.2914	0.00
6.0000	0.2686	6449.	679.7388	-0.04133	38012.	2850053.	-205.1742	152.7662	0.00
6.2000	0.2604	6581.	638.4538	-0.04087	38790.	2850053.	-207.6758	159.5099	0.00
6.4000	0.2523	6704.	596.6803	-0.04040	39518.	2850053.	-210.0598	166.5391	0.00
6.6000	0.2442	6819.	554.4418	-0.03993	40197.	2850053.	-212.3245	173.8716	0.00
6.8000	0.2363	6926.	511.7626	-0.03945	40825.	2850053.	-214.4680	181.5266	0.00
7.0000	0.2285	7024.	468.6670	-0.03896	41403.	2850053.	-216.4883	189.5252	0.00
7.2000	0.2207	7113.	425.1798	-0.03846	41930.	2850053.	-218.3833	197.8904	0.00
7.4000	0.2131	7194.	381.3264	-0.03796	42406.	2850053.	-220.1508	206.6471	0.00
7.6000	0.2055	7266.	337.1325	-0.03745	42829.	2850053.	-221.7883	215.8227	0.00
7.8000	0.1981	7329.	292.6243	-0.03694	43201.	2850053.	-223.2935	225.4474	0.00
8.0000	0.1908	7383.	247.8286	-0.03642	43519.	2850053.	-224.6634	235.5544	0.00
8.2000	0.1835	7428.	202.7727	-0.03590	43785.	2850053.	-225.8953	246.1802	0.00
8.4000	0.1764	7464.	157.4846	-0.03538	43997.	2850053.	-226.9859	257.3655	0.00
8.6000	0.1694	7491.	111.9928	-0.03486	44156.	2850053.	-227.9319	269.1554	0.00
8.8000	0.1624	7509.	66.3267	-0.03433	44261.	2850053.	-228.7294	281.6002	0.00
9.0000	0.1556	7517.	17.4851	-0.03380	44313.	2850053.	-259.6862	333.7083	0.00
9.2000	0.1489	7516.	-34.0736	-0.03327	44303.	2850053.	-255.9006	343.6544	0.00
9.4000	0.1423	7504.	-84.8698	-0.03275	44232.	2850053.	-252.0619	354.2013	0.00
9.6000	0.1358	7482.	-134.8927	-0.03222	44103.	2850053.	-248.1668	365.4076	0.00
9.8000	0.1294	7450.	-184.1305	-0.03170	43914.	2850053.	-244.2114	377.3401	0.00

10.0000	0.1232	7408.	-232.5708	-0.03118	43668.	2850053.	-240.1915	390.0762	0.00
10.2000	0.1170	7357.	-280.2002	-0.03066	43366.	2850053.	-236.1024	403.7049	0.00
10.4000	0.1109	7296.	-327.0043	-0.03014	43008.	2850053.	-231.9385	418.3301	0.00
10.6000	0.1049	7226.	-372.9675	-0.02963	42595.	2850053.	-227.6936	434.0734	0.00
10.8000	0.09903	7147.	-418.0729	-0.02913	42128.	2850053.	-223.3605	451.0785	0.00
11.0000	0.09326	7059.	-462.3020	-0.02863	41609.	2850053.	-218.9309	469.5163	0.00
11.2000	0.08758	6962.	-505.6346	-0.02814	41038.	2850053.	-214.3953	489.5919	0.00
11.4000	0.08200	6857.	-548.0484	-0.02766	40417.	2850053.	-209.7426	511.5541	0.00
11.6000	0.07652	6743.	-589.5186	-0.02718	39746.	2850053.	-204.9597	535.7077	0.00
11.8000	0.07113	6621.	-630.0177	-0.02671	39027.	2850053.	-200.0312	562.4308	0.00
12.0000	0.06584	6491.	-673.3136	-0.02625	38261.	2850053.	-232.9277	707.6038	0.00
12.2000	0.06063	6351.	-723.4455	-0.02580	37439.	2850053.	-268.3911	885.3206	0.00
12.4000	0.05552	6201.	-776.3467	-0.02536	36555.	2850053.	-260.6209	938.8984	0.00
12.6000	0.05049	6041.	-827.6591	-0.02493	35609.	2850053.	-252.5025	1000.	0.00
12.8000	0.04554	5870.	-877.3070	-0.02451	34603.	2850053.	-243.9771	1071.	0.00
13.0000	0.04068	5690.	-925.2016	-0.02410	33540.	2850053.	-234.9690	1155.	0.00
13.2000	0.03590	5500.	-971.2364	-0.02371	32422.	2850053.	-225.3787	1255.	0.00
13.4000	0.03120	5301.	-1015.	-0.02333	31250.	2850053.	-215.0718	1379.	0.00
13.6000	0.02657	5094.	-1057.	-0.02297	30028.	2850053.	-203.8598	1535.	0.00
13.8000	0.02201	4879.	-1097.	-0.02262	28758.	2850053.	-191.4643	1740.	0.00
14.0000	0.01752	4655.	-1134.	-0.02228	27442.	2850053.	-177.4462	2025.	0.00
14.2000	0.01310	4425.	-1167.	-0.02197	26085.	2850053.	-161.0424	2459.	0.00
14.4000	0.00874	4188.	-1198.	-0.02166	24689.	2850053.	-140.7053	3221.	0.00
14.6000	0.00443	3946.	-1223.	-0.02138	23261.	2850053.	-112.2281	5063.	0.00
14.8000	1.85E-04	3699.	-1238.	-0.02111	21806.	2850053.	-38.9385	42063.	0.00
15.0000	-0.00401	3451.	-1231.	-0.02086	20342.	2850053.	108.5455	5413.	0.00
15.2000	-0.00816	3207.	-1206.	-0.02062	18903.	2850053.	137.5314	3372.	0.00
15.4000	-0.01226	2968.	-1177.	-0.02041	17497.	2850053.	157.5342	2570.	0.00
15.6000	-0.01632	2736.	-1144.	-0.02021	16128.	2850053.	173.2966	2124.	0.00
15.8000	-0.02034	2511.	-1108.	-0.02002	14800.	2850053.	186.5011	1833.	0.00
16.0000	-0.02433	2293.	-1069.	-0.01986	13516.	2850053.	197.9659	1627.	0.00
16.2000	-0.02829	2083.	-1029.	-0.01970	12278.	2850053.	208.1585	1472.	0.00
16.4000	-0.03221	1881.	-986.2815	-0.01956	11090.	2850053.	217.3744	1350.	0.00
16.6000	-0.03611	1688.	-941.9627	-0.01944	9953.	2850053.	225.8138	1251.	0.00
16.8000	-0.03999	1505.	-896.0194	-0.01933	8869.	2850053.	233.6194	1168.	0.00
17.0000	-0.04384	1330.	-848.5677	-0.01923	7840.	2850053.	240.8969	1099.	0.00
17.2000	-0.04768	1165.	-799.7053	-0.01914	6868.	2850053.	247.7272	1039.	0.00
17.4000	-0.05150	1010.	-749.5153	-0.01906	5955.	2850053.	254.1733	987.1365	0.00
17.6000	-0.05530	865.3690	-698.0694	-0.01900	5101.	2850053.	260.2858	941.3173	0.00
17.8000	-0.05910	730.9608	-645.4302	-0.01894	4309.	2850053.	266.1057	900.5930	0.00
18.0000	-0.06288	607.1969	-591.6530	-0.01889	3579.	2850053.	271.6669	864.0992	0.00
18.2000	-0.06665	494.2997	-536.7865	-0.01885	2914.	2850053.	276.9974	831.1618	0.00
18.4000	-0.07042	392.4823	-480.8747	-0.01882	2314.	2850053.	282.1210	801.2462	0.00
18.6000	-0.07418	301.9498	-423.9568	-0.01880	1780.	2850053.	287.0580	773.9231	0.00

18.8000	-0.07794	222.8996	-366.0685	-0.01878	1314.	2850053.	291.8254	748.8432	0.00
19.0000	-0.08169	155.5224	-307.2421	-0.01877	916.7467	2850053.	296.4381	725.7197	0.00
19.2000	-0.08545	100.0028	-247.5074	-0.01876	589.4790	2850053.	300.9090	704.3143	0.00
19.4000	-0.08920	56.5195	-186.8916	-0.01875	333.1611	2850053.	305.2493	684.4277	0.00
19.6000	-0.09295	25.2461	-125.4198	-0.01875	148.8165	2850053.	309.4687	665.8917	0.00
19.8000	-0.09670	6.3516	-63.1153	-0.01875	37.4400	2850053.	313.5756	648.5633	0.00
20.0000	-0.1004	0.00	0.00	-0.01875	0.00	2850053.	317.5776	316.1602	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 12:

Pile-head deflection = 0.54557349 meters
Computed slope at pile head = -0.04868157 radians
Maximum bending moment = 7517. kN-m
Maximum shear force = 1250. kN
Depth of maximum bending moment = 9.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 76
Number of zero deflection points = 1

Summary of Pile-head Responses for Conventional Analyses

Definitions of Pile-head Loading Conditions:

Load Type 1: Load 1 = Shear, V, kN, and Load 2 = Moment, M, kN-m
Load Type 2: Load 1 = Shear, V, kN, and Load 2 = Slope, S, radians
Load Type 3: Load 1 = Shear, V, kN, and Load 2 = Rot. Stiffness, R, kN-m/rad.
Load Type 4: Load 1 = Top Deflection, y, m, and Load 2 = Moment, M, kN-m
Load Type 5: Load 1 = Top Deflection, y, m, and Load 2 = Slope, S, radians

Load Case No.	Load Type	Pile-head Load 1	Load Type 2	Pile-head Load 2	Axial Loading kN	Pile-head Deflection meters	Pile-head Rotation radians	Max Shear in Pile kN	Max Moment in Pile kN-m
1	V, kN	125.0000	M, kN-m	0.00	0.00	7.38E-04	-2.61E-04	125.0000	185.3508
2	V, kN	175.0000	M, kN-m	0.00	0.00	0.00118	-4.00E-04	175.0000	271.5217
3	V, kN	200.0000	M, kN-m	0.00	0.00	0.00142	-4.76E-04	200.0000	316.6537
4	V, kN	250.0000	M, kN-m	0.00	0.00	0.00196	-6.36E-04	250.0000	407.7721

5	V, kN	275.0000	M, kN-m	0.00	0.00	0.00225	-7.19E-04	275.0000	454.4826
6	V, kN	300.0000	M, kN-m	0.00	0.00	0.00256	-8.06E-04	300.0000	501.9296
7	V, kN	325.0000	M, kN-m	0.00	0.00	0.00289	-8.97E-04	325.0000	550.7266
8	V, kN	600.0000	M, kN-m	0.00	0.00	0.00768	-0.00210	600.0000	1148.
9	V, kN	800.0000	M, kN-m	0.00	0.00	0.01301	-0.00329	800.0000	1672.
10	V, kN	1000.0000	M, kN-m	0.00	0.00	0.02132	-0.00491	1000.	2301.
11	V, kN	1200.	M, kN-m	0.00	0.00	0.04316	-0.00822	1200.	3213.
12	V, kN	1250.	M, kN-m	0.00	0.00	0.5456	-0.04868	1250.	7517.

Maximum pile-head deflection = 0.5455734892 meters

Maximum pile-head rotation = -0.0486815662 radians = -2.789248 deg.

The analysis ended normally.

Opera VI04 – D1500

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LPile for Windows, Version 2016-09.009

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method
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Files Used for Analysis

Path to file locations:
\m9159\Work\07_Pali\VI04\LPILE\

Name of input data file:
VI04_spalle-pila_D1500_statica.lp9d

Name of output report file:
VI04_spalle-pila_D1500_statica.lp9o

Name of plot output file:
VI04_spalle-pila_D1500_statica.lp9p

Name of runtime message file:
VI04_spalle-pila_D1500_statica.lp9r

Date and Time of Analysis

Date: June 10, 2019 Time: 15:15:18

Problem Title

Project Name: VI02 - Spalle e pila
Job Number:
Client:
Engineer:
Description:

Program Options and Settings

Computational Options:
- Use unfactored loads in computations (conventional analysis)

Engineering Units Used for Data Input and Computations:
- International System Units (kilonewtons, meters, millimeters)

Analysis Control Options:
- Maximum number of iterations allowed = 500
- Deflection tolerance for convergence = 2.5400E-07 m
- Maximum allowable deflection = 2.5400 m
- Number of pile increments = 100

Loading Type and Number of Cycles of Loading:
- Static loading specified

- Use of p-y modification factors for p-y curves not selected
- No distributed lateral loads are entered
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected

- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:
- Output files use decimal points to denote decimal symbols.
- Values of pile-head deflection, bending moment, shear force, and soil reaction are printed for full length of pile.
- Printing Increment (nodal spacing of output points) = 1
- p-y curves computed and reported at user-specified depths
- Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined = 1
Total length of pile = 20.000 m
Depth of ground surface below top of pile = 0.0000 m

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point	Depth Below Pile Head meters	Pile Diameter millimeters
1	0.000	1500.00
2	20.000	1500.00

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is an elastic pile
Cross-sectional Shape = Circular Pile
Length of section = 20.000000 m

Width of top of section = 1.500000 m
Width of bottom of section = 1.500000 m
Top Area = 1.767146 sq. m
Bottom Area = 1.767146 sq. m
Moment of Inertia at Top = 0.248505 m^4
Moment of Inertia at Bottom = 0.248505 m^4
Elastic Modulus = 28000000. kPa

Ground Slope and Pile Batter Angles

Ground Slope Angle = 0.000 degrees
= 0.000 radians

Pile Batter Angle = 0.000 degrees
= 0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 3 layers

Layer 1 is stiff clay with water-induced erosion

Distance from top of pile to top of layer = 0.0000 m
Distance from top of pile to bottom of layer = 4.300000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 80.000000 kPa
Undrained cohesion at bottom of layer = 80.000000 kPa
Epsilon-50 at top of layer = 0.007000
Epsilon-50 at bottom of layer = 0.007000
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 2 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 4.300000 m
Distance from top of pile to bottom of layer = 12.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 35.000000 kPa
Undrained cohesion at bottom of layer = 35.000000 kPa
Epsilon-50 at top of layer = 0.020000
Epsilon-50 at bottom of layer = 0.020000

Layer 3 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 12.000000 m
Distance from top of pile to bottom of layer = 20.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 45.000000 kPa
Undrained cohesion at bottom of layer = 45.000000 kPa
Epsilon-50 at top of layer = 0.015000
Epsilon-50 at bottom of layer = 0.015000

(Depth of the lowest soil layer extends 0.000 m below the pile tip)

Summary of Input Soil Properties

Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth m	Effective Unit Wt. kN/m3	Undrained Cohesion kPa	E50 or krm	kpy kN/m3
1	Stiff Clay	0.00	9.0000	80.0000	0.00700	default
	with Free Water	4.3000	9.0000	80.0000	0.00700	default
2	Soft	4.3000	9.0000	35.0000	0.02000	--
	Clay	12.0000	9.0000	35.0000	0.02000	--
3	Soft	12.0000	9.0000	45.0000	0.01500	--
	Clay	20.0000	9.0000	45.0000	0.01500	--

Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 7

Load No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, kN	Compute Top y vs. Pile Length
1	1	V = 300.000000 kN	M = 0.0000 m-kN	0.0000000	No
2	1	V = 600.000000 kN	M = 0.0000 m-kN	0.0000000	No
3	1	V = 900.000000 kN	M = 0.0000 m-kN	0.0000000	No
4	1	V = 1000.000000 kN	M = 0.0000 m-kN	0.0000000	No
5	1	V = 1100. kN	M = 0.0000 m-kN	0.0000000	No
6	1	V = 1500. kN	M = 0.0000 m-kN	0.0000000	No
7	1	V = 1550. kN	M = 0.0000 m-kN	0.0000000	No

V = shear force applied normal to pile axis
M = bending moment applied to pile head
y = lateral deflection normal to pile axis
S = pile slope relative to original pile batter angle
R = rotational stiffness applied to pile head
Values of top y vs. pile lengths can be computed only for load types with specified shear loading (Load Types 1, 2, and 3).
Thrust force is assumed to be acting axially for all pile batter angles.

Specified Depths for Output of p-y Curves

Lateral load-transfer (p-y) curves are computed and output at 8 depths.
(Note that load-transfer values are computeded at the specified depths and may differ from values computed at nodal points)

Depth No.	Depth Below Pile Head m	Depth Below Ground Surface m
1	0.200	0.200
2	3.400	3.400
3	3.800	3.800
4	9.000	9.000
5	11.000	11.000
6	11.400	11.400
7	16.000	16.000
8	19.800	19.800

Depth of ground surface below top of pile = 0.0000 m

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

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Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Moment-curvature properties were derived from elastic section properties

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Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head meters	Equivalent Top Depth Below Grnd Surf meters	Same Layer Type As Layer Above	Layer is Rock or is Below Rock Layer	F0 Integral for Layer kN	F1 Integral for Layer kN
1	0.00	0.00	N.A.	No	0.00	256.6122
2	4.3000	1.4285	No	No	256.6122	2775.
3	12.0000	9.1285	Yes	No	3031.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals for Layer n. Layering correction equivalent depths are computed only for soil types with both shallow-depth and deep-depth expressions for peak lateral load transfer. These soil types are soft and stiff clays, non-liquefied sands, and cemented c-phi soil.

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p-y Curves Reported for Specified Depths

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p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 0.200 m
Depth of p-y curve below ground surface = 0.200 m
Equivalent depth of p-y curve = 0.200 m
Pile diameter = 1500.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.011 m
As = 0.27257
Ac (not used) = 0.21914
pct = 287.980 kN/m
pcd = 1320.000 kN/m
pc = 287.980 kN/m
pu = 6.909 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m

0.00000	0.00000
0.00143	38.84380
0.00286	75.17456
0.00429	85.41022
0.00572	90.47399
0.00715	92.56848
0.00859	92.53470
0.01002	90.84782
0.01145	87.81363
0.01288	83.64474
0.01431	78.49708
0.01574	72.48962
0.01717	65.71592
0.02862	46.15590
0.04007	26.53227
0.05152	6.90863
0.05438	6.90863

p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 3.400 m
Depth of p-y curve below ground surface = 3.400 m
Equivalent depth of p-y curve = 3.400 m
Pile diameter = 1500.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.011 m
As = 0.58161
Ac (not used) = 0.30000
pct = 1055.660 kN/m
pcd = 1320.000 kN/m
pc = 1055.660 kN/m
pu = 91.657 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000

Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00305	284.63861
0.00611	402.53978
0.00916	468.59676
0.01221	511.21591
0.01527	540.08819
0.01832	559.12552
0.02137	570.56242
0.02443	575.84065
0.02748	575.96253
0.03053	571.66199
0.03359	563.49763
0.03664	551.90758
0.06107	398.64604
0.08550	245.15129
0.10992	91.65653
0.11603	91.65653

p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 3.800 m
Depth of p-y curve below ground surface = 3.800 m
Equivalent depth of p-y curve = 3.800 m
Pile diameter = 1500.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.011 m
As = 0.59170
Ac (not used) = 0.30000
pct = 1151.620 kN/m
pcd = 1320.000 kN/m

pc = 1151.620 kN/m
pu = 100.564 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00311	313.19643
0.00621	442.92664
0.00932	515.84132
0.01243	563.05376
0.01553	595.18416
0.01864	616.52483
0.02175	629.52812
0.02485	635.77645
0.02796	636.36992
0.03106	632.11402
0.03417	623.62179
0.03728	611.37403
0.06213	441.27363
0.08698	270.91882
0.11183	100.56401
0.11805	100.56401

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 4.300 m
Depth of p-y curve below pile head = 9.000 m
Depth of p-y curve below ground surface = 9.000 m
Equiv. depth of p-y curve below ground surface = 6.128 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1500.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200

J (default value) = 0.5000
Transition depth Xr = 10.161 m
Static pu_s for flat ground = 386.248 kN/m
Static pu_d for flat ground = 472.500 kN/m
y_50 = 0.07500 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 386.248 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00017778	25.74988
0.00142	51.49976
0.00480	77.24964
0.01138	102.99952
0.02222	128.74940
0.03840	154.49928
0.06098	180.24917
0.09102	205.99905
0.12960	231.74893
0.17778	257.49881
0.23662	283.24869
0.30720	308.99857
0.39058	334.74845
0.48782	360.49833
0.60000	386.24821
0.63750	386.24821

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 4.300 m
Depth of p-y curve below pile head = 11.000 m
Depth of p-y curve below ground surface = 11.000 m
Equiv. depth of p-y curve below ground surface = 11.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1500.000 mm

Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 10.161 m
Static pu_s for flat ground = 498.500 kN/m
Static pu_d for flat ground = 472.500 kN/m
y_50 = 0.07500 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 472.500 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00017778	31.50000
0.00142	63.00000
0.00480	94.50000
0.01138	126.00000
0.02222	157.50000
0.03840	189.00000
0.06098	220.50000
0.09102	252.00000
0.12960	283.50000
0.17778	315.00000
0.23662	346.50000
0.30720	378.00000
0.39058	409.50000
0.48782	441.00000
0.60000	472.50000
0.63750	472.50000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 4.300 m
Depth of p-y curve below pile head = 11.400 m
Depth of p-y curve below ground surface = 11.400 m
Equiv. depth of p-y curve below ground surface = 11.400 m
Ground slope angle = 0.000 degrees

Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1500.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 35.000 kPa
Epsilon_50 = 0.0200
J (default value) = 0.5000
Transition depth Xr = 10.161 m
Static pu_s for flat ground = 510.900 kN/m
Static pu_d for flat ground = 472.500 kN/m
y_50 = 0.07500 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 472.500 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00017778	31.50000
0.00142	63.00000
0.00480	94.50000
0.01138	126.00000
0.02222	157.50000
0.03840	189.00000
0.06098	220.50000
0.09102	252.00000
0.12960	283.50000
0.17778	315.00000
0.23662	346.50000
0.30720	378.00000
0.39058	409.50000
0.48782	441.00000
0.60000	472.50000
0.63750	472.50000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 12.000 m
Depth of p-y curve below pile head = 16.000 m
Depth of p-y curve below ground surface = 16.000 m
Equiv. depth of p-y curve below ground surface = 16.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1500.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 11.250 m
Static pu_s for flat ground = 778.500 kN/m
Static pu_d for flat ground = 607.500 kN/m
y_50 = 0.05625 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 607.500 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00013333	40.50000
0.00107	81.00000
0.00360	121.50000
0.00853	162.00000
0.01667	202.50000
0.02880	243.00000
0.04573	283.50000
0.06827	324.00000
0.09720	364.50000
0.13333	405.00000
0.17747	445.50000
0.23040	486.00000
0.29293	526.50000
0.36587	567.00000
0.45000	607.50000
0.47812	607.50000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 12.000 m
Depth of p-y curve below pile head = 19.800 m
Depth of p-y curve below ground surface = 19.800 m
Equiv. depth of p-y curve below ground surface = 19.800 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1500.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 11.250 m
Static pu_s for flat ground = 915.300 kN/m
Static pu_d for flat ground = 607.500 kN/m
y_50 = 0.05625 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 607.500 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00013333	40.50000
0.00107	81.00000
0.00360	121.50000
0.00853	162.00000
0.01667	202.50000
0.02880	243.00000
0.04573	283.50000
0.06827	324.00000
0.09720	364.50000
0.13333	405.00000
0.17747	445.50000
0.23040	486.00000
0.29293	526.50000
0.36587	567.00000

0.45000	607.50000
0.47812	607.50000

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 1

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 300.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00169	-7.54E-11	300.0000	-4.42E-04	2.28E-10	6958137.	0.00	0.00	0.00
0.2000	0.00160	60.0000	295.6623	-4.41E-04	181.0830	6958137.	-43.3772	5429.	0.00
0.4000	0.00151	118.2649	284.9544	-4.39E-04	356.9293	6958137.	-63.7011	8438.	0.00
0.6000	0.00142	173.9818	271.5183	-4.35E-04	525.0856	6958137.	-70.6600	9935.	0.00
0.8000	0.00134	226.8722	256.7485	-4.29E-04	684.7116	6958137.	-77.0381	11532.	0.00
1.0000	0.00125	276.6812	240.7622	-4.22E-04	835.0375	6958137.	-82.8250	13242.	0.00
1.2000	0.00117	323.1771	223.6785	-4.13E-04	975.3645	6958137.	-88.0123	15078.	0.00
1.4000	0.00109	366.1526	205.6179	-4.03E-04	1105.	6958137.	-92.5934	17055.	0.00
1.6000	0.00101	405.4243	186.7022	-3.92E-04	1224.	6958137.	-96.5638	19193.	0.00
1.8000	9.29E-04	440.8335	167.0537	-3.80E-04	1330.	6958137.	-99.9209	21511.	0.00
2.0000	8.54E-04	472.2458	146.7953	-3.67E-04	1425.	6958137.	-102.6638	24034.	0.00
2.2000	7.82E-04	499.5516	126.0496	-3.53E-04	1508.	6958137.	-104.7932	26789.	0.00
2.4000	7.13E-04	522.6656	104.9391	-3.38E-04	1577.	6958137.	-106.3115	29810.	0.00
2.6000	6.47E-04	541.5272	83.5857	-3.23E-04	1634.	6958137.	-107.2224	33136.	0.00
2.8000	5.84E-04	556.0999	62.1104	-3.07E-04	1678.	6958137.	-107.5306	36814.	0.00
3.0000	5.24E-04	566.3714	40.6332	-2.91E-04	1709.	6958137.	-107.2416	40902.	0.00
3.2000	4.68E-04	572.3532	19.2729	-2.74E-04	1727.	6958137.	-106.3613	45467.	0.00
3.4000	4.15E-04	574.0805	-1.8528	-2.58E-04	1733.	6958137.	-104.8950	50599.	0.00
3.6000	3.65E-04	571.6121	-22.6270	-2.41E-04	1725.	6958137.	-102.8471	56405.	0.00
3.8000	3.18E-04	565.0297	-42.9336	-2.25E-04	1705.	6958137.	-100.2197	63028.	0.00
4.0000	2.75E-04	554.4386	-62.6567	-2.09E-04	1673.	6958137.	-97.0108	70653.	0.00
4.2000	2.34E-04	539.9671	-81.6790	-1.93E-04	1630.	6958137.	-93.2119	79536.	0.00

4.4000	1.97E-04	521.7670	-92.6822	-1.78E-04	1575.	6958137.	-16.8201	17052.	0.00
4.6000	1.63E-04	502.8942	-95.9833	-1.63E-04	1518.	6958137.	-16.1909	19847.	0.00
4.8000	1.32E-04	483.3737	-99.1483	-1.49E-04	1459.	6958137.	-15.4593	23435.	0.00
5.0000	1.03E-04	463.2349	-102.1546	-1.36E-04	1398.	6958137.	-14.6036	28223.	0.00
5.2000	7.77E-05	442.5119	-104.9738	-1.23E-04	1336.	6958137.	-13.5888	34977.	0.00
5.4000	5.45E-05	421.2454	-107.5679	-1.10E-04	1271.	6958137.	-12.3523	45361.	0.00
5.6000	3.36E-05	399.4847	-109.8794	-9.84E-05	1206.	6958137.	-10.7623	63979.	0.00
5.8000	1.51E-05	377.2936	-111.7994	-8.72E-05	1139.	6958137.	-8.4381	111603.	0.00
6.0000	-1.23E-06	354.7650	-112.2820	-7.67E-05	1071.	6958137.	3.6124	586743.	0.00
6.2000	-1.55E-05	332.3808	-111.0369	-6.68E-05	1003.	6958137.	8.8387	113718.	0.00
6.4000	-2.79E-05	310.3502	-109.0548	-5.76E-05	936.6522	6958137.	10.9823	78592.	0.00
6.6000	-3.86E-05	288.7589	-106.7086	-4.89E-05	871.4885	6958137.	12.4798	64718.	0.00
6.8000	-4.75E-05	267.6668	-104.0958	-4.09E-05	807.8315	6958137.	13.6483	57436.	0.00
7.0000	-5.49E-05	247.1206	-101.2704	-3.35E-05	745.8221	6958137.	14.6055	53164.	0.00
7.2000	-6.09E-05	227.1586	-98.2689	-2.67E-05	685.5759	6958137.	15.4092	50568.	0.00
7.4000	-6.56E-05	207.8130	-95.1188	-2.05E-05	627.1899	6958137.	16.0922	49033.	0.00
7.6000	-6.91E-05	189.1111	-91.8420	-1.48E-05	570.7466	6958137.	16.6754	48239.	0.00
7.8000	-7.15E-05	171.0762	-88.4572	-9.60E-06	516.3164	6958137.	17.1726	48003.	0.00
8.0000	-7.30E-05	153.7282	-84.9806	-4.93E-06	463.9593	6958137.	17.5936	48217.	0.00
8.2000	-7.35E-05	137.0840	-81.4267	-7.53E-07	413.7261	6958137.	17.9454	48817.	0.00
8.4000	-7.33E-05	121.1575	-77.8088	2.96E-06	365.6594	6958137.	18.2333	49765.	0.00
8.6000	-7.23E-05	105.9604	-74.1394	6.22E-06	319.7938	6958137.	18.4613	51042.	0.00
8.8000	-7.08E-05	91.5018	-70.4300	9.06E-06	276.1569	6958137.	18.6327	52643.	0.00
9.0000	-6.87E-05	77.7884	-66.6917	1.15E-05	234.7694	6958137.	18.7499	54574.	0.00
9.2000	-6.62E-05	64.8251	-62.9352	1.35E-05	195.6454	6958137.	18.8150	56850.	0.00
9.4000	-6.33E-05	52.6144	-59.1708	1.52E-05	158.7927	6958137.	18.8295	59496.	0.00
9.6000	-6.01E-05	41.1568	-55.4083	1.66E-05	124.2132	6958137.	18.7948	62546.	0.00
9.8000	-5.67E-05	30.4510	-51.6577	1.76E-05	91.9027	6958137.	18.7120	66045.	0.00
10.0000	-5.31E-05	20.4937	-47.9283	1.83E-05	61.8511	6958137.	18.5821	70048.	0.00
10.2000	-4.93E-05	11.2797	-44.0162	1.88E-05	34.0428	6958137.	20.5380	83270.	0.00
10.4000	-4.55E-05	2.8872	-39.9627	1.90E-05	8.7138	6958137.	19.9977	87831.	0.00
10.6000	-4.17E-05	-4.7054	-36.0205	1.90E-05	14.2010	6958137.	19.4239	93096.	0.00
10.8000	-3.79E-05	-11.5210	-32.1963	1.87E-05	34.7709	6958137.	18.8185	99182.	0.00
11.0000	-3.42E-05	-17.5839	-28.4961	1.83E-05	53.0690	6958137.	18.1831	106234.	0.00
11.2000	-3.06E-05	-22.9194	-24.9259	1.77E-05	69.1720	6958137.	17.5193	114437.	0.00
11.4000	-2.71E-05	-27.5542	-21.4911	1.70E-05	83.1600	6958137.	16.8282	124029.	0.00
11.6000	-2.38E-05	-31.5159	-18.1972	1.62E-05	95.1165	6958137.	16.1110	135318.	0.00
11.8000	-2.07E-05	-34.8331	-15.0492	1.52E-05	105.1280	6958137.	15.3686	148708.	0.00
12.0000	-1.77E-05	-37.5356	-11.7676	1.42E-05	113.2842	6958137.	17.4473	196844.	0.00
12.2000	-1.50E-05	-39.5402	-8.0685	1.31E-05	119.3342	6958137.	19.5445	260585.	0.00
12.4000	-1.25E-05	-40.7630	-4.2748	1.19E-05	123.0247	6958137.	18.3926	294256.	0.00
12.6000	-1.02E-05	-41.2501	-0.7148	1.07E-05	124.4947	6958137.	17.2073	336208.	0.00
12.8000	-8.21E-06	-41.0489	2.6046	9.55E-06	123.8875	6958137.	15.9868	389530.	0.00
13.0000	-6.42E-06	-40.2082	5.6760	8.38E-06	121.3504	6958137.	14.7272	459051.	0.00

13.2000	-4.86E-06	-38.7785	8.4909	7.25E-06	117.0353	6958137.	13.4209	552802.	0.00
13.4000	-3.52E-06	-36.8119	11.0383	6.16E-06	111.1000	6958137.	12.0540	685321.	0.00
13.6000	-2.39E-06	-34.3631	13.3036	5.14E-06	103.7096	6958137.	10.5989	886349.	0.00
13.8000	-1.46E-06	-31.4904	15.2631	4.19E-06	95.0396	6958137.	8.9954	1229788.	0.00
14.0000	-7.15E-07	-28.2579	16.8706	3.33E-06	85.2837	6958137.	7.0800	1979649.	0.00
14.2000	-1.30E-07	-24.7422	17.5874	2.57E-06	74.6731	6958137.	0.08835	135828.	0.00
14.4000	3.13E-07	-21.2229	17.5750	1.91E-06	64.0518	6958137.	-0.2125	135828.	0.00
14.6000	6.34E-07	-17.7122	16.8683	1.35E-06	53.4562	6958137.	-6.8552	2163160.	0.00
14.8000	8.53E-07	-14.4756	15.4254	8.88E-07	43.6881	6958137.	-7.5735	1775848.	0.00
15.0000	9.89E-07	-11.5420	13.8711	5.14E-07	34.8343	6958137.	-7.9691	1611782.	0.00
15.2000	1.06E-06	-8.9271	12.2570	2.20E-07	26.9426	6958137.	-8.1720	1544197.	0.00
15.4000	1.08E-06	-6.6392	10.6151	-4.20E-09	20.0374	6958137.	-8.2473	1532010.	0.00
15.6000	1.06E-06	-4.6811	8.9669	-1.67E-07	14.1278	6958137.	-8.2347	1558511.	0.00
15.8000	1.01E-06	-3.0524	7.3272	-2.78E-07	9.2123	6958137.	-8.1621	1616407.	0.00
16.0000	9.46E-07	-1.7502	5.7060	-3.47E-07	5.2822	6958137.	-8.0506	1702895.	0.00
16.2000	8.71E-07	-0.7700	4.1092	-3.83E-07	2.3240	6958137.	-7.9172	1817774.	0.00
16.4000	7.92E-07	-0.1065	2.5400	-3.96E-07	0.3215	6958137.	-7.7747	1962779.	0.00
16.6000	7.13E-07	0.2460	0.9993	-3.94E-07	0.7423	6958137.	-7.6322	2141667.	0.00
16.8000	6.35E-07	0.2932	0.1930	-3.86E-07	0.8848	6958137.	-0.4310	135828.	0.00
17.0000	5.58E-07	0.3232	0.1120	-3.77E-07	0.9753	6958137.	-0.3792	135828.	0.00
17.2000	4.84E-07	0.3380	0.04119	-3.68E-07	1.0200	6958137.	-0.3285	135828.	0.00
17.4000	4.11E-07	0.3396	-0.01959	-3.58E-07	1.0250	6958137.	-0.2792	135828.	0.00
17.6000	3.41E-07	0.3301	-0.07064	-3.48E-07	0.9963	6958137.	-0.2313	135828.	0.00
17.8000	2.72E-07	0.3114	-0.1122	-3.39E-07	0.9397	6958137.	-0.1846	135828.	0.00
18.0000	2.05E-07	0.2852	-0.1446	-3.31E-07	0.8609	6958137.	-0.1391	135828.	0.00
18.2000	1.40E-07	0.2535	-0.1680	-3.23E-07	0.7652	6958137.	-0.09479	135828.	0.00
18.4000	7.57E-08	0.2180	-0.1826	-3.16E-07	0.6580	6958137.	-0.05144	135828.	0.00
18.6000	1.31E-08	0.1805	-0.1887	-3.10E-07	0.5447	6958137.	-0.00893	135828.	0.00
18.8000	-4.84E-08	0.1426	-0.1863	-3.06E-07	0.4303	6958137.	0.03287	135828.	0.00
19.0000	-1.09E-07	0.1060	-0.1756	-3.02E-07	0.3199	6958137.	0.07412	135828.	0.00
19.2000	-1.69E-07	0.07235	-0.1567	-3.00E-07	0.2184	6958137.	0.1150	135828.	0.00
19.4000	-2.29E-07	0.04332	-0.1296	-2.98E-07	0.1307	6958137.	0.1555	135828.	0.00
19.6000	-2.88E-07	0.02051	-0.09447	-2.97E-07	0.06189	6958137.	0.1959	135828.	0.00
19.8000	-3.48E-07	0.00553	-0.05126	-2.97E-07	0.01669	6958137.	0.2362	135828.	0.00
20.0000	-4.07E-07	0.00	0.00	-2.97E-07	0.00	6958137.	0.2765	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 1:

Pile-head deflection = 0.00168643 meters
Computed slope at pile head = -0.00044218 radians
Maximum bending moment = 574.08053548 kN-m

Maximum shear force = 300.00000000 kN

Depth of maximum bending moment = 3.40000000 meters below pile head

Depth of maximum shear force = 0.000000 meters below pile head

Number of iterations = 14

Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 2

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 600.000 kN

Applied moment at pile head = 0.000 kN-m

Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00494	-1.96E-09	600.0000	-0.00112	5.92E-09	6958137.	0.00	0.00	0.00
0.2000	0.00472	120.0000	591.2706	-0.00112	362.1659	6958137.	-87.2939	3703.	0.00
0.4000	0.00449	236.5082	572.1216	-0.00111	713.7935	6958137.	-104.1958	4639.	0.00
0.6000	0.00427	348.8487	549.7299	-0.00110	1053.	6958137.	-119.7219	5606.	0.00
0.8000	0.00405	456.4002	524.3849	-0.00109	1377.	6958137.	-133.7273	6601.	0.00
1.0000	0.00383	558.6026	496.5110	-0.00108	1686.	6958137.	-145.0124	7563.	0.00
1.2000	0.00362	655.0046	466.5093	-0.00106	1977.	6958137.	-155.0045	8561.	0.00
1.4000	0.00341	745.2063	434.5967	-0.00104	2249.	6958137.	-164.1208	9622.	0.00
1.6000	0.00321	828.8433	400.9491	-0.00102	2501.	6958137.	-172.3554	10753.	0.00
1.8000	0.00300	905.5860	365.7431	-9.91E-04	2733.	6958137.	-179.7047	11961.	0.00
2.0000	0.00281	975.1405	329.1558	-9.64E-04	2943.	6958137.	-186.1677	13253.	0.00
2.2000	0.00262	1037.	291.3645	-9.35E-04	3130.	6958137.	-191.7456	14641.	0.00
2.4000	0.00244	1092.	252.5457	-9.04E-04	3295.	6958137.	-196.4420	16133.	0.00
2.6000	0.00226	1138.	212.8753	-8.72E-04	3435.	6958137.	-200.2624	17741.	0.00
2.8000	0.00209	1177.	172.5276	-8.39E-04	3552.	6958137.	-203.2144	19480.	0.00
3.0000	0.00192	1207.	131.6755	-8.05E-04	3644.	6958137.	-205.3070	21364.	0.00
3.2000	0.00176	1230.	90.4897	-7.70E-04	3711.	6958137.	-206.5508	23412.	0.00
3.4000	0.00161	1243.	49.1389	-7.34E-04	3753.	6958137.	-206.9572	25644.	0.00
3.6000	0.00147	1249.	7.7894	-6.98E-04	3770.	6958137.	-206.5380	28086.	0.00
3.8000	0.00133	1247.	-33.3949	-6.63E-04	3762.	6958137.	-205.3047	30765.	0.00
4.0000	0.00121	1236.	-74.2522	-6.27E-04	3730.	6958137.	-203.2677	33717.	0.00

4.2000	0.00108	1217.	-114.6224	-5.92E-04	3673.	6958137.	-200.4351	36984.	0.00
4.4000	9.69E-04	1190.	-137.5250	-5.57E-04	3591.	6958137.	-28.5900	5900.	0.00
4.6000	8.61E-04	1162.	-143.2025	-5.23E-04	3507.	6958137.	-28.1857	6547.	0.00
4.8000	7.60E-04	1133.	-148.7916	-4.90E-04	3418.	6958137.	-27.7052	7293.	0.00
5.0000	6.65E-04	1102.	-154.2765	-4.58E-04	3327.	6958137.	-27.1435	8164.	0.00
5.2000	5.77E-04	1071.	-159.6403	-4.27E-04	3232.	6958137.	-26.4947	9191.	0.00
5.4000	4.94E-04	1039.	-164.8648	-3.97E-04	3134.	6958137.	-25.7505	10421.	0.00
5.6000	4.18E-04	1005.	-169.9299	-3.67E-04	3033.	6958137.	-24.9005	11918.	0.00
5.8000	3.47E-04	970.5337	-174.8130	-3.39E-04	2929.	6958137.	-23.9297	13780.	0.00
6.0000	2.82E-04	935.0925	-179.4876	-3.11E-04	2822.	6958137.	-22.8169	16164.	0.00
6.2000	2.23E-04	898.7386	-183.9224	-2.85E-04	2712.	6958137.	-21.5304	19334.	0.00
6.4000	1.68E-04	861.5235	-188.0773	-2.60E-04	2600.	6958137.	-20.0188	23792.	0.00
6.6000	1.19E-04	823.5077	-191.8982	-2.36E-04	2485.	6958137.	-18.1907	30625.	0.00
6.8000	7.40E-05	784.7642	-195.3028	-2.12E-04	2368.	6958137.	-15.8552	42826.	0.00
7.0000	3.38E-05	745.3866	-198.1349	-1.90E-04	2250.	6958137.	-12.4653	73750.	0.00
7.2000	-2.15E-06	705.5103	-198.8964	-1.70E-04	2129.	6958137.	4.8500	450908.	0.00
7.4000	-3.41E-05	665.8280	-197.1211	-1.50E-04	2010.	6958137.	12.9024	75783.	0.00
7.6000	-6.21E-05	626.6618	-194.2233	-1.31E-04	1891.	6958137.	16.0759	51755.	0.00
7.8000	-8.66E-05	588.1387	-190.7867	-1.14E-04	1775.	6958137.	18.2903	42244.	0.00
8.0000	-1.08E-04	550.3472	-186.9554	-9.75E-05	1661.	6958137.	20.0223	37188.	0.00
8.2000	-1.26E-04	513.3565	-182.8085	-8.22E-05	1549.	6958137.	21.4474	34150.	0.00
8.4000	-1.41E-04	477.2238	-178.3986	-6.80E-05	1440.	6958137.	22.6517	32226.	0.00
8.6000	-1.53E-04	441.9971	-173.7649	-5.48E-05	1334.	6958137.	23.6846	30999.	0.00
8.8000	-1.63E-04	407.7178	-168.9388	-4.26E-05	1231.	6958137.	24.5770	30249.	0.00
9.0000	-1.70E-04	374.4216	-163.9461	-3.13E-05	1130.	6958137.	25.3496	29850.	0.00
9.2000	-1.75E-04	342.1394	-158.8094	-2.10E-05	1033.	6958137.	26.0171	29727.	0.00
9.4000	-1.78E-04	310.8978	-153.5487	-1.17E-05	938.3050	6958137.	26.5901	29832.	0.00
9.6000	-1.80E-04	280.7199	-148.1820	-3.16E-06	847.2265	6958137.	27.0765	30134.	0.00
9.8000	-1.80E-04	251.6250	-142.7261	4.49E-06	759.4167	6958137.	27.4826	30616.	0.00
10.0000	-1.78E-04	223.6294	-137.1966	1.13E-05	674.9247	6958137.	27.8132	31267.	0.00
10.2000	-1.75E-04	196.7464	-131.2828	1.74E-05	593.7903	6958137.	31.3239	35798.	0.00
10.4000	-1.71E-04	171.1163	-125.0423	2.26E-05	516.4374	6958137.	31.0813	36360.	0.00
10.6000	-1.66E-04	146.7295	-118.8568	2.72E-05	442.8367	6958137.	30.7741	37090.	0.00
10.8000	-1.60E-04	123.5736	-112.7386	3.11E-05	372.9512	6958137.	30.4073	37991.	0.00
11.0000	-1.54E-04	101.6340	-106.6994	3.43E-05	306.7364	6958137.	29.9852	39068.	0.00
11.2000	-1.46E-04	80.8938	-100.7497	3.70E-05	244.1416	6958137.	29.5116	40332.	0.00
11.4000	-1.39E-04	61.3341	-94.8996	3.90E-05	185.1094	6958137.	28.9898	41797.	0.00
11.6000	-1.31E-04	42.9340	-89.1583	4.05E-05	129.5770	6958137.	28.4231	43480.	0.00
11.8000	-1.23E-04	25.6708	-83.5346	4.15E-05	77.4758	6958137.	27.8141	45404.	0.00
12.0000	-1.14E-04	9.5202	-77.5072	4.20E-05	28.7324	6958137.	32.4593	56874.	0.00
12.2000	-1.06E-04	-5.3321	-70.5141	4.21E-05	16.0925	6958137.	37.4718	70889.	0.00
12.4000	-9.73E-05	-18.6855	-63.1217	4.17E-05	56.3936	6958137.	36.4521	74909.	0.00
12.6000	-8.90E-05	-30.5808	-55.9379	4.10E-05	92.2943	6958137.	35.3863	79488.	0.00
12.8000	-8.09E-05	-41.0606	-48.9716	4.00E-05	123.9230	6958137.	34.2769	84715.	0.00

13.0000	-7.30E-05	-50.1694	-42.2313	3.87E-05	151.4137	6958137.	33.1263	90699.	0.00
13.2000	-6.55E-05	-57.9531	-35.7249	3.71E-05	174.9054	6958137.	31.9368	97578.	0.00
13.4000	-5.82E-05	-64.4594	-29.4602	3.53E-05	194.5416	6958137.	30.7101	105526.	0.00
13.6000	-5.13E-05	-69.7372	-23.4445	3.34E-05	210.4704	6958137.	29.4478	114763.	0.00
13.8000	-4.48E-05	-73.8371	-17.6846	3.14E-05	222.8442	6958137.	28.1511	125573.	0.00
14.0000	-3.88E-05	-76.8110	-12.1874	2.92E-05	231.8195	6958137.	26.8208	138333.	0.00
14.2000	-3.32E-05	-78.7121	-6.9596	2.70E-05	237.5570	6958137.	25.4572	153542.	0.00
14.4000	-2.80E-05	-79.5949	-2.0079	2.47E-05	240.2212	6958137.	24.0598	171886.	0.00
14.6000	-2.33E-05	-79.5152	2.6609	2.24E-05	239.9809	6958137.	22.6272	194327.	0.00
14.8000	-1.90E-05	-78.5305	7.0393	2.01E-05	237.0090	6958137.	21.1568	222263.	0.00
15.0000	-1.52E-05	-76.6995	11.1193	1.79E-05	231.4830	6958137.	19.6434	257807.	0.00
15.2000	-1.19E-05	-74.0828	14.8915	1.57E-05	223.5856	6958137.	18.0789	304331.	0.00
15.4000	-8.95E-06	-70.7429	18.3443	1.36E-05	213.5056	6958137.	16.4486	367604.	0.00
15.6000	-6.42E-06	-66.7451	21.4618	1.17E-05	201.4400	6958137.	14.7269	458509.	0.00
15.8000	-4.28E-06	-62.1582	24.2209	9.81E-06	187.5965	6958137.	12.8638	600799.	0.00
16.0000	-2.50E-06	-57.0568	26.5819	8.10E-06	172.2001	6958137.	10.7469	860442.	0.00
16.2000	-1.04E-06	-51.5254	28.4592	6.54E-06	155.5063	6958137.	8.0259	1540854.	0.00
16.4000	1.18E-07	-45.6731	29.2538	5.14E-06	137.8436	6958137.	-0.08034	135828.	0.00
16.6000	1.02E-06	-39.8239	28.4488	3.92E-06	120.1905	6958137.	-7.9692	1569060.	0.00
16.8000	1.68E-06	-34.2935	26.7089	2.85E-06	103.4996	6958137.	-9.4296	1119680.	0.00
17.0000	2.16E-06	-29.1403	24.7423	1.94E-06	87.9470	6958137.	-10.2369	949731.	0.00
17.2000	2.46E-06	-24.3966	22.6490	1.17E-06	73.6302	6958137.	-10.6964	869749.	0.00
17.4000	2.62E-06	-20.0808	20.4865	5.30E-07	60.6047	6958137.	-10.9282	833166.	0.00
17.6000	2.67E-06	-16.2020	18.2942	8.19E-09	48.8985	6958137.	-10.9946	823102.	0.00
17.8000	2.63E-06	-12.7631	16.1015	-4.08E-07	38.5196	6958137.	-10.9326	832465.	0.00
18.0000	2.51E-06	-9.7614	13.9316	-7.32E-07	29.4604	6958137.	-10.7661	858454.	0.00
18.2000	2.33E-06	-7.1904	11.8039	-9.75E-07	21.7010	6958137.	-10.5109	900741.	0.00
18.4000	2.12E-06	-5.0398	9.7351	-1.15E-06	15.2105	6958137.	-10.1771	960970.	0.00
18.6000	1.87E-06	-3.2964	7.7404	-1.27E-06	9.9486	6958137.	-9.7698	1043028.	0.00
18.8000	1.61E-06	-1.9437	5.8345	-1.35E-06	5.8661	6958137.	-9.2893	1154177.	0.00
19.0000	1.33E-06	-0.9626	4.0327	-1.39E-06	2.9050	6958137.	-8.7290	1307872.	0.00
19.2000	1.05E-06	-0.3306	2.3526	-1.41E-06	0.9978	6958137.	-8.0717	1530964.	0.00
19.4000	7.72E-07	-0.02151	0.8175	-1.41E-06	0.06492	6958137.	-7.2793	1885412.	0.00
19.6000	4.90E-07	-0.00359	0.05632	-1.41E-06	0.01084	6958137.	-0.3326	135828.	0.00
19.8000	2.07E-07	0.00102	0.00898	-1.41E-06	0.00308	6958137.	-0.1408	135828.	0.00
20.0000	-7.51E-08	0.00	0.00	-1.41E-06	0.00	6958137.	0.05099	67914.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 2:

Pile-head deflection = 0.00493878 meters

Computed slope at pile head = -0.00111749 radians

Maximum bending moment = 1249. kN-m

Maximum shear force = 600.00000000 kN

Depth of maximum bending moment = 3.60000000 meters below pile head

Depth of maximum shear force = 0.000000 meters below pile head

Number of iterations = 16

Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 3

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 900.000 kN

Applied moment at pile head = 0.000 kN-m

Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00997	3.02E-10	900.0000	-0.00203	9.11E-10	6958137.	0.00	0.00	0.00
0.2000	0.00957	180.0000	890.8466	-0.00202	543.2489	6958137.	-91.5338	1913.	0.00
0.4000	0.00917	356.3386	869.9442	-0.00202	1075.	6958137.	-117.4905	2564.	0.00
0.6000	0.00876	527.9777	844.0160	-0.00200	1593.	6958137.	-141.7912	3236.	0.00
0.8000	0.00836	693.9451	813.3825	-0.00199	2094.	6958137.	-164.5438	3935.	0.00
1.0000	0.00797	853.3307	778.3471	-0.00196	2575.	6958137.	-185.8104	4664.	0.00
1.2000	0.00758	1005.	739.2035	-0.00194	3034.	6958137.	-205.6253	5427.	0.00
1.4000	0.00719	1149.	696.2408	-0.00191	3468.	6958137.	-224.0023	6228.	0.00
1.6000	0.00682	1284.	649.7467	-0.00187	3875.	6958137.	-240.9386	7070.	0.00
1.8000	0.00645	1409.	600.0117	-0.00183	4252.	6958137.	-256.4112	7957.	0.00
2.0000	0.00608	1524.	547.3343	-0.00179	4599.	6958137.	-270.3629	8890.	0.00
2.2000	0.00573	1628.	492.0339	-0.00175	4913.	6958137.	-282.6410	9867.	0.00
2.4000	0.00538	1721.	434.5607	-0.00170	5193.	6958137.	-292.0905	10849.	0.00
2.6000	0.00505	1802.	375.4005	-0.00165	5438.	6958137.	-299.5117	11862.	0.00
2.8000	0.00473	1871.	314.8656	-0.00159	5646.	6958137.	-305.8369	12943.	0.00
3.0000	0.00441	1928.	253.1742	-0.00154	5818.	6958137.	-311.0771	14099.	0.00
3.2000	0.00411	1972.	190.5421	-0.00148	5952.	6958137.	-315.2447	15339.	0.00
3.4000	0.00382	2004.	127.1822	-0.00143	6048.	6958137.	-318.3538	16670.	0.00
3.6000	0.00354	2023.	63.3049	-0.00137	6105.	6958137.	-320.4192	18102.	0.00
3.8000	0.00327	2029.	-0.8826	-0.00131	6124.	6958137.	-321.4562	19647.	0.00

4.0000	0.00302	2023.	-65.1762	-0.00125	6104.	6958137.	-321.4794	21316.	0.00
4.2000	0.00277	2003.	-129.3743	-0.00119	6045.	6958137.	-320.5021	23126.	0.00
4.4000	0.00254	1971.	-165.3655	-0.00114	5948.	6958137.	-39.4094	3105.	0.00
4.6000	0.00232	1937.	-173.2264	-0.00108	5846.	6958137.	-39.2003	3383.	0.00
4.8000	0.00211	1902.	-181.0383	-0.00103	5739.	6958137.	-38.9179	3695.	0.00
5.0000	0.00191	1865.	-188.7860	-9.71E-04	5627.	6958137.	-38.5597	4044.	0.00
5.2000	0.00172	1826.	-196.4543	-9.18E-04	5511.	6958137.	-38.1230	4437.	0.00
5.4000	0.00154	1786.	-204.0271	-8.66E-04	5390.	6958137.	-37.6045	4884.	0.00
5.6000	0.00137	1744.	-211.4875	-8.15E-04	5265.	6958137.	-37.0002	5394.	0.00
5.8000	0.00121	1701.	-218.8181	-7.66E-04	5135.	6958137.	-36.3052	5982.	0.00
6.0000	0.00107	1657.	-225.9999	-7.18E-04	5000.	6958137.	-35.5132	6666.	0.00
6.2000	9.27E-04	1611.	-233.0129	-6.71E-04	4862.	6958137.	-34.6164	7470.	0.00
6.4000	7.97E-04	1564.	-239.8350	-6.25E-04	4719.	6958137.	-33.6045	8429.	0.00
6.6000	6.77E-04	1515.	-246.4418	-5.81E-04	4572.	6958137.	-32.4639	9593.	0.00
6.8000	5.65E-04	1465.	-252.8058	-5.38E-04	4422.	6958137.	-31.1759	11035.	0.00
7.0000	4.62E-04	1414.	-258.8947	-4.97E-04	4267.	6958137.	-29.7137	12872.	0.00
7.2000	3.66E-04	1362.	-264.6699	-4.57E-04	4109.	6958137.	-28.0375	15303.	0.00
7.4000	2.79E-04	1308.	-270.0819	-4.18E-04	3948.	6958137.	-26.0834	18697.	0.00
7.6000	1.99E-04	1253.	-275.0642	-3.81E-04	3783.	6958137.	-23.7390	23843.	0.00
7.8000	1.26E-04	1198.	-279.5154	-3.46E-04	3616.	6958137.	-20.7735	32860.	0.00
8.0000	6.06E-05	1142.	-283.2479	-3.13E-04	3446.	6958137.	-16.5509	54591.	0.00
8.2000	1.40E-06	1085.	-285.3864	-2.81E-04	3274.	6958137.	-4.8346	691060.	0.00
8.4000	-5.16E-05	1028.	-284.2474	-2.50E-04	3101.	6958137.	16.2249	62885.	0.00
8.6000	-9.87E-05	970.9971	-280.5767	-2.22E-04	2931.	6958137.	20.4820	41505.	0.00
8.8000	-1.40E-04	915.2914	-276.1877	-1.94E-04	2762.	6958137.	23.4076	33389.	0.00
9.0000	-1.76E-04	860.5220	-271.2785	-1.69E-04	2597.	6958137.	25.6852	29112.	0.00
9.2000	-2.08E-04	806.7801	-265.9542	-1.45E-04	2435.	6958137.	27.5578	26528.	0.00
9.4000	-2.34E-04	754.1404	-260.2841	-1.22E-04	2276.	6958137.	29.1432	24863.	0.00
9.6000	-2.57E-04	702.6664	-254.3189	-1.02E-04	2121.	6958137.	30.5081	23764.	0.00
9.8000	-2.75E-04	652.4128	-248.0987	-8.21E-05	1969.	6958137.	31.6942	23046.	0.00
10.0000	-2.90E-04	603.4270	-241.6563	-6.40E-05	1821.	6958137.	32.7296	22604.	0.00
10.2000	-3.01E-04	555.7503	-234.6303	-4.74E-05	1677.	6958137.	37.5303	24965.	0.00
10.4000	-3.09E-04	509.5748	-227.0918	-3.21E-05	1538.	6958137.	37.8554	24538.	0.00
10.6000	-3.13E-04	464.9136	-219.5005	-1.81E-05	1403.	6958137.	38.0569	24279.	0.00
10.8000	-3.16E-04	421.7746	-211.8800	-5.31E-06	1273.	6958137.	38.1489	24163.	0.00
11.0000	-3.16E-04	380.1616	-204.2508	6.21E-06	1147.	6958137.	38.1431	24170.	0.00
11.2000	-3.13E-04	340.0743	-196.6316	1.66E-05	1026.	6958137.	38.0490	24291.	0.00
11.4000	-3.09E-04	301.5090	-189.0392	2.58E-05	909.9689	6958137.	37.8747	24515.	0.00
11.6000	-3.03E-04	264.4586	-181.4890	3.39E-05	798.1492	6958137.	37.6273	24839.	0.00
11.8000	-2.95E-04	228.9134	-173.9950	4.10E-05	690.8719	6958137.	37.3127	25260.	0.00
12.0000	-2.87E-04	194.8606	-165.8503	4.71E-05	588.0990	6958137.	44.1342	30802.	0.00
12.2000	-2.77E-04	162.5733	-156.2713	5.22E-05	490.6541	6958137.	51.6554	37352.	0.00
12.4000	-2.66E-04	132.3521	-146.0091	5.65E-05	399.4451	6958137.	50.9674	38369.	0.00
12.6000	-2.54E-04	104.1696	-135.8913	5.99E-05	314.3891	6958137.	50.2103	39536.	0.00

12.8000	-2.42E-04	77.9956	-125.9314	6.25E-05	235.3945	6958137.	49.3889	40864.	0.00
13.0000	-2.29E-04	53.7971	-116.1417	6.44E-05	162.3623	6958137.	48.5077	42364.	0.00
13.2000	-2.16E-04	31.5389	-106.5339	6.56E-05	95.1860	6958137.	47.5705	44053.	0.00
13.4000	-2.03E-04	11.1835	-97.1187	6.62E-05	33.7525	6958137.	46.5811	45947.	0.00
13.6000	-1.89E-04	-7.3086	-87.9063	6.63E-05	22.0577	6958137.	45.5426	48071.	0.00
13.8000	-1.76E-04	-23.9790	-78.9063	6.58E-05	72.3698	6958137.	44.4581	50450.	0.00
14.0000	-1.63E-04	-38.8711	-70.1275	6.49E-05	117.3149	6958137.	43.3301	53117.	0.00
14.2000	-1.50E-04	-52.0300	-61.5783	6.36E-05	157.0291	6958137.	42.1611	56112.	0.00
14.4000	-1.38E-04	-63.5024	-53.2669	6.20E-05	191.6535	6958137.	40.9530	59481.	0.00
14.6000	-1.25E-04	-73.3368	-45.2008	6.00E-05	221.3339	6958137.	39.7077	63283.	0.00
14.8000	-1.14E-04	-81.5828	-37.3874	5.78E-05	246.2208	6958137.	38.4265	67591.	0.00
15.0000	-1.02E-04	-88.2917	-29.8337	5.53E-05	266.4688	6958137.	37.1103	72492.	0.00
15.2000	-9.16E-05	-93.5163	-22.5467	5.27E-05	282.2367	6958137.	35.7596	78100.	0.00
15.4000	-8.13E-05	-97.3104	-15.5334	5.00E-05	293.6876	6958137.	34.3741	84561.	0.00
15.6000	-7.16E-05	-99.7296	-8.8007	4.71E-05	300.9889	6958137.	32.9526	92065.	0.00
15.8000	-6.24E-05	-100.8307	-2.3561	4.43E-05	304.3120	6958137.	31.4930	100867.	0.00
16.0000	-5.39E-05	-100.6721	3.7923	4.14E-05	303.8332	6958137.	29.9912	111320.	0.00
16.2000	-4.59E-05	-99.3138	9.6355	3.85E-05	299.7339	6958137.	28.4411	123925.	0.00
16.4000	-3.85E-05	-96.8179	15.1629	3.57E-05	292.2011	6958137.	26.8328	139432.	0.00
16.6000	-3.16E-05	-93.2486	20.3613	3.29E-05	281.4289	6958137.	25.1512	159017.	0.00
16.8000	-2.53E-05	-88.6733	25.2137	3.03E-05	267.6205	6958137.	23.3724	184657.	0.00
17.0000	-1.95E-05	-83.1632	29.6966	2.79E-05	250.9905	6958137.	21.4567	220012.	0.00
17.2000	-1.42E-05	-76.7947	33.7756	2.56E-05	231.7702	6958137.	19.3336	272810.	0.00
17.4000	-9.28E-06	-69.6529	37.3952	2.34E-05	210.2159	6958137.	16.8622	363258.	0.00
17.6000	-4.79E-06	-61.8366	40.4499	2.16E-05	186.6260	6958137.	13.6851	570874.	0.00
17.8000	-6.61E-07	-53.4729	41.8633	1.99E-05	161.3840	6958137.	0.4486	135828.	0.00
18.0000	3.17E-06	-45.0913	40.7819	1.85E-05	136.0878	6958137.	-11.2627	711478.	0.00
18.2000	6.73E-06	-37.1602	38.1811	1.73E-05	112.1513	6958137.	-14.7447	437961.	0.00
18.4000	1.01E-05	-29.8189	35.0103	1.63E-05	89.9948	6958137.	-16.9639	336351.	0.00
18.6000	1.33E-05	-23.1561	31.4501	1.56E-05	69.8862	6958137.	-18.6382	280922.	0.00
18.8000	1.63E-05	-17.2388	27.5860	1.50E-05	52.0276	6958137.	-20.0020	245145.	0.00
19.0000	1.93E-05	-12.1217	23.4693	1.46E-05	36.5838	6958137.	-21.1653	219688.	0.00
19.2000	2.21E-05	-7.8511	19.1338	1.43E-05	23.6950	6958137.	-22.1900	200371.	0.00
19.4000	2.50E-05	-4.4681	14.6034	1.41E-05	13.4851	6958137.	-23.1141	185030.	0.00
19.6000	2.78E-05	-2.0097	9.8957	1.40E-05	6.0655	6958137.	-23.9623	172430.	0.00
19.8000	3.06E-05	-0.5098	5.0244	1.40E-05	1.5387	6958137.	-24.7514	161817.	0.00
20.0000	3.34E-05	0.00	0.00	1.40E-05	0.00	6958137.	-25.4923	76354.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 3:

Pile-head deflection = 0.00997469 meters

Computed slope at pile head = -0.00202665 radians

Maximum bending moment = 2029. kN-m

Maximum shear force = 900.00000000 kN

Depth of maximum bending moment = 3.80000000 meters below pile head

Depth of maximum shear force = 0.000000 meters below pile head

Number of iterations = 19

Number of zero deflection points = 2

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 4

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 1000.000 kN

Applied moment at pile head = 0.000 kN-m

Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.01224	3.32E-09	1000.0000	-0.00240	1.00E-08	6958137.	0.00	0.00	0.00
0.2000	0.01176	200.0000	991.3011	-0.00240	603.6099	6958137.	-86.9889	1479.	0.00
0.4000	0.01128	396.5204	970.9673	-0.00239	1197.	6958137.	-116.3490	2062.	0.00
0.6000	0.01081	588.3869	944.9444	-0.00238	1776.	6958137.	-143.8797	2663.	0.00
0.8000	0.01033	774.4982	913.5839	-0.00236	2337.	6958137.	-169.7258	3285.	0.00
1.0000	0.00986	953.8205	877.2137	-0.00233	2879.	6958137.	-193.9761	3933.	0.00
1.2000	0.00940	1125.	836.1474	-0.00230	3396.	6958137.	-216.6863	4610.	0.00
1.4000	0.00894	1288.	790.6898	-0.00227	3888.	6958137.	-237.8904	5320.	0.00
1.6000	0.00849	1442.	741.1399	-0.00223	4351.	6958137.	-257.6080	6066.	0.00
1.8000	0.00805	1585.	687.7944	-0.00218	4783.	6958137.	-275.8471	6851.	0.00
2.0000	0.00762	1717.	630.9492	-0.00214	5181.	6958137.	-292.6054	7679.	0.00
2.2000	0.00720	1837.	570.9018	-0.00209	5545.	6958137.	-307.8683	8554.	0.00
2.4000	0.00679	1945.	507.9548	-0.00203	5871.	6958137.	-321.6019	9478.	0.00
2.6000	0.00639	2040.	442.4215	-0.00197	6158.	6958137.	-333.7312	10453.	0.00
2.8000	0.00600	2122.	374.6448	-0.00191	6405.	6958137.	-344.0359	11474.	0.00
3.0000	0.00562	2190.	305.1349	-0.00185	6610.	6958137.	-351.0627	12493.	0.00
3.2000	0.00526	2244.	234.3814	-0.00179	6773.	6958137.	-356.4727	13565.	0.00
3.4000	0.00490	2284.	162.6589	-0.00172	6893.	6958137.	-360.7525	14711.	0.00
3.6000	0.00457	2309.	90.1918	-0.00166	6969.	6958137.	-363.9178	15938.	0.00

3.8000	0.00424	2320.	17.2016	-0.00159	7002.	6958137.	-365.9845	17256.	0.00
4.0000	0.00393	2316.	-56.0937	-0.00152	6990.	6958137.	-366.9683	18674.	0.00
4.2000	0.00363	2298.	-129.4789	-0.00146	6934.	6958137.	-366.8837	20202.	0.00
4.4000	0.00335	2264.	-170.4885	-0.00139	6834.	6958137.	-43.2128	2582.	0.00
4.6000	0.00308	2229.	-179.1177	-0.00133	6728.	6958137.	-43.0783	2802.	0.00
4.8000	0.00282	2193.	-187.7126	-0.00126	6618.	6958137.	-42.8708	3045.	0.00
5.0000	0.00257	2154.	-196.2585	-0.00120	6502.	6958137.	-42.5883	3315.	0.00
5.2000	0.00234	2114.	-204.7402	-0.00114	6381.	6958137.	-42.2287	3616.	0.00
5.4000	0.00211	2072.	-213.1420	-0.00108	6255.	6958137.	-41.7894	3955.	0.00
5.6000	0.00190	2029.	-221.4477	-0.00102	6123.	6958137.	-41.2672	4336.	0.00
5.8000	0.00170	1984.	-229.6403	-9.64E-04	5987.	6958137.	-40.6587	4770.	0.00
6.0000	0.00152	1937.	-237.7020	-9.07E-04	5846.	6958137.	-39.9591	5265.	0.00
6.2000	0.00134	1889.	-245.6142	-8.52E-04	5700.	6958137.	-39.1631	5836.	0.00
6.4000	0.00118	1839.	-253.3569	-7.99E-04	5550.	6958137.	-38.2636	6502.	0.00
6.6000	0.00102	1787.	-260.9084	-7.47E-04	5394.	6958137.	-37.2517	7286.	0.00
6.8000	8.78E-04	1734.	-268.2452	-6.96E-04	5235.	6958137.	-36.1159	8223.	0.00
7.0000	7.44E-04	1680.	-275.3409	-6.47E-04	5071.	6958137.	-34.8407	9363.	0.00
7.2000	6.20E-04	1624.	-282.1654	-5.99E-04	4902.	6958137.	-33.4045	10782.	0.00
7.4000	5.04E-04	1567.	-288.6835	-5.53E-04	4730.	6958137.	-31.7767	12599.	0.00
7.6000	3.98E-04	1509.	-294.8523	-5.09E-04	4554.	6958137.	-29.9107	15021.	0.00
7.8000	3.01E-04	1449.	-300.6164	-4.67E-04	4374.	6958137.	-27.7311	18442.	0.00
8.0000	2.12E-04	1389.	-305.8998	-4.26E-04	4191.	6958137.	-25.1024	23732.	0.00
8.2000	1.30E-04	1327.	-310.5836	-3.87E-04	4005.	6958137.	-21.7359	33352.	0.00
8.4000	5.68E-05	1264.	-314.4337	-3.50E-04	3816.	6958137.	-16.7654	59071.	0.00
8.6000	-9.55E-06	1201.	-315.1743	-3.14E-04	3625.	6958137.	9.3600	196098.	0.00
8.8000	-6.90E-05	1138.	-312.3917	-2.81E-04	3435.	6958137.	18.4658	53562.	0.00
9.0000	-1.22E-04	1076.	-308.2758	-2.49E-04	3248.	6958137.	22.6934	37260.	0.00
9.2000	-1.68E-04	1015.	-303.4371	-2.19E-04	3063.	6958137.	25.6931	30499.	0.00
9.4000	-2.09E-04	954.7975	-298.0619	-1.90E-04	2882.	6958137.	28.0587	26809.	0.00
9.6000	-2.45E-04	895.7463	-292.2543	-1.64E-04	2703.	6958137.	30.0174	24536.	0.00
9.8000	-2.75E-04	837.8958	-286.0842	-1.39E-04	2529.	6958137.	31.6834	23053.	0.00
10.0000	-3.00E-04	781.3126	-279.6036	-1.16E-04	2358.	6958137.	33.1228	22063.	0.00
10.2000	-3.21E-04	726.0543	-272.4553	-9.40E-05	2191.	6958137.	38.3599	23889.	0.00
10.4000	-3.38E-04	672.3305	-264.7179	-7.39E-05	2029.	6958137.	39.0147	23094.	0.00
10.6000	-3.51E-04	620.1672	-256.8660	-5.54E-05	1872.	6958137.	39.5036	22526.	0.00
10.8000	-3.60E-04	569.5840	-248.9307	-3.83E-05	1719.	6958137.	39.8496	22137.	0.00
11.0000	-3.66E-04	520.5949	-240.9387	-2.26E-05	1571.	6958137.	40.0705	21894.	0.00
11.2000	-3.69E-04	473.2086	-232.9136	-8.31E-06	1428.	6958137.	40.1806	21775.	0.00
11.4000	-3.69E-04	427.4295	-224.8764	4.63E-06	1290.	6958137.	40.1917	21763.	0.00
11.6000	-3.67E-04	383.2580	-216.8459	1.63E-05	1157.	6958137.	40.1135	21848.	0.00
11.8000	-3.63E-04	340.6911	-208.8391	2.67E-05	1028.	6958137.	39.9542	22023.	0.00
12.0000	-3.57E-04	299.7224	-200.0975	3.59E-05	904.5769	6958137.	47.4617	26624.	0.00
12.2000	-3.48E-04	260.6521	-189.7729	4.39E-05	786.6609	6958137.	55.7841	32015.	0.00
12.4000	-3.39E-04	223.8132	-178.6674	5.09E-05	675.4793	6958137.	55.2705	32613.	0.00

12.6000	-3.28E-04	189.1851	-167.6728	5.68E-05	570.9701	6958137.	54.6759	33326.	0.00
12.8000	-3.16E-04	156.7441	-156.8046	6.18E-05	473.0614	6958137.	54.0061	34158.	0.00
13.0000	-3.03E-04	126.4633	-146.0773	6.59E-05	381.6724	6958137.	53.2666	35113.	0.00
13.2000	-2.90E-04	98.3132	-135.5045	6.91E-05	296.7139	6958137.	52.4621	36198.	0.00
13.4000	-2.76E-04	72.2615	-125.0986	7.16E-05	218.0888	6958137.	51.5970	37423.	0.00
13.6000	-2.61E-04	48.2737	-114.8714	7.33E-05	145.6925	6958137.	50.6749	38797.	0.00
13.8000	-2.46E-04	26.3129	-104.8339	7.44E-05	79.4138	6958137.	49.6994	40335.	0.00
14.0000	-2.31E-04	6.3401	-94.9967	7.48E-05	19.1349	6958137.	48.6734	42054.	0.00
14.2000	-2.16E-04	-11.6857	-85.3694	7.48E-05	35.2681	6958137.	47.5995	43973.	0.00
14.4000	-2.02E-04	-27.8076	-75.9614	7.42E-05	83.9247	6958137.	46.4801	46116.	0.00
14.6000	-1.87E-04	-42.0703	-66.7817	7.32E-05	126.9702	6958137.	45.3169	48515.	0.00
14.8000	-1.72E-04	-54.5203	-57.8389	7.18E-05	164.5449	6958137.	44.1113	51203.	0.00
15.0000	-1.58E-04	-65.2058	-49.1413	7.01E-05	196.7945	6958137.	42.8643	54226.	0.00
15.2000	-1.44E-04	-74.1768	-40.6973	6.81E-05	223.8693	6958137.	41.5762	57638.	0.00
15.4000	-1.31E-04	-81.4848	-32.5150	6.58E-05	245.9250	6958137.	40.2468	61509.	0.00
15.6000	-1.18E-04	-87.1828	-24.6028	6.34E-05	263.1221	6958137.	38.8747	65929.	0.00
15.8000	-1.05E-04	-91.3259	-16.9696	6.09E-05	275.6261	6958137.	37.4576	71012.	0.00
16.0000	-9.36E-05	-93.9707	-9.6247	5.82E-05	283.6081	6958137.	35.9919	76916.	0.00
16.2000	-8.22E-05	-95.1758	-2.5783	5.55E-05	287.2452	6958137.	34.4715	83852.	0.00
16.4000	-7.14E-05	-95.0020	4.1576	5.27E-05	286.7207	6958137.	32.8879	92124.	0.00
16.6000	-6.11E-05	-93.5127	10.5692	5.00E-05	282.2260	6958137.	31.2284	102180.	0.00
16.8000	-5.14E-05	-90.7743	16.6395	4.74E-05	273.9614	6958137.	29.4739	114713.	0.00
17.0000	-4.22E-05	-86.8569	22.3464	4.48E-05	262.1385	6958137.	27.5956	130872.	0.00
17.2000	-3.35E-05	-81.8357	27.6607	4.24E-05	246.9843	6958137.	25.5470	152722.	0.00
17.4000	-2.52E-05	-75.7927	32.5403	4.01E-05	228.7460	6958137.	23.2490	184442.	0.00
17.6000	-1.74E-05	-68.8196	36.9201	3.81E-05	207.7010	6958137.	20.5488	236190.	0.00
17.8000	-9.99E-06	-61.0246	40.6831	3.62E-05	184.1754	6958137.	17.0816	342115.	0.00
18.0000	-2.92E-06	-52.5464	43.5273	3.46E-05	158.5876	6958137.	11.3608	777490.	0.00
18.2000	3.84E-06	-43.6137	43.4246	3.32E-05	131.6283	6958137.	-12.3881	645389.	0.00
18.4000	1.03E-05	-35.1765	40.4596	3.20E-05	106.1645	6958137.	-17.2619	333575.	0.00
18.6000	1.67E-05	-27.4299	36.7099	3.11E-05	82.7847	6958137.	-20.2349	242944.	0.00
18.8000	2.28E-05	-20.4926	32.4392	3.05E-05	61.8476	6958137.	-22.4722	197048.	0.00
19.0000	2.88E-05	-14.4542	27.7618	3.00E-05	43.6234	6958137.	-24.3022	168521.	0.00
19.2000	3.48E-05	-9.3879	22.7445	2.96E-05	28.3330	6958137.	-25.8711	148720.	0.00
19.4000	4.07E-05	-5.3564	17.4316	2.94E-05	16.1658	6958137.	-27.2577	133985.	0.00
19.6000	4.66E-05	-2.4152	11.8548	2.93E-05	7.2893	6958137.	-28.5097	122484.	0.00
19.8000	5.24E-05	-0.6145	6.0381	2.92E-05	1.8545	6958137.	-29.6579	113189.	0.00
20.0000	5.83E-05	0.00	0.00	2.92E-05	0.00	6958137.	-30.7228	52741.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 4:

Pile-head deflection = 0.01224315 meters
Computed slope at pile head = -0.00240140 radians
Maximum bending moment = 2320. kN-m
Maximum shear force = 1000.00000000 kN
Depth of maximum bending moment = 3.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 22
Number of zero deflection points = 2

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 5

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 1100.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.01497	-2.72E-09	1100.	-0.00283	8.20E-09	6958137.	0.00	0.00	0.00
0.2000	0.01441	220.0000	1092.	-0.00283	663.9708	6958137.	-78.1155	1084.	0.00
0.4000	0.01384	436.8754	1073.	-0.00282	1319.	6958137.	-111.2768	1608.	0.00
0.6000	0.01328	649.2997	1048.	-0.00280	1960.	6958137.	-142.4001	2145.	0.00
0.8000	0.01272	856.0280	1016.	-0.00278	2584.	6958137.	-171.6748	2699.	0.00
1.0000	0.01217	1056.	979.3846	-0.00275	3187.	6958137.	-199.2201	3275.	0.00
1.2000	0.01162	1248.	936.9512	-0.00272	3766.	6958137.	-225.1137	3875.	0.00
1.4000	0.01108	1431.	889.4990	-0.00268	4318.	6958137.	-249.4075	4502.	0.00
1.6000	0.01055	1604.	837.3446	-0.00264	4840.	6958137.	-272.1364	5160.	0.00
1.8000	0.01002	1766.	780.7987	-0.00259	5329.	6958137.	-293.3236	5852.	0.00
2.0000	0.00951	1916.	720.1679	-0.00254	5782.	6958137.	-312.9842	6581.	0.00
2.2000	0.00901	2054.	655.7568	-0.00248	6198.	6958137.	-331.1264	7350.	0.00
2.4000	0.00852	2178.	587.8690	-0.00242	6574.	6958137.	-347.7520	8163.	0.00
2.6000	0.00804	2289.	516.8082	-0.00235	6908.	6958137.	-362.8556	9024.	0.00
2.8000	0.00758	2385.	442.8806	-0.00229	7198.	6958137.	-376.4209	9935.	0.00
3.0000	0.00713	2466.	366.3972	-0.00222	7442.	6958137.	-388.4131	10899.	0.00
3.2000	0.00669	2531.	287.6803	-0.00215	7640.	6958137.	-398.7558	11919.	0.00
3.4000	0.00627	2581.	207.0818	-0.00207	7790.	6958137.	-407.2296	12992.	0.00

3.6000	0.00586	2614.	125.1276	-0.00200	7890.	6958137.	-412.3120	14068.	0.00
3.8000	0.00547	2631.	42.3363	-0.00192	7941.	6958137.	-415.6009	15196.	0.00
4.0000	0.00509	2631.	-40.9972	-0.00185	7941.	6958137.	-417.7341	16405.	0.00
4.2000	0.00473	2615.	-124.6433	-0.00177	7891.	6958137.	-418.7268	17701.	0.00
4.4000	0.00438	2581.	-171.2441	-0.00170	7791.	6958137.	-47.2812	2157.	0.00
4.6000	0.00405	2546.	-180.6950	-0.00162	7685.	6958137.	-47.2286	2331.	0.00
4.8000	0.00374	2509.	-190.1282	-0.00155	7573.	6958137.	-47.1029	2522.	0.00
5.0000	0.00343	2470.	-199.5288	-0.00148	7455.	6958137.	-46.9027	2733.	0.00
5.2000	0.00314	2429.	-208.8816	-0.00141	7332.	6958137.	-46.6260	2966.	0.00
5.4000	0.00287	2387.	-218.1713	-0.00134	7203.	6958137.	-46.2709	3226.	0.00
5.6000	0.00261	2342.	-227.3819	-0.00127	7068.	6958137.	-45.8349	3515.	0.00
5.8000	0.00236	2296.	-236.4969	-0.00120	6928.	6958137.	-45.3152	3840.	0.00
6.0000	0.00213	2247.	-245.4993	-0.00114	6783.	6958137.	-44.7085	4206.	0.00
6.2000	0.00190	2197.	-254.3712	-0.00108	6632.	6958137.	-44.0107	4621.	0.00
6.4000	0.00170	2146.	-263.0940	-0.00101	6476.	6958137.	-43.2169	5097.	0.00
6.6000	0.00150	2092.	-271.6478	-9.52E-04	6314.	6958137.	-42.3210	5645.	0.00
6.8000	0.00132	2037.	-280.0114	-8.93E-04	6148.	6958137.	-41.3152	6283.	0.00
7.0000	0.00114	1980.	-288.1619	-8.35E-04	5976.	6958137.	-40.1899	7036.	0.00
7.2000	9.81E-04	1922.	-296.0741	-7.79E-04	5800.	6958137.	-38.9321	7937.	0.00
7.4000	8.31E-04	1862.	-303.7198	-7.25E-04	5619.	6958137.	-37.5247	9033.	0.00
7.6000	6.91E-04	1800.	-311.0666	-6.72E-04	5433.	6958137.	-35.9438	10400.	0.00
7.8000	5.62E-04	1737.	-318.0765	-6.21E-04	5243.	6958137.	-34.1551	12154.	0.00
8.0000	4.43E-04	1673.	-324.7027	-5.72E-04	5049.	6958137.	-32.1066	14502.	0.00
8.2000	3.33E-04	1607.	-330.8847	-5.25E-04	4851.	6958137.	-29.7133	17836.	0.00
8.4000	2.33E-04	1541.	-336.5381	-4.80E-04	4650.	6958137.	-26.8207	23039.	0.00
8.6000	1.41E-04	1473.	-341.5295	-4.36E-04	4445.	6958137.	-23.0940	32684.	0.00
8.8000	5.83E-05	1404.	-345.5871	-3.95E-04	4238.	6958137.	-17.4811	59998.	0.00
9.0000	-1.67E-05	1335.	-346.1673	-3.56E-04	4028.	6958137.	11.6786	139872.	0.00
9.2000	-8.40E-05	1266.	-342.9626	-3.18E-04	3820.	6958137.	20.3688	48498.	0.00
9.4000	-1.44E-04	1197.	-338.4488	-2.83E-04	3614.	6958137.	24.7690	34396.	0.00
9.6000	-1.97E-04	1130.	-333.1787	-2.49E-04	3411.	6958137.	27.9323	28334.	0.00
9.8000	-2.44E-04	1064.	-327.3413	-2.18E-04	3212.	6958137.	30.4413	24972.	0.00
10.0000	-2.84E-04	999.2993	-321.0445	-1.88E-04	3016.	6958137.	32.5264	22879.	0.00
10.2000	-3.19E-04	935.7410	-313.9640	-1.60E-04	2824.	6958137.	38.2786	23991.	0.00
10.4000	-3.49E-04	873.7137	-306.1941	-1.34E-04	2637.	6958137.	39.4203	22622.	0.00
10.6000	-3.73E-04	813.2633	-298.2202	-1.10E-04	2454.	6958137.	40.3192	21625.	0.00
10.8000	-3.93E-04	754.4257	-290.0865	-8.77E-05	2277.	6958137.	41.0174	20896.	0.00
11.0000	-4.08E-04	697.2287	-281.8302	-6.68E-05	2104.	6958137.	41.5460	20368.	0.00
11.2000	-4.19E-04	641.6936	-273.4828	-4.76E-05	1937.	6958137.	41.9282	19998.	0.00
11.4000	-4.27E-04	587.8356	-265.0717	-2.99E-05	1774.	6958137.	42.1824	19758.	0.00
11.6000	-4.31E-04	535.6649	-256.6211	-1.38E-05	1617.	6958137.	42.3234	19627.	0.00
11.8000	-4.32E-04	485.1871	-248.1525	9.20E-07	1464.	6958137.	42.3630	19590.	0.00
12.0000	-4.31E-04	436.4039	-238.8605	1.42E-05	1317.	6958137.	50.5570	23465.	0.00
12.2000	-4.27E-04	389.6429	-227.8362	2.60E-05	1176.	6958137.	59.6858	27968.	0.00

12.4000	-4.20E-04	345.2694	-215.9287	3.66E-05	1042.	6958137.	59.3895	28248.	0.00
12.6000	-4.12E-04	303.2715	-204.0902	4.59E-05	915.2882	6958137.	58.9956	28626.	0.00
12.8000	-4.02E-04	263.6333	-192.3394	5.41E-05	795.6584	6958137.	58.5120	29101.	0.00
13.0000	-3.91E-04	226.3357	-180.6937	6.11E-05	683.0923	6958137.	57.9454	29673.	0.00
13.2000	-3.78E-04	191.3559	-169.1690	6.71E-05	577.5215	6958137.	57.3017	30344.	0.00
13.4000	-3.64E-04	158.6681	-157.7802	7.21E-05	478.8682	6958137.	56.5863	31116.	0.00
13.6000	-3.49E-04	128.2438	-146.5412	7.63E-05	387.0461	6958137.	55.8037	31995.	0.00
13.8000	-3.33E-04	100.0517	-135.4650	7.95E-05	301.9608	6958137.	54.9580	32988.	0.00
14.0000	-3.17E-04	74.0578	-124.5639	8.20E-05	223.5101	6958137.	54.0527	34102.	0.00
14.2000	-3.00E-04	50.2261	-113.8496	8.38E-05	151.5848	6958137.	53.0910	35349.	0.00
14.4000	-2.83E-04	28.5180	-103.3329	8.50E-05	86.0687	6958137.	52.0755	36741.	0.00
14.6000	-2.66E-04	8.8929	-93.0245	8.55E-05	26.8393	6958137.	51.0082	38295.	0.00
14.8000	-2.49E-04	-8.6918	-82.9346	8.55E-05	26.2324	6958137.	49.8909	40029.	0.00
15.0000	-2.32E-04	-24.2809	-73.0731	8.50E-05	73.2811	6958137.	48.7247	41968.	0.00
15.2000	-2.15E-04	-37.9211	-63.4496	8.41E-05	114.4476	6958137.	47.5101	44142.	0.00
15.4000	-1.99E-04	-49.6608	-54.0739	8.29E-05	149.8787	6958137.	46.2469	46587.	0.00
15.6000	-1.82E-04	-59.5506	-44.9558	8.13E-05	179.7267	6958137.	44.9341	49349.	0.00
15.8000	-1.66E-04	-67.6431	-36.1054	7.95E-05	204.1502	6958137.	43.5698	52488.	0.00
16.0000	-1.50E-04	-73.9928	-27.5334	7.74E-05	223.3138	6958137.	42.1506	56083.	0.00
16.2000	-1.35E-04	-78.6564	-19.2511	7.53E-05	237.3890	6958137.	40.6716	60237.	0.00
16.4000	-1.20E-04	-81.6932	-11.2714	7.29E-05	246.5542	6958137.	39.1254	65093.	0.00
16.6000	-1.06E-04	-83.1650	-3.6087	7.06E-05	250.9961	6958137.	37.5019	70852.	0.00
16.8000	-9.20E-05	-83.1367	3.7201	6.82E-05	250.9107	6958137.	35.7863	77811.	0.00
17.0000	-7.86E-05	-81.6770	10.6945	6.58E-05	246.5051	6958137.	33.9571	86422.	0.00
17.2000	-6.57E-05	-78.8589	17.2884	6.35E-05	238.0001	6958137.	31.9827	97427.	0.00
17.4000	-5.32E-05	-74.7616	23.4681	6.13E-05	225.6341	6958137.	29.8138	112126.	0.00
17.6000	-4.11E-05	-69.4717	29.1863	5.92E-05	209.6690	6958137.	27.3684	133074.	0.00
17.8000	-2.95E-05	-63.0871	34.3727	5.73E-05	190.3999	6958137.	24.4956	166151.	0.00
18.0000	-1.82E-05	-55.7226	38.9083	5.56E-05	168.1736	6958137.	20.8602	229211.	0.00
18.2000	-7.24E-06	-47.5237	42.5292	5.41E-05	143.4290	6958137.	15.3488	424121.	0.00
18.4000	3.45E-06	-38.7109	42.8684	5.29E-05	116.8315	6958137.	-11.9566	692599.	0.00
18.6000	1.39E-05	-30.3764	39.7668	5.19E-05	91.6774	6958137.	-19.0595	273828.	0.00
18.8000	2.42E-05	-22.8042	35.5682	5.11E-05	68.8243	6958137.	-22.9266	189365.	0.00
19.0000	3.44E-05	-16.1491	30.6986	5.06E-05	48.7388	6958137.	-25.7696	149926.	0.00
19.2000	4.44E-05	-10.5248	25.3141	5.02E-05	31.7644	6958137.	-28.0749	126332.	0.00
19.4000	5.45E-05	-6.0235	19.5024	5.00E-05	18.1791	6958137.	-30.0423	110338.	0.00
19.6000	6.44E-05	-2.7238	13.3206	4.98E-05	8.2207	6958137.	-31.7753	98636.	0.00
19.8000	7.44E-05	-0.6952	6.8096	4.98E-05	2.0982	6958137.	-33.3352	89625.	0.00
20.0000	8.43E-05	0.00	0.00	4.98E-05	0.00	6958137.	-34.7607	41214.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 5:

Pile-head deflection = 0.01497350 meters
Computed slope at pile head = -0.00283060 radians
Maximum bending moment = 2631. kN-m
Maximum shear force = 1100. kN
Depth of maximum bending moment = 4.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 25
Number of zero deflection points = 2

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 6

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 1500.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.04074	-1.93E-08	1500.	-0.00606	5.83E-08	6958137.	0.00	0.00	0.00
0.2000	0.03953	300.0000	1497.	-0.00606	905.4148	6958137.	-27.4540	138.9011	0.00
0.4000	0.03832	598.9018	1489.	-0.00605	1808.	6958137.	-52.4199	273.5943	0.00
0.6000	0.03711	895.7069	1476.	-0.00602	2703.	6958137.	-80.9191	436.0802	0.00
0.8000	0.03591	1189.	1457.	-0.00599	3589.	6958137.	-112.4515	626.2998	0.00
1.0000	0.03471	1478.	1431.	-0.00596	4462.	6958137.	-146.5773	844.4762	0.00
1.2000	0.03353	1762.	1398.	-0.00591	5316.	6958137.	-182.9050	1091.	0.00
1.4000	0.03235	2037.	1357.	-0.00585	6149.	6958137.	-221.0827	1367.	0.00
1.6000	0.03119	2304.	1309.	-0.00579	6955.	6958137.	-260.7924	1673.	0.00
1.8000	0.03003	2561.	1253.	-0.00572	7730.	6958137.	-301.6142	2009.	0.00
2.0000	0.02890	2806.	1189.	-0.00565	8468.	6958137.	-341.6751	2365.	0.00
2.2000	0.02778	3037.	1116.	-0.00556	9164.	6958137.	-379.7980	2735.	0.00
2.4000	0.02667	3252.	1037.	-0.00547	9815.	6958137.	-416.0448	3120.	0.00
2.6000	0.02559	3451.	950.2064	-0.00537	10416.	6958137.	-450.4681	3521.	0.00
2.8000	0.02452	3632.	856.8482	-0.00527	10963.	6958137.	-483.1140	3940.	0.00
3.0000	0.02348	3794.	757.1344	-0.00517	11451.	6958137.	-514.0238	4379.	0.00
3.2000	0.02246	3935.	651.4085	-0.00505	11877.	6958137.	-543.2353	4838.	0.00

3.4000	0.02146	4055.	540.0066	-0.00494	12237.	6958137.	-570.7836	5320.	0.00
3.6000	0.02048	4151.	423.2581	-0.00482	12528.	6958137.	-596.7012	5827.	0.00
3.8000	0.01953	4224.	301.4862	-0.00470	12748.	6958137.	-621.0187	6361.	0.00
4.0000	0.01860	4272.	175.0079	-0.00458	12892.	6958137.	-643.7643	6923.	0.00
4.2000	0.01770	4294.	44.1350	-0.00446	12959.	6958137.	-664.9638	7516.	0.00
4.4000	0.01682	4289.	-29.7624	-0.00433	12946.	6958137.	-74.0104	880.2176	0.00
4.6000	0.01596	4282.	-44.6220	-0.00421	12923.	6958137.	-74.5861	934.5423	0.00
4.8000	0.01513	4272.	-59.5895	-0.00409	12892.	6958137.	-75.0889	992.4294	0.00
5.0000	0.01433	4258.	-74.6502	-0.00396	12851.	6958137.	-75.5182	1054.	0.00
5.2000	0.01355	4242.	-89.7894	-0.00384	12802.	6958137.	-75.8732	1120.	0.00
5.4000	0.01279	4222.	-104.9920	-0.00372	12743.	6958137.	-76.1532	1191.	0.00
5.6000	0.01206	4200.	-120.2431	-0.00360	12675.	6958137.	-76.3575	1266.	0.00
5.8000	0.01135	4174.	-135.5274	-0.00348	12598.	6958137.	-76.4851	1348.	0.00
6.0000	0.01067	4146.	-150.8294	-0.00336	12511.	6958137.	-76.5352	1435.	0.00
6.2000	0.01001	4114.	-166.1336	-0.00324	12416.	6958137.	-76.5068	1529.	0.00
6.4000	0.00937	4079.	-181.4242	-0.00312	12311.	6958137.	-76.3990	1631.	0.00
6.6000	0.00876	4041.	-196.6851	-0.00301	12197.	6958137.	-76.2105	1741.	0.00
6.8000	0.00817	4000.	-211.9002	-0.00289	12073.	6958137.	-75.9403	1860.	0.00
7.0000	0.00760	3956.	-227.0529	-0.00278	11941.	6958137.	-75.5868	1989.	0.00
7.2000	0.00706	3910.	-242.1265	-0.00266	11799.	6958137.	-75.1487	2130.	0.00
7.4000	0.00654	3860.	-257.1038	-0.00255	11649.	6958137.	-74.6243	2284.	0.00
7.6000	0.00604	3807.	-271.9674	-0.00244	11489.	6958137.	-74.0116	2452.	0.00
7.8000	0.00556	3751.	-286.6994	-0.00233	11320.	6958137.	-73.3085	2638.	0.00
8.0000	0.00510	3692.	-301.2814	-0.00223	11143.	6958137.	-72.5124	2842.	0.00
8.2000	0.00467	3630.	-315.6948	-0.00212	10957.	6958137.	-71.6206	3069.	0.00
8.4000	0.00425	3566.	-329.9198	-0.00202	10762.	6958137.	-70.6297	3321.	0.00
8.6000	0.00386	3498.	-343.9363	-0.00192	10558.	6958137.	-69.5356	3602.	0.00
8.8000	0.00349	3428.	-357.7233	-0.00182	10346.	6958137.	-68.3338	3919.	0.00
9.0000	0.00313	3355.	-371.2585	-0.00172	10126.	6958137.	-67.0184	4277.	0.00
9.2000	0.00280	3280.	-384.5186	-0.00162	9898.	6958137.	-65.5825	4685.	0.00
9.4000	0.00248	3201.	-397.4786	-0.00153	9662.	6958137.	-64.0177	5153.	0.00
9.6000	0.00219	3121.	-410.1117	-0.00144	9418.	6958137.	-62.3131	5697.	0.00
9.8000	0.00191	3037.	-422.3885	-0.00135	9167.	6958137.	-60.4550	6334.	0.00
10.0000	0.00165	2952.	-434.2766	-0.00127	8908.	6958137.	-58.4257	7094.	0.00
10.2000	0.00140	2864.	-446.3903	-0.00118	8643.	6958137.	-62.7115	8942.	0.00
10.4000	0.00117	2773.	-458.5724	-0.00110	8370.	6958137.	-59.1097	10064.	0.00
10.6000	9.62E-04	2680.	-470.0146	-0.00102	8089.	6958137.	-55.3126	11494.	0.00
10.8000	7.66E-04	2585.	-480.6713	-9.47E-04	7802.	6958137.	-51.2535	13387.	0.00
11.0000	5.84E-04	2488.	-490.4790	-8.74E-04	7509.	6958137.	-46.8243	16039.	0.00
11.2000	4.16E-04	2389.	-499.3446	-8.04E-04	7210.	6958137.	-41.8317	20097.	0.00
11.4000	2.62E-04	2288.	-507.1148	-7.36E-04	6906.	6958137.	-35.8704	27333.	0.00
11.6000	1.22E-04	2186.	-513.4790	-6.72E-04	6598.	6958137.	-27.7717	45605.	0.00
11.8000	-6.32E-06	2083.	-515.2222	-6.11E-04	6286.	6958137.	10.3401	327126.	0.00
12.0000	-1.22E-04	1980.	-510.8644	-5.52E-04	5976.	6958137.	33.2383	54284.	0.00

12.2000	-2.27E-04	1879.	-502.7032	-4.97E-04	5670.	6958137.	48.3734	42579.	0.00
12.4000	-3.21E-04	1779.	-492.4369	-4.44E-04	5369.	6958137.	54.2891	33806.	0.00
12.6000	-4.05E-04	1682.	-481.1432	-3.94E-04	5075.	6958137.	58.6481	28969.	0.00
12.8000	-4.79E-04	1587.	-469.0758	-3.48E-04	4788.	6958137.	62.0260	25900.	0.00
13.0000	-5.44E-04	1494.	-456.4020	-3.03E-04	4509.	6958137.	64.7117	23795.	0.00
13.2000	-6.00E-04	1404.	-443.2435	-2.62E-04	4237.	6958137.	66.8738	22281.	0.00
13.4000	-6.49E-04	1317.	-429.6940	-2.23E-04	3974.	6958137.	68.6209	21161.	0.00
13.6000	-6.89E-04	1232.	-415.8291	-1.86E-04	3718.	6958137.	70.0280	20319.	0.00
13.8000	-7.23E-04	1150.	-401.7114	-1.52E-04	3472.	6958137.	71.1491	19684.	0.00
14.0000	-7.50E-04	1071.	-387.3940	-1.20E-04	3233.	6958137.	72.0248	19208.	0.00
14.2000	-7.71E-04	995.3451	-372.9229	-9.00E-05	3004.	6958137.	72.6866	18860.	0.00
14.4000	-7.86E-04	922.2143	-358.3383	-6.24E-05	2783.	6958137.	73.1595	18617.	0.00
14.6000	-7.96E-04	852.0098	-343.6760	-3.69E-05	2571.	6958137.	73.4636	18464.	0.00
14.8000	-8.01E-04	784.7439	-328.9681	-1.34E-05	2368.	6958137.	73.6154	18388.	0.00
15.0000	-8.01E-04	720.4226	-314.2437	8.21E-06	2174.	6958137.	73.6286	18381.	0.00
15.2000	-7.97E-04	659.0464	-299.5293	2.80E-05	1989.	6958137.	73.5148	18438.	0.00
15.4000	-7.90E-04	600.6108	-284.8495	4.61E-05	1813.	6958137.	73.2836	18555.	0.00
15.6000	-7.79E-04	545.1066	-270.2268	6.26E-05	1645.	6958137.	72.9433	18728.	0.00
15.8000	-7.65E-04	492.5201	-255.6824	7.75E-05	1486.	6958137.	72.5010	18957.	0.00
16.0000	-7.48E-04	442.8337	-241.2360	9.10E-05	1336.	6958137.	71.9625	19242.	0.00
16.2000	-7.29E-04	396.0257	-226.9065	1.03E-04	1195.	6958137.	71.3329	19583.	0.00
16.4000	-7.07E-04	352.0711	-212.7116	1.14E-04	1063.	6958137.	70.6162	19983.	0.00
16.6000	-6.83E-04	310.9411	-198.6684	1.23E-04	938.4356	6958137.	69.8157	20444.	0.00
16.8000	-6.57E-04	272.6037	-184.7934	1.32E-04	822.7315	6958137.	68.9341	20970.	0.00
17.0000	-6.30E-04	237.0237	-171.1027	1.39E-04	715.3493	6958137.	67.9730	21567.	0.00
17.2000	-6.02E-04	204.1627	-157.6120	1.45E-04	616.1730	6958137.	66.9334	22243.	0.00
17.4000	-5.72E-04	173.9789	-144.3371	1.51E-04	525.0770	6958137.	65.8156	23005.	0.00
17.6000	-5.42E-04	146.4278	-131.2937	1.55E-04	441.9263	6958137.	64.6187	23865.	0.00
17.8000	-5.10E-04	121.4614	-118.4978	1.59E-04	366.5766	6958137.	63.3408	24838.	0.00
18.0000	-4.78E-04	99.0287	-105.9658	1.62E-04	298.8735	6958137.	61.9791	25941.	0.00
18.2000	-4.45E-04	79.0751	-93.7150	1.65E-04	238.6526	6958137.	60.5290	27199.	0.00
18.4000	-4.12E-04	61.5427	-81.7637	1.67E-04	185.7389	6958137.	58.9841	28643.	0.00
18.6000	-3.78E-04	46.3697	-70.1317	1.69E-04	139.9459	6958137.	57.3359	30314.	0.00
18.8000	-3.44E-04	33.4900	-58.8408	1.70E-04	101.0746	6958137.	55.5727	32268.	0.00
19.0000	-3.10E-04	22.8333	-47.9156	1.70E-04	68.9122	6958137.	53.6789	34585.	0.00
19.2000	-2.76E-04	14.3238	-37.3845	1.71E-04	43.2299	6958137.	51.6329	37381.	0.00
19.4000	-2.42E-04	7.8796	-27.2807	1.71E-04	23.7809	6958137.	49.4048	40830.	0.00
19.6000	-2.08E-04	3.4115	-17.6450	1.72E-04	10.2961	6958137.	46.9519	45209.	0.00
19.8000	-1.73E-04	0.8216	-8.5288	1.72E-04	2.4795	6958137.	44.2102	50992.	0.00
20.0000	-1.39E-04	0.00	0.00	1.72E-04	0.00	6958137.	41.0778	29534.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 6:

Pile-head deflection = 0.04074289 meters
Computed slope at pile head = -0.00606289 radians
Maximum bending moment = 4294. kN-m
Maximum shear force = 1500. kN
Depth of maximum bending moment = 4.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 82
Number of zero deflection points = 1

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 7

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 1550.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.6662	5.60E-07	1550.	-0.05065	1.69E-06	6958137.	0.00	0.00	0.00
0.2000	0.6561	310.0000	1549.	-0.05064	935.5953	6958137.	-6.9086	2.1059	0.00
0.4000	0.6460	619.7237	1547.	-0.05063	1870.	6958137.	-12.6608	3.9198	0.00
0.6000	0.6359	928.9409	1544.	-0.05061	2804.	6958137.	-18.5663	5.8397	0.00
0.8000	0.6257	1237.	1540.	-0.05058	3735.	6958137.	-24.5056	7.8324	0.00
1.0000	0.6156	1545.	1534.	-0.05054	4663.	6958137.	-30.4001	9.8760	0.00
1.2000	0.6055	1851.	1528.	-0.05049	5587.	6958137.	-36.2003	11.9565	0.00
1.4000	0.5954	2156.	1520.	-0.05043	6507.	6958137.	-41.8768	14.0658	0.00
1.6000	0.5854	2459.	1511.	-0.05036	7422.	6958137.	-47.4144	16.2000	0.00
1.8000	0.5753	2760.	1501.	-0.05029	8331.	6958137.	-52.8083	18.3587	0.00
2.0000	0.5652	3060.	1490.	-0.05020	9234.	6958137.	-58.0606	20.5435	0.00
2.2000	0.5552	3356.	1478.	-0.05011	10130.	6958137.	-63.1780	22.7581	0.00
2.4000	0.5452	3651.	1465.	-0.05001	11018.	6958137.	-68.1702	25.0074	0.00
2.6000	0.5352	3942.	1451.	-0.04990	11898.	6958137.	-73.0484	27.2972	0.00
2.8000	0.5252	4231.	1435.	-0.04979	12769.	6958137.	-77.8247	29.6340	0.00
3.0000	0.5153	4516.	1419.	-0.04966	13631.	6958137.	-82.5108	32.0247	0.00

3.2000	0.5054	4799.	1402.	-0.04953	14483.	6958137.	-87.1179	34.4765	0.00
3.4000	0.4955	5077.	1385.	-0.04938	15324.	6958137.	-91.6566	36.9968	0.00
3.6000	0.4856	5353.	1366.	-0.04923	16154.	6958137.	-96.1359	39.5929	0.00
3.8000	0.4758	5624.	1346.	-0.04908	16973.	6958137.	-100.5640	42.2724	0.00
4.0000	0.4660	5891.	1326.	-0.04891	17779.	6958137.	-104.9479	45.0428	0.00
4.2000	0.4562	6154.	1304.	-0.04874	18573.	6958137.	-109.2932	47.9118	0.00
4.4000	0.4465	6413.	1271.	-0.04856	19354.	6958137.	-220.7932	98.9003	0.00
4.6000	0.4368	6662.	1227.	-0.04837	20108.	6958137.	-224.7612	102.9118	0.00
4.8000	0.4271	6903.	1181.	-0.04817	20834.	6958137.	-228.6290	107.0488	0.00
5.0000	0.4175	7135.	1135.	-0.04797	21534.	6958137.	-232.3947	111.3177	0.00
5.2000	0.4080	7357.	1088.	-0.04776	22205.	6958137.	-236.0566	115.7253	0.00
5.4000	0.3984	7570.	1041.	-0.04755	22847.	6958137.	-239.6127	120.2789	0.00
5.6000	0.3889	7774.	992.4745	-0.04733	23461.	6958137.	-243.0612	124.9864	0.00
5.8000	0.3795	7967.	943.5284	-0.04710	24046.	6958137.	-246.3999	129.8561	0.00
6.0000	0.3701	8151.	893.9258	-0.04687	24600.	6958137.	-249.6267	134.8972	0.00
6.2000	0.3607	8325.	843.6891	-0.04663	25125.	6958137.	-252.7393	140.1195	0.00
6.4000	0.3514	8489.	792.8417	-0.04639	25619.	6958137.	-255.7354	145.5335	0.00
6.6000	0.3422	8642.	741.4069	-0.04615	26082.	6958137.	-258.6123	151.1508	0.00
6.8000	0.3330	8785.	689.4089	-0.04590	26514.	6958137.	-261.3675	156.9837	0.00
7.0000	0.3238	8918.	636.8723	-0.04564	26914.	6958137.	-263.9981	163.0460	0.00
7.2000	0.3147	9040.	583.8224	-0.04538	27283.	6958137.	-266.5012	169.3522	0.00
7.4000	0.3057	9151.	530.2849	-0.04512	27619.	6958137.	-268.8735	175.9187	0.00
7.6000	0.2967	9252.	476.2864	-0.04486	27923.	6958137.	-271.1117	182.7630	0.00
7.8000	0.2877	9342.	421.8540	-0.04459	28194.	6958137.	-273.2121	189.9046	0.00
8.0000	0.2788	9421.	367.0157	-0.04432	28432.	6958137.	-275.1709	197.3648	0.00
8.2000	0.2700	9489.	311.8002	-0.04405	28637.	6958137.	-276.9840	205.1673	0.00
8.4000	0.2612	9545.	256.2372	-0.04378	28809.	6958137.	-278.6467	213.3382	0.00
8.6000	0.2525	9591.	200.3571	-0.04350	28946.	6958137.	-280.1544	221.9065	0.00
8.8000	0.2438	9626.	144.1914	-0.04322	29050.	6958137.	-281.5018	230.9046	0.00
9.0000	0.2352	9649.	87.7729	-0.04295	29120.	6958137.	-282.6833	240.3688	0.00
9.2000	0.2266	9661.	31.1353	-0.04267	29156.	6958137.	-283.6927	250.3397	0.00
9.4000	0.2181	9661.	-25.6863	-0.04239	29158.	6958137.	-284.5234	260.8630	0.00
9.6000	0.2097	9650.	-82.6554	-0.04211	29125.	6958137.	-285.1680	271.9908	0.00
9.8000	0.2013	9628.	-139.7341	-0.04184	29058.	6958137.	-285.6184	283.7820	0.00
10.0000	0.1930	9594.	-196.8825	-0.04156	28957.	6958137.	-285.8659	296.3041	0.00
10.2000	0.1847	9549.	-257.3710	-0.04129	28821.	6958137.	-319.0191	345.5024	0.00
10.4000	0.1764	9492.	-320.6937	-0.04101	28646.	6958137.	-314.2079	356.1642	0.00
10.6000	0.1683	9421.	-383.0424	-0.04074	28433.	6958137.	-309.2781	367.6090	0.00
10.8000	0.1601	9338.	-444.3922	-0.04047	28184.	6958137.	-304.2203	379.9341	0.00
11.0000	0.1521	9243.	-504.7166	-0.04020	27897.	6958137.	-299.0235	393.2546	0.00
11.2000	0.1441	9136.	-563.9865	-0.03994	27574.	6958137.	-293.6757	407.7072	0.00
11.4000	0.1361	9018.	-622.1704	-0.03968	27216.	6958137.	-288.1628	423.4563	0.00
11.6000	0.1282	8888.	-679.2335	-0.03942	26823.	6958137.	-282.4686	440.7012	0.00
11.8000	0.1203	8746.	-735.1378	-0.03917	26396.	6958137.	-276.5741	459.6861	0.00

12.0000	0.1125	8594.	-795.1115	-0.03892	25936.	6958137.	-323.1629	574.3932	0.00
12.2000	0.1048	8428.	-864.7998	-0.03867	25436.	6958137.	-373.7201	713.4505	0.00
12.4000	0.09705	8248.	-938.6035	-0.03843	24892.	6958137.	-364.3169	750.7549	0.00
12.6000	0.08939	8053.	-1010.	-0.03820	24303.	6958137.	-354.4641	793.0712	0.00
12.8000	0.08177	7843.	-1080.	-0.03797	23672.	6958137.	-344.0958	841.5848	0.00
13.0000	0.07420	7620.	-1148.	-0.03775	22999.	6958137.	-333.1294	897.9056	0.00
13.2000	0.06667	7384.	-1214.	-0.03753	22286.	6958137.	-321.4596	964.2816	0.00
13.4000	0.05919	7135.	-1277.	-0.03733	21534.	6958137.	-308.9486	1044.	0.00
13.6000	0.05174	6874.	-1337.	-0.03712	20745.	6958137.	-295.4110	1142.	0.00
13.8000	0.04434	6600.	-1395.	-0.03693	19920.	6958137.	-280.5873	1266.	0.00
14.0000	0.03697	6316.	-1449.	-0.03674	19061.	6958137.	-264.0965	1429.	0.00
14.2000	0.02964	6021.	-1500.	-0.03657	18171.	6958137.	-245.3405	1655.	0.00
14.4000	0.02234	5716.	-1547.	-0.03640	17250.	6958137.	-223.2865	1999.	0.00
14.6000	0.01508	5402.	-1589.	-0.03624	16303.	6958137.	-195.8614	2598.	0.00
14.8000	0.00785	5080.	-1624.	-0.03609	15332.	6958137.	-157.5439	4015.	0.00
15.0000	6.45E-04	4752.	-1647.	-0.03595	14342.	6958137.	-68.5043	21234.	0.00
15.2000	-0.00653	4422.	-1639.	-0.03582	13344.	6958137.	148.1807	4538.	0.00
15.4000	-0.01368	4097.	-1605.	-0.03569	12364.	6958137.	189.6038	2772.	0.00
15.6000	-0.02081	3780.	-1564.	-0.03558	11407.	6958137.	218.0470	2096.	0.00
15.8000	-0.02791	3471.	-1518.	-0.03548	10476.	6958137.	240.4786	1723.	0.00
16.0000	-0.03500	3172.	-1468.	-0.03538	9574.	6958137.	259.3121	1482.	0.00
16.2000	-0.04206	2884.	-1415.	-0.03529	8703.	6958137.	275.7074	1311.	0.00
16.4000	-0.04912	2606.	-1358.	-0.03521	7866.	6958137.	290.3224	1182.	0.00
16.6000	-0.05615	2340.	-1299.	-0.03514	7063.	6958137.	303.5707	1081.	0.00
16.8000	-0.06317	2087.	-1237.	-0.03508	6298.	6958137.	315.7314	999.5881	0.00
17.0000	-0.07018	1846.	-1173.	-0.03502	5570.	6958137.	327.0026	931.8678	0.00
17.2000	-0.07718	1618.	-1106.	-0.03497	4882.	6958137.	337.5306	874.6418	0.00
17.4000	-0.08417	1403.	-1038.	-0.03493	4235.	6958137.	347.4272	825.5229	0.00
17.6000	-0.09115	1202.	-967.3201	-0.03489	3629.	6958137.	356.7794	782.8115	0.00
17.8000	-0.09813	1016.	-895.0765	-0.03486	3067.	6958137.	365.6568	745.2626	0.00
18.0000	-0.1051	844.4549	-821.0992	-0.03483	2549.	6958137.	374.1160	711.9411	0.00
18.2000	-0.1121	687.7174	-745.4673	-0.03481	2076.	6958137.	382.2035	682.1301	0.00
18.4000	-0.1190	546.2680	-668.2511	-0.03479	1649.	6958137.	389.9582	655.2702	0.00
18.6000	-0.1260	420.4169	-589.5140	-0.03478	1269.	6958137.	397.4129	630.9177	0.00
18.8000	-0.1329	310.4624	-509.3131	-0.03477	936.9908	6958137.	404.5955	608.7159	0.00
19.0000	-0.1399	216.6917	-427.7006	-0.03476	653.9862	6958137.	411.5300	588.3744	0.00
19.2000	-0.1468	139.3822	-344.7239	-0.03476	420.6623	6958137.	418.2371	569.6545	0.00
19.4000	-0.1538	78.8021	-260.4267	-0.03475	237.8287	6958137.	424.7350	552.3578	0.00
19.6000	-0.1607	35.2115	-174.8492	-0.03475	106.2701	6958137.	431.0396	536.3180	0.00
19.8000	-0.1677	8.8625	-88.0288	-0.03475	26.7473	6958137.	437.1648	521.3944	0.00
20.0000	-0.1746	0.00	0.00	-0.03475	0.00	6958137.	443.1229	253.7338	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 7:

Pile-head deflection = 0.66624782 meters
Computed slope at pile head = -0.05064745 radians
Maximum bending moment = 9661. kN-m
Maximum shear force = -1647. kN
Depth of maximum bending moment = 9.40000000 meters below pile head
Depth of maximum shear force = 15.00000000 meters below pile head
Number of iterations = 91
Number of zero deflection points = 1

Summary of Pile-head Responses for Conventional Analyses

Definitions of Pile-head Loading Conditions:

Load Type 1: Load 1 = Shear, V, kN, and Load 2 = Moment, M, kN-m
Load Type 2: Load 1 = Shear, V, kN, and Load 2 = Slope, S, radians
Load Type 3: Load 1 = Shear, V, kN, and Load 2 = Rot. Stiffness, R, kN-m/rad.
Load Type 4: Load 1 = Top Deflection, y, m, and Load 2 = Moment, M, kN-m
Load Type 5: Load 1 = Top Deflection, y, m, and Load 2 = Slope, S, radians

Load Case No.	Load Type 1	Pile-head Load 1	Load Type 2	Pile-head Load 2	Axial Loading kN	Pile-head Deflection meters	Pile-head Rotation radians	Max Shear in Pile kN	Max Moment in Pile kN-m
1	V, kN	300.0000	M, kN-m	0.00	0.00	0.00169	-4.42E-04	300.0000	574.0805
2	V, kN	600.0000	M, kN-m	0.00	0.00	0.00494	-0.00112	600.0000	1249.
3	V, kN	900.0000	M, kN-m	0.00	0.00	0.00997	-0.00203	900.0000	2029.
4	V, kN	1000.0000	M, kN-m	0.00	0.00	0.01224	-0.00240	1000.0000	2320.
5	V, kN	1100.	M, kN-m	0.00	0.00	0.01497	-0.00283	1100.	2631.
6	V, kN	1500.	M, kN-m	0.00	0.00	0.04074	-0.00606	1500.	4294.
7	V, kN	1550.	M, kN-m	0.00	0.00	0.6662	-0.05065	-1647.	9661.

Maximum pile-head deflection = 0.6662478235 meters
Maximum pile-head rotation = -0.0506474507 radians = -2.901885 deg.

The analysis ended normally.

Opera IV01 (Pile centrali) – D800

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LPile for Windows, Version 2016-09.009

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method
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Files Used for Analysis

Path to file locations:
\m9159\Work\07_Pali\IV01\LPILE\

Name of input data file:
IV01_Pile_D800.lp9d

Name of output report file:
IV01_Pile_D800.lp9o

Name of plot output file:
IV01_Pile_D800.lp9p

Name of runtime message file:
IV01_Pile_D800.lp9r

Date and Time of Analysis

Date: June 10, 2019 Time: 15:26:15

Problem Title

Project Name: VI02 - Spalle e pila
Job Number:
Client:
Engineer:
Description:

Program Options and Settings

Computational Options:
- Use unfactored loads in computations (conventional analysis)

Engineering Units Used for Data Input and Computations:
- International System Units (kilonewtons, meters, millimeters)

Analysis Control Options:
- Maximum number of iterations allowed = 500
- Deflection tolerance for convergence = 2.5400E-07 m
- Maximum allowable deflection = 2.5400 m
- Number of pile increments = 100

Loading Type and Number of Cycles of Loading:
- Static loading specified

- Use of p-y modification factors for p-y curves not selected
- No distributed lateral loads are entered
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected

- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:
- Output files use decimal points to denote decimal symbols.
- Values of pile-head deflection, bending moment, shear force, and soil reaction are printed for full length of pile.
- Printing Increment (nodal spacing of output points) = 1
- p-y curves computed and reported at user-specified depths
- Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined = 1
Total length of pile = 20.000 m
Depth of ground surface below top of pile = 0.0000 m

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point	Depth Below Pile Head meters	Pile Diameter millimeters
1	0.000	800.00
2	20.000	800.00

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is an elastic pile
Cross-sectional Shape = Circular Pile
Length of section = 20.000000 m

Width of top of section = 0.800000 m
Width of bottom of section = 0.800000 m
Top Area = 0.502655 sq. m
Bottom Area = 0.502655 sq. m
Moment of Inertia at Top = 0.020106 m^4
Moment of Inertia at Bottom = 0.020106 m^4
Elastic Modulus = 28000000. kPa

Ground Slope and Pile Batter Angles

Ground Slope Angle = 0.000 degrees
= 0.000 radians

Pile Batter Angle = 0.000 degrees
= 0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 3 layers

Layer 1 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 0.0000 m
Distance from top of pile to bottom of layer = 4.800000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 45.000000 kPa
Undrained cohesion at bottom of layer = 45.000000 kPa
Epsilon-50 at top of layer = 0.015000
Epsilon-50 at bottom of layer = 0.015000

Layer 2 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer = 4.800000 m
Distance from top of pile to bottom of layer = 11.700000 m

Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Friction angle at top of layer = 36.000000 deg.
Friction angle at bottom of layer = 36.000000 deg.
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 3 is stiff clay without free water

Distance from top of pile to top of layer = 11.700000 m
Distance from top of pile to bottom of layer = 20.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 150.000000 kPa
Undrained cohesion at bottom of layer = 150.000000 kPa
Epsilon-50 at top of layer = 0.005000
Epsilon-50 at bottom of layer = 0.005000

(Depth of the lowest soil layer extends 0.000 m below the pile tip)

Summary of Input Soil Properties

Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth m	Effective Unit Wt. kN/m3	Undrained Cohesion kPa	Angle of Friction deg.	E50 or krm	kpy kN/m3
1	Soft	0.00	9.0000	45.0000	--	0.01500	--
	Clay	4.8000	9.0000	45.0000	--	0.01500	--
2	Sand	4.8000	9.0000	--	36.0000	--	default
	(Reese, et al.)	11.7000	9.0000	--	36.0000	--	default
3	Stiff Clay	11.7000	9.0000	150.0000	--	0.00500	--
	w/o Free Water	20.0000	9.0000	150.0000	--	0.00500	--

Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 11

Load No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, kN	Compute Top y vs. Pile Length
1	1	V = 50.000000 kN	M = 0.0000 m-kN	0.0000000	No
2	1	V = 75.000000 kN	M = 0.0000 m-kN	0.0000000	No
3	1	V = 100.000000 kN	M = 0.0000 m-kN	0.0000000	No
4	1	V = 125.000000 kN	M = 0.0000 m-kN	0.0000000	No
5	1	V = 150.000000 kN	M = 0.0000 m-kN	0.0000000	No
6	1	V = 200.000000 kN	M = 0.0000 m-kN	0.0000000	No
7	1	V = 300.000000 kN	M = 0.0000 m-kN	0.0000000	No
8	1	V = 400.000000 kN	M = 0.0000 m-kN	0.0000000	No
9	1	V = 450.000000 kN	M = 0.0000 m-kN	0.0000000	No
10	1	V = 470.000000 kN	M = 0.0000 m-kN	0.0000000	No
11	1	V = 2700. kN	M = 0.0000 m-kN	0.0000000	No

V = shear force applied normal to pile axis
M = bending moment applied to pile head
y = lateral deflection normal to pile axis
S = pile slope relative to original pile batter angle
R = rotational stiffness applied to pile head
Values of top y vs. pile lengths can be computed only for load types with
specified shear loading (Load Types 1, 2, and 3).
Thrust force is assumed to be acting axially for all pile batter angles.

Specified Depths for Output of p-y Curves

Lateral load-transfer (p-y) curves are computed and output at 6 depths.
(Note that load-transfer values are computeded at the specified depths and
may differ from values computed at nodal points)

Depth No.	Depth Below Pile Head m	Depth Below Ground Surface m
1	0.200	0.200
2	4.600	4.600
3	5.000	5.000
4	11.500	11.500
5	11.900	11.900
6	19.800	19.800

Depth of ground surface below top of pile = 0.0000 m

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

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Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Moment-curvature properties were derived from elastic section properties

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Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head meters	Equivalent Top Depth Below Grnd Surf meters	Same Layer Type As Layer Above	Layer is Rock or is Below Rock Layer	F0 Integral for Layer kN	F1 Integral for Layer kN
1	0.00	0.00	N.A.	No	0.00	860.5440
2	4.8000	4.0092	No	No	860.5440	12908.
3	11.7000	11.7000	No	No	13768.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals for Layer n. Layering correction equivalent depths are computed only for soil types with both shallow-depth and deep-depth expressions for peak lateral load transfer. These soil types are soft and stiff clays, non-liquefied sands, and cemented c-phi soil.

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p-y Curves Reported for Specified Depths

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p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 0.200 m
Depth of p-y curve below ground surface = 0.200 m
Equiv. depth of p-y curve below ground surface = 0.200 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 7.273 m
Static pu_s for flat ground = 113.940 kN/m
Static pu_d for flat ground = 324.000 kN/m
y_50 = 0.03000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 113.940 kN/m

y, meters	p, kN/m
0.00000	0.00000

0.00007111	7.59600
0.00056889	15.19200
0.00192	22.78800
0.00455	30.38400
0.00889	37.98000
0.01536	45.57600
0.02439	53.17200
0.03641	60.76800
0.05184	68.36400
0.07111	75.96000
0.09465	83.55600
0.12288	91.15200
0.15623	98.74800
0.19513	106.34400
0.24000	113.94000
0.25500	113.94000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 4.600 m
Depth of p-y curve below ground surface = 4.600 m
Equiv. depth of p-y curve below ground surface = 4.600 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 7.273 m
Static pu_s for flat ground = 244.620 kN/m
Static pu_d for flat ground = 324.000 kN/m
y_50 = 0.03000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 244.620 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00007111	16.30800
0.00056889	32.61600
0.00192	48.92400
0.00455	65.23200
0.00889	81.54000
0.01536	97.84800
0.02439	114.15600
0.03641	130.46400
0.05184	146.77200
0.07111	163.08000
0.09465	179.38800
0.12288	195.69600
0.15623	212.00400
0.19513	228.31200
0.24000	244.62000
0.25500	244.62000

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 4.800 m
Depth of p-y curve below pile head = 5.000 m
Depth of p-y curve below ground surface = 5.000 m
Equiv. depth of p-y curve below ground surface = 4.209 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 800.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3
K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 743.737 kN/m
Psd = 2203.224 kN/m
Ps = Pst (shallow controls) = 743.737 kN/m

A (static) = 0.8800
B (static) = 0.5000
C = Pm/(Ym^(1/n)) = 5133.6539
n = Pm/(m Ym) = 1.6447
m = (Pu-Pm)/(Yu-Ym) = 16957.2016
Yk = [c/(kx)]^(n/(n-1)) = 0.0003 m
Pk = 33.729 kN/m
Ym = b/60 = 0.0133 m
Pm = B ps = 371.868 kN/m
Yu = 3b/80 = 0.0300 m
Pu = A Ps = 654.488 kN/m
Maximum Es value = 131074.154 kN/m/m
p-multiplier = 1.00000
y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters	p, kN/m
0.00000	0.00000
0.00025733	33.72877
0.00145	96.34268
0.00263	138.75203
0.00382	174.00575
0.00501	205.13787
0.00620	233.47579
0.00739	259.74755
0.00858	284.40569
0.00977	307.75522
0.01096	330.01377
0.01214	351.34332
0.01333	371.86846
0.02167	513.17847
0.03000	654.48848
0.03600	654.48848
0.04200	654.48848

The above p-y curve was computed using internal default values of k.

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 4.800 m
Depth of p-y curve below pile head = 11.500 m
Depth of p-y curve below ground surface = 11.500 m
Equiv. depth of p-y curve below ground surface = 10.709 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 800.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3
K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 3892.836 kN/m
Psd = 5067.414 kN/m
Ps = Pst (shallow controls) = 3892.836 kN/m
A (static) = 0.8800
B (static) = 0.5000
C = Pm/(Ym^(1/n)) = 26870.3556
n = Pm/(m Ym) = 1.6447
m = (Pu-Pm)/(Yu-Ym) = 88756.6718
Yk = [c/(kx)]^(n/(n-1)) = 0.0021 m
Pk = 632.042 kN/m
Ym = b/60 = 0.0133 m
Pm = B ps = 1946.418 kN/m
Yu = 3b/80 = 0.0300 m
Pu = A Ps = 3425.696 kN/m
Maximum Es value = 301470.555 kN/m/m
p-multiplier = 1.00000
y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters	p, kN/m
0.00000	0.00000
0.00210	632.04239
0.00312	804.55372
0.00414	955.83564

0.00516	1093.00314
0.00618	1219.85223
0.00720	1338.70351
0.00823	1451.10349
0.00925	1558.14660
0.01027	1660.64242
0.01129	1759.21063
0.01231	1854.33862
0.01333	1946.41824
0.02167	2686.05717
0.03000	3425.69610
0.03600	3425.69610
0.04200	3425.69610

The above p-y curve was computed using internal default values of k.

p-y Curve Computed Using Static Criteria for Stiff Clay without Free Water

Soil Layer Number = 3
Depth of p-y curve below pile head = 11.900 m
Depth of p-y curve below ground surface = 11.900 m
Depth of top of layer 3 below pile head = 11.700 m
Equiv. depth of p-y curve below ground surface = 11.900 m
Pile diameter = 800.000 mm
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Undrained cohesion = 150.000 kPa
Average effective unit weight = 9.00000 kN/m3
Epsilon-50 = 0.00500
Pct = 1338.180 kN/m
Pcd = 1080.000 kN/m
Pu = 1080.000 kN/m
y50 = 0.01000 m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m

0.00000	0.00000
3.16049E-06	72.00000
0.00005057	144.00000
0.00025600	216.00000
0.00080909	288.00000
0.00198	360.00000
0.00410	432.00000
0.00759	504.00000
0.01295	576.00000
0.02074	648.00000
0.03160	720.00000
0.04627	792.00000
0.06554	864.00000
0.09027	936.00000
0.12141	1008.00000
0.16000	1080.00000
0.20000	1080.00000

p-y Curve Computed Using Static Criteria for Stiff Clay without Free Water

Soil Layer Number = 3
Depth of p-y curve below pile head = 19.800 m
Depth of p-y curve below ground surface = 19.800 m
Depth of top of layer 3 below pile head = 11.700 m
Equiv. depth of p-y curve below ground surface = 19.800 m
Pile diameter = 800.000 mm
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Undrained cohesion = 150.000 kPa
Average effective unit weight = 9.00000 kN/m3
Epsilon-50 = 0.00500
Pct = 1987.560 kN/m
Pcd = 1080.000 kN/m
Pu = 1080.000 kN/m
y50 = 0.01000 m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m

0.00000	0.00000
3.16049E-06	72.00000
0.00005057	144.00000
0.00025600	216.00000
0.00080909	288.00000
0.00198	360.00000
0.00410	432.00000
0.00759	504.00000
0.01295	576.00000
0.02074	648.00000
0.03160	720.00000
0.04627	792.00000
0.06554	864.00000
0.09027	936.00000
0.12141	1008.00000
0.16000	1080.00000
0.20000	1080.00000

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 1

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 50.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00116	3.05E-12	50.0000	-4.30E-04	6.07E-11	562973.	-18.2578	1575.	0.00
0.2000	0.00107	9.6348	46.2969	-4.28E-04	191.6791	562973.	-18.7731	3499.	0.00
0.4000	9.88E-04	18.5188	42.4982	-4.23E-04	368.4191	562973.	-19.2137	3890.	0.00
0.6000	9.04E-04	26.6341	38.6192	-4.15E-04	529.8692	562973.	-19.5769	4333.	0.00
0.8000	8.22E-04	33.9664	34.6755	-4.05E-04	675.7406	562973.	-19.8602	4835.	0.00
1.0000	7.42E-04	40.5043	30.6833	-3.91E-04	805.8078	562973.	-20.0612	5409.	0.00
1.2000	6.65E-04	46.2398	26.6595	-3.76E-04	919.9108	562973.	-20.1775	6069.	0.00

1.4000	5.91E-04	51.1681	22.6210	-3.59E-04	1018.	562973.	-20.2067	6834.	0.00
1.6000	5.21E-04	55.2882	18.5858	-3.40E-04	1100.	562973.	-20.1462	7727.	0.00
1.8000	4.55E-04	58.6024	14.5718	-3.20E-04	1166.	562973.	-19.9932	8779.	0.00
2.0000	3.94E-04	61.1169	10.5980	-2.98E-04	1216.	562973.	-19.7448	10032.	0.00
2.2000	3.36E-04	62.8416	6.6838	-2.76E-04	1250.	562973.	-19.3972	11542.	0.00
2.4000	2.83E-04	63.7904	2.8495	-2.54E-04	1269.	562973.	-18.9461	13385.	0.00
2.6000	2.35E-04	63.9814	-0.8837	-2.31E-04	1273.	562973.	-18.3855	15674.	0.00
2.8000	1.91E-04	63.4370	-4.4930	-2.08E-04	1262.	562973.	-17.7075	18577.	0.00
3.0000	1.51E-04	62.1842	-7.9537	-1.86E-04	1237.	562973.	-16.9002	22355.	0.00
3.2000	1.16E-04	60.2555	-11.2383	-1.64E-04	1199.	562973.	-15.9457	27453.	0.00
3.4000	8.54E-05	57.6889	-14.3143	-1.43E-04	1148.	562973.	-14.8139	34684.	0.00
3.6000	5.88E-05	54.5298	-17.1407	-1.24E-04	1085.	562973.	-13.4501	45769.	0.00
3.8000	3.60E-05	50.8326	-19.6596	-1.05E-04	1011.	562973.	-11.7390	65215.	0.00
4.0000	1.68E-05	46.6659	-21.7694	-8.75E-05	928.3888	562973.	-9.3588	111153.	0.00
4.2000	9.94E-07	42.1249	-23.0806	-7.17E-05	838.0475	562973.	-3.7532	755489.	0.00
4.4000	-1.19E-05	37.4337	-22.5801	-5.76E-05	744.7194	562973.	8.7577	147692.	0.00
4.6000	-2.21E-05	33.0928	-20.6005	-4.51E-05	658.3605	562973.	11.0391	100116.	0.00
4.8000	-2.99E-05	29.1935	-19.1204	-3.40E-05	580.7862	562973.	3.7617	25166.	0.00
5.0000	-3.57E-05	25.4447	-18.2768	-2.43E-05	506.2053	562973.	4.6744	26215.	0.00
5.2000	-3.96E-05	21.8828	-17.2692	-1.59E-05	435.3442	562973.	5.4012	27263.	0.00
5.4000	-4.20E-05	18.5370	-16.1342	-8.73E-06	368.7813	562973.	5.9493	28312.	0.00
5.6000	-4.31E-05	15.4291	-14.9063	-2.70E-06	306.9526	562973.	6.3294	29361.	0.00
5.8000	-4.31E-05	12.5745	-13.6179	2.28E-06	250.1608	562973.	6.5542	30409.	0.00
6.0000	-4.22E-05	9.9819	-12.2987	6.28E-06	198.5846	562973.	6.6384	31458.	0.00
6.2000	-4.06E-05	7.6550	-10.9751	9.41E-06	152.2910	562973.	6.5978	32506.	0.00
6.4000	-3.84E-05	5.5919	-9.6704	1.18E-05	111.2478	562973.	6.4491	33555.	0.00
6.6000	-3.59E-05	3.7868	-8.4045	1.34E-05	75.3367	562973.	6.2091	34604.	0.00
6.8000	-3.31E-05	2.2301	-7.1942	1.45E-05	44.3666	562973.	5.8943	35652.	0.00
7.0000	-3.01E-05	0.9091	-6.0527	1.51E-05	18.0870	562973.	5.5209	36701.	0.00
7.2000	-2.70E-05	-0.1910	-4.9902	1.52E-05	3.7993	562973.	5.1040	37749.	0.00
7.4000	-2.40E-05	-1.0869	-4.0140	1.50E-05	21.6238	562973.	4.6579	38798.	0.00
7.6000	-2.11E-05	-1.7966	-3.1287	1.44E-05	35.7418	562973.	4.1953	39847.	0.00
7.8000	-1.82E-05	-2.3384	-2.3364	1.37E-05	46.5212	562973.	3.7279	40895.	0.00
8.0000	-1.56E-05	-2.7311	-1.6370	1.28E-05	54.3341	562973.	3.2657	41944.	0.00
8.2000	-1.31E-05	-2.9932	-1.0287	1.18E-05	59.5482	562973.	2.8173	42992.	0.00
8.4000	-1.09E-05	-3.1426	-0.5080	1.07E-05	62.5204	562973.	2.3899	44041.	0.00
8.6000	-8.82E-06	-3.1964	-0.07008	9.58E-06	63.5907	562973.	1.9892	45090.	0.00
8.8000	-7.02E-06	-3.1706	0.2908	8.45E-06	63.0780	562973.	1.6197	46138.	0.00
9.0000	-5.44E-06	-3.0801	0.5812	7.34E-06	61.2765	562973.	1.2843	47187.	0.00
9.2000	-4.09E-06	-2.9382	0.8082	6.27E-06	58.4529	562973.	0.9852	48235.	0.00
9.4000	-2.94E-06	-2.7568	0.9790	5.26E-06	54.8453	562973.	0.7233	49284.	0.00
9.6000	-1.98E-06	-2.5466	1.1012	4.32E-06	50.6621	562973.	0.4987	50332.	0.00
9.8000	-1.21E-06	-2.3163	1.1821	3.45E-06	46.0820	562973.	0.3105	51381.	0.00
10.0000	-6.00E-07	-2.0737	1.2289	2.67E-06	41.2549	562973.	0.1574	52430.	0.00

10.2000	-1.39E-07	-1.8248	1.2484	1.98E-06	36.3024	562973.	0.03728	53478.	0.00
10.4000	1.92E-07	-1.5743	1.2469	1.38E-06	31.3204	562973.	-0.05232	54527.	0.00
10.6000	4.11E-07	-1.3260	1.2302	8.62E-07	26.3799	562973.	-0.1143	55575.	0.00
10.8000	5.37E-07	-1.0822	1.2036	4.34E-07	21.5304	562973.	-0.1519	56624.	0.00
11.0000	5.85E-07	-0.8446	1.1716	9.18E-08	16.8019	562973.	-0.1687	57673.	0.00
11.2000	5.73E-07	-0.6136	1.1379	-1.67E-07	12.2075	562973.	-0.1683	58721.	0.00
11.4000	5.18E-07	-0.3894	1.1055	-3.45E-07	7.7471	562973.	-0.1548	59770.	0.00
11.6000	4.35E-07	-0.1714	1.0768	-4.45E-07	3.4099	562973.	-0.1323	60818.	0.00
11.8000	3.40E-07	0.04132	0.8340	-4.68E-07	0.8219	562973.	-2.2954	1350000.	0.00
12.0000	2.48E-07	0.1622	0.4372	-4.32E-07	3.2272	562973.	-1.6733	1350000.	0.00
12.2000	1.67E-07	0.2162	0.1569	-3.65E-07	4.3009	562973.	-1.1290	1350000.	0.00
12.4000	1.02E-07	0.2250	-0.02480	-2.86E-07	4.4761	562973.	-0.6884	1350000.	0.00
12.6000	5.27E-08	0.2063	-0.1292	-2.10E-07	4.1035	562973.	-0.3557	1350000.	0.00
12.8000	1.81E-08	0.1733	-0.1770	-1.42E-07	3.4478	562973.	-0.1219	1350000.	0.00
13.0000	-4.26E-09	0.1355	-0.1863	-8.75E-08	2.6952	562973.	0.02872	1350000.	0.00
13.2000	-1.69E-08	0.09879	-0.1720	-4.59E-08	1.9653	562973.	0.1144	1350000.	0.00
13.4000	-2.26E-08	0.06668	-0.1453	-1.65E-08	1.3265	562973.	0.1527	1350000.	0.00
13.6000	-2.36E-08	0.04068	-0.1141	2.54E-09	0.8092	562973.	0.1590	1350000.	0.00
13.8000	-2.16E-08	0.02104	-0.08361	1.35E-08	0.4185	562973.	0.1459	1350000.	0.00
14.0000	-1.82E-08	0.00723	-0.05676	1.85E-08	0.1439	562973.	0.1226	1350000.	0.00
14.2000	-1.42E-08	-0.00166	-0.03491	1.95E-08	0.03312	562973.	0.09587	1350000.	0.00
14.4000	-1.04E-08	-0.00673	-0.01833	1.80E-08	0.1339	562973.	0.06993	1350000.	0.00
14.6000	-6.99E-09	-0.00900	-0.00662	1.52E-08	0.1790	562973.	0.04721	1350000.	0.00
14.8000	-4.27E-09	-0.00938	9.85E-04	1.20E-08	0.1866	562973.	0.02882	1350000.	0.00
15.0000	-2.21E-09	-0.00860	0.00536	8.77E-09	0.1712	562973.	0.01492	1350000.	0.00
15.2000	-7.62E-10	-0.00723	0.00737	5.95E-09	0.1439	562973.	0.00515	1350000.	0.00
15.4000	1.71E-10	-0.00566	0.00776	3.66E-09	0.1126	562973.	-0.00116	1350000.	0.00
15.6000	7.03E-10	-0.00413	0.00717	1.93E-09	0.08213	562973.	-0.00475	1350000.	0.00
15.8000	9.42E-10	-0.00279	0.00606	6.97E-10	0.05547	562973.	-0.00636	1350000.	0.00
16.0000	9.82E-10	-0.00170	0.00476	-1.01E-10	0.03388	562973.	-0.00663	1350000.	0.00
16.2000	9.02E-10	-8.82E-04	0.00349	-5.60E-10	0.01756	562973.	-0.00609	1350000.	0.00
16.4000	7.58E-10	-3.06E-04	0.00237	-7.71E-10	0.00608	562973.	-0.00512	1350000.	0.00
16.6000	5.93E-10	6.67E-05	0.00146	-8.13E-10	0.00133	562973.	-0.00400	1350000.	0.00
16.8000	4.33E-10	2.79E-04	7.68E-04	-7.52E-10	0.00555	562973.	-0.00292	1350000.	0.00
17.0000	2.92E-10	3.74E-04	2.79E-04	-6.36E-10	0.00744	562973.	-0.00197	1350000.	0.00
17.2000	1.79E-10	3.90E-04	-3.93E-05	-5.00E-10	0.00776	562973.	-0.00121	1350000.	0.00
17.4000	9.24E-11	3.58E-04	-2.22E-04	-3.67E-10	0.00713	562973.	-6.24E-04	1350000.	0.00
17.6000	3.17E-11	3.01E-04	-3.06E-04	-2.50E-10	0.00600	562973.	-2.14E-04	1350000.	0.00
17.8000	-7.57E-12	2.36E-04	-3.22E-04	-1.54E-10	0.00469	562973.	5.11E-05	1350000.	0.00
18.0000	-3.01E-11	1.73E-04	-2.97E-04	-8.19E-11	0.00343	562973.	2.03E-04	1350000.	0.00
18.2000	-4.03E-11	1.17E-04	-2.49E-04	-3.05E-11	0.00233	562973.	2.72E-04	1350000.	0.00
18.4000	-4.23E-11	7.28E-05	-1.94E-04	3.28E-12	0.00145	562973.	2.85E-04	1350000.	0.00
18.6000	-3.90E-11	3.98E-05	-1.39E-04	2.33E-11	7.92E-04	562973.	2.63E-04	1350000.	0.00
18.8000	-3.30E-11	1.73E-05	-9.01E-05	3.34E-11	3.45E-04	562973.	2.23E-04	1350000.	0.00

19.0000	-2.57E-11	3.76E-06	-5.05E-05	3.72E-11	7.48E-05	562973.	1.73E-04	1350000.	0.00
19.2000	-1.81E-11	-2.88E-06	-2.10E-05	3.73E-11	5.72E-05	562973.	1.22E-04	1350000.	0.00
19.4000	-1.07E-11	-4.62E-06	-1.49E-06	3.60E-11	9.20E-05	562973.	7.25E-05	1350000.	0.00
19.6000	-3.70E-12	-3.47E-06	8.26E-06	3.45E-11	6.91E-05	562973.	2.50E-05	1350000.	0.00
19.8000	3.08E-12	-1.32E-06	8.68E-06	3.37E-11	2.63E-05	562973.	-2.08E-05	1350000.	0.00
20.0000	9.77E-12	0.00	0.00	3.35E-11	0.00	562973.	-6.60E-05	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 1:

Pile-head deflection = 0.00115911 meters
Computed slope at pile head = -0.00043018 radians
Maximum bending moment = 63.98141604 kN-m
Maximum shear force = 50.00000000 kN
Depth of maximum bending moment = 2.60000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 16
Number of zero deflection points = 6

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 2

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 75.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00247	3.66E-11	75.0000	-8.17E-04	7.29E-10	562973.	-23.4947	950.9989	0.00
0.2000	0.00231	14.5301	70.2277	-8.14E-04	289.0673	562973.	-24.2279	2100.	0.00
0.4000	0.00214	28.0911	65.3171	-8.07E-04	558.8546	562973.	-24.8784	2320.	0.00
0.6000	0.00198	40.6569	60.2849	-7.95E-04	808.8443	562973.	-25.4433	2564.	0.00
0.8000	0.00183	52.2051	55.1486	-7.78E-04	1039.	562973.	-25.9202	2838.	0.00
1.0000	0.00167	62.7164	49.9259	-7.58E-04	1248.	562973.	-26.3062	3145.	0.00

1.2000	0.00152	72.1754	44.6354	-7.34E-04	1436.	562973.	-26.5991	3491.	0.00
1.4000	0.00138	80.5705	39.2959	-7.07E-04	1603.	562973.	-26.7963	3885.	0.00
1.6000	0.00124	87.8938	33.9267	-6.77E-04	1749.	562973.	-26.8952	4334.	0.00
1.8000	0.00111	94.1412	28.5479	-6.44E-04	1873.	562973.	-26.8934	4851.	0.00
2.0000	9.83E-04	99.3129	23.1797	-6.10E-04	1976.	562973.	-26.7882	5449.	0.00
2.2000	8.65E-04	103.4131	17.8432	-5.74E-04	2057.	562973.	-26.5767	6146.	0.00
2.4000	7.54E-04	106.4502	12.5600	-5.37E-04	2118.	562973.	-26.2557	6968.	0.00
2.6000	6.50E-04	108.4371	7.3523	-4.99E-04	2157.	562973.	-25.8214	7944.	0.00
2.8000	5.54E-04	109.3911	2.2432	-4.60E-04	2176.	562973.	-25.2694	9119.	0.00
3.0000	4.66E-04	109.3344	-2.7431	-4.21E-04	2175.	562973.	-24.5939	10553.	0.00
3.2000	3.86E-04	108.2939	-7.5813	-3.82E-04	2154.	562973.	-23.7873	12332.	0.00
3.4000	3.13E-04	106.3019	-12.2439	-3.44E-04	2115.	562973.	-22.8390	14587.	0.00
3.6000	2.48E-04	103.3963	-16.7012	-3.07E-04	2057.	562973.	-21.7335	17523.	0.00
3.8000	1.90E-04	99.6214	-20.9192	-2.71E-04	1982.	562973.	-20.4470	21486.	0.00
4.0000	1.40E-04	95.0287	-24.8579	-2.36E-04	1891.	562973.	-18.9397	27121.	0.00
4.2000	9.58E-05	89.6783	-28.4658	-2.04E-04	1784.	562973.	-17.1394	35796.	0.00
4.4000	5.82E-05	83.6423	-31.6690	-1.73E-04	1664.	562973.	-14.8929	51154.	0.00
4.6000	2.66E-05	77.0107	-34.3348	-1.44E-04	1532.	562973.	-11.7654	88345.	0.00
4.8000	5.15E-07	69.9084	-35.5179	-1.18E-04	1391.	562973.	-0.06478	25166.	0.00
5.0000	-2.06E-05	62.8035	-35.2538	-9.46E-05	1249.	562973.	2.7052	26215.	0.00
5.2000	-3.73E-05	55.8069	-34.4744	-7.35E-05	1110.	562973.	5.0886	27263.	0.00
5.4000	-5.01E-05	49.0138	-33.2570	-5.49E-05	975.0977	562973.	7.0858	28312.	0.00
5.6000	-5.93E-05	42.5041	-31.6779	-3.87E-05	845.5917	562973.	8.7052	29361.	0.00
5.8000	-6.55E-05	36.3426	-29.8111	-2.47E-05	723.0130	562973.	9.9623	30409.	0.00
6.0000	-6.92E-05	30.5796	-27.7271	-1.28E-05	608.3621	562973.	10.8786	31458.	0.00
6.2000	-7.06E-05	25.2518	-25.4912	-2.86E-06	502.3681	562973.	11.4799	32506.	0.00
6.4000	-7.03E-05	20.3831	-23.1637	5.25E-06	405.5095	562973.	11.7955	33555.	0.00
6.6000	-6.85E-05	15.9863	-20.7984	1.17E-05	318.0375	562973.	11.8572	34604.	0.00
6.8000	-6.56E-05	12.0638	-18.4429	1.67E-05	240.0011	562973.	11.6978	35652.	0.00
7.0000	-6.19E-05	8.6091	-16.1381	2.04E-05	171.2736	562973.	11.3506	36701.	0.00
7.2000	-5.75E-05	5.6086	-13.9182	2.29E-05	111.5786	562973.	10.8484	37749.	0.00
7.4000	-5.27E-05	3.0419	-11.8110	2.44E-05	60.5164	562973.	10.2231	38798.	0.00
7.6000	-4.77E-05	0.8841	-9.8382	2.51E-05	17.5896	562973.	9.5045	39847.	0.00
7.8000	-4.26E-05	-0.8934	-8.0157	2.51E-05	17.7739	562973.	8.7208	40895.	0.00
8.0000	-3.77E-05	-2.3221	-6.3539	2.46E-05	46.1975	562973.	7.8973	41944.	0.00
8.2000	-3.28E-05	-3.4350	-4.8585	2.35E-05	68.3366	562973.	7.0570	42992.	0.00
8.4000	-2.82E-05	-4.2655	-3.5308	2.22E-05	84.8600	562973.	6.2198	44041.	0.00
8.6000	-2.40E-05	-4.8473	-2.3685	2.05E-05	96.4337	562973.	5.4029	45090.	0.00
8.8000	-2.00E-05	-5.2129	-1.3662	1.88E-05	103.7080	562973.	4.6205	46138.	0.00
9.0000	-1.65E-05	-5.3938	-0.5157	1.69E-05	107.3054	562973.	3.8842	47187.	0.00
9.2000	-1.33E-05	-5.4192	0.1930	1.49E-05	107.8119	562973.	3.2030	48235.	0.00
9.4000	-1.05E-05	-5.3166	0.7716	1.30E-05	105.7695	562973.	2.5833	49284.	0.00
9.6000	-8.06E-06	-5.1106	1.2329	1.12E-05	101.6714	562973.	2.0293	50332.	0.00
9.8000	-6.01E-06	-4.8234	1.5901	9.43E-06	95.9584	562973.	1.5432	51381.	0.00

10.0000	-4.29E-06	-4.4745	1.8570	7.77E-06	89.0174	562973.	1.1254	52430.	0.00
10.2000	-2.90E-06	-4.0806	2.0470	6.26E-06	81.1808	562973.	0.7747	53478.	0.00
10.4000	-1.79E-06	-3.6557	2.1733	4.88E-06	72.7278	562973.	0.4883	54527.	0.00
10.6000	-9.45E-07	-3.2113	2.2484	3.66E-06	63.8862	562973.	0.2625	55575.	0.00
10.8000	-3.27E-07	-2.7563	2.2839	2.60E-06	54.8356	562973.	0.09247	56624.	0.00
11.0000	9.57E-08	-2.2977	2.2904	1.70E-06	45.7115	562973.	-0.02759	57673.	0.00
11.2000	3.55E-07	-1.8402	2.2772	9.68E-07	36.6094	562973.	-0.1041	58721.	0.00
11.4000	4.83E-07	-1.3868	2.2524	3.95E-07	27.5901	562973.	-0.1443	59770.	0.00
11.6000	5.13E-07	-0.9392	2.2223	-1.81E-08	18.6857	562973.	-0.1559	60818.	0.00
11.8000	4.76E-07	-0.4979	1.8856	-2.73E-07	9.9054	562973.	-3.2115	1350000.	0.00
12.0000	4.03E-07	-0.1850	1.2921	-3.95E-07	3.6807	562973.	-2.7231	1350000.	0.00
12.2000	3.18E-07	0.01895	0.8052	-4.24E-07	0.3769	562973.	-2.1460	1350000.	0.00
12.4000	2.34E-07	0.1371	0.4328	-3.96E-07	2.7269	562973.	-1.5779	1350000.	0.00
12.6000	1.59E-07	0.1921	0.1675	-3.38E-07	3.8211	562973.	-1.0756	1350000.	0.00
12.8000	9.86E-08	0.2041	-0.00663	-2.68E-07	4.0595	562973.	-0.6654	1350000.	0.00
13.0000	5.23E-08	0.1894	-0.1085	-1.98E-07	3.7684	562973.	-0.3530	1350000.	0.00
13.2000	1.95E-08	0.1607	-0.1569	-1.36E-07	3.1963	562973.	-0.1315	1350000.	0.00
13.4000	-1.92E-09	0.1266	-0.1688	-8.45E-08	2.5196	562973.	0.01293	1350000.	0.00
13.6000	-1.43E-08	0.09315	-0.1578	-4.55E-08	1.8532	562973.	0.09664	1350000.	0.00
13.8000	-2.01E-08	0.06352	-0.1346	-1.76E-08	1.2637	562973.	0.1357	1350000.	0.00
14.0000	-2.14E-08	0.03931	-0.1066	6.35E-10	0.7821	562973.	0.1442	1350000.	0.00
14.2000	-1.98E-08	0.02088	-0.07879	1.13E-08	0.4153	562973.	0.1340	1350000.	0.00
14.4000	-1.68E-08	0.00780	-0.05403	1.64E-08	0.1551	562973.	0.1137	1350000.	0.00
14.6000	-1.33E-08	-7.35E-04	-0.03370	1.77E-08	0.01462	562973.	0.08962	1350000.	0.00
14.8000	-9.77E-09	-0.00568	-0.01814	1.65E-08	0.1130	562973.	0.06593	1350000.	0.00
15.0000	-6.66E-09	-0.00799	-0.00705	1.41E-08	0.1590	562973.	0.04498	1350000.	0.00
15.2000	-4.13E-09	-0.00850	2.29E-04	1.12E-08	0.1692	562973.	0.02785	1350000.	0.00
15.4000	-2.19E-09	-0.00790	0.00449	8.26E-09	0.1572	562973.	0.01480	1350000.	0.00
15.6000	-8.21E-10	-0.00671	0.00653	5.67E-09	0.1334	562973.	0.00554	1350000.	0.00
15.8000	7.41E-11	-0.00529	0.00703	3.54E-09	0.1052	562973.	-5.00E-04	1350000.	0.00
16.0000	5.94E-10	-0.00389	0.00658	1.91E-09	0.07744	562973.	-0.00401	1350000.	0.00
16.2000	8.36E-10	-0.00266	0.00562	7.43E-10	0.05284	562973.	-0.00565	1350000.	0.00
16.4000	8.91E-10	-0.00165	0.00445	-2.16E-11	0.03274	562973.	-0.00601	1350000.	0.00
16.6000	8.28E-10	-8.75E-04	0.00329	-4.69E-10	0.01742	562973.	-0.00559	1350000.	0.00
16.8000	7.03E-10	-3.29E-04	0.00226	-6.83E-10	0.00654	562973.	-0.00474	1350000.	0.00
17.0000	5.54E-10	2.79E-05	0.00141	-7.37E-10	5.56E-04	562973.	-0.00374	1350000.	0.00
17.2000	4.08E-10	2.35E-04	7.60E-04	-6.90E-10	0.00468	562973.	-0.00275	1350000.	0.00
17.4000	2.78E-10	3.32E-04	2.97E-04	-5.89E-10	0.00660	562973.	-0.00188	1350000.	0.00
17.6000	1.72E-10	3.54E-04	-7.58E-06	-4.68E-10	0.00704	562973.	-0.00116	1350000.	0.00
17.8000	9.14E-11	3.29E-04	-1.86E-04	-3.46E-10	0.00654	562973.	-6.17E-04	1350000.	0.00
18.0000	3.39E-11	2.79E-04	-2.70E-04	-2.38E-10	0.00556	562973.	-2.29E-04	1350000.	0.00
18.2000	-3.82E-12	2.21E-04	-2.91E-04	-1.49E-10	0.00439	562973.	2.58E-05	1350000.	0.00
18.4000	-2.58E-11	1.63E-04	-2.71E-04	-8.11E-11	0.00325	562973.	1.74E-04	1350000.	0.00
18.6000	-3.62E-11	1.13E-04	-2.29E-04	-3.20E-11	0.00224	562973.	2.45E-04	1350000.	0.00

18.8000	-3.87E-11	7.18E-05	-1.78E-04	0.00	0.00143	562973.	2.61E-04	1350000.	0.00
19.0000	-3.60E-11	4.14E-05	-1.28E-04	2.08E-11	8.24E-04	562973.	2.43E-04	1350000.	0.00
19.2000	-3.03E-11	2.07E-05	-8.29E-05	3.19E-11	4.13E-04	562973.	2.05E-04	1350000.	0.00
19.4000	-2.32E-11	8.25E-06	-4.68E-05	3.70E-11	1.64E-04	562973.	1.57E-04	1350000.	0.00
19.6000	-1.55E-11	2.02E-06	-2.07E-05	3.89E-11	4.02E-05	562973.	1.05E-04	1350000.	0.00
19.8000	-7.66E-12	-2.42E-08	-5.05E-06	3.92E-11	4.82E-07	562973.	5.17E-05	1350000.	0.00
20.0000	0.00	0.00	0.00	3.92E-11	0.00	562973.	-1.21E-06	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 2:

Pile-head deflection = 0.00247053 meters
Computed slope at pile head = -0.00081706 radians
Maximum bending moment = 109.39114788 kN-m
Maximum shear force = 75.00000000 kN
Depth of maximum bending moment = 2.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 20
Number of zero deflection points = 6

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 3

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 100.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00425	-4.88E-11	100.0000	-0.00129	9.71E-10	562973.	-28.1432	662.7494	0.00
0.2000	0.00399	19.4371	94.2778	-0.00128	386.6895	562973.	-29.0786	1458.	0.00
0.4000	0.00373	37.7111	88.3774	-0.00127	750.2390	562973.	-29.9255	1603.	0.00
0.6000	0.00348	54.7881	82.3167	-0.00126	1090.	562973.	-30.6811	1763.	0.00
0.8000	0.00323	70.6378	76.1144	-0.00123	1405.	562973.	-31.3426	1941.	0.00

1.0000	0.00299	85.2338	69.7893	-0.00121	1696.	562973.	-31.9076	2137.	0.00
1.2000	0.00275	98.5536	63.3612	-0.00117	1961.	562973.	-32.3736	2357.	0.00
1.4000	0.00252	110.5783	56.8500	-0.00114	2200.	562973.	-32.7381	2602.	0.00
1.6000	0.00229	121.2936	50.2764	-0.00110	2413.	562973.	-32.9987	2879.	0.00
1.8000	0.00208	130.6889	43.6612	-0.00105	2600.	562973.	-33.1533	3192.	0.00
2.0000	0.00187	138.7580	37.0259	-0.00100	2761.	562973.	-33.1994	3547.	0.00
2.2000	0.00168	145.4992	30.3925	-9.53E-04	2895.	562973.	-33.1347	3954.	0.00
2.4000	0.00149	150.9150	23.7833	-9.00E-04	3002.	562973.	-32.9568	4422.	0.00
2.6000	0.00132	155.0126	17.2214	-8.46E-04	3084.	562973.	-32.6630	4964.	0.00
2.8000	0.00115	157.8036	10.7300	-7.90E-04	3139.	562973.	-32.2506	5598.	0.00
3.0000	1.00E-03	159.3046	4.3333	-7.34E-04	3169.	562973.	-31.7162	6344.	0.00
3.2000	8.59E-04	159.5369	-1.9439	-6.77E-04	3174.	562973.	-31.0560	7234.	0.00
3.4000	7.29E-04	158.5270	-8.0760	-6.21E-04	3154.	562973.	-30.2650	8305.	0.00
3.6000	6.10E-04	156.3065	-14.0362	-5.65E-04	3110.	562973.	-29.3368	9614.	0.00
3.8000	5.03E-04	152.9125	-19.7962	-5.10E-04	3042.	562973.	-28.2631	11242.	0.00
4.0000	4.06E-04	148.3880	-25.3256	-4.57E-04	2952.	562973.	-27.0314	13308.	0.00
4.2000	3.20E-04	142.7823	-30.5912	-4.05E-04	2841.	562973.	-25.6239	16005.	0.00
4.4000	2.44E-04	136.1515	-35.5547	-3.55E-04	2709.	562973.	-24.0119	19659.	0.00
4.6000	1.78E-04	128.5604	-40.1707	-3.08E-04	2558.	562973.	-22.1479	24877.	0.00
4.8000	1.21E-04	120.0832	-43.9077	-2.64E-04	2389.	562973.	-15.2212	25166.	0.00
5.0000	7.24E-05	110.9973	-46.3788	-2.23E-04	2208.	562973.	-9.4902	26215.	0.00
5.2000	3.17E-05	101.5317	-47.7603	-1.85E-04	2020.	562973.	-4.3250	27263.	0.00
5.4000	-1.73E-06	91.8932	-48.1683	-1.51E-04	1828.	562973.	0.2455	28312.	0.00
5.6000	-2.87E-05	82.2644	-47.7229	-1.20E-04	1637.	562973.	4.2084	29361.	0.00
5.8000	-4.98E-05	72.8040	-46.5455	-9.25E-05	1448.	562973.	7.5650	30409.	0.00
6.0000	-6.57E-05	63.6462	-44.7561	-6.83E-05	1266.	562973.	10.3291	31458.	0.00
6.2000	-7.71E-05	54.9016	-42.4707	-4.72E-05	1092.	562973.	12.5251	32506.	0.00
6.4000	-8.46E-05	46.6580	-39.7995	-2.92E-05	928.2307	562973.	14.1861	33555.	0.00
6.6000	-8.87E-05	38.9818	-36.8457	-1.40E-05	775.5179	562973.	15.3521	34604.	0.00
6.8000	-9.01E-05	31.9197	-33.7037	-1.37E-06	635.0219	562973.	16.0682	35652.	0.00
7.0000	-8.93E-05	25.5003	-30.4586	8.83E-06	507.3126	562973.	16.3828	36701.	0.00
7.2000	-8.66E-05	19.7363	-27.1857	1.69E-05	392.6403	562973.	16.3464	37749.	0.00
7.4000	-8.25E-05	14.6260	-23.9500	2.30E-05	290.9760	562973.	16.0100	38798.	0.00
7.6000	-7.74E-05	10.1562	-20.8066	2.74E-05	202.0520	562973.	15.4238	39847.	0.00
7.8000	-7.16E-05	6.3034	-17.8006	3.03E-05	125.4019	562973.	14.6364	40895.	0.00
8.0000	-6.53E-05	3.0360	-14.9676	3.20E-05	60.3991	562973.	13.6939	41944.	0.00
8.2000	-5.88E-05	0.3163	-12.3343	3.26E-05	6.2935	562973.	12.6391	42992.	0.00
8.4000	-5.23E-05	-1.8977	-9.9193	3.23E-05	37.7542	562973.	11.5113	44041.	0.00
8.6000	-4.59E-05	-3.6514	-7.7336	3.13E-05	72.6415	562973.	10.3454	45090.	0.00
8.8000	-3.98E-05	-4.9912	-5.7818	2.98E-05	99.2962	562973.	9.1724	46138.	0.00
9.0000	-3.40E-05	-5.9641	-4.0627	2.78E-05	118.6517	562973.	8.0189	47187.	0.00
9.2000	-2.86E-05	-6.6162	-2.5701	2.56E-05	131.6260	562973.	6.9070	48235.	0.00
9.4000	-2.38E-05	-6.9921	-1.2939	2.32E-05	139.1038	562973.	5.8548	49284.	0.00
9.6000	-1.94E-05	-7.1338	-0.2208	2.06E-05	141.9226	562973.	4.8766	50332.	0.00

9.8000	-1.55E-05	-7.0804	0.6651	1.81E-05	140.8607	562973.	3.9825	51381.	0.00
10.0000	-1.21E-05	-6.8678	1.3814	1.56E-05	136.6296	562973.	3.1798	52430.	0.00
10.2000	-9.25E-06	-6.5279	1.9466	1.33E-05	129.8681	562973.	2.4721	53478.	0.00
10.4000	-6.82E-06	-6.0891	2.3798	1.10E-05	121.1394	562973.	1.8607	54527.	0.00
10.6000	-4.84E-06	-5.5760	2.7003	8.95E-06	110.9301	562973.	1.3440	55575.	0.00
10.8000	-3.25E-06	-5.0090	2.9266	7.07E-06	99.6511	562973.	0.9187	56624.	0.00
11.0000	-2.01E-06	-4.4053	3.0764	5.40E-06	87.6411	562973.	0.5794	57673.	0.00
11.2000	-1.09E-06	-3.7785	3.1662	3.94E-06	75.1700	562973.	0.3190	58721.	0.00
11.4000	-4.32E-07	-3.1388	3.2110	2.71E-06	62.4451	562973.	0.1291	59770.	0.00
11.6000	-6.96E-10	-2.4940	3.2240	1.71E-06	49.6174	562973.	2.12E-04	60818.	0.00
11.8000	2.53E-07	-1.8492	3.0529	9.42E-07	36.7895	562973.	-1.7108	1350000.	0.00
12.0000	3.76E-07	-1.2729	2.6279	3.88E-07	25.3231	562973.	-2.5394	1350000.	0.00
12.2000	4.09E-07	-0.7981	2.0982	1.98E-08	15.8774	562973.	-2.7575	1350000.	0.00
12.4000	3.84E-07	-0.4336	1.5632	-1.99E-07	8.6260	562973.	-2.5928	1350000.	0.00
12.6000	3.29E-07	-0.1728	1.0819	-3.07E-07	3.4379	562973.	-2.2202	1350000.	0.00
12.8000	2.61E-07	-8.33E-04	0.6834	-3.38E-07	0.01658	562973.	-1.7648	1350000.	0.00
13.0000	1.94E-07	0.1005	0.3760	-3.20E-07	2.0004	562973.	-1.3089	1350000.	0.00
13.2000	1.34E-07	0.1496	0.1550	-2.75E-07	2.9757	562973.	-0.9012	1350000.	0.00
13.4000	8.38E-08	0.1626	0.00836	-2.20E-07	3.2339	562973.	-0.5653	1350000.	0.00
13.6000	4.55E-08	0.1529	-0.07891	-1.64E-07	3.0422	562973.	-0.3074	1350000.	0.00
13.8000	1.82E-08	0.1310	-0.1219	-1.13E-07	2.6059	562973.	-0.1228	1350000.	0.00
14.0000	1.46E-10	0.1041	-0.1343	-7.17E-08	2.0719	562973.	-9.83E-04	1350000.	0.00
14.2000	-1.05E-08	0.07727	-0.1273	-3.95E-08	1.5372	562973.	0.07086	1350000.	0.00
14.4000	-1.57E-08	0.05322	-0.1097	-1.63E-08	1.0588	562973.	0.1056	1350000.	0.00
14.6000	-1.70E-08	0.03340	-0.08762	-9.25E-10	0.6645	562973.	0.1149	1350000.	0.00
14.8000	-1.60E-08	0.01817	-0.06531	8.24E-09	0.3616	562973.	0.1081	1350000.	0.00
15.0000	-1.37E-08	0.00727	-0.04523	1.28E-08	0.1447	562973.	0.09266	1350000.	0.00
15.2000	-1.09E-08	8.12E-05	-0.02860	1.41E-08	0.00162	562973.	0.07369	1350000.	0.00
15.4000	-8.10E-09	-0.00416	-0.01576	1.33E-08	0.08285	562973.	0.05469	1350000.	0.00
15.6000	-5.58E-09	-0.00622	-0.00652	1.15E-08	0.1238	562973.	0.03768	1350000.	0.00
15.8000	-3.51E-09	-0.00677	-3.88E-04	9.18E-09	0.1347	562973.	0.02366	1350000.	0.00
16.0000	-1.91E-09	-0.00638	0.00327	6.85E-09	0.1269	562973.	0.01288	1350000.	0.00
16.2000	-7.66E-10	-0.00547	0.00507	4.74E-09	0.1088	562973.	0.00517	1350000.	0.00
16.4000	-1.09E-11	-0.00435	0.00560	3.00E-09	0.08651	562973.	7.39E-05	1350000.	0.00
16.6000	4.35E-10	-0.00323	0.00531	1.66E-09	0.06422	562973.	-0.00293	1350000.	0.00
16.8000	6.51E-10	-0.00222	0.00458	6.87E-10	0.04426	562973.	-0.00440	1350000.	0.00
17.0000	7.09E-10	-0.00140	0.00366	4.34E-11	0.02780	562973.	-0.00479	1350000.	0.00
17.2000	6.69E-10	-7.61E-04	0.00273	-3.40E-10	0.01515	562973.	-0.00451	1350000.	0.00
17.4000	5.73E-10	-3.06E-04	0.00189	-5.30E-10	0.00609	562973.	-0.00387	1350000.	0.00
17.6000	4.57E-10	-5.32E-06	0.00119	-5.85E-10	1.06E-04	562973.	-0.00308	1350000.	0.00
17.8000	3.40E-10	1.72E-04	6.57E-04	-5.55E-10	0.00342	562973.	-0.00229	1350000.	0.00
18.0000	2.35E-10	2.58E-04	2.70E-04	-4.79E-10	0.00512	562973.	-0.00158	1350000.	0.00
18.2000	1.48E-10	2.80E-04	1.14E-05	-3.84E-10	0.00557	562973.	-9.99E-04	1350000.	0.00
18.4000	8.12E-11	2.62E-04	-1.43E-04	-2.87E-10	0.00521	562973.	-5.48E-04	1350000.	0.00

18.6000	3.30E-11	2.22E-04	-2.20E-04	-2.01E-10	0.00443	562973.	-2.23E-04	1350000.	0.00
18.8000	0.00	1.74E-04	-2.43E-04	-1.31E-10	0.00346	562973.	-4.64E-06	1350000.	0.00
19.0000	-1.93E-11	1.25E-04	-2.31E-04	-7.77E-11	0.00249	562973.	1.30E-04	1350000.	0.00
19.2000	-3.04E-11	8.17E-05	-1.97E-04	-4.10E-11	0.00162	562973.	2.05E-04	1350000.	0.00
19.4000	-3.57E-11	4.64E-05	-1.52E-04	-1.82E-11	9.22E-04	562973.	2.41E-04	1350000.	0.00
19.6000	-3.77E-11	2.07E-05	-1.03E-04	-6.32E-12	4.11E-04	562973.	2.54E-04	1350000.	0.00
19.8000	-3.82E-11	5.18E-06	-5.17E-05	-1.73E-12	1.03E-04	562973.	2.58E-04	1350000.	0.00
20.0000	-3.84E-11	0.00	0.00	0.00	0.00	562973.	2.59E-04	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 3:

Pile-head deflection = 0.00424644 meters
Computed slope at pile head = -0.00128708 radians
Maximum bending moment = 159.53688764 kN-m
Maximum shear force = 100.00000000 kN
Depth of maximum bending moment = 3.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 20
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 4

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 125.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00640	-2.44E-11	125.0000	-0.00183	4.86E-10	562973.	-32.2703	504.0498	0.00
0.2000	0.00604	24.3546	118.4345	-0.00182	484.5192	562973.	-33.3845	1106.	0.00
0.4000	0.00567	47.3738	111.6556	-0.00181	942.4719	562973.	-34.4047	1213.	0.00
0.6000	0.00531	69.0168	104.6823	-0.00179	1373.	562973.	-35.3279	1330.	0.00

0.8000	0.00496	89.2467	97.5344	-0.00176	1776.	562973.	-36.1513	1459.	0.00
1.0000	0.00461	108.0306	90.2321	-0.00173	2149.	562973.	-36.8722	1600.	0.00
1.2000	0.00427	125.3396	82.7961	-0.00169	2494.	562973.	-37.4879	1757.	0.00
1.4000	0.00393	141.1490	75.2477	-0.00164	2808.	562973.	-37.9961	1932.	0.00
1.6000	0.00361	155.4386	67.6087	-0.00159	3092.	562973.	-38.3941	2127.	0.00
1.8000	0.00330	168.1925	59.9013	-0.00153	3346.	562973.	-38.6796	2345.	0.00
2.0000	0.00300	179.3992	52.1483	-0.00147	3569.	562973.	-38.8500	2590.	0.00
2.2000	0.00271	189.0518	44.3730	-0.00140	3761.	562973.	-38.9032	2868.	0.00
2.4000	0.00244	197.1484	36.5990	-0.00133	3922.	562973.	-38.8365	3184.	0.00
2.6000	0.00218	203.6914	28.8506	-0.00126	4052.	562973.	-38.6475	3545.	0.00
2.8000	0.00194	208.6886	21.1525	-0.00119	4152.	562973.	-38.3335	3962.	0.00
3.0000	0.00171	212.1525	13.5300	-0.00111	4221.	562973.	-37.8916	4445.	0.00
3.2000	0.00149	214.1006	6.0090	-0.00104	4259.	562973.	-37.3184	5009.	0.00
3.4000	0.00129	214.5561	-1.3838	-9.61E-04	4268.	562973.	-36.6102	5675.	0.00
3.6000	0.00111	213.5471	-8.6211	-8.85E-04	4248.	562973.	-35.7622	6469.	0.00
3.8000	9.36E-04	211.1076	-15.6742	-8.10E-04	4200.	562973.	-34.7688	7427.	0.00
4.0000	7.82E-04	207.2774	-22.5133	-7.35E-04	4124.	562973.	-33.6221	8601.	0.00
4.2000	6.42E-04	202.1023	-29.1067	-6.62E-04	4021.	562973.	-32.3119	10064.	0.00
4.4000	5.17E-04	195.6348	-35.4202	-5.92E-04	3892.	562973.	-30.8234	11928.	0.00
4.6000	4.05E-04	187.9343	-41.4160	-5.24E-04	3739.	562973.	-29.1345	14373.	0.00
4.8000	3.07E-04	179.0684	-47.7952	-4.59E-04	3562.	562973.	-34.6574	22553.	0.00
5.0000	2.22E-04	168.8162	-54.1707	-3.97E-04	3358.	562973.	-29.0983	26215.	0.00
5.2000	1.49E-04	157.4001	-59.1069	-3.39E-04	3131.	562973.	-20.2635	27263.	0.00
5.4000	8.65E-05	145.1734	-62.3575	-2.85E-04	2888.	562973.	-12.2428	28312.	0.00
5.6000	3.46E-05	132.4571	-64.0902	-2.36E-04	2635.	562973.	-5.0844	29361.	0.00
5.8000	-7.81E-06	119.5373	-64.4800	-1.91E-04	2378.	562973.	1.1868	30409.	0.00
6.0000	-4.18E-05	106.6651	-63.7046	-1.51E-04	2122.	562973.	6.5670	31458.	0.00
6.2000	-6.81E-05	94.0555	-61.9408	-1.15E-04	1871.	562973.	11.0714	32506.	0.00
6.4000	-8.78E-05	81.8888	-59.3605	-8.39E-05	1629.	562973.	14.7312	33555.	0.00
6.6000	-1.02E-04	70.3113	-56.1283	-5.68E-05	1399.	562973.	17.5906	34604.	0.00
6.8000	-1.11E-04	59.4374	-52.3988	-3.38E-05	1182.	562973.	19.7049	35652.	0.00
7.0000	-1.15E-04	49.3518	-48.3146	-1.45E-05	981.8223	562973.	21.1373	36701.	0.00
7.2000	-1.16E-04	40.1116	-44.0052	1.42E-06	797.9951	562973.	21.9566	37749.	0.00
7.4000	-1.15E-04	31.7497	-39.5860	1.42E-05	631.6402	562973.	22.2349	38798.	0.00
7.6000	-1.11E-04	24.2772	-35.1579	2.41E-05	482.9794	562973.	22.0459	39847.	0.00
7.8000	-1.05E-04	17.6865	-30.8071	3.16E-05	351.8622	562973.	21.4626	40895.	0.00
8.0000	-9.80E-05	11.9544	-26.6052	3.69E-05	237.8244	562973.	20.5561	41944.	0.00
8.2000	-9.02E-05	7.0444	-22.6102	4.02E-05	140.1446	562973.	19.3942	42992.	0.00
8.4000	-8.19E-05	2.9103	-18.8667	4.20E-05	57.8983	562973.	18.0404	44041.	0.00
8.6000	-7.34E-05	-0.5022	-15.4074	4.24E-05	9.9919	562973.	16.5529	45090.	0.00
8.8000	-6.50E-05	-3.2527	-12.2537	4.18E-05	64.7098	562973.	14.9844	46138.	0.00
9.0000	-5.67E-05	-5.4037	-9.4170	4.02E-05	107.5035	562973.	13.3818	47187.	0.00
9.2000	-4.89E-05	-7.0195	-6.9003	3.80E-05	139.6483	562973.	11.7853	48235.	0.00
9.4000	-4.15E-05	-8.1638	-4.6989	3.53E-05	162.4146	562973.	10.2294	49284.	0.00

9.6000	-3.47E-05	-8.8990	-2.8017	3.23E-05	177.0407	562973.	8.7424	50332.	0.00
9.8000	-2.86E-05	-9.2845	-1.1928	2.91E-05	184.7098	562973.	7.3468	51381.	0.00
10.0000	-2.31E-05	-9.3761	0.1479	2.57E-05	186.5325	562973.	6.0597	52430.	0.00
10.2000	-1.83E-05	-9.2254	1.2432	2.24E-05	183.5331	562973.	4.8932	53478.	0.00
10.4000	-1.41E-05	-8.8789	2.1180	1.92E-05	176.6398	562973.	3.8550	54527.	0.00
10.6000	-1.06E-05	-8.3782	2.7983	1.62E-05	166.6787	562973.	2.9485	55575.	0.00
10.8000	-7.68E-06	-7.7595	3.3105	1.33E-05	154.3713	562973.	2.1735	56624.	0.00
11.0000	-5.29E-06	-7.0540	3.6805	1.07E-05	140.3343	562973.	1.5267	57673.	0.00
11.2000	-3.41E-06	-6.2873	3.9334	8.29E-06	125.0825	562973.	1.0020	58721.	0.00
11.4000	-1.98E-06	-5.4806	4.0927	6.20E-06	109.0332	562973.	0.5912	59770.	0.00
11.6000	-9.33E-07	-4.6502	4.1802	4.40E-06	92.5134	562973.	0.2837	60818.	0.00
11.8000	-2.18E-07	-3.8085	4.3559	2.90E-06	75.7679	562973.	1.4726	1350000.	0.00
12.0000	2.26E-07	-2.9079	4.3505	1.70E-06	57.8505	562973.	-1.5260	1350000.	0.00
12.2000	4.64E-07	-2.0683	3.8849	8.21E-07	41.1475	562973.	-3.1300	1350000.	0.00
12.4000	5.54E-07	-1.3539	3.1977	2.13E-07	26.9353	562973.	-3.7421	1350000.	0.00
12.6000	5.49E-07	-0.7892	2.4530	-1.68E-07	15.7009	562973.	-3.7048	1350000.	0.00
12.8000	4.87E-07	-0.3727	1.7536	-3.74E-07	7.4147	562973.	-3.2890	1350000.	0.00
13.0000	3.99E-07	-0.08776	1.1553	-4.56E-07	1.7459	562973.	-2.6945	1350000.	0.00
13.2000	3.05E-07	0.08941	0.6800	-4.56E-07	1.7787	562973.	-2.0579	1350000.	0.00
13.4000	2.17E-07	0.1843	0.3278	-4.07E-07	3.6657	562973.	-1.4642	1350000.	0.00
13.6000	1.42E-07	0.2205	0.08552	-3.35E-07	4.3875	562973.	-0.9588	1350000.	0.00
13.8000	8.29E-08	0.2185	-0.06629	-2.57E-07	4.3462	562973.	-0.5593	1350000.	0.00
14.0000	3.92E-08	0.1940	-0.1487	-1.84E-07	3.8599	562973.	-0.2645	1350000.	0.00
14.2000	9.29E-09	0.1590	-0.1814	-1.21E-07	3.1632	562973.	-0.06270	1350000.	0.00
14.4000	-9.30E-09	0.1215	-0.1814	-7.14E-08	2.4166	562973.	0.06281	1350000.	0.00
14.6000	-1.93E-08	0.08645	-0.1621	-3.45E-08	1.7199	562973.	0.1301	1350000.	0.00
14.8000	-2.31E-08	0.05664	-0.1335	-9.04E-09	1.1267	562973.	0.1558	1350000.	0.00
15.0000	-2.29E-08	0.03305	-0.1025	6.89E-09	0.6576	562973.	0.1545	1350000.	0.00
15.2000	-2.03E-08	0.01565	-0.07330	1.55E-08	0.3113	562973.	0.1372	1350000.	0.00
15.4000	-1.67E-08	0.00374	-0.04832	1.90E-08	0.07432	562973.	0.1125	1350000.	0.00
15.6000	-1.27E-08	-0.00368	-0.02848	1.90E-08	0.07320	562973.	0.08597	1350000.	0.00
15.8000	-9.07E-09	-0.00766	-0.01376	1.70E-08	0.1523	562973.	0.06120	1350000.	0.00
16.0000	-5.94E-09	-0.00918	-0.00363	1.40E-08	0.1827	562973.	0.04011	1350000.	0.00
16.2000	-3.47E-09	-0.00911	0.00272	1.07E-08	0.1812	562973.	0.02342	1350000.	0.00
16.4000	-1.65E-09	-0.00809	0.00618	7.69E-09	0.1610	562973.	0.01111	1350000.	0.00
16.6000	-3.95E-10	-0.00664	0.00755	5.07E-09	0.1320	562973.	0.00267	1350000.	0.00
16.8000	3.83E-10	-0.00507	0.00756	2.99E-09	0.1009	562973.	-0.00259	1350000.	0.00
17.0000	8.01E-10	-0.00361	0.00676	1.45E-09	0.07185	562973.	-0.00541	1350000.	0.00
17.2000	9.63E-10	-0.00237	0.00557	3.87E-10	0.04709	562973.	-0.00650	1350000.	0.00
17.4000	9.56E-10	-0.00138	0.00428	-2.79E-10	0.02750	562973.	-0.00645	1350000.	0.00
17.6000	8.51E-10	-6.56E-04	0.00306	-6.41E-10	0.01305	562973.	-0.00574	1350000.	0.00
17.8000	6.99E-10	-1.59E-04	0.00201	-7.86E-10	0.00317	562973.	-0.00472	1350000.	0.00
18.0000	5.36E-10	1.49E-04	0.00118	-7.88E-10	0.00296	562973.	-0.00362	1350000.	0.00
18.2000	3.84E-10	3.12E-04	5.57E-04	-7.06E-10	0.00620	562973.	-0.00259	1350000.	0.00

18.4000	2.54E-10	3.71E-04	1.26E-04	-5.85E-10	0.00739	562973.	-0.00171	1350000.	0.00
18.6000	1.50E-10	3.62E-04	-1.47E-04	-4.55E-10	0.00721	562973.	-0.00101	1350000.	0.00
18.8000	7.20E-11	3.13E-04	-2.96E-04	-3.35E-10	0.00622	562973.	-4.86E-04	1350000.	0.00
19.0000	1.61E-11	2.44E-04	-3.56E-04	-2.36E-10	0.00485	562973.	-1.09E-04	1350000.	0.00
19.2000	-2.24E-11	1.70E-04	-3.52E-04	-1.62E-10	0.00339	562973.	1.51E-04	1350000.	0.00
19.4000	-4.88E-11	1.03E-04	-3.04E-04	-1.14E-10	0.00205	562973.	3.29E-04	1350000.	0.00
19.6000	-6.79E-11	4.90E-05	-2.25E-04	-8.67E-11	9.75E-04	562973.	4.58E-04	1350000.	0.00
19.8000	-8.35E-11	1.32E-05	-1.23E-04	-7.56E-11	2.64E-04	562973.	5.63E-04	1350000.	0.00
20.0000	-9.81E-11	0.00	0.00	-7.33E-11	0.00	562973.	6.62E-04	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 4:

Pile-head deflection = 0.00640221 meters
Computed slope at pile head = -0.00182771 radians
Maximum bending moment = 214.55606549 kN-m
Maximum shear force = 125.00000000 kN
Depth of maximum bending moment = 3.40000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 20
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 5

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 150.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00889	9.77E-11	150.0000	-0.00243	1.94E-09	562973.	-36.0081	404.8369	0.00
0.2000	0.00841	29.2798	142.6708	-0.00242	582.5039	562973.	-37.2842	886.7847	0.00
0.4000	0.00793	57.0683	135.0962	-0.00241	1135.	562973.	-38.4611	970.5895	0.00

0.6000	0.00745	83.3183	127.2965	-0.00238	1658.	562973.	-39.5358	1062.	0.00
0.8000	0.00697	107.9869	119.2924	-0.00235	2148.	562973.	-40.5053	1162.	0.00
1.0000	0.00651	131.0353	111.1052	-0.00231	2607.	562973.	-41.3667	1272.	0.00
1.2000	0.00605	152.4290	102.7568	-0.00226	3032.	562973.	-42.1172	1392.	0.00
1.4000	0.00560	172.1380	94.2697	-0.00220	3425.	562973.	-42.7542	1526.	0.00
1.6000	0.00517	190.1369	85.6668	-0.00213	3783.	562973.	-43.2749	1674.	0.00
1.8000	0.00475	206.4048	76.9716	-0.00206	4106.	562973.	-43.6768	1839.	0.00
2.0000	0.00435	220.9255	68.2082	-0.00199	4395.	562973.	-43.9572	2023.	0.00
2.2000	0.00396	233.6880	59.4011	-0.00191	4649.	562973.	-44.1136	2230.	0.00
2.4000	0.00358	244.6860	50.5754	-0.00182	4868.	562973.	-44.1435	2464.	0.00
2.6000	0.00323	253.9182	41.7567	-0.00173	5052.	562973.	-44.0440	2730.	0.00
2.8000	0.00289	261.3887	32.9710	-0.00164	5200.	562973.	-43.8125	3033.	0.00
3.0000	0.00257	267.1066	24.2452	-0.00155	5314.	562973.	-43.4459	3381.	0.00
3.2000	0.00227	271.0868	15.6065	-0.00145	5393.	562973.	-42.9410	3783.	0.00
3.4000	0.00199	273.3492	7.0830	-0.00136	5438.	562973.	-42.2942	4252.	0.00
3.6000	0.00173	273.9199	-1.2966	-0.00126	5449.	562973.	-41.5013	4804.	0.00
3.8000	0.00149	272.8306	-9.5024	-0.00116	5428.	562973.	-40.5572	5459.	0.00
4.0000	0.00126	270.1190	-17.5037	-0.00106	5374.	562973.	-39.4557	6246.	0.00
4.2000	0.00106	265.8291	-25.2682	-9.69E-04	5289.	562973.	-38.1889	7204.	0.00
4.4000	8.76E-04	260.0117	-32.7617	-8.76E-04	5173.	562973.	-36.7462	8393.	0.00
4.6000	7.10E-04	252.7244	-39.9476	-7.85E-04	5028.	562973.	-35.1129	9895.	0.00
4.8000	5.62E-04	244.0327	-48.4593	-6.97E-04	4855.	562973.	-50.0045	17805.	0.00
5.0000	4.31E-04	233.3407	-58.0751	-6.12E-04	4642.	562973.	-46.1531	21417.	0.00
5.2000	3.17E-04	220.8026	-66.8280	-5.31E-04	4393.	562973.	-41.3762	26114.	0.00
5.4000	2.18E-04	206.6095	-74.0584	-4.55E-04	4110.	562973.	-30.9272	28312.	0.00
5.6000	1.35E-04	191.1793	-79.1290	-3.85E-04	3803.	562973.	-19.7796	29361.	0.00
5.8000	6.46E-05	174.9579	-82.0889	-3.20E-04	3481.	562973.	-9.8193	30409.	0.00
6.0000	6.86E-06	158.3437	-83.1787	-2.60E-04	3150.	562973.	-1.0787	31458.	0.00
6.2000	-3.96E-05	141.6864	-82.6427	-2.07E-04	2819.	562973.	6.4387	32506.	0.00
6.4000	-7.60E-05	125.2866	-80.7234	-1.60E-04	2492.	562973.	12.7544	33555.	0.00
6.6000	-1.04E-04	109.3970	-77.6568	-1.18E-04	2176.	562973.	17.9117	34604.	0.00
6.8000	-1.23E-04	94.2239	-73.6685	-8.19E-05	1875.	562973.	21.9718	35652.	0.00
7.0000	-1.36E-04	79.9296	-68.9703	-5.10E-05	1590.	562973.	25.0103	36701.	0.00
7.2000	-1.44E-04	66.6358	-63.7579	-2.50E-05	1326.	562973.	27.1135	37749.	0.00
7.4000	-1.46E-04	54.4265	-58.2090	-3.45E-06	1083.	562973.	28.3755	38798.	0.00
7.6000	-1.45E-04	43.3522	-52.4820	1.39E-05	862.4643	562973.	28.8945	39847.	0.00
7.8000	-1.41E-04	33.4337	-46.7155	2.76E-05	665.1419	562973.	28.7707	40895.	0.00
8.0000	-1.34E-04	24.6660	-41.0281	3.79E-05	490.7145	562973.	28.1033	41944.	0.00
8.2000	-1.26E-04	17.0225	-35.5188	4.53E-05	338.6510	562973.	26.9889	42992.	0.00
8.4000	-1.16E-04	10.4585	-30.2680	5.02E-05	208.0646	562973.	25.5196	44041.	0.00
8.6000	-1.05E-04	4.9153	-25.3379	5.29E-05	97.7861	562973.	23.7814	45090.	0.00
8.8000	-9.47E-05	0.3233	-20.7744	5.38E-05	6.4323	562973.	21.8536	46138.	0.00
9.0000	-8.40E-05	-3.3945	-16.6082	5.33E-05	67.5310	562973.	19.8076	47187.	0.00
9.2000	-7.34E-05	-6.3200	-12.8568	5.16E-05	125.7320	562973.	17.7067	48235.	0.00

9.4000	-6.33E-05	-8.5372	-9.5256	4.89E-05	169.8424	562973.	15.6060	49284.	0.00
9.6000	-5.39E-05	-10.1302	-6.6097	4.56E-05	201.5339	562973.	13.5522	50332.	0.00
9.8000	-4.51E-05	-11.1811	-4.0961	4.18E-05	222.4410	562973.	11.5839	51381.	0.00
10.0000	-3.71E-05	-11.7687	-1.9646	3.77E-05	234.1299	562973.	9.7319	52430.	0.00
10.2000	-3.00E-05	-11.9669	-0.1894	3.35E-05	238.0744	562973.	8.0201	53478.	0.00
10.4000	-2.37E-05	-11.8444	1.2592	2.93E-05	235.6367	562973.	6.4652	54527.	0.00
10.6000	-1.83E-05	-11.4633	2.4135	2.52E-05	228.0541	562973.	5.0784	55575.	0.00
10.8000	-1.37E-05	-10.8790	3.3079	2.12E-05	216.4303	562973.	3.8652	56624.	0.00
11.0000	-9.80E-06	-10.1401	3.9771	1.75E-05	201.7306	562973.	2.8263	57673.	0.00
11.2000	-6.67E-06	-9.2881	4.4556	1.40E-05	184.7819	562973.	1.9587	58721.	0.00
11.4000	-4.20E-06	-8.3579	4.7770	1.09E-05	166.2744	562973.	1.2554	59770.	0.00
11.6000	-2.32E-06	-7.3774	4.9732	8.07E-06	146.7680	562973.	0.7068	60818.	0.00
11.8000	-9.72E-07	-6.3686	5.6998	5.63E-06	126.6992	562973.	6.5596	1350000.	0.00
12.0000	-7.19E-08	-5.0974	6.4043	3.59E-06	101.4104	562973.	0.4856	1350000.	0.00
12.2000	4.66E-07	-3.8069	6.1385	2.01E-06	75.7351	562973.	-3.1436	1350000.	0.00
12.4000	7.33E-07	-2.6420	5.3295	8.67E-07	52.5615	562973.	-4.9472	1350000.	0.00
12.6000	8.12E-07	-1.6751	4.2864	9.98E-08	33.3247	562973.	-5.4836	1350000.	0.00
12.8000	7.73E-07	-0.9275	3.2164	-3.62E-07	18.4516	562973.	-5.2166	1350000.	0.00
13.0000	6.67E-07	-0.3885	2.2442	-5.96E-07	7.7297	562973.	-4.5049	1350000.	0.00
13.2000	5.34E-07	-0.02980	1.4330	-6.71E-07	0.5928	562973.	-3.6068	1350000.	0.00
13.4000	3.99E-07	0.1847	0.8029	-6.43E-07	3.6740	562973.	-2.6944	1350000.	0.00
13.6000	2.77E-07	0.2914	0.3464	-5.58E-07	5.7966	562973.	-1.8706	1350000.	0.00
13.8000	1.76E-07	0.3232	0.04071	-4.49E-07	6.4307	562973.	-1.1865	1350000.	0.00
14.0000	9.74E-08	0.3077	-0.1437	-3.37E-07	6.1206	562973.	-0.6574	1350000.	0.00
14.2000	4.09E-08	0.2658	-0.2370	-2.35E-07	5.2873	562973.	-0.2759	1350000.	0.00
14.4000	3.24E-09	0.2128	-0.2668	-1.50E-07	4.2345	562973.	-0.02189	1350000.	0.00
14.6000	-1.93E-08	0.1591	-0.2560	-8.43E-08	3.1642	562973.	0.1301	1350000.	0.00
14.8000	-3.05E-08	0.1105	-0.2224	-3.64E-08	2.1975	562973.	0.2058	1350000.	0.00
15.0000	-3.38E-08	0.07009	-0.1790	-4.37E-09	1.3945	562973.	0.2285	1350000.	0.00
15.2000	-3.22E-08	0.03887	-0.1344	1.50E-08	0.7732	562973.	0.2175	1350000.	0.00
15.4000	-2.79E-08	0.01634	-0.09382	2.48E-08	0.3251	562973.	0.1880	1350000.	0.00
15.6000	-2.23E-08	0.00134	-0.05996	2.79E-08	0.02665	562973.	0.1506	1350000.	0.00
15.8000	-1.67E-08	-0.00764	-0.03364	2.68E-08	0.1520	562973.	0.1126	1350000.	0.00
16.0000	-1.16E-08	-0.01212	-0.01456	2.33E-08	0.2411	562973.	0.07821	1350000.	0.00
16.2000	-7.36E-09	-0.01347	-0.00178	1.88E-08	0.2679	562973.	0.04965	1350000.	0.00
16.4000	-4.08E-09	-0.01283	0.00594	1.41E-08	0.2552	562973.	0.02755	1350000.	0.00
16.6000	-1.72E-09	-0.01109	0.00986	9.84E-09	0.2206	562973.	0.01161	1350000.	0.00
16.8000	-1.45E-10	-0.00888	0.01112	6.29E-09	0.1767	562973.	9.78E-04	1350000.	0.00
17.0000	7.98E-10	-0.00664	0.01068	3.54E-09	0.1321	562973.	-0.00539	1350000.	0.00
17.2000	1.27E-09	-0.00461	0.00928	1.54E-09	0.09178	562973.	-0.00857	1350000.	0.00
17.4000	1.41E-09	-0.00293	0.00747	1.98E-10	0.05827	562973.	-0.00954	1350000.	0.00
17.6000	1.35E-09	-0.00163	0.00560	-6.11E-10	0.03235	562973.	-0.00911	1350000.	0.00
17.8000	1.17E-09	-6.87E-04	0.00390	-1.02E-09	0.01367	562973.	-0.00789	1350000.	0.00
18.0000	9.40E-10	-6.43E-05	0.00248	-1.16E-09	0.00128	562973.	-0.00635	1350000.	0.00

18.2000	7.07E-10	3.05E-04	0.00137	-1.11E-09	0.00606	562973.	-0.00477	1350000.	0.00
18.4000	4.95E-10	4.83E-04	5.56E-04	-9.73E-10	0.00961	562973.	-0.00334	1350000.	0.00
18.6000	3.18E-10	5.27E-04	7.08E-06	-7.93E-10	0.01049	562973.	-0.00215	1350000.	0.00
18.8000	1.78E-10	4.86E-04	-3.28E-04	-6.13E-10	0.00966	562973.	-0.00120	1350000.	0.00
19.0000	7.28E-11	3.96E-04	-4.97E-04	-4.57E-10	0.00788	562973.	-4.91E-04	1350000.	0.00
19.2000	-4.48E-12	2.87E-04	-5.43E-04	-3.35E-10	0.00571	562973.	3.03E-05	1350000.	0.00
19.4000	-6.14E-11	1.79E-04	-4.99E-04	-2.53E-10	0.00356	562973.	4.14E-04	1350000.	0.00
19.6000	-1.06E-10	8.73E-05	-3.86E-04	-2.05E-10	0.00174	562973.	7.12E-04	1350000.	0.00
19.8000	-1.43E-10	2.43E-05	-2.18E-04	-1.86E-10	4.83E-04	562973.	9.69E-04	1350000.	0.00
20.0000	-1.80E-10	0.00	0.00	-1.81E-10	0.00	562973.	0.00121	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 5:

Pile-head deflection = 0.00889447 meters
Computed slope at pile head = -0.00242808 radians
Maximum bending moment = 273.91994717 kN-m
Maximum shear force = 150.00000000 kN
Depth of maximum bending moment = 3.60000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 20
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 6

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 200.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.01474	3.42E-10	200.0000	-0.00378	6.80E-09	562973.	-42.6126	289.0629	0.00
0.2000	0.01399	39.1477	191.3212	-0.00377	778.8197	562973.	-44.1751	631.6868	0.00

0.4000	0.01323	76.5285	182.3408	-0.00375	1522.	562973.	-45.6291	689.5788	0.00
0.6000	0.01249	112.0841	173.0808	-0.00372	2230.	562973.	-46.9714	752.3328	0.00
0.8000	0.01175	145.7608	163.5637	-0.00367	2900.	562973.	-48.1987	820.5570	0.00
1.0000	0.01102	177.5096	153.8131	-0.00361	3531.	562973.	-49.3077	894.9525	0.00
1.2000	0.01030	207.2860	143.8528	-0.00354	4124.	562973.	-50.2955	976.3302	0.00
1.4000	0.00960	235.0507	133.7073	-0.00347	4676.	562973.	-51.1589	1066.	0.00
1.6000	0.00892	260.7690	123.4020	-0.00338	5188.	562973.	-51.8948	1164.	0.00
1.8000	0.00825	284.4115	112.9624	-0.00328	5658.	562973.	-52.5004	1273.	0.00
2.0000	0.00760	305.9540	102.4151	-0.00318	6087.	562973.	-52.9727	1393.	0.00
2.2000	0.00698	325.3775	91.7870	-0.00306	6473.	562973.	-53.3085	1527.	0.00
2.4000	0.00638	342.6688	81.1057	-0.00294	6817.	562973.	-53.5051	1677.	0.00
2.6000	0.00580	357.8198	70.3992	-0.00282	7119.	562973.	-53.5592	1846.	0.00
2.8000	0.00525	370.8285	59.6965	-0.00269	7377.	562973.	-53.4677	2036.	0.00
3.0000	0.00473	381.6984	49.0271	-0.00256	7594.	562973.	-53.2273	2252.	0.00
3.2000	0.00423	390.4393	38.4209	-0.00242	7768.	562973.	-52.8344	2499.	0.00
3.4000	0.00376	397.0668	27.9089	-0.00228	7899.	562973.	-52.2853	2782.	0.00
3.6000	0.00332	401.6028	17.5228	-0.00214	7990.	562973.	-51.5757	3110.	0.00
3.8000	0.00290	404.0759	7.2951	-0.00200	8039.	562973.	-50.7010	3493.	0.00
4.0000	0.00252	404.5209	-2.7405	-0.00185	8048.	562973.	-49.6556	3943.	0.00
4.2000	0.00216	402.9797	-12.5494	-0.00171	8017.	562973.	-48.4331	4479.	0.00
4.4000	0.00184	399.5012	-22.0952	-0.00157	7948.	562973.	-47.0256	5124.	0.00
4.6000	0.00154	394.1416	-31.3401	-0.00142	7841.	562973.	-45.4235	5912.	0.00
4.8000	0.00127	386.9651	-44.0771	-0.00129	7698.	562973.	-81.9460	12949.	0.00
5.0000	0.00102	376.5108	-60.0746	-0.00115	7490.	562973.	-78.0291	15265.	0.00
5.2000	8.06E-04	362.9353	-75.1743	-0.00102	7220.	562973.	-72.9674	18114.	0.00
5.4000	6.15E-04	346.4411	-89.1427	-8.93E-04	6892.	562973.	-66.7168	21703.	0.00
5.6000	4.49E-04	327.2782	-101.7343	-7.73E-04	6511.	562973.	-59.1993	26394.	0.00
5.8000	3.06E-04	305.7474	-112.3006	-6.61E-04	6083.	562973.	-46.4642	30409.	0.00
6.0000	1.84E-04	282.3579	-119.8464	-5.56E-04	5617.	562973.	-28.9935	31458.	0.00
6.2000	8.31E-05	257.8088	-124.0969	-4.60E-04	5129.	562973.	-13.5119	32506.	0.00
6.4000	2.53E-07	232.7192	-125.4524	-3.73E-04	4630.	562973.	-0.04252	33555.	0.00
6.6000	-6.61E-05	207.6279	-124.3131	-2.95E-04	4131.	562973.	11.4351	34604.	0.00
6.8000	-1.18E-04	182.9939	-121.0717	-2.25E-04	3641.	562973.	20.9788	35652.	0.00
7.0000	-1.56E-04	159.1992	-116.1061	-1.65E-04	3167.	562973.	28.6775	36701.	0.00
7.2000	-1.84E-04	136.5515	-109.7738	-1.12E-04	2717.	562973.	34.6459	37749.	0.00
7.4000	-2.01E-04	115.2897	-102.4074	-6.74E-05	2294.	562973.	39.0182	38798.	0.00
7.6000	-2.11E-04	95.5886	-94.3112	-3.00E-05	1902.	562973.	41.9429	39847.	0.00
7.8000	-2.13E-04	77.5652	-85.7592	8.04E-07	1543.	562973.	43.5772	40895.	0.00
8.0000	-2.10E-04	61.2849	-76.9932	2.55E-05	1219.	562973.	44.0830	41944.	0.00
8.2000	-2.03E-04	46.7679	-68.2227	4.47E-05	930.4174	562973.	43.6221	42992.	0.00
8.4000	-1.92E-04	33.9958	-59.6252	5.90E-05	676.3246	562973.	42.3533	44041.	0.00
8.6000	-1.79E-04	22.9178	-51.3469	6.91E-05	455.9354	562973.	40.4289	45090.	0.00
8.8000	-1.65E-04	13.4570	-43.5048	7.56E-05	267.7185	562973.	37.9924	46138.	0.00
9.0000	-1.49E-04	5.5159	-36.1879	7.89E-05	109.7351	562973.	35.1769	47187.	0.00

9.2000	-1.33E-04	-1.0182	-29.4599	7.97E-05	20.2555	562973.	32.1033	48235.	0.00
9.4000	-1.17E-04	-6.2681	-23.3616	7.85E-05	124.6992	562973.	28.8799	49284.	0.00
9.6000	-1.02E-04	-10.3628	-17.9134	7.55E-05	206.1609	562973.	25.6017	50332.	0.00
9.8000	-8.70E-05	-13.4334	-13.1182	7.13E-05	267.2495	562973.	22.3505	51381.	0.00
10.0000	-7.32E-05	-15.6101	-8.9636	6.61E-05	310.5522	562973.	19.1950	52430.	0.00
10.2000	-6.06E-05	-17.0189	-5.4250	6.03E-05	338.5799	562973.	16.1917	53478.	0.00
10.4000	-4.91E-05	-17.7800	-2.4673	5.41E-05	353.7227	562973.	13.3851	54527.	0.00
10.6000	-3.89E-05	-18.0058	-0.04783	4.78E-05	358.2140	562973.	10.8095	55575.	0.00
10.8000	-3.00E-05	-17.7992	1.8820	4.14E-05	354.1033	562973.	8.4891	56624.	0.00
11.0000	-2.23E-05	-17.2530	3.3749	3.52E-05	343.2372	562973.	6.4400	57673.	0.00
11.2000	-1.59E-05	-16.4492	4.4860	2.92E-05	327.2463	562973.	4.6705	58721.	0.00
11.4000	-1.07E-05	-15.4586	5.2713	2.35E-05	307.5388	562973.	3.1829	59770.	0.00
11.6000	-6.49E-06	-14.3407	5.7871	1.82E-05	285.2983	562973.	1.9743	60818.	0.00
11.8000	-3.35E-06	-13.1438	8.2476	1.34E-05	261.4868	562973.	22.6315	1350000.	0.00
12.0000	-1.15E-06	-11.0416	11.2852	9.07E-06	219.6656	562973.	7.7438	1350000.	0.00
12.2000	2.74E-07	-8.6297	11.8747	5.57E-06	171.6822	562973.	-1.8484	1350000.	0.00
12.4000	1.08E-06	-6.2917	10.9597	2.92E-06	125.1697	562973.	-7.3019	1350000.	0.00
12.6000	1.44E-06	-4.2458	9.2557	1.05E-06	84.4678	562973.	-9.7378	1350000.	0.00
12.8000	1.50E-06	-2.5894	7.2682	-1.64E-07	51.5150	562973.	-10.1375	1350000.	0.00
13.0000	1.38E-06	-1.3385	5.3249	-8.62E-07	26.6294	562973.	-9.2953	1350000.	0.00
13.2000	1.16E-06	-0.4595	3.6142	-1.18E-06	9.1408	562973.	-7.8112	1350000.	0.00
13.4000	9.05E-07	0.1072	2.2225	-1.24E-06	2.1319	562973.	-6.1067	1350000.	0.00
13.6000	6.60E-07	0.4295	1.1664	-1.15E-06	8.5450	562973.	-4.4536	1350000.	0.00
13.8000	4.45E-07	0.5737	0.4204	-9.70E-07	11.4141	562973.	-3.0065	1350000.	0.00
14.0000	2.72E-07	0.5977	-0.06367	-7.62E-07	11.8907	562973.	-1.8345	1350000.	0.00
14.2000	1.41E-07	0.5483	-0.3420	-5.58E-07	10.9075	562973.	-0.9492	1350000.	0.00
14.4000	4.84E-08	0.4609	-0.4696	-3.79E-07	9.1689	562973.	-0.3269	1350000.	0.00
14.6000	-1.10E-08	0.3604	-0.4949	-2.33E-07	7.1702	562973.	0.07447	1350000.	0.00
14.8000	-4.49E-08	0.2629	-0.4571	-1.23E-07	5.2307	562973.	0.3029	1350000.	0.00
15.0000	-6.00E-08	0.1776	-0.3863	-4.43E-08	3.5323	562973.	0.4053	1350000.	0.00
15.2000	-6.26E-08	0.1084	-0.3035	6.50E-09	2.1565	562973.	0.4225	1350000.	0.00
15.4000	-5.74E-08	0.05614	-0.2225	3.57E-08	1.1169	562973.	0.3877	1350000.	0.00
15.6000	-4.83E-08	0.01939	-0.1511	4.91E-08	0.3858	562973.	0.3260	1350000.	0.00
15.8000	-3.78E-08	-0.00431	-0.09302	5.18E-08	0.08581	562973.	0.2550	1350000.	0.00
16.0000	-2.76E-08	-0.01782	-0.04891	4.79E-08	0.3545	562973.	0.1861	1350000.	0.00
16.2000	-1.86E-08	-0.02388	-0.01772	4.05E-08	0.4750	562973.	0.1257	1350000.	0.00
16.4000	-1.14E-08	-0.02491	0.00253	3.18E-08	0.4955	562973.	0.07680	1350000.	0.00
16.6000	-5.90E-09	-0.02286	0.01419	2.33E-08	0.4548	562973.	0.03981	1350000.	0.00
16.8000	-2.04E-09	-0.01923	0.01955	1.59E-08	0.3825	562973.	0.01379	1350000.	0.00
17.0000	4.47E-10	-0.01504	0.02063	9.77E-09	0.2993	562973.	-0.00301	1350000.	0.00
17.2000	1.87E-09	-0.01098	0.01907	5.15E-09	0.2184	562973.	-0.01260	1350000.	0.00
17.4000	2.51E-09	-0.00741	0.01612	1.89E-09	0.1475	562973.	-0.01693	1350000.	0.00
17.6000	2.62E-09	-0.00453	0.01265	-2.36E-10	0.09012	562973.	-0.01769	1350000.	0.00
17.8000	2.41E-09	-0.00235	0.00926	-1.46E-09	0.04681	562973.	-0.01629	1350000.	0.00

18.0000	2.04E-09	-8.27E-04	0.00625	-2.02E-09	0.01646	562973.	-0.01376	1350000.	0.00
18.2000	1.60E-09	1.48E-04	0.00379	-2.14E-09	0.00294	562973.	-0.01083	1350000.	0.00
18.4000	1.18E-09	6.90E-04	0.00191	-2.00E-09	0.01373	562973.	-0.00797	1350000.	0.00
18.6000	8.06E-10	9.14E-04	5.74E-04	-1.71E-09	0.01818	562973.	-0.00544	1350000.	0.00
18.8000	4.96E-10	9.20E-04	-3.05E-04	-1.38E-09	0.01830	562973.	-0.00335	1350000.	0.00
19.0000	2.52E-10	7.92E-04	-8.09E-04	-1.08E-09	0.01576	562973.	-0.00170	1350000.	0.00
19.2000	6.39E-11	5.96E-04	-0.00102	-8.34E-10	0.01186	562973.	-4.31E-04	1350000.	0.00
19.4000	-8.17E-11	3.83E-04	-0.00101	-6.60E-10	0.00762	562973.	5.51E-04	1350000.	0.00
19.6000	-2.00E-10	1.92E-04	-8.20E-04	-5.58E-10	0.00382	562973.	0.00135	1350000.	0.00
19.8000	-3.05E-10	5.48E-05	-4.80E-04	-5.14E-10	0.00109	562973.	0.00206	1350000.	0.00
20.0000	-4.06E-10	0.00	0.00	-5.04E-10	0.00	562973.	0.00274	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 6:

Pile-head deflection = 0.01474164 meters
Computed slope at pile head = -0.00377629 radians
Maximum bending moment = 404.52090461 kN-m
Maximum shear force = 200.00000000 kN
Depth of maximum bending moment = 4.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 20
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 7

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 300.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.02912	2.44E-10	300.0000	-0.00691	4.86E-09	562973.	-53.4672	183.6075	0.00

0.2000	0.02774	58.9307	289.1032	-0.00690	1172.	562973.	-55.5006	400.1822	0.00
0.4000	0.02636	115.6413	277.8122	-0.00687	2301.	562973.	-57.4101	435.5998	0.00
0.6000	0.02499	170.0555	266.1519	-0.00682	3383.	562973.	-59.1920	473.7483	0.00
0.8000	0.02363	222.1021	254.1485	-0.00675	4419.	562973.	-60.8424	514.9471	0.00
1.0000	0.02229	271.7149	241.8285	-0.00666	5406.	562973.	-62.3576	559.5605	0.00
1.2000	0.02096	318.8335	229.2193	-0.00656	6343.	562973.	-63.7340	608.0063	0.00
1.4000	0.01966	363.4027	216.3492	-0.00644	7230.	562973.	-64.9679	660.7660	0.00
1.6000	0.01839	405.3731	203.2468	-0.00630	8065.	562973.	-66.0556	718.3965	0.00
1.8000	0.01714	444.7014	189.9419	-0.00615	8847.	562973.	-66.9935	781.5456	0.00
2.0000	0.01593	481.3499	176.4647	-0.00599	9576.	562973.	-67.7780	850.9705	0.00
2.2000	0.01475	515.2873	162.8464	-0.00581	10251.	562973.	-68.4053	927.5614	0.00
2.4000	0.01361	546.4885	149.1187	-0.00562	10872.	562973.	-68.8717	1012.	0.00
2.6000	0.01250	574.9348	135.3142	-0.00542	11438.	562973.	-69.1734	1107.	0.00
2.8000	0.01144	600.6141	121.4662	-0.00521	11949.	562973.	-69.3065	1212.	0.00
3.0000	0.01042	623.5213	107.6089	-0.00499	12405.	562973.	-69.2668	1330.	0.00
3.2000	0.00944	643.6577	93.7772	-0.00477	12805.	562973.	-69.0503	1463.	0.00
3.4000	0.00851	661.0321	80.0069	-0.00454	13151.	562973.	-68.6524	1614.	0.00
3.6000	0.00762	675.6605	66.3349	-0.00430	13442.	562973.	-68.0683	1786.	0.00
3.8000	0.00679	687.5661	52.7987	-0.00406	13679.	562973.	-67.2931	1983.	0.00
4.0000	0.00600	696.7800	39.4373	-0.00381	13862.	562973.	-66.3211	2210.	0.00
4.2000	0.00526	703.3410	26.2905	-0.00356	13993.	562973.	-65.1464	2475.	0.00
4.4000	0.00458	707.2962	13.3997	-0.00331	14071.	562973.	-63.7622	2787.	0.00
4.6000	0.00394	708.7009	0.8074	-0.00306	14099.	562973.	-62.1610	3157.	0.00
4.8000	0.00335	707.6191	-20.2204	-0.00281	14078.	562973.	-148.1164	8841.	0.00
5.0000	0.00281	700.6127	-49.4736	-0.00256	13938.	562973.	-144.4156	10264.	0.00
5.2000	0.00233	687.8297	-77.8204	-0.00231	13684.	562973.	-139.0524	11952.	0.00
5.4000	0.00189	669.4846	-104.9255	-0.00207	13319.	562973.	-131.9986	13978.	0.00
5.6000	0.00150	645.8595	-130.4477	-0.00184	12849.	562973.	-123.2238	16453.	0.00
5.8000	0.00115	617.3055	-154.0382	-0.00161	12281.	562973.	-112.6812	19543.	0.00
6.0000	8.52E-04	584.2442	-175.3343	-0.00140	11623.	562973.	-100.2802	23534.	0.00
6.2000	5.93E-04	547.1718	-193.9453	-0.00120	10886.	562973.	-85.8291	28957.	0.00
6.4000	3.72E-04	506.6661	-208.7740	-0.00101	10080.	562973.	-62.4583	33555.	0.00
6.6000	1.88E-04	463.6622	-218.2680	-8.40E-04	9224.	562973.	-32.4821	34604.	0.00
6.8000	3.61E-05	419.3589	-222.1606	-6.83E-04	8343.	562973.	-6.4434	35652.	0.00
7.0000	-8.57E-05	374.7979	-221.2332	-5.42E-04	7456.	562973.	15.7171	36701.	0.00
7.2000	-1.81E-04	330.8656	-216.2487	-4.17E-04	6582.	562973.	34.1285	37749.	0.00
7.4000	-2.52E-04	288.2985	-207.9381	-3.07E-04	5736.	562973.	48.9774	38798.	0.00
7.6000	-3.04E-04	247.6904	-196.9907	-2.12E-04	4928.	562973.	60.4966	39847.	0.00
7.8000	-3.37E-04	209.5022	-184.0456	-1.31E-04	4168.	562973.	68.9540	40895.	0.00
8.0000	-3.56E-04	174.0722	-169.6860	-6.25E-05	3463.	562973.	74.6416	41944.	0.00
8.2000	-3.62E-04	141.6278	-154.4352	-6.45E-06	2818.	562973.	77.8666	42992.	0.00
8.4000	-3.58E-04	112.2981	-138.7544	3.87E-05	2234.	562973.	78.9419	44041.	0.00
8.6000	-3.47E-04	86.1260	-123.0423	7.39E-05	1713.	562973.	78.1792	45090.	0.00
8.8000	-3.29E-04	63.0812	-107.6361	1.00E-04	1255.	562973.	75.8820	46138.	0.00

9.0000	-3.07E-04	43.0716	-92.8139	1.19E-04	856.8820	562973.	72.3402	47187.	0.00
9.2000	-2.81E-04	25.9556	-78.7973	1.32E-04	516.3704	562973.	67.8263	48235.	0.00
9.4000	-2.54E-04	11.5527	-65.7555	1.38E-04	229.8332	562973.	62.5917	49284.	0.00
9.6000	-2.26E-04	-0.3466	-53.8098	1.40E-04	6.8951	562973.	56.8652	50332.	0.00
9.8000	-1.98E-04	-9.9712	-43.0382	1.38E-04	198.3715	562973.	50.8508	51381.	0.00
10.0000	-1.71E-04	-17.5619	-33.4803	1.33E-04	349.3821	562973.	44.7284	52430.	0.00
10.2000	-1.45E-04	-23.3633	-25.1421	1.26E-04	464.7990	562973.	38.6532	53478.	0.00
10.4000	-1.20E-04	-27.6187	-18.0011	1.17E-04	549.4567	562973.	32.7572	54527.	0.00
10.6000	-9.77E-05	-30.5638	-12.0103	1.07E-04	608.0470	562973.	27.1506	55575.	0.00
10.8000	-7.74E-05	-32.4228	-7.1029	9.56E-05	645.0317	562973.	21.9235	56624.	0.00
11.0000	-5.95E-05	-33.4049	-3.1957	8.39E-05	664.5701	562973.	17.1481	57673.	0.00
11.2000	-4.39E-05	-33.7011	-0.1928	7.20E-05	670.4626	562973.	12.8811	58721.	0.00
11.4000	-3.07E-05	-33.4821	2.0119	6.01E-05	666.1046	562973.	9.1663	59770.	0.00
11.6000	-1.99E-05	-32.8964	3.5322	4.83E-05	654.4523	562973.	6.0364	60818.	0.00
11.8000	-1.14E-05	-32.0692	11.8083	3.67E-05	637.9964	562973.	76.7244	1350000.	0.00
12.0000	-5.16E-06	-28.1731	22.9645	2.60E-05	560.4851	562973.	34.8377	1350000.	0.00
12.2000	-9.57E-07	-22.8834	27.0945	1.70E-05	455.2509	562973.	6.4627	1350000.	0.00
12.4000	1.62E-06	-17.3352	26.6470	9.81E-06	344.8738	562973.	-10.9375	1350000.	0.00
12.6000	2.97E-06	-12.2246	23.5509	4.56E-06	243.2005	562973.	-20.0238	1350000.	0.00
12.8000	3.44E-06	-7.9149	19.2238	9.82E-07	157.4616	562973.	-23.2472	1350000.	0.00
13.0000	3.36E-06	-4.5351	14.6316	-1.23E-06	90.2223	562973.	-22.6747	1350000.	0.00
13.2000	2.95E-06	-2.0622	10.3714	-2.40E-06	41.0270	562973.	-19.9272	1350000.	0.00
13.4000	2.40E-06	-0.3865	6.7596	-2.84E-06	7.6892	562973.	-16.1906	1350000.	0.00
13.6000	1.82E-06	0.6416	3.9137	-2.79E-06	12.7646	562973.	-12.2687	1350000.	0.00
13.8000	1.28E-06	1.1790	1.8214	-2.47E-06	23.4552	562973.	-8.6544	1350000.	0.00
14.0000	8.30E-07	1.3702	0.3954	-2.01E-06	27.2588	562973.	-5.6057	1350000.	0.00
14.2000	4.76E-07	1.3371	-0.4866	-1.53E-06	26.6016	562973.	-3.2140	1350000.	0.00
14.4000	2.17E-07	1.1755	-0.9543	-1.09E-06	23.3868	562973.	-1.4637	1350000.	0.00
14.6000	4.11E-08	0.9554	-1.1284	-7.09E-07	19.0072	562973.	-0.2771	1350000.	0.00
14.8000	-6.69E-08	0.7242	-1.1110	-4.11E-07	14.4071	562973.	0.4513	1350000.	0.00
15.0000	-1.23E-07	0.5110	-0.9826	-1.91E-07	10.1662	562973.	0.8323	1350000.	0.00
15.2000	-1.43E-07	0.3311	-0.8026	-4.19E-08	6.5875	562973.	0.9683	1350000.	0.00
15.4000	-1.40E-07	0.1900	-0.6112	5.07E-08	3.7794	562973.	0.9454	1350000.	0.00
15.6000	-1.23E-07	0.08664	-0.4335	9.98E-08	1.7237	562973.	0.8315	1350000.	0.00
15.8000	-1.00E-07	0.01657	-0.2828	1.18E-07	0.3296	562973.	0.6760	1350000.	0.00
16.0000	-7.59E-08	-0.02646	-0.1639	1.16E-07	0.5265	562973.	0.5125	1350000.	0.00
16.2000	-5.36E-08	-0.04900	-0.07648	1.03E-07	0.9747	562973.	0.3618	1350000.	0.00
16.4000	-3.47E-08	-0.05706	-0.01684	8.41E-08	1.1351	562973.	0.2345	1350000.	0.00
16.6000	-1.99E-08	-0.05573	0.02007	6.41E-08	1.1088	562973.	0.1346	1350000.	0.00
16.8000	-9.11E-09	-0.04903	0.03968	4.55E-08	0.9754	562973.	0.06148	1350000.	0.00
17.0000	-1.75E-09	-0.03986	0.04701	2.97E-08	0.7930	562973.	0.01182	1350000.	0.00
17.2000	2.77E-09	-0.03022	0.04633	1.73E-08	0.6012	562973.	-0.01871	1350000.	0.00
17.4000	5.15E-09	-0.02133	0.04098	8.09E-09	0.4243	562973.	-0.03475	1350000.	0.00
17.6000	6.01E-09	-0.01383	0.03345	1.85E-09	0.2751	562973.	-0.04056	1350000.	0.00

17.8000	5.89E-09	-0.00795	0.02542	-2.02E-09	0.1582	562973.	-0.03974	1350000.	0.00
18.0000	5.20E-09	-0.00366	0.01793	-4.08E-09	0.07284	562973.	-0.03511	1350000.	0.00
18.2000	4.25E-09	-7.77E-04	0.01155	-4.87E-09	0.01545	562973.	-0.02872	1350000.	0.00
18.4000	3.25E-09	9.59E-04	0.00648	-4.84E-09	0.01908	562973.	-0.02195	1350000.	0.00
18.6000	2.32E-09	0.00182	0.00272	-4.35E-09	0.03615	562973.	-0.01565	1350000.	0.00
18.8000	1.51E-09	0.00205	1.37E-04	-3.66E-09	0.04076	562973.	-0.01022	1350000.	0.00
19.0000	8.55E-10	0.00187	-0.00146	-2.96E-09	0.03724	562973.	-0.00577	1350000.	0.00
19.2000	3.29E-10	0.00146	-0.00226	-2.37E-09	0.02913	562973.	-0.00222	1350000.	0.00
19.4000	-9.30E-11	9.67E-04	-0.00242	-1.94E-09	0.01925	562973.	6.28E-04	1350000.	0.00
19.6000	-4.46E-10	4.96E-04	-0.00206	-1.68E-09	0.00986	562973.	0.00301	1350000.	0.00
19.8000	-7.64E-10	1.45E-04	-0.00124	-1.56E-09	0.00288	562973.	0.00516	1350000.	0.00
20.0000	-1.07E-09	0.00	0.00	-1.54E-09	0.00	562973.	0.00724	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 7:

Pile-head deflection = 0.02912038 meters
Computed slope at pile head = -0.00691365 radians
Maximum bending moment = 708.70087436 kN-m
Maximum shear force = 300.00000000 kN
Depth of maximum bending moment = 4.60000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 19
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 8

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 400.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
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0.00	0.04616	1.37E-09	400.0000	-0.01047	2.72E-08	562973.	-62.3413	135.0551	0.00
0.2000	0.04407	78.7532	387.2899	-0.01046	1567.	562973.	-64.7602	293.9236	0.00
0.4000	0.04198	154.9159	374.1096	-0.01041	3082.	562973.	-67.0425	319.4198	0.00
0.6000	0.03990	228.3970	360.4869	-0.01035	4544.	562973.	-69.1840	346.7842	0.00
0.8000	0.03784	299.1107	346.4505	-0.01025	5951.	562973.	-71.1806	376.2265	0.00
1.0000	0.03580	366.9772	332.0296	-0.01013	7301.	562973.	-73.0280	407.9851	0.00
1.2000	0.03379	431.9226	317.2546	-0.00999	8593.	562973.	-74.7222	442.3320	0.00
1.4000	0.03180	493.8790	302.1565	-0.00983	9825.	562973.	-76.2590	479.5788	0.00
1.6000	0.02985	552.7852	286.7672	-0.00964	10997.	562973.	-77.6343	520.0842	0.00
1.8000	0.02795	608.5859	271.1193	-0.00944	12107.	562973.	-78.8438	564.2629	0.00
2.0000	0.02608	661.2329	255.2466	-0.00921	13155.	562973.	-79.8835	612.5964	0.00
2.2000	0.02426	710.6846	239.1834	-0.00897	14139.	562973.	-80.7490	665.6473	0.00
2.4000	0.02249	756.9062	222.9649	-0.00871	15058.	562973.	-81.4361	724.0759	0.00
2.6000	0.02078	799.8705	206.6272	-0.00843	15913.	562973.	-81.9403	788.6620	0.00
2.8000	0.01912	839.5571	190.2075	-0.00814	16702.	562973.	-82.2571	860.3323	0.00
3.0000	0.01752	875.9535	173.7436	-0.00783	17427.	562973.	-82.3820	940.1953	0.00
3.2000	0.01599	909.0546	157.2744	-0.00752	18085.	562973.	-82.3100	1030.	0.00
3.4000	0.01452	938.8632	140.8398	-0.00719	18678.	562973.	-82.0361	1130.	0.00
3.6000	0.01311	965.3905	124.4807	-0.00685	19206.	562973.	-81.5550	1244.	0.00
3.8000	0.01178	988.6555	108.2390	-0.00650	19669.	562973.	-80.8614	1373.	0.00
4.0000	0.01051	1009.	92.1580	-0.00615	20067.	562973.	-79.9492	1521.	0.00
4.2000	0.00932	1026.	76.2818	-0.00579	20402.	562973.	-78.8123	1691.	0.00
4.4000	0.00820	1039.	60.6562	-0.00542	20674.	562973.	-77.4441	1889.	0.00
4.6000	0.00715	1050.	45.3280	-0.00505	20885.	562973.	-75.8377	2121.	0.00
4.8000	0.00618	1057.	16.2569	-0.00467	21035.	562973.	-214.8728	6955.	0.00
5.0000	0.00528	1056.	-26.4076	-0.00430	21014.	562973.	-211.7723	8019.	0.00
5.2000	0.00446	1047.	-68.2358	-0.00393	20825.	562973.	-206.5097	9262.	0.00
5.4000	0.00371	1029.	-108.7917	-0.00356	20471.	562973.	-199.0493	10726.	0.00
5.6000	0.00304	1003.	-147.6331	-0.00320	19959.	562973.	-189.3648	12472.	0.00
5.8000	0.00243	969.9364	-184.3126	-0.00285	19296.	562973.	-177.4309	14584.	0.00
6.0000	0.00190	929.5252	-218.3766	-0.00251	18492.	562973.	-163.2085	17191.	0.00
6.2000	0.00143	882.5858	-249.3592	-0.00219	17558.	562973.	-146.6172	20503.	0.00
6.4000	0.00102	829.7816	-276.7689	-0.00188	16508.	562973.	-127.4801	24888.	0.00
6.6000	6.78E-04	771.8782	-300.0567	-0.00160	15356.	562973.	-105.3976	31110.	0.00
6.8000	3.86E-04	709.7589	-317.4698	-0.00133	14120.	562973.	-68.7337	35652.	0.00
7.0000	1.44E-04	644.8903	-326.9858	-0.00109	12830.	562973.	-26.4262	36701.	0.00
7.2000	-5.17E-05	578.9646	-328.6518	-8.76E-04	11518.	562973.	9.7661	37749.	0.00
7.4000	-2.06E-04	513.4296	-323.6721	-6.82E-04	10214.	562973.	40.0310	38798.	0.00
7.6000	-3.24E-04	449.4958	-313.2041	-5.11E-04	8942.	562973.	64.6492	39847.	0.00
7.8000	-4.11E-04	388.1479	-298.3416	-3.62E-04	7722.	562973.	83.9757	40895.	0.00
8.0000	-4.69E-04	330.1591	-280.1018	-2.34E-04	6568.	562973.	98.4224	41944.	0.00
8.2000	-5.04E-04	276.1072	-259.4154	-1.27E-04	5493.	562973.	108.4411	42992.	0.00
8.4000	-5.20E-04	226.3930	-237.1205	-3.75E-05	4504.	562973.	114.5086	44041.	0.00
8.6000	-5.19E-04	181.2591	-213.9583	3.49E-05	3606.	562973.	117.1126	45090.	0.00

8.8000	-5.06E-04	140.8096	-190.5731	9.21E-05	2801.	562973.	116.7400	46138.	0.00
9.0000	-4.83E-04	105.0298	-167.5124	1.36E-04	2090.	562973.	113.8662	47187.	0.00
9.2000	-4.52E-04	73.8047	-145.2311	1.68E-04	1468.	562973.	108.9469	48235.	0.00
9.4000	-4.16E-04	46.9374	-124.0953	1.89E-04	933.7895	562973.	102.4116	49284.	0.00
9.6000	-3.76E-04	24.1666	-104.3883	2.02E-04	480.7782	562973.	94.6580	50332.	0.00
9.8000	-3.35E-04	5.1820	-86.3176	2.07E-04	103.0935	562973.	86.0495	51381.	0.00
10.0000	-2.93E-04	-10.3605	-70.0214	2.06E-04	206.1152	562973.	76.9127	52430.	0.00
10.2000	-2.53E-04	-22.8265	-55.5764	2.00E-04	454.1188	562973.	67.5369	53478.	0.00
10.4000	-2.13E-04	-32.5910	-43.0052	1.90E-04	648.3782	562973.	58.1753	54527.	0.00
10.6000	-1.77E-04	-40.0286	-32.2830	1.77E-04	796.3431	562973.	49.0462	55575.	0.00
10.8000	-1.42E-04	-45.5043	-23.3449	1.62E-04	905.2784	562973.	40.3356	56624.	0.00
11.0000	-1.12E-04	-49.3665	-16.0913	1.45E-04	982.1156	562973.	32.2004	57673.	0.00
11.2000	-8.44E-05	-51.9408	-10.3940	1.27E-04	1033.	562973.	24.7720	58721.	0.00
11.4000	-6.08E-05	-53.5241	-6.1008	1.09E-04	1065.	562973.	18.1604	59770.	0.00
11.6000	-4.10E-05	-54.3811	-3.0390	8.93E-05	1082.	562973.	12.4577	60818.	0.00
11.8000	-2.50E-05	-54.7397	10.2853	7.00E-05	1089.	562973.	120.7846	965133.	0.00
12.0000	-1.30E-05	-50.2670	31.1265	5.13E-05	1000.	562973.	87.6275	1350000.	0.00
12.2000	-4.51E-06	-42.2891	42.9305	3.49E-05	841.3154	562973.	30.4127	1350000.	0.00
12.4000	9.66E-07	-33.0948	45.3197	2.15E-05	658.3997	562973.	-6.5204	1350000.	0.00
12.6000	4.09E-06	-24.1612	41.9096	1.13E-05	480.6726	562973.	-27.5813	1350000.	0.00
12.8000	5.49E-06	-16.3310	35.4460	4.12E-06	324.8941	562973.	-37.0545	1350000.	0.00
13.0000	5.73E-06	-9.9829	27.8710	-5.58E-07	198.6026	562973.	-38.6956	1350000.	0.00
13.2000	5.27E-06	-5.1826	20.4465	-3.25E-06	103.1040	562973.	-35.5488	1350000.	0.00
13.4000	4.43E-06	-1.8042	13.9000	-4.49E-06	35.8943	562973.	-29.9165	1350000.	0.00
13.6000	3.47E-06	0.3774	8.5664	-4.75E-06	7.5086	562973.	-23.4190	1350000.	0.00
13.8000	2.53E-06	1.6223	4.5143	-4.39E-06	32.2753	562973.	-17.1024	1350000.	0.00
14.0000	1.71E-06	2.1831	1.6477	-3.71E-06	43.4323	562973.	-11.5639	1350000.	0.00
14.2000	1.05E-06	2.2814	-0.2159	-2.92E-06	45.3871	562973.	-7.0724	1350000.	0.00
14.4000	5.44E-07	2.0968	-1.2907	-2.14E-06	41.7139	562973.	-3.6751	1350000.	0.00
14.6000	1.90E-07	1.7651	-1.7865	-1.46E-06	35.1162	562973.	-1.2833	1350000.	0.00
14.8000	-3.88E-08	1.3822	-1.8887	-8.99E-07	27.4972	562973.	0.2618	1350000.	0.00
15.0000	-1.70E-07	1.0097	-1.7481	-4.74E-07	20.0866	562973.	1.1441	1350000.	0.00
15.2000	-2.28E-07	0.6829	-1.4794	-1.74E-07	13.5865	562973.	1.5422	1350000.	0.00
15.4000	-2.39E-07	0.4179	-1.1639	2.20E-08	8.3136	562973.	1.6127	1350000.	0.00
15.6000	-2.20E-07	0.2174	-0.8544	1.35E-07	4.3241	562973.	1.4829	1350000.	0.00
15.8000	-1.85E-07	0.07613	-0.5812	1.87E-07	1.5147	562973.	1.2487	1350000.	0.00
16.0000	-1.45E-07	-0.01513	-0.3585	1.98E-07	0.3011	562973.	0.9781	1350000.	0.00
16.2000	-1.06E-07	-0.06728	-0.1893	1.83E-07	1.3385	562973.	0.7147	1350000.	0.00
16.4000	-7.16E-08	-0.09083	-0.06942	1.55E-07	1.8071	562973.	0.4836	1350000.	0.00
16.6000	-4.39E-08	-0.09505	0.00855	1.22E-07	1.8909	562973.	0.2961	1350000.	0.00
16.8000	-2.28E-08	-0.08741	0.05357	8.96E-08	1.7391	562973.	0.1541	1350000.	0.00
17.0000	-8.01E-09	-0.07362	0.07438	6.10E-08	1.4646	562973.	0.05406	1350000.	0.00
17.2000	1.58E-09	-0.05766	0.07872	3.77E-08	1.1471	562973.	-0.01067	1350000.	0.00
17.4000	7.07E-09	-0.04213	0.07288	2.00E-08	0.8381	562973.	-0.04776	1350000.	0.00

17.6000	9.57E-09	-0.02851	0.06164	7.44E-09	0.5672	562973.	-0.06463	1350000.	0.00
17.8000	1.00E-08	-0.01747	0.04839	-7.32E-10	0.3476	562973.	-0.06783	1350000.	0.00
18.0000	9.28E-09	-0.00915	0.03535	-5.46E-09	0.1821	562973.	-0.06265	1350000.	0.00
18.2000	7.86E-09	-0.00334	0.02377	-7.68E-09	0.06636	562973.	-0.05309	1350000.	0.00
18.4000	6.21E-09	3.57E-04	0.01427	-8.21E-09	0.00711	562973.	-0.04192	1350000.	0.00
18.6000	4.58E-09	0.00237	0.00699	-7.72E-09	0.04721	562973.	-0.03092	1350000.	0.00
18.8000	3.12E-09	0.00315	0.00179	-6.74E-09	0.06271	562973.	-0.02106	1350000.	0.00
19.0000	1.88E-09	0.00309	-0.00159	-5.63E-09	0.06144	562973.	-0.01272	1350000.	0.00
19.2000	8.67E-10	0.00252	-0.00345	-4.64E-09	0.05006	562973.	-0.00585	1350000.	0.00
19.4000	2.90E-11	0.00171	-0.00405	-3.89E-09	0.03401	562973.	-1.96E-04	1350000.	0.00
19.6000	-6.88E-10	8.95E-04	-0.00361	-3.42E-09	0.01781	562973.	0.00464	1350000.	0.00
19.8000	-1.34E-09	2.67E-04	-0.00224	-3.22E-09	0.00530	562973.	0.00905	1350000.	0.00
20.0000	-1.98E-09	0.00	0.00	-3.17E-09	0.00	562973.	0.01333	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 8:

Pile-head deflection = 0.04615991 meters
Computed slope at pile head = -0.01046967 radians
Maximum bending moment = 1057. kN-m
Maximum shear force = 400.00000000 kN
Depth of maximum bending moment = 4.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 19
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 9

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 450.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X	Deflect. y	Bending Moment	Shear Force	Slope S	Total Stress	Bending Stiffness	Soil Res. p	Soil Spr. Es*h	Distrib. Lat. Load
meters	meters	kN-m	kN	radians	kPa*	kN-m^2	kN/m	kN/m	kN/m

0.00	0.05546	-3.91E-10	450.0000	-0.01237	7.77E-09	562973.	-66.2737	119.5031	0.00
0.2000	0.05298	88.6745	436.4863	-0.01235	1764.	562973.	-68.8636	259.9383	0.00
0.4000	0.05052	174.5945	422.4688	-0.01230	3473.	562973.	-71.3112	282.3222	0.00
0.6000	0.04806	257.6620	407.9764	-0.01223	5126.	562973.	-73.6123	306.3153	0.00
0.8000	0.04563	337.7851	393.0389	-0.01212	6720.	562973.	-75.7625	332.0957	0.00
1.0000	0.04321	414.8776	377.6870	-0.01199	8254.	562973.	-77.7573	359.8653	0.00
1.2000	0.04083	488.8599	361.9520	-0.01183	9726.	562973.	-79.5926	389.8543	0.00
1.4000	0.03848	559.6584	345.8663	-0.01164	11134.	562973.	-81.2638	422.3256	0.00
1.6000	0.03618	627.2064	329.4633	-0.01143	12478.	562973.	-82.7667	457.5816	0.00
1.8000	0.03391	691.4437	312.7769	-0.01120	13756.	562973.	-84.0969	495.9707	0.00
2.0000	0.03170	752.3172	295.8422	-0.01094	14967.	562973.	-85.2500	537.8971	0.00
2.2000	0.02954	809.7806	278.6951	-0.01066	16110.	562973.	-86.2214	583.8314	0.00
2.4000	0.02743	863.7952	261.3723	-0.01036	17185.	562973.	-87.0067	634.3248	0.00
2.6000	0.02539	914.3295	243.9115	-0.01005	18190.	562973.	-87.6011	690.0262	0.00
2.8000	0.02341	961.3598	226.3514	-0.00972	19126.	562973.	-88.0000	751.7046	0.00
3.0000	0.02150	1005.	208.7316	-0.00937	19991.	562973.	-88.1984	820.2767	0.00
3.2000	0.01967	1045.	191.0926	-0.00900	20787.	562973.	-88.1912	896.8429	0.00
3.4000	0.01790	1081.	173.4762	-0.00862	21512.	562973.	-87.9731	982.7340	0.00
3.6000	0.01622	1114.	155.9250	-0.00823	22167.	562973.	-87.5387	1080.	0.00
3.8000	0.01461	1144.	138.4829	-0.00783	22753.	562973.	-86.8823	1189.	0.00
4.0000	0.01308	1170.	121.1949	-0.00742	23269.	562973.	-85.9978	1315.	0.00
4.2000	0.01164	1192.	104.1072	-0.00700	23717.	562973.	-84.8789	1458.	0.00
4.4000	0.01028	1211.	87.2674	-0.00658	24098.	562973.	-83.5190	1624.	0.00
4.6000	0.00901	1227.	70.7244	-0.00614	24412.	562973.	-81.9111	1818.	0.00
4.8000	0.00783	1240.	37.7265	-0.00570	24660.	562973.	-248.0687	6340.	0.00
5.0000	0.00673	1242.	-11.6171	-0.00526	24712.	562973.	-245.3671	7293.	0.00
5.2000	0.00572	1235.	-60.1803	-0.00482	24568.	562973.	-240.2646	8401.	0.00
5.4000	0.00480	1218.	-107.4787	-0.00439	24233.	562973.	-232.7193	9698.	0.00
5.6000	0.00396	1192.	-153.0209	-0.00396	23713.	562973.	-222.7028	11233.	0.00
5.8000	0.00322	1157.	-196.3104	-0.00354	23015.	562973.	-210.1927	13074.	0.00
6.0000	0.00255	1113.	-236.8458	-0.00314	22151.	562973.	-195.1612	15319.	0.00
6.2000	0.00196	1062.	-274.1172	-0.00275	21130.	562973.	-177.5527	18122.	0.00
6.4000	0.00145	1004.	-307.5968	-0.00239	19969.	562973.	-157.2428	21739.	0.00
6.6000	0.00101	939.0951	-336.7161	-0.00204	18683.	562973.	-133.9503	26655.	0.00
6.8000	6.30E-04	869.0729	-360.8129	-0.00172	17290.	562973.	-107.0172	33961.	0.00
7.0000	3.17E-04	794.7700	-377.3343	-0.00142	15811.	562973.	-58.1971	36701.	0.00
7.2000	6.05E-05	718.1392	-384.2963	-0.00116	14287.	562973.	-11.4229	37749.	0.00
7.4000	-1.45E-04	641.0515	-382.6242	-9.14E-04	12753.	562973.	28.1440	38798.	0.00
7.6000	-3.05E-04	565.0895	-373.7305	-7.00E-04	11242.	562973.	60.7923	39847.	0.00
7.8000	-4.25E-04	491.5593	-358.9604	-5.12E-04	9779.	562973.	86.9091	40895.	0.00
8.0000	-5.10E-04	421.5054	-339.5737	-3.50E-04	8386.	562973.	106.9585	41944.	0.00
8.2000	-5.65E-04	355.7298	-316.7317	-2.12E-04	7077.	562973.	121.4612	42992.	0.00
8.4000	-5.95E-04	294.8127	-291.4880	-9.64E-05	5865.	562973.	130.9752	44041.	0.00

8.6000	-6.04E-04	239.1346	-264.7826	-1.55E-06	4757.	562973.	136.0788	45090.	0.00
8.8000	-5.95E-04	188.8996	-237.4392	7.45E-05	3758.	562973.	137.3552	46138.	0.00
9.0000	-5.74E-04	144.1589	-210.1658	1.34E-04	2868.	562973.	135.3790	47187.	0.00
9.2000	-5.42E-04	104.8333	-183.5573	1.78E-04	2086.	562973.	130.7061	48235.	0.00
9.4000	-5.03E-04	70.7360	-158.1003	2.09E-04	1407.	562973.	123.8637	49284.	0.00
9.6000	-4.58E-04	41.5932	-134.1795	2.29E-04	827.4696	562973.	115.3443	50332.	0.00
9.8000	-4.11E-04	17.0641	-112.0850	2.39E-04	339.4802	562973.	105.6010	51381.	0.00
10.0000	-3.63E-04	-3.2408	-92.0205	2.42E-04	64.4745	562973.	95.0441	52430.	0.00
10.2000	-3.14E-04	-19.7441	-74.1121	2.38E-04	392.7956	562973.	84.0403	53478.	0.00
10.4000	-2.67E-04	-32.8857	-58.4168	2.28E-04	654.2396	562973.	72.9128	54527.	0.00
10.6000	-2.23E-04	-43.1108	-44.9311	2.15E-04	857.6614	562973.	61.9433	55575.	0.00
10.8000	-1.81E-04	-50.8581	-33.5994	1.98E-04	1012.	562973.	51.3741	56624.	0.00
11.0000	-1.44E-04	-56.5505	-24.3208	1.79E-04	1125.	562973.	41.4123	57673.	0.00
11.2000	-1.10E-04	-60.5864	-16.9562	1.58E-04	1205.	562973.	32.2332	58721.	0.00
11.4000	-8.03E-05	-63.3330	-11.3343	1.36E-04	1260.	562973.	23.9860	59770.	0.00
11.6000	-5.52E-05	-65.1201	-7.2559	1.14E-04	1296.	562973.	16.7975	60818.	0.00
11.8000	-3.48E-05	-66.2354	7.5436	9.02E-05	1318.	562973.	131.1974	753094.	0.00
12.0000	-1.92E-05	-62.1027	31.9601	6.74E-05	1235.	562973.	112.9682	1179681.	0.00
12.2000	-7.87E-06	-53.4513	48.5725	4.69E-05	1063.	562973.	53.1556	1350000.	0.00
12.4000	-3.95E-07	-42.6737	54.1549	2.98E-05	848.9669	562973.	2.6680	1350000.	0.00
12.6000	4.05E-06	-31.7894	51.6863	1.66E-05	632.4300	562973.	-27.3534	1350000.	0.00
12.8000	6.24E-06	-21.9992	44.7381	7.04E-06	437.6602	562973.	-42.1288	1350000.	0.00
13.0000	6.87E-06	-13.8942	35.8899	6.61E-07	276.4155	562973.	-46.3534	1350000.	0.00
13.2000	6.51E-06	-7.6432	26.8631	-3.16E-06	152.0576	562973.	-43.9144	1350000.	0.00
13.4000	5.60E-06	-3.1489	18.6907	-5.08E-06	62.6456	562973.	-37.8097	1350000.	0.00
13.6000	4.47E-06	-0.1670	11.8902	-5.67E-06	3.3217	562973.	-30.1949	1350000.	0.00
13.8000	3.33E-06	1.6072	6.6208	-5.41E-06	31.9739	562973.	-22.4999	1350000.	0.00
14.0000	2.31E-06	2.4813	2.8132	-4.69E-06	49.3647	562973.	-15.5758	1350000.	0.00
14.2000	1.46E-06	2.7325	0.2714	-3.76E-06	54.3606	562973.	-9.8417	1350000.	0.00
14.4000	8.03E-07	2.5899	-1.2545	-2.82E-06	51.5248	562973.	-5.4181	1350000.	0.00
14.6000	3.31E-07	2.2306	-2.0200	-1.96E-06	44.3774	562973.	-2.2366	1350000.	0.00
14.8000	1.85E-08	1.7819	-2.2561	-1.25E-06	35.4502	562973.	-0.1249	1350000.	0.00
15.0000	-1.68E-07	1.3282	-2.1554	-6.95E-07	26.4236	562973.	1.1322	1350000.	0.00
15.2000	-2.60E-07	0.9198	-1.8669	-2.96E-07	18.2981	562973.	1.7523	1350000.	0.00
15.4000	-2.86E-07	0.5814	-1.4986	-2.93E-08	11.5670	562973.	1.9313	1350000.	0.00
15.6000	-2.71E-07	0.3203	-1.1223	1.31E-07	6.3727	562973.	1.8314	1350000.	0.00
15.8000	-2.34E-07	0.1325	-0.7814	2.11E-07	2.6359	562973.	1.5779	1350000.	0.00
16.0000	-1.87E-07	0.00778	-0.4975	2.36E-07	0.1548	562973.	1.2609	1350000.	0.00
16.2000	-1.39E-07	-0.06650	-0.2774	2.26E-07	1.3230	562973.	0.9401	1350000.	0.00
16.4000	-9.65E-08	-0.1032	-0.1182	1.96E-07	2.0526	562973.	0.6513	1350000.	0.00
16.6000	-6.10E-08	-0.1138	-0.01193	1.57E-07	2.2639	562973.	0.4119	1350000.	0.00
16.8000	-3.36E-08	-0.1079	0.05195	1.18E-07	2.1475	562973.	0.2270	1350000.	0.00
17.0000	-1.39E-08	-0.09302	0.08406	8.20E-08	1.8505	562973.	0.09399	1350000.	0.00
17.2000	-8.22E-10	-0.07432	0.09401	5.23E-08	1.4786	562973.	0.00555	1350000.	0.00

17.4000	7.00E-09	-0.05541	0.08984	2.93E-08	1.1024	562973.	-0.04724	1350000.	0.00
17.6000	1.09E-08	-0.03839	0.07777	1.26E-08	0.7637	562973.	-0.07346	1350000.	0.00
17.8000	1.20E-08	-0.02430	0.06230	1.47E-09	0.4835	562973.	-0.08127	1350000.	0.00
18.0000	1.15E-08	-0.01347	0.04643	-5.24E-09	0.2679	562973.	-0.07742	1350000.	0.00
18.2000	9.94E-09	-0.00573	0.03198	-8.65E-09	0.1140	562973.	-0.06711	1350000.	0.00
18.4000	8.01E-09	-6.76E-04	0.01986	-9.79E-09	0.01346	562973.	-0.05406	1350000.	0.00
18.6000	6.03E-09	0.00221	0.01039	-9.52E-09	0.04406	562973.	-0.04068	1350000.	0.00
18.8000	4.20E-09	0.00348	0.00348	-8.51E-09	0.06921	562973.	-0.02836	1350000.	0.00
19.0000	2.62E-09	0.00361	-0.00112	-7.25E-09	0.07178	562973.	-0.01771	1350000.	0.00
19.2000	1.30E-09	0.00303	-0.00377	-6.07E-09	0.06027	562973.	-0.00879	1350000.	0.00
19.4000	1.97E-10	0.00210	-0.00479	-5.16E-09	0.04175	562973.	-0.00133	1350000.	0.00
19.6000	-7.60E-10	0.00111	-0.00441	-4.59E-09	0.02218	562973.	0.00513	1350000.	0.00
19.8000	-1.64E-09	3.36E-04	-0.00279	-4.33E-09	0.00669	562973.	0.01105	1350000.	0.00
20.0000	-2.49E-09	0.00	0.00	-4.27E-09	0.00	562973.	0.01682	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 9:

Pile-head deflection = 0.05545778 meters
Computed slope at pile head = -0.01236613 radians
Maximum bending moment = 1242. kN-m
Maximum shear force = 450.00000000 kN
Depth of maximum bending moment = 5.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 19
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 10

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 470.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X	Deflect. y	Bending Moment	Shear Force	Slope S	Total Stress	Bending Stiffness	Soil Res. p	Soil Spr. Es*h	Distrib. Lat. Load

meters	meters	kN-m	kN	radians	kPa*	kN-m^2	kN/m	kN/m	kN/m
0.00	0.05931	-1.27E-09	470.0000	-0.01314	2.53E-08	562973.	-67.7722	114.2769	0.00
0.2000	0.05668	92.6446	456.1801	-0.01313	1843.	562973.	-70.4273	248.5236	0.00
0.4000	0.05405	182.4720	441.8435	-0.01308	3630.	562973.	-72.9380	269.8691	0.00
0.6000	0.05145	269.3820	427.0197	-0.01300	5359.	562973.	-75.3000	292.7387	0.00
0.8000	0.04886	353.2799	411.7389	-0.01289	7028.	562973.	-77.5087	317.3002	0.00
1.0000	0.04629	434.0775	396.0320	-0.01275	8636.	562973.	-79.5598	343.7438	0.00
1.2000	0.04376	511.6927	379.9311	-0.01258	10180.	562973.	-81.4489	372.2860	0.00
1.4000	0.04126	586.0500	363.4691	-0.01238	11659.	562973.	-83.1715	403.1742	0.00
1.6000	0.03880	657.0804	346.6796	-0.01216	13072.	562973.	-84.7231	436.6922	0.00
1.8000	0.03639	724.7218	329.5974	-0.01192	14418.	562973.	-86.0995	473.1675	0.00
2.0000	0.03403	788.9193	312.2579	-0.01165	15695.	562973.	-87.2959	512.9791	0.00
2.2000	0.03173	849.6250	294.6975	-0.01136	16903.	562973.	-88.3079	556.5682	0.00
2.4000	0.02949	906.7983	276.9536	-0.01105	18040.	562973.	-89.1308	604.4510	0.00
2.6000	0.02731	960.4064	259.0646	-0.01071	19107.	562973.	-89.7599	657.2346	0.00
2.8000	0.02521	1010.	241.0695	-0.01036	20102.	562973.	-90.1902	715.6376	0.00
3.0000	0.02317	1057.	223.0088	-0.01000	21025.	562973.	-90.4169	780.5156	0.00
3.2000	0.02121	1100.	204.9237	-0.00961	21876.	562973.	-90.4348	852.8944	0.00
3.4000	0.01932	1139.	186.8563	-0.00922	22656.	562973.	-90.2384	934.0130	0.00
3.6000	0.01752	1174.	168.8503	-0.00881	23363.	562973.	-89.8222	1025.	0.00
3.8000	0.01580	1206.	150.9500	-0.00838	23999.	562973.	-89.1805	1129.	0.00
4.0000	0.01417	1235.	133.2013	-0.00795	24565.	562973.	-88.3070	1247.	0.00
4.2000	0.01262	1260.	115.6510	-0.00751	25059.	562973.	-87.1955	1382.	0.00
4.4000	0.01116	1281.	98.3475	-0.00706	25485.	562973.	-85.8394	1538.	0.00
4.6000	0.00980	1299.	81.3404	-0.00660	25842.	562973.	-84.2317	1719.	0.00
4.8000	0.00853	1314.	46.7849	-0.00613	26132.	562973.	-261.3231	6131.	0.00
5.0000	0.00735	1318.	-5.2273	-0.00567	26214.	562973.	-258.7995	7047.	0.00
5.2000	0.00626	1311.	-56.4855	-0.00520	26091.	562973.	-253.7821	8109.	0.00
5.4000	0.00527	1295.	-106.4863	-0.00474	25765.	562973.	-246.2262	9352.	0.00
5.6000	0.00436	1269.	-154.7191	-0.00428	25243.	562973.	-236.1020	10818.	0.00
5.8000	0.00355	1233.	-200.6682	-0.00384	24534.	562973.	-223.3882	12571.	0.00
6.0000	0.00283	1189.	-243.8130	-0.00341	23646.	562973.	-208.0599	14700.	0.00
6.2000	0.00219	1136.	-283.6259	-0.00299	22593.	562973.	-190.0696	17343.	0.00
6.4000	0.00163	1075.	-319.5637	-0.00260	21389.	562973.	-169.3086	20727.	0.00
6.6000	0.00115	1008.	-351.0476	-0.00223	20050.	562973.	-145.5303	25267.	0.00
6.8000	7.42E-04	934.7246	-377.4169	-0.00188	18596.	562973.	-118.1626	31859.	0.00
7.0000	3.98E-04	856.8780	-396.5372	-0.00157	17047.	562973.	-73.0400	36701.	0.00
7.2000	1.15E-04	776.1097	-406.0149	-0.00128	15440.	562973.	-21.7374	37749.	0.00
7.4000	-1.13E-04	694.4720	-406.0052	-0.00102	13816.	562973.	21.8340	38798.	0.00
7.6000	-2.91E-04	613.7076	-398.0256	-7.83E-04	12209.	562973.	57.9625	39847.	0.00
7.8000	-4.26E-04	535.2618	-383.5248	-5.79E-04	10649.	562973.	87.0454	40895.	0.00
8.0000	-5.22E-04	460.2977	-363.8637	-4.02E-04	9157.	562973.	109.5656	41944.	0.00
8.2000	-5.86E-04	389.7163	-340.3001	-2.51E-04	7753.	562973.	126.0700	42992.	0.00

8.4000	-6.23E-04	324.1777	-313.9783	-1.24E-04	6449.	562973.	137.1484	44041.	0.00
8.6000	-6.36E-04	264.1250	-285.9220	-1.96E-05	5255.	562973.	143.4151	45090.	0.00
8.8000	-6.31E-04	209.8089	-257.0312	6.45E-05	4174.	562973.	145.4922	46138.	0.00
9.0000	-6.10E-04	161.3125	-228.0825	1.30E-04	3209.	562973.	143.9950	47187.	0.00
9.2000	-5.78E-04	118.5759	-199.7310	1.80E-04	2359.	562973.	139.5201	48235.	0.00
9.4000	-5.38E-04	81.4201	-172.5154	2.16E-04	1620.	562973.	132.6354	49284.	0.00
9.6000	-4.92E-04	49.5697	-146.8646	2.39E-04	986.1580	562973.	123.8728	50332.	0.00
9.8000	-4.43E-04	22.6742	-123.1051	2.52E-04	451.0897	562973.	113.7227	51381.	0.00
10.0000	-3.91E-04	0.3277	-101.4697	2.56E-04	6.5190	562973.	102.6306	52430.	0.00
10.2000	-3.40E-04	-17.9137	-82.1071	2.53E-04	356.3808	562973.	90.9958	53478.	0.00
10.4000	-2.90E-04	-32.5152	-65.0904	2.44E-04	646.8685	562973.	79.1712	54527.	0.00
10.6000	-2.43E-04	-43.9498	-50.4267	2.30E-04	874.3537	562973.	67.4652	55575.	0.00
10.8000	-1.98E-04	-52.6859	-38.0658	2.13E-04	1048.	562973.	56.1441	56624.	0.00
11.0000	-1.58E-04	-59.1761	-27.9078	1.93E-04	1177.	562973.	45.4360	57673.	0.00
11.2000	-1.21E-04	-63.8490	-19.8107	1.71E-04	1270.	562973.	35.5352	58721.	0.00
11.4000	-8.90E-05	-67.1004	-13.5964	1.48E-04	1335.	562973.	26.6070	59770.	0.00
11.6000	-6.18E-05	-69.2876	-9.0564	1.24E-04	1378.	562973.	18.7931	60818.	0.00
11.8000	-3.95E-05	-70.7230	6.3600	9.90E-05	1407.	562973.	135.3715	685550.	0.00
12.0000	-2.22E-05	-66.7435	31.6201	7.46E-05	1328.	562973.	117.2291	1055652.	0.00
12.2000	-9.67E-06	-58.0749	49.8696	5.24E-05	1155.	562973.	65.2659	1350000.	0.00
12.4000	-1.25E-06	-46.7957	57.2430	3.38E-05	930.9709	562973.	8.4680	1350000.	0.00
12.6000	3.84E-06	-35.1777	55.5011	1.92E-05	699.8390	562973.	-25.8867	1350000.	0.00
12.8000	6.43E-06	-24.5953	48.5754	8.58E-06	489.3071	562973.	-43.3704	1350000.	0.00
13.0000	7.27E-06	-15.7476	39.3325	1.42E-06	313.2882	562973.	-49.0582	1350000.	0.00
13.2000	6.99E-06	-8.8622	29.7074	-2.96E-06	176.3086	562973.	-47.1936	1350000.	0.00
13.4000	6.09E-06	-3.8646	20.8802	-5.22E-06	76.8845	562973.	-41.0786	1350000.	0.00
13.6000	4.91E-06	-0.5102	13.4613	-5.99E-06	10.1497	562973.	-33.1102	1350000.	0.00
13.8000	3.69E-06	1.5199	7.6605	-5.81E-06	30.2369	562973.	-24.8972	1350000.	0.00
14.0000	2.58E-06	2.5540	3.4295	-5.09E-06	50.8109	562973.	-17.4130	1350000.	0.00
14.2000	1.65E-06	2.8917	0.5728	-4.12E-06	57.5281	562973.	-11.1538	1350000.	0.00
14.4000	9.31E-07	2.7832	-1.1707	-3.11E-06	55.3694	562973.	-6.2813	1350000.	0.00
14.6000	4.06E-07	2.4234	-2.0732	-2.19E-06	48.2121	562973.	-2.7437	1350000.	0.00
14.8000	5.46E-08	1.9539	-2.3844	-1.41E-06	38.8715	562973.	-0.3684	1350000.	0.00
15.0000	-1.59E-07	1.4696	-2.3142	-8.04E-07	29.2377	562973.	1.0699	1350000.	0.00
15.2000	-2.67E-07	1.0282	-2.0269	-3.61E-07	20.4554	562973.	1.8034	1350000.	0.00
15.4000	-3.03E-07	0.6589	-1.6422	-6.10E-08	13.1081	562973.	2.0437	1350000.	0.00
15.6000	-2.92E-07	0.3713	-1.2410	1.22E-07	7.3871	562973.	1.9680	1350000.	0.00
15.8000	-2.54E-07	0.1625	-0.8728	2.17E-07	3.2322	562973.	1.7142	1350000.	0.00
16.0000	-2.05E-07	0.02219	-0.5631	2.50E-07	0.4415	562973.	1.3825	1350000.	0.00
16.2000	-1.54E-07	-0.06279	-0.3209	2.42E-07	1.2491	562973.	1.0402	1350000.	0.00
16.4000	-1.08E-07	-0.1062	-0.1440	2.12E-07	2.1119	562973.	0.7280	1350000.	0.00
16.6000	-6.91E-08	-0.1204	-0.02458	1.72E-07	2.3954	562973.	0.4667	1350000.	0.00
16.8000	-3.90E-08	-0.1160	0.04841	1.30E-07	2.3075	562973.	0.2631	1350000.	0.00
17.0000	-1.71E-08	-0.1010	0.08624	9.16E-08	2.0102	562973.	0.1152	1350000.	0.00

17.2000	-2.33E-09	-0.08149	0.09934	5.92E-08	1.6212	562973.	0.01575	1350000.	0.00
17.4000	6.61E-09	-0.06131	0.09645	3.38E-08	1.2197	562973.	-0.04463	1350000.	0.00
17.6000	1.12E-08	-0.04291	0.08443	1.53E-08	0.8537	562973.	-0.07561	1350000.	0.00
17.8000	1.27E-08	-0.02754	0.06827	2.81E-09	0.5478	562973.	-0.08601	1350000.	0.00
18.0000	1.23E-08	-0.01560	0.05134	-4.85E-09	0.3104	562973.	-0.08321	1350000.	0.00
18.2000	1.08E-08	-0.00700	0.03573	-8.86E-09	0.1392	562973.	-0.07292	1350000.	0.00
18.4000	8.78E-09	-0.00131	0.02251	-1.03E-08	0.02607	562973.	-0.05928	1350000.	0.00
18.6000	6.67E-09	0.00201	0.01208	-1.02E-08	0.03990	562973.	-0.04501	1350000.	0.00
18.8000	4.70E-09	0.00352	0.00441	-9.23E-09	0.07006	562973.	-0.03170	1350000.	0.00
19.0000	2.97E-09	0.00377	-7.68E-04	-7.94E-09	0.07499	562973.	-0.02008	1350000.	0.00
19.2000	1.52E-09	0.00321	-0.00380	-6.70E-09	0.06395	562973.	-0.01027	1350000.	0.00
19.4000	2.95E-10	0.00225	-0.00503	-5.73E-09	0.04473	562973.	-0.00199	1350000.	0.00
19.6000	-7.70E-10	0.00120	-0.00471	-5.11E-09	0.02393	562973.	0.00520	1350000.	0.00
19.8000	-1.75E-09	3.65E-04	-0.00301	-4.84E-09	0.00726	562973.	0.01181	1350000.	0.00
20.0000	-2.70E-09	0.00	0.00	-4.77E-09	0.00	562973.	0.01826	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 10:

Pile-head deflection = 0.05930524 meters
Computed slope at pile head = -0.01314367 radians
Maximum bending moment = 1318. kN-m
Maximum shear force = 470.00000000 kN
Depth of maximum bending moment = 5.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 19
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 11

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 2700.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth	Deflect.	Bending	Shear	Slope	Total	Bending	Soil Res.	Soil Spr.	Distrib.

X	y	Moment	Force	S	Stress	Stiffness	p	Es*h	Lat. Load
meters	meters	kN-m	kN	radians	kPa*	kN-m^2	kN/m	kN/m	kN/m
0.00	1.0162	-9.38E-09	2700.	-0.1660	1.87E-07	562973.	-108.0000	10.6280	0.00
0.2000	0.9830	537.8400	2678.	-0.1659	10700.	562973.	-113.9400	23.1825	0.00
0.4000	0.9498	1071.	2654.	-0.1656	21309.	562973.	-119.8800	25.2427	0.00
0.6000	0.9167	1600.	2630.	-0.1652	31823.	562973.	-125.8200	27.4497	0.00
0.8000	0.8838	2123.	2604.	-0.1645	42237.	562973.	-131.7600	29.8181	0.00
1.0000	0.8509	2641.	2577.	-0.1636	52546.	562973.	-137.7000	32.3644	0.00
1.2000	0.8183	3154.	2549.	-0.1626	62745.	562973.	-143.6400	35.1069	0.00
1.4000	0.7859	3661.	2520.	-0.1614	72830.	562973.	-149.5800	38.0664	0.00
1.6000	0.7537	4162.	2489.	-0.1600	82796.	562973.	-155.5200	41.2663	0.00
1.8000	0.7219	4657.	2457.	-0.1584	92639.	562973.	-161.4600	44.7329	0.00
2.0000	0.6904	5145.	2425.	-0.1567	102352.	562973.	-167.4000	48.4964	0.00
2.2000	0.6592	5626.	2391.	-0.1548	111933.	562973.	-173.3400	52.5909	0.00
2.4000	0.6284	6101.	2355.	-0.1527	121376.	562973.	-179.2800	57.0553	0.00
2.6000	0.5981	6568.	2319.	-0.1505	130676.	562973.	-185.2200	61.9344	0.00
2.8000	0.5683	7029.	2281.	-0.1480	139828.	562973.	-191.1600	67.2793	0.00
3.0000	0.5389	7481.	2242.	-0.1455	148829.	562973.	-197.1000	73.1491	0.00
3.2000	0.5101	7925.	2202.	-0.1427	157672.	562973.	-203.0400	79.6124	0.00
3.4000	0.4818	8362.	2161.	-0.1398	166354.	562973.	-208.9800	86.7485	0.00
3.6000	0.4541	8790.	2119.	-0.1368	174870.	562973.	-214.9201	94.6501	0.00
3.8000	0.4271	9209.	2075.	-0.1336	183215.	562973.	-220.8601	103.4255	0.00
4.0000	0.4007	9620.	2030.	-0.1302	191384.	562973.	-226.8001	113.2024	0.00
4.2000	0.3750	10022.	1984.	-0.1268	199372.	562973.	-232.7401	124.1313	0.00
4.4000	0.3500	10414.	1937.	-0.1231	207175.	562973.	-238.6801	136.3909	0.00
4.6000	0.3257	10796.	1889.	-0.1194	214789.	562973.	-244.6201	150.1944	0.00
4.8000	0.3022	11169.	1804.	-0.1155	222207.	562973.	-603.6461	399.4365	0.00
5.0000	0.2796	11518.	1678.	-0.1114	229146.	562973.	-654.4887	468.2389	0.00
5.2000	0.2577	11841.	1542.	-0.1073	235563.	562973.	-707.3865	549.0507	0.00
5.4000	0.2366	12135.	1395.	-0.1030	241418.	562973.	-762.3395	644.3023	0.00
5.6000	0.2165	12399.	1237.	-0.09867	246666.	562973.	-819.3478	757.0197	0.00
5.8000	0.1972	12630.	1067.	-0.09422	251261.	562973.	-878.4113	891.0011	0.00
6.0000	0.1788	12826.	885.4348	-0.08970	255158.	562973.	-939.5301	1051.	0.00
6.2000	0.1613	12984.	691.2114	-0.08511	258307.	562973.	-1003.	1243.	0.00
6.4000	0.1447	13102.	484.1476	-0.08048	260659.	562973.	-1068.	1476.	0.00
6.6000	0.1291	13178.	263.8325	-0.07581	262160.	562973.	-1135.	1759.	0.00
6.8000	0.1144	13208.	29.8549	-0.07113	262758.	562973.	-1205.	2106.	0.00
7.0000	0.1007	13190.	-218.1962	-0.06644	262398.	562973.	-1276.	2535.	0.00
7.2000	0.08783	13120.	-480.7318	-0.06176	261022.	562973.	-1349.	3073.	0.00
7.4000	0.07595	12997.	-758.1630	-0.05712	258572.	562973.	-1425.	3752.	0.00
7.6000	0.06498	12817.	-1051.	-0.05254	254989.	562973.	-1502.	4624.	0.00
7.8000	0.05493	12577.	-1359.	-0.04803	250209.	562973.	-1582.	5760.	0.00
8.0000	0.04577	12273.	-1684.	-0.04361	244171.	562973.	-1664.	7270.	0.00

8.2000	0.03749	11903.	-2025.	-0.03932	236809.	562973.	-1747.	9323.	0.00
8.4000	0.03005	11463.	-2383.	-0.03517	228056.	562973.	-1833.	12203.	0.00
8.6000	0.02342	10950.	-2726.	-0.03119	217845.	562973.	-1594.	13609.	0.00
8.8000	0.01757	10373.	-3022.	-0.02740	206365.	562973.	-1363.	15519.	0.00
9.0000	0.01246	9741.	-3272.	-0.02383	193800.	562973.	-1147.	18406.	0.00
9.2000	0.00804	9064.	-3479.	-0.02049	180323.	562973.	-917.7371	22831.	0.00
9.4000	0.00426	8350.	-3636.	-0.01739	166116.	562973.	-651.4195	30554.	0.00
9.6000	0.00108	7610.	-3728.	-0.01456	151390.	562973.	-272.2982	50332.	0.00
9.8000	-0.00156	6859.	-3717.	-0.01199	136448.	562973.	383.9364	49243.	0.00
10.0000	-0.00371	6123.	-3611.	-0.00968	121811.	562973.	677.3828	36483.	0.00
10.2000	-0.00543	5414.	-3454.	-0.00763	107713.	562973.	887.9906	32692.	0.00
10.4000	-0.00677	4741.	-3260.	-0.00583	94322.	562973.	1055.	31178.	0.00
10.6000	-0.00776	4110.	-3035.	-0.00426	81770.	562973.	1191.	30683.	0.00
10.8000	-0.00847	3527.	-2786.	-0.00290	70166.	562973.	1303.	30780.	0.00
11.0000	-0.00892	2996.	-2516.	-0.00174	59599.	562973.	1396.	31277.	0.00
11.2000	-0.00917	2520.	-2230.	-7.62E-04	50143.	562973.	1470.	32082.	0.00
11.4000	-0.00923	2104.	-1930.	5.92E-05	41857.	562973.	1529.	33144.	0.00
11.6000	-0.00914	1749.	-1619.	7.44E-04	34788.	562973.	1574.	34439.	0.00
11.8000	-0.00893	1456.	-1409.	0.00131	28972.	562973.	524.9648	11755.	0.00
12.0000	-0.00862	1185.	-1305.	0.00178	23574.	562973.	520.2842	12075.	0.00
12.2000	-0.00822	934.4340	-1201.	0.00216	18590.	562973.	514.1622	12511.	0.00
12.4000	-0.00775	704.4666	-1099.	0.00245	14015.	562973.	506.7321	13070.	0.00
12.6000	-0.00724	494.7684	-998.6808	0.00266	9843.	562973.	498.1012	13761.	0.00
12.8000	-0.00669	304.9943	-900.0350	0.00280	6068.	562973.	488.3564	14601.	0.00
13.0000	-0.00612	134.7544	-803.4425	0.00288	2681.	562973.	477.5683	15613.	0.00
13.2000	-0.00554	-16.3827	-709.1063	0.00290	325.9242	562973.	465.7939	16828.	0.00
13.4000	-0.00496	-148.8881	-617.2191	0.00287	2962.	562973.	453.0787	18285.	0.00
13.6000	-0.00439	-263.2704	-527.9654	0.00280	5238.	562973.	439.4580	20038.	0.00
13.8000	-0.00384	-360.0743	-441.5239	0.00269	7163.	562973.	424.9573	22160.	0.00
14.0000	-0.00331	-439.8799	-358.0689	0.00255	8751.	562973.	409.5926	24749.	0.00
14.2000	-0.00282	-503.3018	-277.7726	0.00238	10013.	562973.	393.3699	27939.	0.00
14.4000	-0.00236	-550.9890	-200.8073	0.00219	10962.	562973.	376.2831	31920.	0.00
14.6000	-0.00194	-583.6248	-127.3478	0.00199	11611.	562973.	358.3120	36968.	0.00
14.8000	-0.00156	-601.9281	-57.5750	0.00178	11975.	562973.	339.4164	43492.	0.00
15.0000	-0.00123	-606.6547	8.3195	0.00157	12069.	562973.	319.5278	52129.	0.00
15.2000	-9.34E-04	-598.6003	70.1255	0.00135	11909.	562973.	298.5326	63920.	0.00
15.4000	-6.85E-04	-578.6045	127.6028	0.00114	11511.	562973.	276.2400	80677.	0.00
15.6000	-4.77E-04	-547.5592	180.4581	9.44E-04	10893.	562973.	252.3137	105874.	0.00
15.8000	-3.07E-04	-506.4213	228.2999	7.56E-04	10075.	562973.	226.1042	147125.	0.00
16.0000	-1.74E-04	-456.2392	270.5250	5.85E-04	9077.	562973.	196.1470	225356.	0.00
16.2000	-7.32E-05	-398.2113	305.9353	4.34E-04	7922.	562973.	157.9561	431532.	0.00
16.4000	-6.31E-07	-333.8651	322.1566	3.04E-04	6642.	562973.	4.2561	1350000.	0.00
16.6000	4.82E-05	-269.3486	308.3521	1.96E-04	5359.	562973.	-142.3009	590161.	0.00
16.8000	7.79E-05	-210.5242	278.0772	1.11E-04	4188.	562973.	-160.4484	411713.	0.00

17.0000	9.27E-05	-158.1178	245.2765	4.57E-05	3146.	562973.	-167.5579	361501.	0.00
17.2000	9.62E-05	-112.4136	211.6079	-2.34E-06	2236.	562973.	-169.1286	351523.	0.00
17.4000	9.18E-05	-73.4746	177.9817	-3.54E-05	1462.	562973.	-167.1330	364267.	0.00
17.6000	8.21E-05	-41.2209	145.0146	-5.57E-05	820.0646	562973.	-162.5382	396042.	0.00
17.8000	6.95E-05	-15.4688	113.1709	-6.58E-05	307.7417	562973.	-155.8991	448826.	0.00
18.0000	5.58E-05	4.0474	82.8248	-6.78E-05	80.5207	562973.	-147.5618	529283.	0.00
18.2000	4.23E-05	17.6611	54.2942	-6.40E-05	351.3571	562973.	-137.7441	650716.	0.00
18.4000	3.02E-05	25.7651	27.8642	-5.63E-05	512.5802	562973.	-126.5559	839007.	0.00
18.6000	1.98E-05	28.8068	3.8132	-4.66E-05	573.0934	562973.	-113.9540	1149281.	0.00
18.8000	1.15E-05	27.2904	-15.3715	-3.66E-05	542.9248	562973.	-77.8932	1350000.	0.00
19.0000	5.19E-06	22.6582	-26.6627	-2.77E-05	450.7709	562973.	-35.0190	1350000.	0.00
19.2000	4.46E-07	16.6253	-30.4658	-2.08E-05	330.7497	562973.	-3.0116	1350000.	0.00
19.4000	-3.11E-06	10.4719	-28.6647	-1.59E-05	208.3319	562973.	21.0224	1350000.	0.00
19.6000	-5.93E-06	5.1594	-22.5591	-1.32E-05	102.6432	562973.	40.0341	1350000.	0.00
19.8000	-8.38E-06	1.4483	-12.8985	-1.20E-05	28.8126	562973.	56.5713	1350000.	0.00
20.0000	-1.07E-05	0.00	0.00	-1.17E-05	0.00	562973.	72.4140	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 11:

Pile-head deflection = 1.01618385 meters
Computed slope at pile head = -0.16600718 radians
Maximum bending moment = 13208. kN-m
Maximum shear force = -3728. kN
Depth of maximum bending moment = 6.80000000 meters below pile head
Depth of maximum shear force = 9.60000000 meters below pile head
Number of iterations = 42
Number of zero deflection points = 3

Summary of Pile-head Responses for Conventional Analyses

Definitions of Pile-head Loading Conditions:

Load Type 1: Load 1 = Shear, V, kN, and Load 2 = Moment, M, kN-m
Load Type 2: Load 1 = Shear, V, kN, and Load 2 = Slope, S, radians
Load Type 3: Load 1 = Shear, V, kN, and Load 2 = Rot. Stiffness, R, kN-m/rad.
Load Type 4: Load 1 = Top Deflection, y, m, and Load 2 = Moment, M, kN-m
Load Type 5: Load 1 = Top Deflection, y, m, and Load 2 = Slope, S, radians

Load Case No.	Load Type 1	Pile-head Load 1	Load Type 2	Pile-head Load 2	Axial Loading kN	Pile-head Deflection meters	Pile-head Rotation radians	Max Shear in Pile kN	Max Moment in Pile kN-m
1	V, kN	50.0000	M, kN-m	0.00	0.00	0.00116	-4.30E-04	50.0000	63.9814
2	V, kN	75.0000	M, kN-m	0.00	0.00	0.00247	-8.17E-04	75.0000	109.3911
3	V, kN	100.0000	M, kN-m	0.00	0.00	0.00425	-0.00129	100.0000	159.5369
4	V, kN	125.0000	M, kN-m	0.00	0.00	0.00640	-0.00183	125.0000	214.5561
5	V, kN	150.0000	M, kN-m	0.00	0.00	0.00889	-0.00243	150.0000	273.9199
6	V, kN	200.0000	M, kN-m	0.00	0.00	0.01474	-0.00378	200.0000	404.5209
7	V, kN	300.0000	M, kN-m	0.00	0.00	0.02912	-0.00691	300.0000	708.7009
8	V, kN	400.0000	M, kN-m	0.00	0.00	0.04616	-0.01047	400.0000	1057.
9	V, kN	450.0000	M, kN-m	0.00	0.00	0.05546	-0.01237	450.0000	1242.
10	V, kN	470.0000	M, kN-m	0.00	0.00	0.05931	-0.01314	470.0000	1318.
11	V, kN	2700.	M, kN-m	0.00	0.00	1.0162	-0.1660	-3728.	13208.

Maximum pile-head deflection = 1.0161838493 meters
Maximum pile-head rotation = -0.1660071822 radians = -9.511511 deg.

The analysis ended normally.

Opera IV01 (Pile centrali) – D1000

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LPile for Windows, Version 2016-09.009

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method
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Files Used for Analysis

Path to file locations:
\m9159\Work\07_Pali\IV01\LPILE\

Name of input data file:
IV01_Pile_D1000.lp9d

Name of output report file:
IV01_Pile_D1000.lp9o

Name of plot output file:
IV01_Pile_D1000.lp9p

Name of runtime message file:
IV01_Pile_D1000.lp9r

Date and Time of Analysis

Date: June 10, 2019 Time: 15:22:37

Problem Title

Project Name: VI02 - Spalle e pila
Job Number:
Client:
Engineer:
Description:

Program Options and Settings

Computational Options:
- Use unfactored loads in computations (conventional analysis)

Engineering Units Used for Data Input and Computations:
- International System Units (kilonewtons, meters, millimeters)

Analysis Control Options:
- Maximum number of iterations allowed = 500
- Deflection tolerance for convergence = 2.5400E-07 m
- Maximum allowable deflection = 2.5400 m
- Number of pile increments = 100

Loading Type and Number of Cycles of Loading:
- Static loading specified

- Use of p-y modification factors for p-y curves not selected
- No distributed lateral loads are entered
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected

- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:
- Output files use decimal points to denote decimal symbols.
- Values of pile-head deflection, bending moment, shear force, and soil reaction are printed for full length of pile.
- Printing Increment (nodal spacing of output points) = 1
- p-y curves computed and reported at user-specified depths
- Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined = 1
Total length of pile = 20.000 m
Depth of ground surface below top of pile = 0.0000 m

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point	Depth Below Pile Head meters	Pile Diameter millimeters
1	0.000	1000.00
2	20.000	1000.00

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is an elastic pile
Cross-sectional Shape = Circular Pile
Length of section = 20.000000 m

Width of top of section = 1.000000 m
Width of bottom of section = 1.000000 m
Top Area = 0.785398 sq. m
Bottom Area = 0.785398 sq. m
Moment of Inertia at Top = 0.049087 m^4
Moment of Inertia at Bottom = 0.049087 m^4
Elastic Modulus = 28000000. kPa

Ground Slope and Pile Batter Angles

Ground Slope Angle = 0.000 degrees
= 0.000 radians

Pile Batter Angle = 0.000 degrees
= 0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 3 layers

Layer 1 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 0.0000 m
Distance from top of pile to bottom of layer = 4.800000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 45.000000 kPa
Undrained cohesion at bottom of layer = 45.000000 kPa
Epsilon-50 at top of layer = 0.015000
Epsilon-50 at bottom of layer = 0.015000

Layer 2 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer = 4.800000 m
Distance from top of pile to bottom of layer = 11.700000 m

Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Friction angle at top of layer = 36.000000 deg.
Friction angle at bottom of layer = 36.000000 deg.
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 3 is stiff clay without free water

Distance from top of pile to top of layer = 11.700000 m
Distance from top of pile to bottom of layer = 20.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 150.000000 kPa
Undrained cohesion at bottom of layer = 150.000000 kPa
Epsilon-50 at top of layer = 0.005000
Epsilon-50 at bottom of layer = 0.005000

(Depth of the lowest soil layer extends 0.000 m below the pile tip)

Summary of Input Soil Properties

Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth m	Effective Unit Wt. kN/m3	Undrained Cohesion kPa	Angle of Friction deg.	E50 or krm	kpy kN/m3
1	Soft Clay	0.00	9.0000	45.0000	--	0.01500	--
		4.8000	9.0000	45.0000	--	0.01500	--
2	Sand (Reese, et al.)	4.8000	9.0000	--	36.0000	--	default
		11.7000	9.0000	--	36.0000	--	default
3	Stiff Clay w/o Free Water	11.7000	9.0000	150.0000	--	0.00500	--
		20.0000	9.0000	150.0000	--	0.00500	--

Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 15

Load No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, kN	Compute Top y vs. Pile Length
1	1	V = 50.000000 kN	M = 0.0000 m-kN	0.0000000	No
2	1	V = 75.000000 kN	M = 0.0000 m-kN	0.0000000	No
3	1	V = 100.000000 kN	M = 0.0000 m-kN	0.0000000	No
4	1	V = 125.000000 kN	M = 0.0000 m-kN	0.0000000	No
5	1	V = 150.000000 kN	M = 0.0000 m-kN	0.0000000	No
6	1	V = 200.000000 kN	M = 0.0000 m-kN	0.0000000	No
7	1	V = 300.000000 kN	M = 0.0000 m-kN	0.0000000	No
8	1	V = 400.000000 kN	M = 0.0000 m-kN	0.0000000	No
9	1	V = 450.000000 kN	M = 0.0000 m-kN	0.0000000	No
10	1	V = 470.000000 kN	M = 0.0000 m-kN	0.0000000	No
11	1	V = 500.000000 kN	M = 0.0000 m-kN	0.0000000	No
12	1	V = 600.000000 kN	M = 0.0000 m-kN	0.0000000	No
13	1	V = 700.000000 kN	M = 0.0000 m-kN	0.0000000	No
14	1	V = 800.000000 kN	M = 0.0000 m-kN	0.0000000	No
15	1	V = 4300. kN	M = 0.0000 m-kN	0.0000000	No

V = shear force applied normal to pile axis
M = bending moment applied to pile head
y = lateral deflection normal to pile axis
S = pile slope relative to original pile batter angle
R = rotational stiffness applied to pile head
Values of top y vs. pile lengths can be computed only for load types with specified shear loading (Load Types 1, 2, and 3).
Thrust force is assumed to be acting axially for all pile batter angles.

Specified Depths for Output of p-y Curves

Lateral load-transfer (p-y) curves are computed and output at 6 depths.
(Note that load-transfer values are computeded at the specified depths and
may differ from values computed at nodal points)

Depth No.	Depth Below Pile Head m	Depth Below Ground Surface m
1	0.200	0.200
2	4.600	4.600
3	5.000	5.000
4	11.500	11.500
5	11.900	11.900
6	19.800	19.800

Depth of ground surface below top of pile = 0.0000 m

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

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Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Moment-curvature properties were derived from elastic section properties

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Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head meters	Equivalent Top Depth Below Grnd Surf meters	Same Layer Type As Layer Above	Layer is Rock or is Below Rock Layer	F0 Integral for Layer kN	F1 Integral for Layer kN

1	0.00	0.00	N.A.	No	0.00	1011.
2	4.8000	3.9762	No	No	1011.	13181.
3	11.7000	11.7000	No	No	14192.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals for Layer n. Layering correction equivalent depths are computed only for soil types with both shallow-depth and deep-depth expressions for peak lateral load transfer. These soil types are soft and stiff clays, non-liquefied sands, and cemented c-phi soil.

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p-y Curves Reported for Specified Depths

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p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 0.200 m
Depth of p-y curve below ground surface = 0.200 m
Equiv. depth of p-y curve below ground surface = 0.200 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1000.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 8.571 m
Static pu_s for flat ground = 141.300 kN/m
Static pu_d for flat ground = 405.000 kN/m
y_50 = 0.03750 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 141.300 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00008889	9.42000
0.00071111	18.84000
0.00240	28.26000
0.00569	37.68000
0.01111	47.10000
0.01920	56.52000
0.03049	65.94000
0.04551	75.36000
0.06480	84.78000
0.08889	94.20000
0.11831	103.62000
0.15360	113.04000
0.19529	122.46000
0.24391	131.88000
0.30000	141.30000
0.31875	141.30000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 4.600 m
Depth of p-y curve below ground surface = 4.600 m
Equiv. depth of p-y curve below ground surface = 4.600 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1000.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 8.571 m
Static pu_s for flat ground = 279.900 kN/m
Static pu_d for flat ground = 405.000 kN/m
y_50 = 0.03750 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000

Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 279.900 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00008889	18.66000
0.00071111	37.32000
0.00240	55.98000
0.00569	74.64000
0.01111	93.30000
0.01920	111.96000
0.03049	130.62000
0.04551	149.28000
0.06480	167.94000
0.08889	186.60000
0.11831	205.26000
0.15360	223.92000
0.19529	242.58000
0.24391	261.24000
0.30000	279.90000
0.31875	279.90000

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 4.800 m
Depth of p-y curve below pile head = 5.000 m
Depth of p-y curve below ground surface = 5.000 m
Equiv. depth of p-y curve below ground surface = 4.176 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 1000.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3
K active = 0.260
K passive = 3.852

K0 = 0.400
Pst = 771.250 kN/m
Psd = 2754.030 kN/m
Ps = Pst (shallow controls) = 771.250 kN/m
A (static) = 0.8965
B (static) = 0.5247
C = Pm/(Ym^(1/n)) = 4120.7942
n = Pm/(m Ym) = 1.7643
m = (Pu-Pm)/(Yu-Ym) = 13762.6372
Yk = [c/(kx)]^(n/(n-1)) = 0.0003 m
Pk = 44.568 kN/m
Ym = b/60 = 0.0167 m
Pm = B ps = 404.685 kN/m
Yu = 3b/80 = 0.0375 m
Pu = A Ps = 691.407 kN/m
Maximum Es value = 131074.154 kN/m/m
p-multiplier = 1.00000
y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters	p, kN/m
0.00000	0.00000
0.00034002	44.56823
0.00182	115.49253
0.00331	161.84444
0.00479	199.67624
0.00628	232.66820
0.00776	262.41254
0.00925	289.77496
0.01073	315.28976
0.01221	339.31488
0.01370	362.10437
0.01518	383.84644
0.01667	404.68525
0.02708	548.04605
0.03750	691.40686
0.04500	691.40686
0.05250	691.40686

The above p-y curve was computed using internal default values of k.

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 4.800 m
Depth of p-y curve below pile head = 11.500 m
Depth of p-y curve below ground surface = 11.500 m
Equiv. depth of p-y curve below ground surface = 10.676 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 1000.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3
K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 3956.117 kN/m
Psd = 6334.268 kN/m
Ps = Pst (shallow controls) = 3956.117 kN/m
A (static) = 0.8800
B (static) = 0.5000
C = Pm/(Ym^(1/n)) = 23842.6793
n = Pm/(m Ym) = 1.6447
m = (Pu-Pm)/(Yu-Ym) = 72159.5684
Yk = [c/(kx)]^(n/(n-1)) = 0.0015 m
Pk = 465.909 kN/m
Ym = b/60 = 0.0167 m
Pm = B ps = 1978.058 kN/m
Yu = 3b/80 = 0.0375 m
Pu = A Ps = 3481.383 kN/m
Maximum Es value = 301470.555 kN/m/m
p-multiplier = 1.00000
y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters	p, kN/m

0.00000	0.00000
0.00155	465.90935
0.00292	685.99015
0.00429	867.32591
0.00567	1026.84915
0.00704	1171.74238
0.00842	1305.88545
0.00979	1431.66801
0.01117	1550.69060
0.01254	1664.08998
0.01392	1772.70939
0.01529	1877.19564
0.01667	1978.05834
0.02708	2729.72052
0.03750	3481.38269
0.04500	3481.38269
0.05250	3481.38269

The above p-y curve was computed using internal default values of k.

p-y Curve Computed Using Static Criteria for Stiff Clay without Free Water

Soil Layer Number = 3
Depth of p-y curve below pile head = 11.900 m
Depth of p-y curve below ground surface = 11.900 m
Depth of top of layer 3 below pile head = 11.700 m
Equiv. depth of p-y curve below ground surface = 11.900 m
Pile diameter = 1000.000 mm
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Undrained cohesion = 150.000 kPa
Average effective unit weight = 9.00000 kN/m3
Epsilon-50 = 0.00500
Pct = 1449.600 kN/m
Pcd = 1350.000 kN/m
Pu = 1350.000 kN/m
y50 = 0.01250 m
p-multiplier = 1.00000

y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
3.95062E-06	90.00000
0.00006321	180.00000
0.00032000	270.00000
0.00101	360.00000
0.00247	450.00000
0.00512	540.00000
0.00949	630.00000
0.01618	720.00000
0.02592	810.00000
0.03951	900.00000
0.05784	990.00000
0.08192	1080.00000
0.11283	1170.00000
0.15177	1260.00000
0.20000	1350.00000
0.25000	1350.00000

p-y Curve Computed Using Static Criteria for Stiff Clay without Free Water

Soil Layer Number = 3
Depth of p-y curve below pile head = 19.800 m
Depth of p-y curve below ground surface = 19.800 m
Depth of top of layer 3 below pile head = 11.700 m
Equiv. depth of p-y curve below ground surface = 19.800 m
Pile diameter = 1000.000 mm
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Undrained cohesion = 150.000 kPa
Average effective unit weight = 9.00000 kN/m3
Epsilon-50 = 0.00500
Pct = 2113.200 kN/m
Pcd = 1350.000 kN/m
Pu = 1350.000 kN/m
y50 = 0.01250 m
p-multiplier = 1.00000
y-multiplier = 1.00000

Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
3.95062E-06	90.00000
0.00006321	180.00000
0.00032000	270.00000
0.00101	360.00000
0.00247	450.00000
0.00512	540.00000
0.00949	630.00000
0.01618	720.00000
0.02592	810.00000
0.03951	900.00000
0.05784	990.00000
0.08192	1080.00000
0.11283	1170.00000
0.15177	1260.00000
0.20000	1350.00000
0.25000	1350.00000

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 1

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 50.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	6.14E-04	-2.98E-11	50.0000	-2.10E-04	3.04E-10	1374447.	-17.1454	2791.	0.00
0.2000	5.72E-04	9.6571	46.5328	-2.09E-04	98.3663	1374447.	-17.5266	6126.	0.00
0.4000	5.30E-04	18.6131	42.9950	-2.07E-04	189.5917	1374447.	-17.8515	6730.	0.00

0.6000	4.89E-04	26.8551	39.3980	-2.04E-04	273.5437	1374447.	-18.1186	7406.	0.00
0.8000	4.49E-04	34.3723	35.7535	-2.00E-04	350.1135	1374447.	-18.3259	8166.	0.00
1.0000	4.09E-04	41.1565	32.0738	-1.94E-04	419.2166	1374447.	-18.4718	9024.	0.00
1.2000	3.71E-04	47.2018	28.3711	-1.88E-04	480.7937	1374447.	-18.5545	9998.	0.00
1.4000	3.34E-04	52.5050	24.6584	-1.80E-04	534.8110	1374447.	-18.5723	11111.	0.00
1.6000	2.99E-04	57.0652	20.9489	-1.73E-04	581.2613	1374447.	-18.5232	12391.	0.00
1.8000	2.65E-04	60.8845	17.2560	-1.64E-04	620.1645	1374447.	-18.4052	13874.	0.00
2.0000	2.33E-04	63.9676	13.5940	-1.55E-04	651.5687	1374447.	-18.2157	15608.	0.00
2.2000	2.03E-04	66.3221	9.9772	-1.45E-04	675.5512	1374447.	-17.9522	17654.	0.00
2.4000	1.75E-04	67.9585	6.4208	-1.36E-04	692.2194	1374447.	-17.6111	20096.	0.00
2.6000	1.49E-04	68.8904	2.9409	-1.26E-04	701.7120	1374447.	-17.1883	23049.	0.00
2.8000	1.25E-04	69.1348	-0.4457	-1.16E-04	704.2016	1374447.	-16.6779	26680.	0.00
3.0000	1.03E-04	68.7121	-3.7207	-1.06E-04	699.8960	1374447.	-16.0721	31236.	0.00
3.2000	8.28E-05	67.6465	-6.8639	-9.56E-05	689.0420	1374447.	-15.3596	37102.	0.00
3.4000	6.47E-05	65.9666	-9.8522	-8.59E-05	671.9300	1374447.	-14.5231	44926.	0.00
3.6000	4.84E-05	63.7057	-12.6579	-7.65E-05	648.9006	1374447.	-13.5345	55893.	0.00
3.8000	3.41E-05	60.9034	-15.2458	-6.74E-05	620.3569	1374447.	-12.3439	72481.	0.00
4.0000	2.15E-05	57.6074	-17.5650	-5.88E-05	586.7837	1374447.	-10.8487	101086.	0.00
4.2000	1.05E-05	53.8774	-19.5275	-5.07E-05	548.7905	1374447.	-8.7755	166454.	0.00
4.4000	1.19E-06	49.7964	-20.8461	-4.31E-05	507.2217	1374447.	-4.4113	740227.	0.00
4.6000	-6.71E-06	45.5389	-20.5008	-3.62E-05	463.8556	1374447.	7.8651	234391.	0.00
4.8000	-1.33E-05	41.5961	-19.5470	-2.99E-05	423.6941	1374447.	1.6722	25166.	0.00
5.0000	-1.87E-05	37.7201	-19.1353	-2.41E-05	384.2139	1374447.	2.4453	26215.	0.00
5.2000	-2.29E-05	33.9420	-18.5782	-1.89E-05	345.7300	1374447.	3.1251	27263.	0.00
5.4000	-2.62E-05	30.2888	-17.8947	-1.42E-05	308.5194	1374447.	3.7099	28312.	0.00
5.6000	-2.86E-05	26.7841	-17.1038	-1.01E-05	272.8203	1374447.	4.1996	29361.	0.00
5.8000	-3.02E-05	23.4473	-16.2242	-6.40E-06	238.8323	1374447.	4.5960	30409.	0.00
6.0000	-3.12E-05	20.2944	-15.2744	-3.21E-06	206.7169	1374447.	4.9021	31458.	0.00
6.2000	-3.15E-05	17.3375	-14.2720	-4.77E-07	176.5987	1374447.	5.1220	32506.	0.00
6.4000	-3.14E-05	14.5856	-13.2337	1.85E-06	148.5675	1374447.	5.2609	33555.	0.00
6.6000	-3.08E-05	12.0440	-12.1752	3.78E-06	122.6797	1374447.	5.3247	34604.	0.00
6.8000	-2.98E-05	9.7155	-11.1107	5.37E-06	98.9613	1374447.	5.3199	35652.	0.00
7.0000	-2.86E-05	7.5998	-10.0534	6.63E-06	77.4105	1374447.	5.2535	36701.	0.00
7.2000	-2.72E-05	5.6941	-9.0148	7.59E-06	58.0001	1374447.	5.1325	37749.	0.00
7.4000	-2.56E-05	3.9938	-8.0051	8.30E-06	40.6809	1374447.	4.9644	38798.	0.00
7.6000	-2.39E-05	2.4921	-7.0330	8.77E-06	25.3844	1374447.	4.7564	39847.	0.00
7.8000	-2.21E-05	1.1806	-6.1058	9.04E-06	12.0258	1374447.	4.5154	40895.	0.00
8.0000	-2.03E-05	0.04978	-5.2294	9.13E-06	0.5070	1374447.	4.2486	41944.	0.00
8.2000	-1.84E-05	-0.9111	-4.4084	9.06E-06	9.2808	1374447.	3.9622	42992.	0.00
8.4000	-1.66E-05	-1.7136	-3.6459	8.87E-06	17.4542	1374447.	3.6626	44041.	0.00
8.6000	-1.49E-05	-2.3695	-2.9441	8.58E-06	24.1354	1374447.	3.3553	45090.	0.00
8.8000	-1.32E-05	-2.8912	-2.3040	8.19E-06	29.4495	1374447.	3.0456	46138.	0.00
9.0000	-1.16E-05	-3.2911	-1.7256	7.74E-06	33.5228	1374447.	2.7381	47187.	0.00
9.2000	-1.01E-05	-3.5815	-1.2081	7.24E-06	36.4804	1374447.	2.4370	48235.	0.00

9.4000	-8.71E-06	-3.7743	-0.7498	6.71E-06	38.4451	1374447.	2.1458	49284.	0.00
9.6000	-7.42E-06	-3.8814	-0.3485	6.15E-06	39.5355	1374447.	1.8676	50332.	0.00
9.8000	-6.25E-06	-3.9137	-0.00124	5.58E-06	39.8650	1374447.	1.6050	51381.	0.00
10.0000	-5.19E-06	-3.8819	0.2952	5.02E-06	39.5406	1374447.	1.3599	52430.	0.00
10.2000	-4.24E-06	-3.7956	0.5446	4.46E-06	38.6621	1374447.	1.1338	53478.	0.00
10.4000	-3.40E-06	-3.6640	0.7508	3.92E-06	37.3216	1374447.	0.9280	54527.	0.00
10.6000	-2.67E-06	-3.4953	0.9179	3.40E-06	35.6031	1374447.	0.7430	55575.	0.00
10.8000	-2.05E-06	-3.2969	1.0501	2.90E-06	33.5818	1374447.	0.5792	56624.	0.00
11.0000	-1.51E-06	-3.0753	1.1517	2.44E-06	31.3245	1374447.	0.4365	57673.	0.00
11.2000	-1.07E-06	-2.8362	1.2268	2.01E-06	28.8893	1374447.	0.3144	58721.	0.00
11.4000	-7.11E-07	-2.5846	1.2795	1.61E-06	26.3261	1374447.	0.2124	59770.	0.00
11.6000	-4.26E-07	-2.3244	1.3137	1.26E-06	23.6762	1374447.	0.1295	60818.	0.00
11.8000	-2.09E-07	-2.0591	1.4674	9.37E-07	20.9737	1374447.	1.4079	1350000.	0.00
12.0000	-5.12E-08	-1.7374	1.6428	6.60E-07	17.6975	1374447.	0.3456	1350000.	0.00
12.2000	5.56E-08	-1.4020	1.6398	4.32E-07	14.2805	1374447.	-0.3753	1350000.	0.00
12.4000	1.22E-07	-1.0815	1.5202	2.51E-07	11.0164	1374447.	-0.8209	1350000.	0.00
12.6000	1.56E-07	-0.7939	1.3327	1.15E-07	8.0868	1374447.	-1.0539	1350000.	0.00
12.8000	1.68E-07	-0.5485	1.1142	1.72E-08	5.5865	1374447.	-1.1310	1350000.	0.00
13.0000	1.63E-07	-0.3482	0.8910	-4.80E-08	3.5471	1374447.	-1.1004	1350000.	0.00
13.2000	1.48E-07	-0.1920	0.6809	-8.73E-08	1.9561	1374447.	-1.0014	1350000.	0.00
13.4000	1.28E-07	-0.07589	0.4943	-1.07E-07	0.7730	1374447.	-0.8646	1350000.	0.00
13.6000	1.06E-07	0.00567	0.3365	-1.12E-07	0.05774	1374447.	-0.7129	1350000.	0.00
13.8000	8.33E-08	0.05871	0.2090	-1.07E-07	0.5980	1374447.	-0.5624	1350000.	0.00
14.0000	6.27E-08	0.08926	0.1104	-9.65E-08	0.9092	1374447.	-0.4234	1350000.	0.00
14.2000	4.47E-08	0.1029	0.03789	-8.25E-08	1.0479	1374447.	-0.3019	1350000.	0.00
14.4000	2.97E-08	0.1044	-0.01236	-6.74E-08	1.0636	1374447.	-0.2006	1350000.	0.00
14.6000	1.78E-08	0.09793	-0.04440	-5.27E-08	0.9975	1374447.	-0.1198	1350000.	0.00
14.8000	8.64E-09	0.08666	-0.06221	-3.93E-08	0.8827	1374447.	-0.05829	1350000.	0.00
15.0000	2.04E-09	0.07305	-0.06942	-2.77E-08	0.7441	1374447.	-0.01379	1350000.	0.00
15.2000	-2.42E-09	0.05889	-0.06916	-1.81E-08	0.5998	1374447.	0.01637	1350000.	0.00
15.4000	-5.18E-09	0.04538	-0.06403	-1.05E-08	0.4623	1374447.	0.03496	1350000.	0.00
15.6000	-6.61E-09	0.03327	-0.05607	-4.75E-09	0.3389	1374447.	0.04463	1350000.	0.00
15.8000	-7.08E-09	0.02295	-0.04683	-6.54E-10	0.2338	1374447.	0.04777	1350000.	0.00
16.0000	-6.87E-09	0.01454	-0.03742	2.07E-09	0.1481	1374447.	0.04640	1350000.	0.00
16.2000	-6.25E-09	0.00799	-0.02856	3.71E-09	0.08134	1374447.	0.04217	1350000.	0.00
16.4000	-5.39E-09	0.00312	-0.02070	4.52E-09	0.03176	1374447.	0.03637	1350000.	0.00
16.6000	-4.44E-09	-2.96E-04	-0.01407	4.73E-09	0.00301	1374447.	0.02996	1350000.	0.00
16.8000	-3.50E-09	-0.00251	-0.00871	4.52E-09	0.02557	1374447.	0.02361	1350000.	0.00
17.0000	-2.63E-09	-0.00378	-0.00458	4.06E-09	0.03851	1374447.	0.01776	1350000.	0.00
17.2000	-1.87E-09	-0.00434	-0.00154	3.47E-09	0.04422	1374447.	0.01264	1350000.	0.00
17.4000	-1.24E-09	-0.00440	5.66E-04	2.84E-09	0.04477	1374447.	0.00838	1350000.	0.00
17.6000	-7.38E-10	-0.00411	0.00190	2.22E-09	0.04191	1374447.	0.00498	1350000.	0.00
17.8000	-3.54E-10	-0.00363	0.00264	1.65E-09	0.03702	1374447.	0.00239	1350000.	0.00
18.0000	-7.62E-11	-0.00306	0.00293	1.17E-09	0.03116	1374447.	5.14E-04	1350000.	0.00

18.2000	1.13E-10	-0.00246	0.00290	7.66E-10	0.02509	1374447.	-7.61E-04	1350000.	0.00
18.4000	2.30E-10	-0.00190	0.00267	4.48E-10	0.01932	1374447.	-0.00155	1350000.	0.00
18.6000	2.92E-10	-0.00139	0.00232	2.09E-10	0.01419	1374447.	-0.00197	1350000.	0.00
18.8000	3.14E-10	-9.69E-04	0.00191	3.70E-11	0.00987	1374447.	-0.00212	1350000.	0.00
19.0000	3.07E-10	-6.28E-04	0.00149	-7.91E-11	0.00640	1374447.	-0.00207	1350000.	0.00
19.2000	2.82E-10	-3.71E-04	0.00110	-1.52E-10	0.00378	1374447.	-0.00190	1350000.	0.00
19.4000	2.46E-10	-1.90E-04	7.40E-04	-1.93E-10	0.00194	1374447.	-0.00166	1350000.	0.00
19.6000	2.05E-10	-7.53E-05	4.35E-04	-2.12E-10	7.67E-04	1374447.	-0.00138	1350000.	0.00
19.8000	1.61E-10	-1.58E-05	1.88E-04	-2.19E-10	1.61E-04	1374447.	-0.00109	1350000.	0.00
20.0000	1.17E-10	0.00	0.00	-2.20E-10	0.00	1374447.	-7.92E-04	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 1:

Pile-head deflection = 0.00061426 meters
Computed slope at pile head = -0.00021017 radians
Maximum bending moment = 69.13483113 kN-m
Maximum shear force = 50.00000000 kN
Depth of maximum bending moment = 2.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 15
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 2

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 75.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00132	0.00	75.0000	-3.98E-04	0.00	1374447.	-22.1186	1677.	0.00
0.2000	0.00124	14.5576	70.5206	-3.97E-04	148.2828	1374447.	-22.6750	3659.	0.00

0.4000	0.00116	28.2083	65.9362	-3.94E-04	287.3269	1374447.	-23.1699	3994.	0.00
0.6000	0.00108	40.9321	61.2590	-3.89E-04	416.9309	1374447.	-23.6016	4364.	0.00
0.8000	0.00100	52.7119	56.5020	-3.82E-04	536.9186	1374447.	-23.9685	4773.	0.00
1.0000	9.29E-04	63.5329	51.6783	-3.74E-04	647.1407	1374447.	-24.2688	5226.	0.00
1.2000	8.55E-04	73.3832	46.8013	-3.64E-04	747.4748	1374447.	-24.5008	5732.	0.00
1.4000	7.83E-04	82.2534	41.8849	-3.53E-04	837.8264	1374447.	-24.6630	6299.	0.00
1.6000	7.14E-04	90.1371	36.9433	-3.40E-04	918.1294	1374447.	-24.7537	6936.	0.00
1.8000	6.47E-04	97.0307	31.9908	-3.27E-04	988.3468	1374447.	-24.7713	7657.	0.00
2.0000	5.83E-04	102.9334	27.0422	-3.12E-04	1048.	1374447.	-24.7140	8476.	0.00
2.2000	5.22E-04	107.8476	22.1128	-2.97E-04	1099.	1374447.	-24.5800	9413.	0.00
2.4000	4.64E-04	111.7786	17.2181	-2.81E-04	1139.	1374447.	-24.3674	10492.	0.00
2.6000	4.10E-04	114.7349	12.3740	-2.64E-04	1169.	1374447.	-24.0737	11744.	0.00
2.8000	3.59E-04	116.7282	7.5970	-2.47E-04	1189.	1374447.	-23.6965	13209.	0.00
3.0000	3.11E-04	117.7736	2.9041	-2.30E-04	1200.	1374447.	-23.2325	14939.	0.00
3.2000	2.67E-04	117.8898	-1.6869	-2.13E-04	1201.	1374447.	-22.6776	17007.	0.00
3.4000	2.26E-04	117.0989	-6.1573	-1.96E-04	1193.	1374447.	-22.0266	19512.	0.00
3.6000	1.88E-04	115.4269	-10.4872	-1.79E-04	1176.	1374447.	-21.2724	22598.	0.00
3.8000	1.54E-04	112.9040	-14.6550	-1.63E-04	1150.	1374447.	-20.4051	26479.	0.00
4.0000	1.23E-04	109.5649	-18.6365	-1.46E-04	1116.	1374447.	-19.4099	31493.	0.00
4.2000	9.56E-05	105.4494	-22.4039	-1.31E-04	1074.	1374447.	-18.2643	38213.	0.00
4.4000	7.10E-05	100.6033	-25.9234	-1.16E-04	1025.	1374447.	-16.9309	47700.	0.00
4.6000	4.93E-05	95.0800	-29.1507	-1.01E-04	968.4773	1374447.	-15.3423	62222.	0.00
4.8000	3.04E-05	88.9430	-31.0676	-8.81E-05	905.9664	1374447.	-3.8261	25166.	0.00
5.0000	1.41E-05	82.6530	-31.6348	-7.56E-05	841.8967	1374447.	-1.8465	26215.	0.00
5.2000	1.74E-07	76.2891	-31.8218	-6.40E-05	777.0746	1374447.	-0.02368	27263.	0.00
5.4000	-1.15E-05	69.9243	-31.6611	-5.34E-05	712.2429	1374447.	1.6307	28312.	0.00
5.6000	-2.12E-05	63.6247	-31.1872	-4.37E-05	648.0756	1374447.	3.1090	29361.	0.00
5.8000	-2.90E-05	57.4494	-30.4355	-3.49E-05	585.1750	1374447.	4.4071	30409.	0.00
6.0000	-3.51E-05	51.4505	-29.4424	-2.69E-05	524.0700	1374447.	5.5240	31458.	0.00
6.2000	-3.98E-05	45.6724	-28.2438	-1.99E-05	465.2157	1374447.	6.4619	32506.	0.00
6.4000	-4.31E-05	40.1529	-26.8751	-1.36E-05	408.9943	1374447.	7.2254	33555.	0.00
6.6000	-4.52E-05	34.9224	-25.3704	-8.16E-06	355.7167	1374447.	7.8215	34604.	0.00
6.8000	-4.63E-05	30.0048	-23.7624	-3.43E-06	305.6259	1374447.	8.2588	35652.	0.00
7.0000	-4.66E-05	25.4175	-22.0817	5.98E-07	258.9001	1374447.	8.5476	36701.	0.00
7.2000	-4.61E-05	21.1721	-20.3570	3.99E-06	215.6568	1374447.	8.6995	37749.	0.00
7.4000	-4.50E-05	17.2746	-18.6144	6.78E-06	175.9580	1374447.	8.7266	38798.	0.00
7.6000	-4.34E-05	13.7263	-16.8776	9.04E-06	139.8148	1374447.	8.6421	39847.	0.00
7.8000	-4.14E-05	10.5236	-15.1675	1.08E-05	107.1927	1374447.	8.4590	40895.	0.00
8.0000	-3.91E-05	7.6593	-13.5025	1.21E-05	78.0170	1374447.	8.1906	41944.	0.00
8.2000	-3.65E-05	5.1226	-11.8985	1.31E-05	52.1785	1374447.	7.8500	42992.	0.00
8.4000	-3.38E-05	2.8999	-10.3685	1.36E-05	29.5384	1374447.	7.4500	44041.	0.00
8.6000	-3.11E-05	0.9752	-8.9232	1.39E-05	9.9336	1374447.	7.0028	45090.	0.00
8.8000	-2.83E-05	-0.6694	-7.5709	1.39E-05	6.8180	1374447.	6.5200	46138.	0.00
9.0000	-2.55E-05	-2.0531	-6.3177	1.37E-05	20.9130	1374447.	6.0124	47187.	0.00

9.2000	-2.28E-05	-3.1964	-5.1674	1.34E-05	32.5584	1374447.	5.4901	48235.	0.00
9.4000	-2.01E-05	-4.1201	-4.1222	1.28E-05	41.9670	1374447.	4.9623	49284.	0.00
9.6000	-1.76E-05	-4.8453	-3.1822	1.22E-05	49.3537	1374447.	4.4370	50332.	0.00
9.8000	-1.53E-05	-5.3930	-2.3464	1.14E-05	54.9326	1374447.	3.9217	51381.	0.00
10.0000	-1.31E-05	-5.7838	-1.6119	1.06E-05	58.9136	1374447.	3.4228	52430.	0.00
10.2000	-1.10E-05	-6.0378	-0.9751	9.76E-06	61.5001	1374447.	2.9456	53478.	0.00
10.4000	-9.15E-06	-6.1739	-0.4310	8.87E-06	62.8864	1374447.	2.4950	54527.	0.00
10.6000	-7.47E-06	-6.2102	0.02598	7.97E-06	63.2562	1374447.	2.0748	55575.	0.00
10.8000	-5.96E-06	-6.1635	0.4023	7.07E-06	62.7806	1374447.	1.6881	56624.	0.00
11.0000	-4.64E-06	-6.0493	0.7048	6.18E-06	61.6172	1374447.	1.3373	57673.	0.00
11.2000	-3.49E-06	-5.8815	0.9410	5.32E-06	59.9089	1374447.	1.0243	58721.	0.00
11.4000	-2.51E-06	-5.6729	1.1185	4.48E-06	57.7833	1374447.	0.7505	59770.	0.00
11.6000	-1.70E-06	-5.4342	1.2452	3.67E-06	55.3519	1374447.	0.5165	60818.	0.00
11.8000	-1.04E-06	-5.1748	2.0017	2.90E-06	52.7101	1374447.	7.0488	1350000.	0.00
12.0000	-5.40E-07	-4.6335	3.0714	2.18E-06	47.1963	1374447.	3.6483	1350000.	0.00
12.2000	-1.72E-07	-3.9462	3.5520	1.56E-06	40.1960	1374447.	1.1580	1350000.	0.00
12.4000	8.25E-08	-3.2127	3.6121	1.04E-06	32.7240	1374447.	-0.5572	1350000.	0.00
12.6000	2.43E-07	-2.5014	3.3923	6.21E-07	25.4790	1374447.	-1.6412	1350000.	0.00
12.8000	3.31E-07	-1.8558	3.0048	3.04E-07	18.9026	1374447.	-2.2338	1350000.	0.00
13.0000	3.65E-07	-1.2995	2.5352	7.44E-08	13.2364	1374447.	-2.4619	1350000.	0.00
13.2000	3.61E-07	-0.8417	2.0456	-8.14E-08	8.5732	1374447.	-2.4347	1350000.	0.00
13.4000	3.32E-07	-0.4813	1.5779	-1.78E-07	4.9020	1374447.	-2.2421	1350000.	0.00
13.6000	2.90E-07	-0.2105	1.1582	-2.28E-07	2.1443	1374447.	-1.9551	1350000.	0.00
13.8000	2.41E-07	-0.01799	0.8000	-2.45E-07	0.1832	1374447.	-1.6266	1350000.	0.00
14.0000	1.92E-07	0.1095	0.5079	-2.38E-07	1.1151	1374447.	-1.2947	1350000.	0.00
14.2000	1.46E-07	0.1852	0.2800	-2.16E-07	1.8859	1374447.	-0.9842	1350000.	0.00
14.4000	1.05E-07	0.2215	0.1105	-1.87E-07	2.2558	1374447.	-0.7101	1350000.	0.00
14.6000	7.10E-08	0.2294	-0.00845	-1.54E-07	2.3363	1374447.	-0.4796	1350000.	0.00
14.8000	4.36E-08	0.2181	-0.08581	-1.22E-07	2.2213	1374447.	-0.2940	1350000.	0.00
15.0000	2.24E-08	0.1950	-0.1304	-9.15E-08	1.9866	1374447.	-0.1514	1350000.	0.00
15.2000	6.96E-09	0.1659	-0.1502	-6.52E-08	1.6902	1374447.	-0.04700	1350000.	0.00
15.4000	-3.67E-09	0.1350	-0.1524	-4.33E-08	1.3747	1374447.	0.02478	1350000.	0.00
15.6000	-1.04E-08	0.1050	-0.1429	-2.59E-08	1.0693	1374447.	0.07004	1350000.	0.00
15.8000	-1.40E-08	0.07779	-0.1265	-1.26E-08	0.7924	1374447.	0.09467	1350000.	0.00
16.0000	-1.54E-08	0.05439	-0.1066	-2.97E-09	0.5540	1374447.	0.1040	1350000.	0.00
16.2000	-1.52E-08	0.03516	-0.08591	3.54E-09	0.3581	1374447.	0.1027	1350000.	0.00
16.4000	-1.40E-08	0.02003	-0.06620	7.56E-09	0.2040	1374447.	0.09446	1350000.	0.00
16.6000	-1.22E-08	0.00868	-0.04852	9.65E-09	0.08838	1374447.	0.08229	1350000.	0.00
16.8000	-1.01E-08	6.18E-04	-0.03345	1.03E-08	0.00630	1374447.	0.06842	1350000.	0.00
17.0000	-8.06E-09	-0.00470	-0.02117	1.00E-08	0.04791	1374447.	0.05442	1350000.	0.00
17.2000	-6.13E-09	-0.00785	-0.01159	9.11E-09	0.07995	1374447.	0.04135	1350000.	0.00
17.4000	-4.42E-09	-0.00934	-0.00447	7.86E-09	0.09514	1374447.	0.02982	1350000.	0.00
17.6000	-2.98E-09	-0.00964	5.22E-04	6.48E-09	0.09817	1374447.	0.02013	1350000.	0.00
17.8000	-1.83E-09	-0.00913	0.00377	5.11E-09	0.09301	1374447.	0.01232	1350000.	0.00

18.0000	-9.36E-10	-0.00813	0.00563	3.86E-09	0.08282	1374447.	0.00632	1350000.	0.00
18.2000	-2.82E-10	-0.00688	0.00645	2.77E-09	0.07007	1374447.	0.00191	1350000.	0.00
18.4000	1.71E-10	-0.00555	0.00653	1.86E-09	0.05653	1374447.	-0.00115	1350000.	0.00
18.6000	4.63E-10	-0.00427	0.00610	1.15E-09	0.04346	1374447.	-0.00312	1350000.	0.00
18.8000	6.30E-10	-0.00311	0.00536	6.11E-10	0.03167	1374447.	-0.00425	1350000.	0.00
19.0000	7.07E-10	-0.00212	0.00446	2.31E-10	0.02161	1374447.	-0.00477	1350000.	0.00
19.2000	7.22E-10	-0.00132	0.00350	-1.98E-11	0.01349	1374447.	-0.00488	1350000.	0.00
19.4000	6.99E-10	-7.23E-04	0.00254	-1.69E-10	0.00736	1374447.	-0.00472	1350000.	0.00
19.6000	6.55E-10	-3.10E-04	0.00162	-2.44E-10	0.00316	1374447.	-0.00442	1350000.	0.00
19.8000	6.02E-10	-7.37E-05	7.75E-04	-2.72E-10	7.51E-04	1374447.	-0.00406	1350000.	0.00
20.0000	5.46E-10	0.00	0.00	-2.77E-10	0.00	1374447.	-0.00369	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 2:

Pile-head deflection = 0.00131908 meters
Computed slope at pile head = -0.00039845 radians
Maximum bending moment = 117.88981675 kN-m
Maximum shear force = 75.00000000 kN
Depth of maximum bending moment = 3.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 18
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 3

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 100.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00227	-2.24E-10	100.0000	-6.28E-04	2.28E-09	1374447.	-26.5081	1167.	0.00

0.2000	0.00215	19.4698	94.6268	-6.27E-04	198.3181	1374447.	-27.2239	2538.	0.00
0.4000	0.00202	37.8507	89.1170	-6.22E-04	385.5443	1374447.	-27.8741	2759.	0.00
0.6000	0.00190	55.1166	83.4839	-6.16E-04	561.4135	1374447.	-28.4570	3001.	0.00
0.8000	0.00177	71.2443	77.7411	-6.06E-04	725.6882	1374447.	-28.9707	3266.	0.00
1.0000	0.00165	86.2131	71.9027	-5.95E-04	878.1593	1374447.	-29.4137	3557.	0.00
1.2000	0.00154	100.0053	65.9829	-5.81E-04	1019.	1374447.	-29.7842	3878.	0.00
1.4000	0.00142	112.6062	59.9964	-5.66E-04	1147.	1374447.	-30.0808	4233.	0.00
1.6000	0.00131	124.0039	53.9581	-5.49E-04	1263.	1374447.	-30.3018	4628.	0.00
1.8000	0.00120	134.1895	47.8834	-5.30E-04	1367.	1374447.	-30.4458	5068.	0.00
2.0000	0.00110	143.1573	41.7877	-5.10E-04	1458.	1374447.	-30.5112	5560.	0.00
2.2000	9.98E-04	150.9046	35.6869	-4.88E-04	1537.	1374447.	-30.4965	6114.	0.00
2.4000	9.02E-04	157.4320	29.5972	-4.66E-04	1604.	1374447.	-30.4002	6739.	0.00
2.6000	8.11E-04	162.7435	23.5352	-4.43E-04	1658.	1374447.	-30.2206	7450.	0.00
2.8000	7.25E-04	166.8461	17.5175	-4.19E-04	1699.	1374447.	-29.9559	8263.	0.00
3.0000	6.44E-04	169.7505	11.5615	-3.94E-04	1729.	1374447.	-29.6041	9197.	0.00
3.2000	5.67E-04	171.4707	5.6848	-3.69E-04	1747.	1374447.	-29.1630	10280.	0.00
3.4000	4.96E-04	172.0244	-0.09446	-3.44E-04	1752.	1374447.	-28.6298	11544.	0.00
3.6000	4.30E-04	171.4329	-5.7576	-3.19E-04	1746.	1374447.	-28.0013	13035.	0.00
3.8000	3.68E-04	169.7214	-11.2850	-2.95E-04	1729.	1374447.	-27.2732	14813.	0.00
4.0000	3.12E-04	166.9189	-16.6563	-2.70E-04	1700.	1374447.	-26.4398	16961.	0.00
4.2000	2.60E-04	163.0588	-21.8497	-2.46E-04	1661.	1374447.	-25.4936	19597.	0.00
4.4000	2.13E-04	158.1790	-26.8414	-2.23E-04	1611.	1374447.	-24.4237	22898.	0.00
4.6000	1.71E-04	152.3223	-31.6052	-2.00E-04	1552.	1374447.	-23.2143	27139.	0.00
4.8000	1.33E-04	145.5370	-35.6035	-1.78E-04	1482.	1374447.	-16.7688	25166.	0.00
5.0000	9.97E-05	138.0809	-38.5870	-1.58E-04	1406.	1374447.	-13.0662	26215.	0.00
5.2000	7.01E-05	130.1021	-40.8496	-1.38E-04	1325.	1374447.	-9.5594	27263.	0.00
5.4000	4.44E-05	121.7410	-42.4334	-1.20E-04	1240.	1374447.	-6.2785	28312.	0.00
5.6000	2.21E-05	113.1288	-43.3860	-1.03E-04	1152.	1374447.	-3.2476	29361.	0.00
5.8000	3.18E-06	104.3866	-43.7592	-8.71E-05	1063.	1374447.	-0.4841	30409.	0.00
6.0000	-1.27E-05	95.6251	-43.6075	-7.25E-05	974.0296	1374447.	2.0002	31458.	0.00
6.2000	-2.58E-05	86.9436	-42.9876	-5.93E-05	885.6005	1374447.	4.1988	32506.	0.00
6.4000	-3.64E-05	78.4301	-41.9567	-4.72E-05	798.8822	1374447.	6.1105	33555.	0.00
6.6000	-4.47E-05	70.1609	-40.5718	-3.64E-05	714.6535	1374447.	7.7383	34604.	0.00
6.8000	-5.10E-05	62.2013	-38.8891	-2.68E-05	633.5777	1374447.	9.0892	35652.	0.00
7.0000	-5.54E-05	54.6053	-36.9628	-1.83E-05	556.2052	1374447.	10.1736	36701.	0.00
7.2000	-5.83E-05	47.4162	-34.8450	-1.09E-05	482.9777	1374447.	11.0047	37749.	0.00
7.4000	-5.98E-05	40.6673	-32.5847	-4.46E-06	414.2340	1374447.	11.5981	38798.	0.00
7.6000	-6.01E-05	34.3823	-30.2278	1.00E-06	350.2157	1374447.	11.9713	39847.	0.00
7.8000	-5.94E-05	28.5762	-27.8163	5.58E-06	291.0750	1374447.	12.1430	40895.	0.00
8.0000	-5.79E-05	23.2558	-25.3887	9.35E-06	236.8818	1374447.	12.1330	41944.	0.00
8.2000	-5.56E-05	18.4207	-22.9793	1.24E-05	187.6320	1374447.	11.9614	42992.	0.00
8.4000	-5.29E-05	14.0641	-20.6183	1.47E-05	143.2558	1374447.	11.6486	44041.	0.00
8.6000	-4.97E-05	10.1734	-18.3319	1.65E-05	103.6257	1374447.	11.2148	45090.	0.00
8.8000	-4.63E-05	6.7313	-16.1425	1.77E-05	68.5649	1374447.	10.6796	46138.	0.00

9.0000	-4.26E-05	3.7164	-14.0683	1.85E-05	37.8553	1374447.	10.0619	47187.	0.00
9.2000	-3.89E-05	1.1040	-12.1242	1.89E-05	11.2453	1374447.	9.3800	48235.	0.00
9.4000	-3.51E-05	-1.1332	-10.3211	1.89E-05	11.5430	1374447.	8.6507	49284.	0.00
9.6000	-3.14E-05	-3.0244	-8.6670	1.85E-05	30.8066	1374447.	7.8900	50332.	0.00
9.8000	-2.77E-05	-4.6000	-7.1667	1.80E-05	46.8556	1374447.	7.1126	51381.	0.00
10.0000	-2.42E-05	-5.8911	-5.8223	1.72E-05	60.0066	1374447.	6.3319	52430.	0.00
10.2000	-2.08E-05	-6.9290	-4.6331	1.63E-05	70.5777	1374447.	5.5599	53478.	0.00
10.4000	-1.76E-05	-7.7444	-3.5964	1.52E-05	78.8836	1374447.	4.8077	54527.	0.00
10.6000	-1.47E-05	-8.3675	-2.7071	1.41E-05	85.2307	1374447.	4.0850	55575.	0.00
10.8000	-1.20E-05	-8.8272	-1.9586	1.28E-05	89.9133	1374447.	3.4005	56624.	0.00
11.0000	-9.58E-06	-9.1509	-1.3423	1.15E-05	93.2105	1374447.	2.7618	57673.	0.00
11.2000	-7.41E-06	-9.3641	-0.8486	1.02E-05	95.3824	1374447.	2.1758	58721.	0.00
11.4000	-5.52E-06	-9.4903	-0.4661	8.78E-06	96.6679	1374447.	1.6486	59770.	0.00
11.6000	-3.90E-06	-9.5506	-0.1827	7.40E-06	97.2816	1374447.	1.1854	60818.	0.00
11.8000	-2.56E-06	-9.5634	1.6626	6.00E-06	97.4123	1374447.	17.2674	1350000.	0.00
12.0000	-1.50E-06	-8.8856	4.3993	4.66E-06	90.5077	1374447.	10.1000	1350000.	0.00
12.2000	-6.93E-07	-7.8037	5.8771	3.45E-06	79.4880	1374447.	4.6781	1350000.	0.00
12.4000	-1.17E-07	-6.5347	6.4239	2.41E-06	66.5622	1374447.	0.7892	1350000.	0.00
12.6000	2.69E-07	-5.2342	6.3212	1.55E-06	53.3148	1374447.	-1.8160	1350000.	0.00
12.8000	5.03E-07	-4.0063	5.8003	8.77E-07	40.8074	1374447.	-3.3930	1350000.	0.00
13.0000	6.20E-07	-2.9141	5.0427	3.73E-07	29.6824	1374447.	-4.1830	1350000.	0.00
13.2000	6.52E-07	-1.9892	4.1843	1.64E-08	20.2616	1374447.	-4.4005	1350000.	0.00
13.4000	6.26E-07	-1.2403	3.3216	-2.19E-07	12.6338	1374447.	-4.2273	1350000.	0.00
13.6000	5.65E-07	-0.6606	2.5178	-3.57E-07	6.7284	1374447.	-3.8104	1350000.	0.00
13.8000	4.84E-07	-0.2332	1.8104	-4.22E-07	2.3755	1374447.	-3.2638	1350000.	0.00
14.0000	3.96E-07	0.06358	1.2168	-4.34E-07	0.6476	1374447.	-2.6714	1350000.	0.00
14.2000	3.10E-07	0.2535	0.7406	-4.11E-07	2.5824	1374447.	-2.0914	1350000.	0.00
14.4000	2.31E-07	0.3598	0.3753	-3.67E-07	3.6649	1374447.	-1.5613	1350000.	0.00
14.6000	1.63E-07	0.4036	0.1090	-3.11E-07	4.1114	1374447.	-1.1018	1350000.	0.00
14.8000	1.07E-07	0.4034	-0.07337	-2.52E-07	4.1089	1374447.	-0.7216	1350000.	0.00
15.0000	6.23E-08	0.3743	-0.1876	-1.96E-07	3.8124	1374447.	-0.4207	1350000.	0.00
15.2000	2.86E-08	0.3283	-0.2490	-1.45E-07	3.3445	1374447.	-0.1933	1350000.	0.00
15.4000	4.50E-09	0.2747	-0.2714	-1.01E-07	2.7979	1374447.	-0.03040	1350000.	0.00
15.6000	-1.16E-08	0.2198	-0.2666	-6.47E-08	2.2388	1374447.	0.07854	1350000.	0.00
15.8000	-2.14E-08	0.1681	-0.2443	-3.65E-08	1.7118	1374447.	0.1443	1350000.	0.00
16.0000	-2.62E-08	0.1221	-0.2121	-1.54E-08	1.2435	1374447.	0.1771	1350000.	0.00
16.2000	-2.75E-08	0.08319	-0.1759	-4.44E-10	0.8474	1374447.	0.1858	1350000.	0.00
16.4000	-2.64E-08	0.05174	-0.1394	9.37E-09	0.5270	1374447.	0.1783	1350000.	0.00
16.6000	-2.38E-08	0.02741	-0.1056	1.51E-08	0.2792	1374447.	0.1605	1350000.	0.00
16.8000	-2.04E-08	0.00951	-0.07578	1.78E-08	0.09687	1374447.	0.1374	1350000.	0.00
17.0000	-1.67E-08	-0.00290	-0.05080	1.83E-08	0.02951	1374447.	0.1124	1350000.	0.00
17.2000	-1.30E-08	-0.01081	-0.03076	1.73E-08	0.1101	1374447.	0.08799	1350000.	0.00
17.4000	-9.73E-09	-0.01520	-0.01539	1.54E-08	0.1548	1374447.	0.06570	1350000.	0.00
17.6000	-6.87E-09	-0.01696	-0.00418	1.31E-08	0.1728	1374447.	0.04639	1350000.	0.00

17.8000	-4.50E-09	-0.01687	0.00350	1.06E-08	0.1718	1374447.	0.03041	1350000.	0.00
18.0000	-2.63E-09	-0.01556	0.00832	8.25E-09	0.1585	1374447.	0.01774	1350000.	0.00
18.2000	-1.21E-09	-0.01354	0.01090	6.13E-09	0.1380	1374447.	0.00814	1350000.	0.00
18.4000	-1.76E-10	-0.01120	0.01184	4.33E-09	0.1141	1374447.	0.00119	1350000.	0.00
18.6000	5.27E-10	-0.00881	0.01160	2.87E-09	0.08974	1374447.	-0.00356	1350000.	0.00
18.8000	9.74E-10	-0.00656	0.01059	1.76E-09	0.06683	1374447.	-0.00657	1350000.	0.00
19.0000	1.23E-09	-0.00458	0.00910	9.46E-10	0.04661	1374447.	-0.00830	1350000.	0.00
19.2000	1.35E-09	-0.00292	0.00736	4.00E-10	0.02976	1374447.	-0.00913	1350000.	0.00
19.4000	1.39E-09	-0.00163	0.00551	6.91E-11	0.01663	1374447.	-0.00938	1350000.	0.00
19.6000	1.38E-09	-7.19E-04	0.00364	-1.02E-10	0.00732	1374447.	-0.00931	1350000.	0.00
19.8000	1.35E-09	-1.77E-04	0.00180	-1.67E-10	0.00181	1374447.	-0.00910	1350000.	0.00
20.0000	1.31E-09	0.00	0.00	-1.80E-10	0.00	1374447.	-0.00886	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 3:

Pile-head deflection = 0.00227089 meters
Computed slope at pile head = -0.00062803 radians
Maximum bending moment = 172.02440843 kN-m
Maximum shear force = 100.00000000 kN
Depth of maximum bending moment = 3.40000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 18
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 4

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 125.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
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0.00	0.00341	-1.19E-10	125.0000	-8.91E-04	1.21E-09	1374447.	-30.3609	889.8374	0.00
0.2000	0.00323	24.3928	118.8424	-8.89E-04	248.4628	1374447.	-31.2147	1931.	0.00
0.4000	0.00306	47.5370	112.5211	-8.84E-04	484.2077	1374447.	-31.9989	2094.	0.00
0.6000	0.00288	69.4012	106.0501	-8.75E-04	706.9150	1374447.	-32.7113	2271.	0.00
0.8000	0.00271	89.9570	99.4439	-8.64E-04	916.2945	1374447.	-33.3503	2465.	0.00
1.0000	0.00253	109.1788	92.7175	-8.49E-04	1112.	1374447.	-33.9140	2676.	0.00
1.2000	0.00237	127.0440	85.8860	-8.32E-04	1294.	1374447.	-34.4007	2907.	0.00
1.4000	0.00220	143.5332	78.9650	-8.12E-04	1462.	1374447.	-34.8087	3161.	0.00
1.6000	0.00204	158.6300	71.9705	-7.90E-04	1616.	1374447.	-35.1363	3442.	0.00
1.8000	0.00189	172.3214	64.9187	-7.66E-04	1755.	1374447.	-35.3819	3752.	0.00
2.0000	0.00174	184.5975	57.8261	-7.40E-04	1880.	1374447.	-35.5440	4097.	0.00
2.2000	0.00159	195.4518	50.7096	-7.13E-04	1991.	1374447.	-35.6209	4481.	0.00
2.4000	0.00145	204.8813	43.5865	-6.83E-04	2087.	1374447.	-35.6109	4911.	0.00
2.6000	0.00132	212.8864	36.4741	-6.53E-04	2168.	1374447.	-35.5125	5395.	0.00
2.8000	0.00119	219.4710	29.3905	-6.22E-04	2236.	1374447.	-35.3238	5942.	0.00
3.0000	0.00107	224.6426	22.3538	-5.89E-04	2288.	1374447.	-35.0430	6564.	0.00
3.2000	9.53E-04	228.4125	15.3827	-5.56E-04	2327.	1374447.	-34.6681	7274.	0.00
3.4000	8.45E-04	230.7957	8.4962	-5.23E-04	2351.	1374447.	-34.1966	8091.	0.00
3.6000	7.44E-04	231.8110	1.7140	-4.89E-04	2361.	1374447.	-33.6260	9039.	0.00
3.8000	6.50E-04	231.4813	-4.9439	-4.56E-04	2358.	1374447.	-32.9529	10146.	0.00
4.0000	5.62E-04	229.8334	-11.4566	-4.22E-04	2341.	1374447.	-32.1735	11454.	0.00
4.2000	4.81E-04	226.8987	-17.8022	-3.89E-04	2311.	1374447.	-31.2826	13014.	0.00
4.4000	4.06E-04	222.7126	-23.9578	-3.56E-04	2269.	1374447.	-30.2735	14903.	0.00
4.6000	3.38E-04	217.3155	-29.8989	-3.24E-04	2214.	1374447.	-29.1373	17225.	0.00
4.8000	2.77E-04	210.7530	-36.2939	-2.93E-04	2147.	1374447.	-34.8130	25166.	0.00
5.0000	2.21E-04	202.7980	-42.6739	-2.63E-04	2066.	1374447.	-28.9870	26215.	0.00
5.2000	1.72E-04	193.6835	-47.9109	-2.34E-04	1973.	1374447.	-23.3834	27263.	0.00
5.4000	1.28E-04	183.6336	-52.0550	-2.07E-04	1870.	1374447.	-18.0575	28312.	0.00
5.6000	8.89E-05	172.8615	-55.1663	-1.81E-04	1761.	1374447.	-13.0550	29361.	0.00
5.8000	5.53E-05	161.5671	-57.3130	-1.56E-04	1646.	1374447.	-8.4124	30409.	0.00
6.0000	2.64E-05	149.9362	-58.5699	-1.34E-04	1527.	1374447.	-4.1569	31458.	0.00
6.2000	1.89E-06	138.1391	-59.0164	-1.13E-04	1407.	1374447.	-0.3077	32506.	0.00
6.4000	-1.86E-05	126.3297	-58.7347	-9.34E-05	1287.	1374447.	3.1244	33555.	0.00
6.6000	-3.55E-05	114.6452	-57.8087	-7.59E-05	1168.	1374447.	6.1355	34604.	0.00
6.8000	-4.90E-05	103.2062	-56.3224	-6.00E-05	1051.	1374447.	8.7283	35652.	0.00
7.0000	-5.95E-05	92.1163	-54.3584	-4.58E-05	938.2887	1374447.	10.9116	36701.	0.00
7.2000	-6.73E-05	81.4628	-51.9973	-3.32E-05	829.7737	1374447.	12.6990	37749.	0.00
7.4000	-7.27E-05	71.3174	-49.3166	-2.20E-05	726.4326	1374447.	14.1085	38798.	0.00
7.6000	-7.61E-05	61.7362	-46.3896	-1.24E-05	628.8399	1374447.	15.1615	39847.	0.00
7.8000	-7.77E-05	52.7615	-43.2851	-4.04E-06	537.4246	1374447.	15.8826	40895.	0.00
8.0000	-7.77E-05	44.4222	-40.0671	3.03E-06	452.4804	1374447.	16.2981	41944.	0.00
8.2000	-7.65E-05	36.7347	-36.7936	8.94E-06	374.1766	1374447.	16.4362	42992.	0.00
8.4000	-7.41E-05	29.7047	-33.5175	1.38E-05	302.5695	1374447.	16.3257	44041.	0.00
8.6000	-7.10E-05	23.3277	-30.2853	1.76E-05	237.6142	1374447.	15.9959	45090.	0.00

8.8000	-6.71E-05	17.5906	-27.1381	2.06E-05	179.1761	1374447.	15.4761	46138.	0.00
9.0000	-6.27E-05	12.4725	-24.1110	2.28E-05	127.0436	1374447.	14.7950	47187.	0.00
9.2000	-5.80E-05	7.9462	-21.2335	2.43E-05	80.9391	1374447.	13.9805	48235.	0.00
9.4000	-5.30E-05	3.9791	-18.5295	2.51E-05	40.5307	1374447.	13.0592	49284.	0.00
9.6000	-4.79E-05	0.5344	-16.0179	2.55E-05	5.4431	1374447.	12.0567	50332.	0.00
9.8000	-4.28E-05	-2.4281	-13.7125	2.53E-05	24.7321	1374447.	10.9968	51381.	0.00
10.0000	-3.78E-05	-4.9506	-11.6227	2.48E-05	50.4268	1374447.	9.9020	52430.	0.00
10.2000	-3.29E-05	-7.0771	-9.7532	2.39E-05	72.0871	1374447.	8.7928	53478.	0.00
10.4000	-2.82E-05	-8.8519	-8.1050	2.28E-05	90.1649	1374447.	7.6886	54527.	0.00
10.6000	-2.38E-05	-10.3192	-6.6755	2.14E-05	105.1100	1374447.	6.6069	55575.	0.00
10.8000	-1.97E-05	-11.5221	-5.4584	1.98E-05	117.3633	1374447.	5.5638	56624.	0.00
11.0000	-1.59E-05	-12.5025	-4.4446	1.80E-05	127.3496	1374447.	4.5741	57673.	0.00
11.2000	-1.24E-05	-13.3000	-3.6221	1.62E-05	135.4723	1374447.	3.6516	58721.	0.00
11.4000	-9.40E-06	-13.9513	-2.9760	1.42E-05	142.1072	1374447.	2.8088	59770.	0.00
11.6000	-6.77E-06	-14.4904	-2.4894	1.21E-05	147.5977	1374447.	2.0576	60818.	0.00
11.8000	-4.56E-06	-14.9471	0.7914	9.97E-06	152.2499	1374447.	30.7504	1350000.	0.00
12.0000	-2.78E-06	-14.1738	5.7429	7.85E-06	144.3732	1374447.	18.7648	1350000.	0.00
12.2000	-1.42E-06	-12.6499	8.5758	5.90E-06	128.8510	1374447.	9.5636	1350000.	0.00
12.4000	-4.22E-07	-10.7435	9.8169	4.19E-06	109.4323	1374447.	2.8473	1350000.	0.00
12.6000	2.61E-07	-8.7232	9.9258	2.78E-06	88.8535	1374447.	-1.7585	1350000.	0.00
12.8000	6.89E-07	-6.7732	9.2848	1.65E-06	68.9912	1374447.	-4.6507	1350000.	0.00
13.0000	9.20E-07	-5.0092	8.1985	7.92E-07	51.0237	1374447.	-6.2123	1350000.	0.00
13.2000	1.01E-06	-3.4938	6.8983	1.74E-07	35.5873	1374447.	-6.7900	1350000.	0.00
13.4000	9.90E-07	-2.2499	5.5512	-2.44E-07	22.9175	1374447.	-6.6813	1350000.	0.00
13.6000	9.08E-07	-1.2733	4.2700	-5.01E-07	12.9698	1374447.	-6.1306	1350000.	0.00
13.8000	7.90E-07	-0.5419	3.1240	-6.33E-07	5.5199	1374447.	-5.3298	1350000.	0.00
14.0000	6.55E-07	-0.02372	2.1487	-6.74E-07	0.2416	1374447.	-4.4225	1350000.	0.00
14.2000	5.20E-07	0.3176	1.3554	-6.52E-07	3.2349	1374447.	-3.5105	1350000.	0.00
14.4000	3.94E-07	0.5185	0.7383	-5.92E-07	5.2810	1374447.	-2.6610	1350000.	0.00
14.6000	2.83E-07	0.6129	0.2809	-5.09E-07	6.2429	1374447.	-1.9133	1350000.	0.00
14.8000	1.91E-07	0.6308	-0.03908	-4.19E-07	6.4253	1374447.	-1.2860	1350000.	0.00
15.0000	1.16E-07	0.5973	-0.2459	-3.29E-07	6.0837	1374447.	-0.7826	1350000.	0.00
15.2000	5.88E-08	0.5324	-0.3639	-2.47E-07	5.4233	1374447.	-0.3966	1350000.	0.00
15.4000	1.71E-08	0.4517	-0.4150	-1.76E-07	4.6012	1374447.	-0.1151	1350000.	0.00
15.6000	-1.15E-08	0.3664	-0.4188	-1.16E-07	3.7323	1374447.	0.07760	1350000.	0.00
15.8000	-2.94E-08	0.2842	-0.3912	-6.88E-08	2.8949	1374447.	0.1983	1350000.	0.00
16.0000	-3.90E-08	0.2099	-0.3450	-3.28E-08	2.1384	1374447.	0.2633	1350000.	0.00
16.2000	-4.25E-08	0.1462	-0.2900	-6.90E-09	1.4891	1374447.	0.2869	1350000.	0.00
16.4000	-4.18E-08	0.09393	-0.2331	1.06E-08	0.9568	1374447.	0.2819	1350000.	0.00
16.6000	-3.83E-08	0.05294	-0.1791	2.13E-08	0.5393	1374447.	0.2584	1350000.	0.00
16.8000	-3.33E-08	0.02229	-0.1308	2.67E-08	0.2270	1374447.	0.2245	1350000.	0.00
17.0000	-2.76E-08	6.15E-04	-0.08975	2.84E-08	0.00626	1374447.	0.1862	1350000.	0.00
17.2000	-2.19E-08	-0.01361	-0.05635	2.75E-08	0.1387	1374447.	0.1478	1350000.	0.00
17.4000	-1.66E-08	-0.02193	-0.03037	2.49E-08	0.2233	1374447.	0.1121	1350000.	0.00

17.6000	-1.19E-08	-0.02576	-0.01109	2.14E-08	0.2624	1374447.	0.08065	1350000.	0.00
17.8000	-8.04E-09	-0.02636	0.00240	1.76E-08	0.2686	1374447.	0.05430	1350000.	0.00
18.0000	-4.91E-09	-0.02480	0.01114	1.39E-08	0.2526	1374447.	0.03312	1350000.	0.00
18.2000	-2.49E-09	-0.02191	0.01613	1.05E-08	0.2232	1374447.	0.01681	1350000.	0.00
18.4000	-7.12E-10	-0.01835	0.01830	7.56E-09	0.1869	1374447.	0.00481	1350000.	0.00
18.6000	5.32E-10	-0.01459	0.01842	5.16E-09	0.1486	1374447.	-0.00359	1350000.	0.00
18.8000	1.35E-09	-0.01098	0.01714	3.30E-09	0.1118	1374447.	-0.00913	1350000.	0.00
19.0000	1.85E-09	-0.00773	0.01498	1.94E-09	0.07876	1374447.	-0.01251	1350000.	0.00
19.2000	2.13E-09	-0.00499	0.01229	1.01E-09	0.05079	1374447.	-0.01436	1350000.	0.00
19.4000	2.26E-09	-0.00281	0.00933	4.46E-10	0.02867	1374447.	-0.01524	1350000.	0.00
19.6000	2.31E-09	-0.00125	0.00625	1.50E-10	0.01276	1374447.	-0.01557	1350000.	0.00
19.8000	2.32E-09	-3.13E-04	0.00313	3.63E-11	0.00319	1374447.	-0.01565	1350000.	0.00
20.0000	2.32E-09	0.00	0.00	1.35E-11	0.00	1374447.	-0.01567	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 4:

Pile-head deflection = 0.00341196 meters
Computed slope at pile head = -0.00089076 radians
Maximum bending moment = 231.81100453 kN-m
Maximum shear force = 125.00000000 kN
Depth of maximum bending moment = 3.60000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 17
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 5

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 150.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X	Deflect. y	Bending Moment	Shear Force	Slope S	Total Stress	Bending Stiffness	Soil Res. p	Soil Spr. Es*h	Distrib. Lat. Load
meters	meters	kN-m	kN	radians	kPa*	kN-m^2	kN/m	kN/m	kN/m

0.00	0.00471	0.00	150.0000	-0.00118	0.00	1374447.	-33.8004	717.9277	0.00
0.2000	0.00447	29.3240	143.1423	-0.00118	298.6917	1374447.	-34.7764	1555.	0.00
0.4000	0.00424	57.2569	136.0968	-0.00117	583.2143	1374447.	-35.6787	1684.	0.00
0.6000	0.00400	83.7627	128.8784	-0.00116	853.2000	1374447.	-36.5053	1824.	0.00
0.8000	0.00377	108.8083	121.5025	-0.00115	1108.	1374447.	-37.2541	1975.	0.00
1.0000	0.00354	132.3637	113.9847	-0.00113	1348.	1374447.	-37.9233	2140.	0.00
1.2000	0.00332	154.4022	106.3413	-0.00111	1573.	1374447.	-38.5109	2320.	0.00
1.4000	0.00310	174.9002	98.5887	-0.00108	1782.	1374447.	-39.0151	2516.	0.00
1.6000	0.00289	193.8377	90.7438	-0.00106	1974.	1374447.	-39.4342	2732.	0.00
1.8000	0.00268	211.1977	82.8237	-0.00103	2151.	1374447.	-39.7663	2970.	0.00
2.0000	0.00247	226.9671	74.8461	-9.97E-04	2312.	1374447.	-40.0096	3233.	0.00
2.2000	0.00228	241.1362	66.8289	-9.63E-04	2456.	1374447.	-40.1625	3525.	0.00
2.4000	0.00209	253.6987	58.7904	-9.27E-04	2584.	1374447.	-40.2231	3849.	0.00
2.6000	0.00191	264.6523	50.7491	-8.89E-04	2696.	1374447.	-40.1895	4212.	0.00
2.8000	0.00173	273.9984	42.7241	-8.50E-04	2791.	1374447.	-40.0599	4620.	0.00
3.0000	0.00157	281.7420	34.7349	-8.09E-04	2870.	1374447.	-39.8323	5080.	0.00
3.2000	0.00141	287.8923	26.8012	-7.68E-04	2932.	1374447.	-39.5045	5602.	0.00
3.4000	0.00126	292.4625	18.9434	-7.26E-04	2979.	1374447.	-39.0742	6197.	0.00
3.6000	0.00112	295.4697	11.1821	-6.83E-04	3010.	1374447.	-38.5387	6881.	0.00
3.8000	9.88E-04	296.9353	3.5387	-6.40E-04	3025.	1374447.	-37.8950	7672.	0.00
4.0000	8.64E-04	296.8851	-3.9648	-5.97E-04	3024.	1374447.	-37.1396	8595.	0.00
4.2000	7.49E-04	295.3494	-11.3055	-5.54E-04	3008.	1374447.	-36.2680	9682.	0.00
4.4000	6.43E-04	292.3629	-18.4598	-5.11E-04	2978.	1374447.	-35.2749	10975.	0.00
4.6000	5.45E-04	287.9655	-25.4026	-4.69E-04	2933.	1374447.	-34.1533	12536.	0.00
4.8000	4.55E-04	282.2019	-34.0110	-4.27E-04	2874.	1374447.	-51.9301	22808.	0.00
5.0000	3.74E-04	274.3611	-43.9087	-3.87E-04	2795.	1374447.	-47.0470	25155.	0.00
5.2000	3.01E-04	264.6384	-52.7128	-3.47E-04	2696.	1374447.	-40.9944	27263.	0.00
5.4000	2.35E-04	253.2759	-60.1403	-3.10E-04	2580.	1374447.	-33.2809	28312.	0.00
5.6000	1.77E-04	240.5823	-66.0646	-2.74E-04	2451.	1374447.	-25.9612	29361.	0.00
5.8000	1.26E-04	226.8501	-70.5702	-2.40E-04	2311.	1374447.	-19.0953	30409.	0.00
6.0000	8.09E-05	212.3542	-73.7528	-2.08E-04	2163.	1374447.	-12.7303	31458.	0.00
6.2000	4.25E-05	197.3490	-75.7160	-1.78E-04	2010.	1374447.	-6.9016	32506.	0.00
6.4000	9.73E-06	182.0678	-76.5694	-1.50E-04	1855.	1374447.	-1.6330	33555.	0.00
6.6000	-1.77E-05	166.7212	-76.4265	-1.25E-04	1698.	1374447.	3.0620	34604.	0.00
6.8000	-4.03E-05	151.4972	-75.4024	-1.02E-04	1543.	1374447.	7.1797	35652.	0.00
7.0000	-5.84E-05	136.5603	-73.6119	-8.09E-05	1391.	1374447.	10.7251	36701.	0.00
7.2000	-7.26E-05	122.0524	-71.1683	-6.21E-05	1243.	1374447.	13.7109	37749.	0.00
7.4000	-8.33E-05	108.0930	-68.1815	-4.54E-05	1101.	1374447.	16.1566	38798.	0.00
7.6000	-9.08E-05	94.7798	-64.7572	-3.06E-05	965.4192	1374447.	18.0870	39847.	0.00
7.8000	-9.55E-05	82.1901	-60.9953	-1.77E-05	837.1816	1374447.	19.5321	40895.	0.00
8.0000	-9.79E-05	70.3817	-56.9895	-6.62E-06	716.9022	1374447.	20.5253	41944.	0.00
8.2000	-9.82E-05	59.3943	-52.8267	2.82E-06	604.9855	1374447.	21.1027	42992.	0.00
8.4000	-9.67E-05	49.2510	-48.5862	1.07E-05	501.6668	1374447.	21.3027	44041.	0.00

8.6000	-9.39E-05	39.9598	-44.3394	1.72E-05	407.0276	1374447.	21.1646	45090.	0.00
8.8000	-8.99E-05	31.5152	-40.1502	2.24E-05	321.0117	1374447.	20.7281	46138.	0.00
9.0000	-8.49E-05	23.8998	-36.0741	2.65E-05	243.4411	1374447.	20.0331	47187.	0.00
9.2000	-7.93E-05	17.0856	-32.1589	2.94E-05	174.0328	1374447.	19.1184	48235.	0.00
9.4000	-7.31E-05	11.0362	-28.4448	3.15E-05	112.4140	1374447.	18.0221	49284.	0.00
9.6000	-6.67E-05	5.7077	-24.9646	3.27E-05	58.1380	1374447.	16.7807	50332.	0.00
9.8000	-6.01E-05	1.0504	-21.7436	3.32E-05	10.6992	1374447.	15.4289	51381.	0.00
10.0000	-5.34E-05	-2.9898	-18.8008	3.30E-05	30.4534	1374447.	13.9996	52430.	0.00
10.2000	-4.68E-05	-6.4699	-16.1484	3.24E-05	65.9021	1374447.	12.5238	53478.	0.00
10.4000	-4.05E-05	-9.4491	-13.7930	3.12E-05	96.2481	1374447.	11.0305	54527.	0.00
10.6000	-3.44E-05	-11.9871	-11.7353	2.96E-05	122.0998	1374447.	9.5467	55575.	0.00
10.8000	-2.86E-05	-14.1433	-9.9709	2.77E-05	144.0620	1374447.	8.0977	56624.	0.00
11.0000	-2.33E-05	-15.9755	-8.4904	2.56E-05	162.7248	1374447.	6.7070	57673.	0.00
11.2000	-1.84E-05	-17.5394	-7.2800	2.31E-05	178.6549	1374447.	5.3969	58721.	0.00
11.4000	-1.40E-05	-18.8875	-6.3215	2.05E-05	192.3862	1374447.	4.1881	59770.	0.00
11.6000	-1.02E-05	-20.0680	-5.5926	1.76E-05	204.4110	1374447.	3.1007	60818.	0.00
11.8000	-6.96E-06	-21.1245	-0.5825	1.46E-05	215.1725	1374447.	47.0007	1350000.	0.00
12.0000	-4.34E-06	-20.3010	7.0500	1.16E-05	206.7842	1374447.	29.3242	1350000.	0.00
12.2000	-2.32E-06	-18.3045	11.5460	8.81E-06	186.4482	1374447.	15.6358	1350000.	0.00
12.4000	-8.21E-07	-15.6826	13.6639	6.34E-06	159.7415	1374447.	5.5431	1350000.	0.00
12.6000	2.18E-07	-12.8389	14.0713	4.26E-06	130.7764	1374447.	-1.4689	1350000.	0.00
12.8000	8.83E-07	-10.0541	13.3286	2.59E-06	102.4098	1374447.	-5.9587	1350000.	0.00
13.0000	1.26E-06	-7.5075	11.8854	1.32E-06	76.4709	1374447.	-8.4735	1350000.	0.00
13.2000	1.41E-06	-5.2999	10.0867	3.85E-07	53.9845	1374447.	-9.5135	1350000.	0.00
13.4000	1.41E-06	-3.4729	8.1841	-2.54E-07	35.3742	1374447.	-9.5124	1350000.	0.00
13.6000	1.31E-06	-2.0263	6.3499	-6.54E-07	20.6396	1374447.	-8.8290	1350000.	0.00
13.8000	1.15E-06	-0.9329	4.6923	-8.69E-07	9.5023	1374447.	-7.7476	1350000.	0.00
14.0000	9.60E-07	-0.1494	3.2692	-9.48E-07	1.5216	1374447.	-6.4830	1350000.	0.00
14.2000	7.69E-07	0.3748	2.1020	-9.31E-07	3.8176	1374447.	-5.1890	1350000.	0.00
14.4000	5.88E-07	0.6914	1.1862	-8.54E-07	7.0427	1374447.	-3.9686	1350000.	0.00
14.6000	4.27E-07	0.8493	0.5010	-7.42E-07	8.6508	1374447.	-2.8841	1350000.	0.00
14.8000	2.91E-07	0.8918	0.01594	-6.15E-07	9.0839	1374447.	-1.9663	1350000.	0.00
15.0000	1.81E-07	0.8557	-0.3031	-4.88E-07	8.7158	1374447.	-1.2238	1350000.	0.00
15.2000	9.62E-08	0.7706	-0.4904	-3.69E-07	7.8490	1374447.	-0.6494	1350000.	0.00
15.4000	3.35E-08	0.6595	-0.5780	-2.65E-07	6.7177	1374447.	-0.2263	1350000.	0.00
15.6000	-9.95E-09	0.5394	-0.5939	-1.78E-07	5.4942	1374447.	0.06717	1350000.	0.00
15.8000	-3.77E-08	0.4220	-0.5617	-1.08E-07	4.2980	1374447.	0.2547	1350000.	0.00
16.0000	-5.32E-08	0.3147	-0.5003	-5.46E-08	3.2056	1374447.	0.3594	1350000.	0.00
16.2000	-5.96E-08	0.2218	-0.4241	-1.56E-08	2.2596	1374447.	0.4022	1350000.	0.00
16.4000	-5.95E-08	0.1451	-0.3438	1.11E-08	1.4775	1374447.	0.4015	1350000.	0.00
16.6000	-5.51E-08	0.08433	-0.2664	2.78E-08	0.8590	1374447.	0.3722	1350000.	0.00
16.8000	-4.84E-08	0.03849	-0.1965	3.67E-08	0.3921	1374447.	0.3264	1350000.	0.00
17.0000	-4.04E-08	0.00571	-0.1366	3.99E-08	0.05816	1374447.	0.2730	1350000.	0.00
17.2000	-3.24E-08	-0.01615	-0.08744	3.92E-08	0.1645	1374447.	0.2185	1350000.	0.00

17.4000	-2.48E-08	-0.02927	-0.04886	3.59E-08	0.2981	1374447.	0.1672	1350000.	0.00
17.6000	-1.80E-08	-0.03570	-0.01998	3.12E-08	0.3636	1374447.	0.1217	1350000.	0.00
17.8000	-1.23E-08	-0.03726	5.02E-04	2.58E-08	0.3795	1374447.	0.08311	1350000.	0.00
18.0000	-7.68E-09	-0.03550	0.01400	2.06E-08	0.3616	1374447.	0.05187	1350000.	0.00
18.2000	-4.09E-09	-0.03166	0.02195	1.57E-08	0.3225	1374447.	0.02761	1350000.	0.00
18.4000	-1.42E-09	-0.02672	0.02567	1.14E-08	0.2721	1374447.	0.00956	1350000.	0.00
18.6000	4.79E-10	-0.02139	0.02630	7.92E-09	0.2179	1374447.	-0.00323	1350000.	0.00
18.8000	1.75E-09	-0.01620	0.02479	5.19E-09	0.1650	1374447.	-0.01182	1350000.	0.00
19.0000	2.55E-09	-0.01147	0.02189	3.17E-09	0.1169	1374447.	-0.01724	1350000.	0.00
19.2000	3.02E-09	-0.00744	0.01812	1.80E-09	0.07580	1374447.	-0.02039	1350000.	0.00
19.4000	3.27E-09	-0.00423	0.01388	9.49E-10	0.04304	1374447.	-0.02209	1350000.	0.00
19.6000	3.40E-09	-0.00189	0.00937	5.04E-10	0.01927	1374447.	-0.02296	1350000.	0.00
19.8000	3.47E-09	-4.77E-04	0.00473	3.31E-10	0.00486	1374447.	-0.02345	1350000.	0.00
20.0000	3.53E-09	0.00	0.00	2.97E-10	0.00	1374447.	-0.02385	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 5:

Pile-head deflection = 0.00470805 meters
Computed slope at pile head = -0.00118005 radians
Maximum bending moment = 296.93530197 kN-m
Maximum shear force = 150.00000000 kN
Depth of maximum bending moment = 3.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 17
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 6

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 200.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X	Deflect. y	Bending Moment	Shear Force	Slope S	Total Stress	Bending Stiffness	Soil Res. p	Soil Spr. Es*h	Distrib. Lat. Load

meters	meters	kN-m	kN	radians	kPa*	kN-m^2	kN/m	kN/m	kN/m
0.00	0.00776	-9.54E-10	200.0000	-0.00183	9.71E-09	1374447.	-39.9337	514.3020	0.00
0.2000	0.00740	39.2013	191.8936	-0.00183	399.3014	1374447.	-41.1300	1112.	0.00
0.4000	0.00703	76.7574	183.5561	-0.00182	781.8450	1374447.	-42.2457	1201.	0.00
0.6000	0.00667	112.6237	175.0036	-0.00180	1147.	1374447.	-43.2785	1297.	0.00
0.8000	0.00631	146.7589	166.2531	-0.00179	1495.	1374447.	-44.2263	1401.	0.00
1.0000	0.00596	179.1250	157.3218	-0.00176	1825.	1374447.	-45.0870	1514.	0.00
1.2000	0.00561	209.6876	148.2273	-0.00173	2136.	1374447.	-45.8583	1636.	0.00
1.4000	0.00526	238.4159	138.9876	-0.00170	2428.	1374447.	-46.5384	1768.	0.00
1.6000	0.00493	265.2827	129.6213	-0.00166	2702.	1374447.	-47.1250	1913.	0.00
1.8000	0.00460	290.2644	120.1471	-0.00162	2957.	1374447.	-47.6163	2072.	0.00
2.0000	0.00428	313.3415	110.5845	-0.00158	3192.	1374447.	-48.0101	2245.	0.00
2.2000	0.00397	334.4982	100.9530	-0.00153	3407.	1374447.	-48.3044	2436.	0.00
2.4000	0.00366	353.7228	91.2729	-0.00148	3603.	1374447.	-48.4972	2648.	0.00
2.6000	0.00337	371.0074	81.5645	-0.00143	3779.	1374447.	-48.5864	2882.	0.00
2.8000	0.00309	386.3486	71.8489	-0.00138	3935.	1374447.	-48.5698	3143.	0.00
3.0000	0.00282	399.7469	62.1474	-0.00132	4072.	1374447.	-48.4453	3434.	0.00
3.2000	0.00256	411.2075	52.4818	-0.00126	4189.	1374447.	-48.2105	3761.	0.00
3.4000	0.00232	420.7397	42.8745	-0.00120	4286.	1374447.	-47.8629	4130.	0.00
3.6000	0.00208	428.3573	33.3482	-0.00114	4363.	1374447.	-47.4000	4548.	0.00
3.8000	0.00186	434.0789	23.9263	-0.00107	4421.	1374447.	-46.8187	5026.	0.00
4.0000	0.00165	437.9278	14.6329	-0.00101	4461.	1374447.	-46.1158	5574.	0.00
4.2000	0.00146	439.9321	5.4925	-9.47E-04	4481.	1374447.	-45.2878	6208.	0.00
4.4000	0.00128	440.1248	-3.4693	-8.83E-04	4483.	1374447.	-44.3302	6949.	0.00
4.6000	0.00111	438.5444	-12.2261	-8.19E-04	4467.	1374447.	-43.2382	7820.	0.00
4.8000	9.48E-04	435.2344	-24.3430	-7.55E-04	4433.	1374447.	-77.9301	16434.	0.00
5.0000	8.04E-04	428.8072	-39.3934	-6.92E-04	4368.	1374447.	-72.5739	18060.	0.00
5.2000	6.71E-04	419.4770	-53.4311	-6.31E-04	4273.	1374447.	-67.8034	20196.	0.00
5.4000	5.51E-04	407.4347	-66.4378	-5.71E-04	4150.	1374447.	-62.2633	22584.	0.00
5.6000	4.43E-04	392.9019	-78.2670	-5.12E-04	4002.	1374447.	-56.0291	25283.	0.00
5.8000	3.46E-04	376.1279	-88.7882	-4.56E-04	3831.	1374447.	-49.1829	28391.	0.00
6.0000	2.61E-04	357.3867	-97.8065	-4.03E-04	3640.	1374447.	-41.0005	31458.	0.00
6.2000	1.85E-04	337.0053	-104.9178	-3.52E-04	3433.	1374447.	-30.1122	32506.	0.00
6.4000	1.20E-04	315.4195	-109.9369	-3.05E-04	3213.	1374447.	-20.0788	33555.	0.00
6.6000	6.33E-05	293.0306	-113.0394	-2.61E-04	2985.	1374447.	-10.9458	34604.	0.00
6.8000	1.54E-05	270.2038	-114.4081	-2.20E-04	2752.	1374447.	-2.7415	35652.	0.00
7.0000	-2.46E-05	247.2673	-114.2301	-1.82E-04	2519.	1374447.	4.5219	36701.	0.00
7.2000	-5.75E-05	224.5118	-112.6932	-1.48E-04	2287.	1374447.	10.8467	37749.	0.00
7.4000	-8.38E-05	202.1900	-109.9837	-1.17E-04	2059.	1374447.	16.2482	38798.	0.00
7.6000	-1.04E-04	180.5183	-106.2836	-8.89E-05	1839.	1374447.	20.7531	39847.	0.00
7.8000	-1.19E-04	159.6766	-101.7685	-6.41E-05	1626.	1374447.	24.3978	40895.	0.00
8.0000	-1.30E-04	139.8109	-96.6061	-4.24E-05	1424.	1374447.	27.2267	41944.	0.00
8.2000	-1.36E-04	121.0342	-90.9543	-2.34E-05	1233.	1374447.	29.2912	42992.	0.00

8.4000	-1.39E-04	103.4292	-84.9604	-7.05E-06	1054.	1374447.	30.6476	44041.	0.00
8.6000	-1.39E-04	87.0500	-78.7600	6.81E-06	886.6844	1374447.	31.3559	45090.	0.00
8.8000	-1.36E-04	71.9251	-72.4766	1.84E-05	732.6235	1374447.	31.4788	46138.	0.00
9.0000	-1.32E-04	58.0594	-66.2207	2.78E-05	591.3883	1374447.	31.0802	47187.	0.00
9.2000	-1.25E-04	45.4369	-60.0902	3.54E-05	462.8163	1374447.	30.2247	48235.	0.00
9.4000	-1.18E-04	34.0233	-54.1701	4.11E-05	346.5589	1374447.	28.9760	49284.	0.00
9.6000	-1.09E-04	23.7688	-48.5328	4.53E-05	242.1074	1374447.	27.3971	50332.	0.00
9.8000	-9.94E-05	14.6102	-43.2382	4.81E-05	148.8185	1374447.	25.5490	51381.	0.00
10.0000	-8.96E-05	6.4736	-38.3342	4.97E-05	65.9392	1374447.	23.4907	52430.	0.00
10.2000	-7.96E-05	-0.7235	-33.8572	5.01E-05	7.3690	1374447.	21.2789	53478.	0.00
10.4000	-6.96E-05	-7.0693	-29.8326	4.95E-05	72.0076	1374447.	18.9676	54527.	0.00
10.6000	-5.98E-05	-12.6565	-26.2750	4.81E-05	128.9180	1374447.	16.6085	55575.	0.00
10.8000	-5.03E-05	-17.5793	-23.1890	4.59E-05	179.0614	1374447.	14.2510	56624.	0.00
11.0000	-4.14E-05	-21.9321	-20.5697	4.30E-05	223.3986	1374447.	11.9420	57673.	0.00
11.2000	-3.31E-05	-25.8072	-18.4028	3.95E-05	262.8701	1374447.	9.7269	58721.	0.00
11.4000	-2.56E-05	-29.2932	-16.6652	3.55E-05	298.3785	1374447.	7.6494	59770.	0.00
11.6000	-1.89E-05	-32.4733	-15.3250	3.10E-05	330.7702	1374447.	5.7521	60818.	0.00
11.8000	-1.32E-05	-35.4233	-5.8531	2.61E-05	360.8183	1374447.	88.9674	1350000.	0.00
12.0000	-8.48E-06	-34.8145	8.7649	2.10E-05	354.6178	1374447.	57.2122	1350000.	0.00
12.2000	-4.78E-06	-31.9173	17.7157	1.61E-05	325.1070	1374447.	32.2961	1350000.	0.00
12.4000	-2.02E-06	-27.7282	22.3103	1.18E-05	282.4375	1374447.	13.6499	1350000.	0.00
12.6000	-6.68E-08	-22.9932	23.7204	8.10E-06	234.2066	1374447.	0.4507	1350000.	0.00
12.8000	1.22E-06	-18.2401	22.9423	5.10E-06	185.7921	1374447.	-8.2317	1350000.	0.00
13.0000	1.97E-06	-13.8163	20.7860	2.77E-06	140.7314	1374447.	-13.3309	1350000.	0.00
13.2000	2.33E-06	-9.9257	17.8813	1.04E-06	101.1023	1374447.	-15.7161	1350000.	0.00
13.4000	2.39E-06	-6.6638	14.6946	-1.62E-07	67.8765	1374447.	-16.1514	1350000.	0.00
13.6000	2.26E-06	-4.0479	11.5517	-9.42E-07	41.2313	1374447.	-15.2776	1350000.	0.00
13.8000	2.02E-06	-2.0431	8.6630	-1.38E-06	20.8108	1374447.	-13.6087	1350000.	0.00
14.0000	1.71E-06	-0.5827	6.1483	-1.58E-06	5.9349	1374447.	-11.5384	1350000.	0.00
14.2000	1.39E-06	0.4162	4.0591	-1.59E-06	4.2397	1374447.	-9.3537	1350000.	0.00
14.4000	1.07E-06	1.0410	2.3987	-1.48E-06	10.6033	1374447.	-7.2507	1350000.	0.00
14.6000	7.93E-07	1.3757	1.1384	-1.31E-06	14.0127	1374447.	-5.3523	1350000.	0.00
14.8000	5.52E-07	1.4963	0.2307	-1.10E-06	15.2415	1374447.	-3.7240	1350000.	0.00
15.0000	3.54E-07	1.4680	-0.3806	-8.82E-07	14.9529	1374447.	-2.3897	1350000.	0.00
15.2000	1.99E-07	1.3441	-0.7540	-6.77E-07	13.6906	1374447.	-1.3438	1350000.	0.00
15.4000	8.33E-08	1.1664	-0.9446	-4.94E-07	11.8808	1374447.	-0.5620	1350000.	0.00
15.6000	1.36E-09	0.9662	-1.0017	-3.39E-07	9.8421	1374447.	-0.00921	1350000.	0.00
15.8000	-5.24E-08	0.7657	-0.9672	-2.13E-07	7.7996	1374447.	0.3537	1350000.	0.00
16.0000	-8.39E-08	0.5793	-0.8752	-1.15E-07	5.9012	1374447.	0.5662	1350000.	0.00
16.2000	-9.85E-08	0.4156	-0.7521	-4.29E-08	4.2335	1374447.	0.6649	1350000.	0.00
16.4000	-1.01E-07	0.2785	-0.6174	7.63E-09	2.8367	1374447.	0.6820	1350000.	0.00
16.6000	-9.55E-08	0.1687	-0.4848	4.02E-08	1.7179	1374447.	0.6444	1350000.	0.00
16.8000	-8.50E-08	0.08458	-0.3630	5.86E-08	0.8615	1374447.	0.5736	1350000.	0.00
17.0000	-7.20E-08	0.02345	-0.2570	6.64E-08	0.2389	1374447.	0.4862	1350000.	0.00

17.2000	-5.84E-08	-0.01823	-0.1690	6.68E-08	0.1857	1374447.	0.3942	1350000.	0.00
17.4000	-4.53E-08	-0.04414	-0.09899	6.23E-08	0.4496	1374447.	0.3058	1350000.	0.00
17.6000	-3.35E-08	-0.05783	-0.04581	5.49E-08	0.5890	1374447.	0.2260	1350000.	0.00
17.8000	-2.34E-08	-0.06247	-0.00745	4.61E-08	0.6363	1374447.	0.1576	1350000.	0.00
18.0000	-1.50E-08	-0.06080	0.01847	3.71E-08	0.6193	1374447.	0.1015	1350000.	0.00
18.2000	-8.50E-09	-0.05508	0.03435	2.87E-08	0.5610	1374447.	0.05734	1350000.	0.00
18.4000	-3.55E-09	-0.04706	0.04249	2.13E-08	0.4794	1374447.	0.02399	1350000.	0.00
18.6000	1.75E-11	-0.03808	0.04487	1.51E-08	0.3879	1374447.	-1.18E-04	1350000.	0.00
18.8000	2.48E-09	-0.02911	0.04319	1.02E-08	0.2965	1374447.	-0.01674	1350000.	0.00
19.0000	4.10E-09	-0.02081	0.03875	6.57E-09	0.2120	1374447.	-0.02765	1350000.	0.00
19.2000	5.11E-09	-0.01361	0.03254	4.06E-09	0.1387	1374447.	-0.03447	1350000.	0.00
19.4000	5.72E-09	-0.00780	0.02523	2.50E-09	0.07940	1374447.	-0.03862	1350000.	0.00
19.6000	6.11E-09	-0.00352	0.01724	1.68E-09	0.03587	1374447.	-0.04123	1350000.	0.00
19.8000	6.39E-09	-8.98E-04	0.00880	1.36E-09	0.00915	1374447.	-0.04315	1350000.	0.00
20.0000	6.65E-09	0.00	0.00	1.29E-09	0.00	1374447.	-0.04490	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 6:

Pile-head deflection = 0.00776465 meters
Computed slope at pile head = -0.00182996 radians
Maximum bending moment = 440.12483495 kN-m
Maximum shear force = 200.00000000 kN
Depth of maximum bending moment = 4.40000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 18
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 7

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 300.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth	Deflect.	Bending	Shear	Slope	Total	Bending	Soil Res.	Soil Spr.	Distrib.

X	y	Moment	Force	S	Stress	Stiffness	p	Es*h	Lat. Load
meters	meters	kN-m	kN	radians	kPa*	kN-m^2	kN/m	kN/m	kN/m
0.00	0.01530	-1.43E-09	300.0000	-0.00334	1.46E-08	1374447.	-50.0626	327.2397	0.00
0.2000	0.01463	58.9987	289.8313	-0.00334	600.9563	1374447.	-51.6244	705.7276	0.00
0.4000	0.01396	115.9325	279.3594	-0.00332	1181.	1374447.	-53.0944	760.4720	0.00
0.6000	0.01330	170.7425	268.6030	-0.00330	1739.	1374447.	-54.4699	819.0766	0.00
0.8000	0.01264	223.3737	257.5812	-0.00328	2275.	1374447.	-55.7484	881.9510	0.00
1.0000	0.01199	273.7750	246.3136	-0.00324	2789.	1374447.	-56.9274	949.5574	0.00
1.2000	0.01135	321.8992	234.8204	-0.00320	3279.	1374447.	-58.0046	1022.	0.00
1.4000	0.01071	367.7031	223.1222	-0.00315	3745.	1374447.	-58.9773	1101.	0.00
1.6000	0.01009	411.1480	211.2402	-0.00309	4188.	1374447.	-59.8432	1186.	0.00
1.8000	0.00948	452.1992	199.1958	-0.00303	4606.	1374447.	-60.5998	1279.	0.00
2.0000	0.00888	490.8264	187.0114	-0.00296	5000.	1374447.	-61.2448	1380.	0.00
2.2000	0.00829	527.0038	174.7093	-0.00288	5368.	1374447.	-61.7756	1490.	0.00
2.4000	0.00772	560.7101	162.3128	-0.00280	5711.	1374447.	-62.1897	1610.	0.00
2.6000	0.00717	591.9289	149.8454	-0.00272	6029.	1374447.	-62.4848	1742.	0.00
2.8000	0.00664	620.6483	137.3311	-0.00263	6322.	1374447.	-62.6581	1888.	0.00
3.0000	0.00612	646.8613	124.7946	-0.00254	6589.	1374447.	-62.7071	2049.	0.00
3.2000	0.00562	670.5661	112.2609	-0.00244	6830.	1374447.	-62.6291	2228.	0.00
3.4000	0.00514	691.7657	99.7559	-0.00234	7046.	1374447.	-62.4213	2428.	0.00
3.6000	0.00468	710.4684	87.3057	-0.00224	7237.	1374447.	-62.0807	2651.	0.00
3.8000	0.00424	726.6880	74.9372	-0.00214	7402.	1374447.	-61.6043	2903.	0.00
4.0000	0.00383	740.4433	62.6779	-0.00203	7542.	1374447.	-60.9889	3187.	0.00
4.2000	0.00343	751.7591	50.5559	-0.00192	7657.	1374447.	-60.2311	3510.	0.00
4.4000	0.00306	760.6657	38.6001	-0.00181	7748.	1374447.	-59.3271	3879.	0.00
4.6000	0.00271	767.1992	26.8401	-0.00170	7815.	1374447.	-58.2729	4305.	0.00
4.8000	0.00238	771.4017	8.0537	-0.00159	7857.	1374447.	-129.5904	10900.	0.00
5.0000	0.00207	770.4207	-17.3161	-0.00148	7847.	1374447.	-124.1083	11985.	0.00
5.2000	0.00179	764.4753	-41.6471	-0.00137	7787.	1374447.	-119.2012	13342.	0.00
5.4000	0.00152	753.7618	-64.8710	-0.00126	7678.	1374447.	-113.0381	14827.	0.00
5.6000	0.00128	738.5269	-86.7443	-0.00115	7523.	1374447.	-105.6947	16455.	0.00
5.8000	0.00107	719.0641	-107.0406	-0.00104	7324.	1374447.	-97.2681	18248.	0.00
6.0000	8.68E-04	695.7106	-125.8974	-9.38E-04	7086.	1374447.	-91.3006	21029.	0.00
6.2000	6.91E-04	668.7051	-143.4990	-8.39E-04	6811.	1374447.	-84.7153	24523.	0.00
6.4000	5.33E-04	638.3110	-159.6687	-7.43E-04	6502.	1374447.	-76.9819	28891.	0.00
6.6000	3.94E-04	604.8376	-174.1665	-6.53E-04	6161.	1374447.	-67.9957	34559.	0.00
6.8000	2.72E-04	568.6444	-185.8094	-5.68E-04	5792.	1374447.	-48.4335	35652.	0.00
7.0000	1.66E-04	530.5139	-193.7070	-4.88E-04	5404.	1374447.	-30.5427	36701.	0.00
7.2000	7.66E-05	491.1616	-198.2076	-4.13E-04	5003.	1374447.	-14.4624	37749.	0.00
7.4000	1.10E-06	451.2308	-199.6751	-3.45E-04	4596.	1374447.	-0.2132	38798.	0.00
7.6000	-6.13E-05	411.2916	-198.4753	-2.82E-04	4189.	1374447.	12.2117	39847.	0.00
7.8000	-1.12E-04	371.8407	-194.9698	-2.25E-04	3788.	1374447.	22.8433	40895.	0.00
8.0000	-1.51E-04	333.3037	-189.5120	-1.74E-04	3395.	1374447.	31.7341	41944.	0.00

8.2000	-1.81E-04	296.0359	-182.4431	-1.28E-04	3015.	1374447.	38.9551	42992.	0.00
8.4000	-2.03E-04	260.3264	-174.0884	-8.75E-05	2652.	1374447.	44.5925	44041.	0.00
8.6000	-2.16E-04	226.4006	-164.7546	-5.21E-05	2306.	1374447.	48.7450	45090.	0.00
8.8000	-2.23E-04	194.4246	-154.7280	-2.15E-05	1980.	1374447.	51.5213	46138.	0.00
9.0000	-2.25E-04	164.5094	-144.2721	4.66E-06	1676.	1374447.	53.0373	47187.	0.00
9.2000	-2.21E-04	136.7157	-133.6270	2.66E-05	1393.	1374447.	53.4140	48235.	0.00
9.4000	-2.14E-04	111.0586	-123.0081	4.46E-05	1131.	1374447.	52.7753	49284.	0.00
9.6000	-2.04E-04	87.5125	-112.6059	5.90E-05	891.3948	1374447.	51.2467	50332.	0.00
9.8000	-1.91E-04	66.0162	-102.5859	7.02E-05	672.4359	1374447.	48.9533	51381.	0.00
10.0000	-1.76E-04	46.4781	-93.0886	7.84E-05	473.4223	1374447.	46.0190	52430.	0.00
10.2000	-1.59E-04	28.7808	-84.2302	8.39E-05	293.1586	1374447.	42.5658	53478.	0.00
10.4000	-1.42E-04	12.7861	-76.1023	8.69E-05	130.2378	1374447.	38.7126	54527.	0.00
10.6000	-1.24E-04	-1.6602	-68.7735	8.77E-05	16.9102	1374447.	34.5758	55575.	0.00
10.8000	-1.07E-04	-14.7233	-62.2891	8.65E-05	149.9706	1374447.	30.2684	56624.	0.00
11.0000	-8.98E-05	-26.5758	-56.6721	8.35E-05	270.6986	1374447.	25.9010	57673.	0.00
11.2000	-7.35E-05	-37.3922	-51.9239	7.89E-05	380.8737	1374447.	21.5813	58721.	0.00
11.4000	-5.83E-05	-47.3453	-48.0242	7.27E-05	482.2556	1374447.	17.4159	59770.	0.00
11.6000	-4.44E-05	-56.6019	-44.9316	6.51E-05	576.5417	1374447.	13.5097	60818.	0.00
11.8000	-3.22E-05	-65.3180	-28.3705	5.63E-05	665.3235	1374447.	152.1015	944042.	0.00
12.0000	-2.19E-05	-67.9501	0.6534	4.66E-05	692.1336	1374447.	138.1374	1260288.	0.00
12.2000	-1.36E-05	-65.0566	23.6452	3.69E-05	662.6614	1374447.	91.7808	1350000.	0.00
12.4000	-7.17E-06	-58.4920	37.6604	2.79E-05	595.7943	1374447.	48.3710	1350000.	0.00
12.6000	-2.44E-06	-49.9925	44.1426	2.00E-05	509.2192	1374447.	16.4516	1350000.	0.00
12.8000	8.37E-07	-40.8349	45.2231	1.34E-05	415.9410	1374447.	-5.6472	1350000.	0.00
13.0000	2.92E-06	-31.9032	42.6859	8.11E-06	324.9637	1374447.	-19.7243	1350000.	0.00
13.2000	4.08E-06	-23.7605	37.9601	4.06E-06	242.0229	1374447.	-27.5342	1350000.	0.00
13.4000	4.54E-06	-16.7192	32.1390	1.11E-06	170.3005	1374447.	-30.6766	1350000.	0.00
13.6000	4.52E-06	-10.9049	26.0179	-8.99E-07	111.0769	1374447.	-30.5346	1350000.	0.00
13.8000	4.19E-06	-6.3121	20.1394	-2.15E-06	64.2941	1374447.	-28.2503	1350000.	0.00
14.0000	3.66E-06	-2.8492	14.8417	-2.82E-06	29.0216	1374447.	-24.7262	1350000.	0.00
14.2000	3.06E-06	-0.3754	10.3049	-3.05E-06	3.8234	1374447.	-20.6423	1350000.	0.00
14.4000	2.44E-06	1.2728	6.5922	-2.99E-06	12.9643	1374447.	-16.4847	1350000.	0.00
14.6000	1.86E-06	2.2615	3.6860	-2.73E-06	23.0356	1374447.	-12.5771	1350000.	0.00
14.8000	1.35E-06	2.7472	1.5169	-2.37E-06	27.9825	1374447.	-9.1137	1350000.	0.00
15.0000	9.17E-07	2.8683	-0.01343	-1.96E-06	29.2162	1374447.	-6.1901	1350000.	0.00
15.2000	5.67E-07	2.7418	-1.0154	-1.55E-06	27.9278	1374447.	-3.8298	1350000.	0.00
15.4000	2.98E-07	2.4621	-1.5992	-1.17E-06	25.0790	1374447.	-2.0082	1350000.	0.00
15.6000	9.93E-08	2.1021	-1.8671	-8.38E-07	21.4119	1374447.	-0.6703	1350000.	0.00
15.8000	-3.77E-08	1.7153	-1.9086	-5.60E-07	17.4718	1374447.	0.2547	1350000.	0.00
16.0000	-1.25E-07	1.3387	-1.7989	-3.38E-07	13.6354	1374447.	0.8428	1350000.	0.00
16.2000	-1.73E-07	0.9957	-1.5978	-1.68E-07	10.1425	1374447.	1.1678	1350000.	0.00
16.4000	-1.92E-07	0.6995	-1.3513	-4.50E-08	7.1253	1374447.	1.2973	1350000.	0.00
16.6000	-1.91E-07	0.4552	-1.0927	3.90E-08	4.6367	1374447.	1.2894	1350000.	0.00
16.8000	-1.77E-07	0.2625	-0.8445	9.12E-08	2.6734	1374447.	1.1920	1350000.	0.00

17.0000	-1.55E-07	0.1174	-0.6210	1.19E-07	1.1958	1374447.	1.0431	1350000.	0.00
17.2000	-1.29E-07	0.01406	-0.4296	1.28E-07	0.1432	1374447.	0.8711	1350000.	0.00
17.4000	-1.03E-07	-0.05444	-0.2729	1.25E-07	0.5545	1374447.	0.6963	1350000.	0.00
17.6000	-7.89E-08	-0.09508	-0.1500	1.15E-07	0.9685	1374447.	0.5323	1350000.	0.00
17.8000	-5.73E-08	-0.1144	-0.05809	9.94E-08	1.1657	1374447.	0.3869	1350000.	0.00
18.0000	-3.91E-08	-0.1183	0.00700	8.24E-08	1.2052	1374447.	0.2640	1350000.	0.00
18.2000	-2.43E-08	-0.1116	0.04983	6.57E-08	1.1372	1374447.	0.1643	1350000.	0.00
18.4000	-1.28E-08	-0.09839	0.07492	5.04E-08	1.0022	1374447.	0.08660	1350000.	0.00
18.6000	-4.18E-09	-0.08167	0.08640	3.73E-08	0.8319	1374447.	0.02820	1350000.	0.00
18.8000	2.10E-09	-0.06383	0.08781	2.67E-08	0.6501	1374447.	-0.01415	1350000.	0.00
19.0000	6.51E-09	-0.04655	0.08200	1.87E-08	0.4741	1374447.	-0.04397	1350000.	0.00
19.2000	9.58E-09	-0.03103	0.07114	1.31E-08	0.3161	1374447.	-0.06464	1350000.	0.00
19.4000	1.17E-08	-0.01809	0.05675	9.48E-09	0.1843	1374447.	-0.07921	1350000.	0.00
19.6000	1.34E-08	-0.00833	0.03981	7.56E-09	0.08483	1374447.	-0.09024	1350000.	0.00
19.8000	1.48E-08	-0.00217	0.02082	6.79E-09	0.02212	1374447.	-0.09962	1350000.	0.00
20.0000	1.61E-08	0.00	0.00	6.64E-09	0.00	1374447.	-0.1086	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 7:

Pile-head deflection = 0.01529844 meters
Computed slope at pile head = -0.00334156 radians
Maximum bending moment = 771.40171610 kN-m
Maximum shear force = 300.00000000 kN
Depth of maximum bending moment = 4.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 18
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 8

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 400.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.02426	2.38E-10	400.0000	-0.00506	2.43E-09	1374447.	-58.3764	240.6632	0.00
0.2000	0.02325	78.8325	388.1384	-0.00505	802.9810	1374447.	-60.2394	518.2966	0.00
0.4000	0.02224	155.2554	375.9143	-0.00503	1581.	1374447.	-62.0013	557.6626	0.00
0.6000	0.02123	229.1982	363.3483	-0.00501	2335.	1374447.	-63.6591	599.6640	0.00
0.8000	0.02023	300.5947	350.4614	-0.00497	3062.	1374447.	-65.2103	644.5691	0.00
1.0000	0.01924	369.3828	337.2751	-0.00492	3763.	1374447.	-66.6519	692.6792	0.00
1.2000	0.01827	435.5047	323.8118	-0.00486	4436.	1374447.	-67.9812	744.3341	0.00
1.4000	0.01730	498.9075	310.0942	-0.00479	5082.	1374447.	-69.1955	799.9184	0.00
1.6000	0.01635	559.5424	296.1454	-0.00472	5699.	1374447.	-70.2920	859.8683	0.00
1.8000	0.01541	617.3657	281.9894	-0.00463	6288.	1374447.	-71.2680	924.6812	0.00
2.0000	0.01450	672.3382	267.6506	-0.00454	6848.	1374447.	-72.1207	994.9257	0.00
2.2000	0.01360	724.4259	253.1538	-0.00443	7379.	1374447.	-72.8473	1071.	0.00
2.4000	0.01272	773.5997	238.5245	-0.00432	7880.	1374447.	-73.4450	1154.	0.00
2.6000	0.01187	819.8357	223.7889	-0.00421	8351.	1374447.	-73.9110	1245.	0.00
2.8000	0.01104	863.1153	208.9736	-0.00409	8792.	1374447.	-74.2424	1345.	0.00
3.0000	0.01024	903.4252	194.1058	-0.00396	9202.	1374447.	-74.4361	1454.	0.00
3.2000	0.00946	940.7576	179.2132	-0.00382	9582.	1374447.	-74.4893	1575.	0.00
3.4000	0.00871	975.1104	164.3244	-0.00368	9932.	1374447.	-74.3987	1709.	0.00
3.6000	0.00798	1006.	149.4684	-0.00354	10252.	1374447.	-74.1612	1858.	0.00
3.8000	0.00729	1035.	134.6749	-0.00339	10541.	1374447.	-73.7735	2024.	0.00
4.0000	0.00663	1060.	119.9744	-0.00324	10801.	1374447.	-73.2322	2210.	0.00
4.2000	0.00599	1083.	105.3978	-0.00308	11030.	1374447.	-72.5337	2420.	0.00
4.4000	0.00539	1103.	90.9770	-0.00292	11230.	1374447.	-71.6744	2658.	0.00
4.6000	0.00482	1119.	76.7445	-0.00276	11401.	1374447.	-70.6506	2929.	0.00
4.8000	0.00429	1133.	51.7211	-0.00260	11543.	1374447.	-179.5837	8376.	0.00
5.0000	0.00378	1140.	16.2958	-0.00243	11612.	1374447.	-174.6689	9230.	0.00
5.2000	0.00331	1140.	-18.1919	-0.00227	11609.	1374447.	-170.2084	10270.	0.00
5.4000	0.00288	1133.	-51.6173	-0.00210	11537.	1374447.	-164.0451	11400.	0.00
5.6000	0.00247	1119.	-83.6454	-0.00194	11399.	1374447.	-156.2362	12631.	0.00
5.8000	0.00210	1099.	-113.9560	-0.00178	11197.	1374447.	-146.8692	13971.	0.00
6.0000	0.00176	1074.	-142.6862	-0.00162	10935.	1374447.	-140.4336	15931.	0.00
6.2000	0.00145	1042.	-170.0521	-0.00147	10615.	1374447.	-133.2254	18314.	0.00
6.4000	0.00118	1005.	-195.8373	-0.00132	10242.	1374447.	-124.6259	21177.	0.00
6.6000	9.28E-04	963.8224	-219.7585	-0.00117	9817.	1374447.	-114.5862	24684.	0.00
6.8000	7.08E-04	917.5790	-241.5191	-0.00104	9346.	1374447.	-103.0203	29107.	0.00
7.0000	5.14E-04	867.2148	-260.7979	-9.06E-04	8833.	1374447.	-89.7672	34926.	0.00
7.2000	3.45E-04	813.2599	-276.2948	-7.84E-04	8284.	1374447.	-65.2020	37749.	0.00
7.4000	2.01E-04	756.6969	-286.7048	-6.70E-04	7708.	1374447.	-38.8982	38798.	0.00
7.6000	7.76E-05	698.5779	-292.1408	-5.64E-04	7116.	1374447.	-15.4622	39847.	0.00
7.8000	-2.50E-05	639.8405	-293.1765	-4.66E-04	6517.	1374447.	5.1055	40895.	0.00

8.0000	-1.09E-04	581.3073	-290.3816	-3.77E-04	5921.	1374447.	22.8436	41944.	0.00
8.2000	-1.76E-04	523.6879	-284.3147	-2.97E-04	5334.	1374447.	37.8255	42992.	0.00
8.4000	-2.28E-04	467.5815	-275.5167	-2.25E-04	4763.	1374447.	50.1543	44041.	0.00
8.6000	-2.66E-04	413.4812	-264.5055	-1.61E-04	4212.	1374447.	59.9583	45090.	0.00
8.8000	-2.92E-04	361.7793	-251.7709	-1.04E-04	3685.	1374447.	67.3869	46138.	0.00
9.0000	-3.08E-04	312.7728	-237.7717	-5.54E-05	3186.	1374447.	72.6056	47187.	0.00
9.2000	-3.14E-04	266.6706	-222.9318	-1.32E-05	2716.	1374447.	75.7930	48235.	0.00
9.4000	-3.13E-04	223.6001	-207.6389	2.24E-05	2278.	1374447.	77.1363	49284.	0.00
9.6000	-3.05E-04	183.6150	-192.2424	5.21E-05	1870.	1374447.	76.8290	50332.	0.00
9.8000	-2.92E-04	146.7031	-177.0527	7.61E-05	1494.	1374447.	75.0677	51381.	0.00
10.0000	-2.75E-04	112.7940	-162.3409	9.50E-05	1149.	1374447.	72.0500	52430.	0.00
10.2000	-2.54E-04	81.7668	-148.3387	1.09E-04	832.8695	1374447.	67.9726	53478.	0.00
10.4000	-2.31E-04	53.4585	-135.2384	1.19E-04	544.5237	1374447.	63.0299	54527.	0.00
10.6000	-2.07E-04	27.6714	-123.1941	1.25E-04	281.8586	1374447.	57.4136	55575.	0.00
10.8000	-1.81E-04	4.1809	-112.3215	1.27E-04	42.5859	1374447.	51.3116	56624.	0.00
11.0000	-1.56E-04	-17.2572	-102.6995	1.26E-04	175.7805	1374447.	44.9084	57673.	0.00
11.2000	-1.31E-04	-36.8990	-94.3702	1.22E-04	375.8496	1374447.	38.3853	58721.	0.00
11.4000	-1.07E-04	-55.0053	-87.3395	1.16E-04	560.2792	1374447.	31.9210	59770.	0.00
11.6000	-8.45E-05	-71.8348	-81.5782	1.06E-04	731.7029	1374447.	25.6925	60818.	0.00
11.8000	-6.43E-05	-87.6366	-60.9347	9.48E-05	892.6586	1374447.	180.7428	562569.	0.00
12.0000	-4.66E-05	-96.2086	-26.1834	8.14E-05	979.9731	1374447.	166.7702	716157.	0.00
12.2000	-3.17E-05	-98.1099	5.6404	6.73E-05	999.3392	1374447.	151.4672	955901.	0.00
12.4000	-1.97E-05	-93.9525	34.0600	5.33E-05	956.9921	1374447.	132.7290	1350000.	0.00
12.6000	-1.04E-05	-84.4859	54.3329	4.03E-05	860.5663	1374447.	70.0001	1350000.	0.00
12.8000	-3.54E-06	-72.2193	63.7197	2.89E-05	735.6199	1374447.	23.8679	1350000.	0.00
13.0000	1.20E-06	-58.9980	65.2988	1.94E-05	600.9489	1374447.	-8.0773	1350000.	0.00
13.2000	4.21E-06	-46.0998	61.6478	1.17E-05	469.5688	1374447.	-28.4329	1350000.	0.00
13.4000	5.89E-06	-34.3389	54.8312	5.87E-06	349.7733	1374447.	-39.7324	1350000.	0.00
13.6000	6.56E-06	-24.1673	46.4294	1.61E-06	246.1663	1374447.	-44.2863	1350000.	0.00
13.8000	6.53E-06	-15.7672	37.5914	-1.29E-06	160.6031	1374447.	-44.0928	1350000.	0.00
14.0000	6.04E-06	-9.1307	29.1020	-3.10E-06	93.0050	1374447.	-40.8019	1350000.	0.00
14.2000	5.29E-06	-4.1264	21.4501	-4.07E-06	42.0310	1374447.	-35.7173	1350000.	0.00
14.4000	4.42E-06	-0.5507	14.8961	-4.41E-06	5.6095	1374447.	-29.8221	1350000.	0.00
14.6000	3.53E-06	1.8321	9.5320	-4.31E-06	18.6613	1374447.	-23.8188	1350000.	0.00
14.8000	2.69E-06	3.2621	5.3326	-3.94E-06	33.2275	1374447.	-18.1753	1350000.	0.00
15.0000	1.95E-06	3.9651	2.1978	-3.42E-06	40.3884	1374447.	-13.1726	1350000.	0.00
15.2000	1.33E-06	4.1412	-0.01432	-2.83E-06	42.1823	1374447.	-8.9489	1350000.	0.00
15.4000	8.21E-07	3.9594	-1.4631	-2.24E-06	40.3301	1374447.	-5.5387	1350000.	0.00
15.6000	4.31E-07	3.5560	-2.3076	-1.69E-06	36.2212	1374447.	-2.9063	1350000.	0.00
15.8000	1.44E-07	3.0364	-2.6954	-1.21E-06	30.9281	1374447.	-0.9724	1350000.	0.00
16.0000	-5.41E-08	2.4778	-2.7562	-8.10E-07	25.2389	1374447.	0.3650	1350000.	0.00
16.2000	-1.80E-07	1.9339	-2.5981	-4.89E-07	19.6984	1374447.	1.2156	1350000.	0.00
16.4000	-2.50E-07	1.4386	-2.3079	-2.44E-07	14.6532	1374447.	1.6864	1350000.	0.00
16.6000	-2.78E-07	1.0107	-1.9518	-6.58E-08	10.2951	1374447.	1.8745	1350000.	0.00

16.8000	-2.76E-07	0.6578	-1.5780	5.56E-08	6.7008	1374447.	1.8641	1350000.	0.00
17.0000	-2.55E-07	0.3795	-1.2191	1.31E-07	3.8659	1374447.	1.7245	1350000.	0.00
17.2000	-2.24E-07	0.1702	-0.8956	1.71E-07	1.7337	1374447.	1.5103	1350000.	0.00
17.4000	-1.87E-07	0.02129	-0.6183	1.85E-07	0.2169	1374447.	1.2627	1350000.	0.00
17.6000	-1.50E-07	-0.07712	-0.3910	1.81E-07	0.7855	1374447.	1.0109	1350000.	0.00
17.8000	-1.15E-07	-0.1351	-0.2124	1.65E-07	1.3760	1374447.	0.7742	1350000.	0.00
18.0000	-8.36E-08	-0.1621	-0.07860	1.44E-07	1.6511	1374447.	0.5641	1350000.	0.00
18.2000	-5.72E-08	-0.1665	0.01639	1.20E-07	1.6963	1374447.	0.3859	1350000.	0.00
18.4000	-3.56E-08	-0.1555	0.07901	9.65E-08	1.5843	1374447.	0.2403	1350000.	0.00
18.6000	-1.86E-08	-0.1349	0.1156	7.54E-08	1.3744	1374447.	0.1253	1350000.	0.00
18.8000	-5.45E-09	-0.1093	0.1318	5.76E-08	1.1134	1374447.	0.03679	1350000.	0.00
19.0000	4.48E-09	-0.08222	0.1324	4.37E-08	0.8375	1374447.	-0.03024	1350000.	0.00
19.2000	1.20E-08	-0.05634	0.1213	3.36E-08	0.5739	1374447.	-0.08112	1350000.	0.00
19.4000	1.79E-08	-0.03370	0.1011	2.70E-08	0.3433	1374447.	-0.1209	1350000.	0.00
19.6000	2.28E-08	-0.01590	0.07359	2.34E-08	0.1620	1374447.	-0.1541	1350000.	0.00
19.8000	2.73E-08	-0.00427	0.03976	2.20E-08	0.04347	1374447.	-0.1842	1350000.	0.00
20.0000	3.16E-08	0.00	0.00	2.16E-08	0.00	1374447.	-0.2134	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 8:

Pile-head deflection = 0.02425649 meters
Computed slope at pile head = -0.00505665 radians
Maximum bending moment = 1140. kN-m
Maximum shear force = 400.00000000 kN
Depth of maximum bending moment = 5.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 18
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 9

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 450.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.02916	-9.54E-10	450.0000	-0.00597	9.71E-09	1374447.	-62.0702	212.8718	0.00
0.2000	0.02796	88.7586	437.3863	-0.00597	904.0876	1374447.	-64.0673	458.2129	0.00
0.4000	0.02677	174.9545	424.3836	-0.00595	1782.	1374447.	-65.9591	492.7460	0.00
0.6000	0.02559	258.5120	411.0134	-0.00592	2633.	1374447.	-67.7427	529.5462	0.00
0.8000	0.02441	339.3599	397.2976	-0.00587	3457.	1374447.	-69.4153	568.8406	0.00
1.0000	0.02324	417.4311	383.2587	-0.00582	4252.	1374447.	-70.9739	610.8843	0.00
1.2000	0.02208	492.6634	368.9198	-0.00575	5018.	1374447.	-72.4156	655.9640	0.00
1.4000	0.02094	564.9990	354.3044	-0.00567	5755.	1374447.	-73.7377	704.4037	0.00
1.6000	0.01981	634.3851	339.4370	-0.00559	6462.	1374447.	-74.9371	756.5703	0.00
1.8000	0.01870	700.7738	324.3422	-0.00549	7138.	1374447.	-76.0110	812.8811	0.00
2.0000	0.01761	764.1220	309.0454	-0.00538	7783.	1374447.	-76.9566	873.8124	0.00
2.2000	0.01655	824.3920	293.5727	-0.00527	8397.	1374447.	-77.7708	939.9099	0.00
2.4000	0.01551	881.5511	277.9505	-0.00514	8979.	1374447.	-78.4507	1012.	0.00
2.6000	0.01449	935.5722	262.2061	-0.00501	9530.	1374447.	-78.9934	1090.	0.00
2.8000	0.01350	986.4335	246.3672	-0.00487	10048.	1374447.	-79.3957	1176.	0.00
3.0000	0.01254	1034.	230.4622	-0.00472	10533.	1374447.	-79.6547	1270.	0.00
3.2000	0.01161	1079.	214.5200	-0.00457	10987.	1374447.	-79.7670	1374.	0.00
3.4000	0.01071	1120.	198.5704	-0.00441	11407.	1374447.	-79.7295	1488.	0.00
3.6000	0.00985	1158.	182.6435	-0.00424	11796.	1374447.	-79.5389	1615.	0.00
3.8000	0.00902	1193.	166.7705	-0.00407	12152.	1374447.	-79.1917	1756.	0.00
4.0000	0.00822	1225.	150.9829	-0.00390	12475.	1374447.	-78.6844	1915.	0.00
4.2000	0.00746	1253.	135.3131	-0.00372	12767.	1374447.	-78.0135	2092.	0.00
4.4000	0.00673	1279.	119.7942	-0.00353	13027.	1374447.	-77.1752	2292.	0.00
4.6000	0.00604	1301.	104.4601	-0.00335	13255.	1374447.	-76.1658	2520.	0.00
4.8000	0.00539	1321.	76.4531	-0.00315	13452.	1374447.	-203.9046	7559.	0.00
5.0000	0.00478	1332.	36.1178	-0.00296	13566.	1374447.	-199.4478	8340.	0.00
5.2000	0.00421	1335.	-3.3630	-0.00277	13599.	1374447.	-195.3601	9281.	0.00
5.4000	0.00368	1331.	-41.8352	-0.00257	13553.	1374447.	-189.3624	10303.	0.00
5.6000	0.00318	1318.	-78.9214	-0.00238	13429.	1374447.	-181.4993	11413.	0.00
5.8000	0.00272	1299.	-114.2563	-0.00219	13231.	1374447.	-171.8495	12619.	0.00
6.0000	0.00230	1273.	-147.9682	-0.00200	12963.	1374447.	-165.2692	14343.	0.00
6.2000	0.00192	1240.	-180.2772	-0.00182	12628.	1374447.	-157.8212	16419.	0.00
6.4000	0.00158	1201.	-210.9441	-0.00164	12229.	1374447.	-148.8475	18885.	0.00
6.6000	0.00127	1155.	-239.6599	-0.00147	11769.	1374447.	-138.3106	21864.	0.00
6.8000	9.88E-04	1105.	-266.1057	-0.00131	11252.	1374447.	-126.1477	25544.	0.00
7.0000	7.42E-04	1049.	-289.9448	-0.00115	10685.	1374447.	-112.2433	30240.	0.00
7.2000	5.28E-04	988.7217	-310.8065	-0.00100	10071.	1374447.	-96.3735	36537.	0.00
7.4000	3.41E-04	924.6330	-327.0685	-8.63E-04	9418.	1374447.	-66.2460	38798.	0.00
7.6000	1.82E-04	857.8944	-337.3262	-7.33E-04	8738.	1374447.	-36.3313	39847.	0.00

7.8000	4.82E-05	789.7025	-341.9446	-6.13E-04	8044.	1374447.	-9.8532	40895.	0.00
8.0000	-6.30E-05	721.1165	-341.6087	-5.03E-04	7345.	1374447.	13.2120	41944.	0.00
8.2000	-1.53E-04	653.0590	-336.9944	-4.03E-04	6652.	1374447.	32.9319	42992.	0.00
8.4000	-2.24E-04	586.3188	-328.7599	-3.13E-04	5972.	1374447.	49.4124	44041.	0.00
8.6000	-2.79E-04	521.5550	-317.5394	-2.33E-04	5313.	1374447.	62.7926	45090.	0.00
8.8000	-3.17E-04	459.3030	-303.9363	-1.61E-04	4678.	1374447.	73.2388	46138.	0.00
9.0000	-3.43E-04	399.9805	-288.5184	-9.88E-05	4074.	1374447.	80.9397	47187.	0.00
9.2000	-3.57E-04	343.8956	-271.8143	-4.47E-05	3503.	1374447.	86.1015	48235.	0.00
9.4000	-3.61E-04	291.2548	-254.3098	1.51E-06	2967.	1374447.	88.9434	49284.	0.00
9.6000	-3.56E-04	242.1717	-236.4462	4.03E-05	2467.	1374447.	89.6933	50332.	0.00
9.8000	-3.45E-04	196.6763	-218.6183	7.22E-05	2003.	1374447.	88.5850	51381.	0.00
10.0000	-3.28E-04	154.7244	-201.1743	9.78E-05	1576.	1374447.	85.8548	52430.	0.00
10.2000	-3.06E-04	116.2066	-184.4150	1.18E-04	1184.	1374447.	81.7389	53478.	0.00
10.4000	-2.80E-04	80.9584	-168.5939	1.32E-04	824.6351	1374447.	76.4723	54527.	0.00
10.6000	-2.53E-04	48.7690	-153.9179	1.41E-04	496.7573	1374447.	70.2868	55575.	0.00
10.8000	-2.24E-04	19.3912	-140.5482	1.46E-04	197.5170	1374447.	63.4106	56624.	0.00
11.0000	-1.94E-04	-7.4502	-128.6004	1.47E-04	75.8875	1374447.	56.0678	57673.	0.00
11.2000	-1.65E-04	-32.0490	-118.1457	1.44E-04	326.4480	1374447.	48.4789	58721.	0.00
11.4000	-1.37E-04	-54.7085	-109.2117	1.38E-04	557.2564	1374447.	40.8614	59770.	0.00
11.6000	-1.10E-04	-75.7336	-101.7825	1.28E-04	771.4163	1374447.	33.4304	60818.	0.00
11.8000	-8.53E-05	-95.4215	-79.0360	1.16E-04	971.9555	1374447.	194.0339	454705.	0.00
12.0000	-6.35E-05	-107.3480	-41.6094	1.01E-04	1093.	1374447.	180.2323	567376.	0.00
12.2000	-4.48E-05	-112.0653	-7.0662	8.53E-05	1141.	1374447.	165.2000	736794.	0.00
12.4000	-2.94E-05	-110.1745	24.3211	6.91E-05	1122.	1374447.	148.6732	1010856.	0.00
12.6000	-1.72E-05	-102.3368	50.7944	5.37E-05	1042.	1374447.	116.0599	1350000.	0.00
12.8000	-7.95E-06	-89.8567	67.7674	3.97E-05	915.2733	1374447.	53.6699	1350000.	0.00
13.0000	-1.32E-06	-75.2299	74.0276	2.77E-05	766.2851	1374447.	8.9316	1350000.	0.00
13.2000	3.12E-06	-60.2457	72.8179	1.78E-05	613.6578	1374447.	-21.0283	1350000.	0.00
13.4000	5.80E-06	-46.1027	66.7997	1.01E-05	469.5983	1374447.	-39.1534	1350000.	0.00
13.6000	7.14E-06	-33.5258	58.0622	4.28E-06	341.4912	1374447.	-48.2220	1350000.	0.00
13.8000	7.51E-06	-22.8778	48.1695	1.75E-07	233.0316	1374447.	-50.7047	1350000.	0.00
14.0000	7.21E-06	-14.2580	38.2297	-2.53E-06	145.2310	1374447.	-48.6932	1350000.	0.00
14.2000	6.50E-06	-7.5859	28.9723	-4.12E-06	77.2697	1374447.	-43.8808	1350000.	0.00
14.4000	5.57E-06	-2.6691	20.8264	-4.86E-06	27.1871	1374447.	-37.5782	1350000.	0.00
14.6000	4.56E-06	0.7446	13.9935	-5.00E-06	7.5848	1374447.	-30.7513	1350000.	0.00
14.8000	3.57E-06	2.9283	8.5113	-4.74E-06	29.8275	1374447.	-24.0706	1350000.	0.00
15.0000	2.66E-06	4.1492	4.3077	-4.22E-06	42.2630	1374447.	-17.9653	1350000.	0.00
15.2000	1.88E-06	4.6514	1.2437	-3.58E-06	47.3787	1374447.	-12.6749	1350000.	0.00
15.4000	1.23E-06	4.6466	-0.8536	-2.90E-06	47.3302	1374447.	-8.2984	1350000.	0.00
15.6000	7.16E-07	4.3099	-2.1669	-2.25E-06	43.9007	1374447.	-4.8346	1350000.	0.00
15.8000	3.29E-07	3.7799	-2.8721	-1.66E-06	38.5013	1374447.	-2.2174	1350000.	0.00
16.0000	5.08E-08	3.1611	-3.1282	-1.16E-06	32.1985	1374447.	-0.3428	1350000.	0.00
16.2000	-1.35E-07	2.5286	-3.0714	-7.45E-07	25.7560	1374447.	0.9108	1350000.	0.00
16.4000	-2.47E-07	1.9325	-2.8135	-4.20E-07	19.6846	1374447.	1.6677	1350000.	0.00

16.6000	-3.03E-07	1.4032	-2.4422	-1.77E-07	14.2927	1374447.	2.0450	1350000.	0.00
16.8000	-3.18E-07	0.9556	-2.0231	-5.76E-09	9.7340	1374447.	2.1466	1350000.	0.00
17.0000	-3.05E-07	0.5940	-1.6024	1.07E-07	6.0500	1374447.	2.0605	1350000.	0.00
17.2000	-2.75E-07	0.3147	-1.2105	1.73E-07	3.2054	1374447.	1.8578	1350000.	0.00
17.4000	-2.36E-07	0.1097	-0.8654	2.04E-07	1.1178	1374447.	1.5932	1350000.	0.00
17.6000	-1.94E-07	-0.03148	-0.5754	2.10E-07	0.3207	1374447.	1.3070	1350000.	0.00
17.8000	-1.52E-07	-0.1204	-0.3420	1.99E-07	1.2267	1374447.	1.0271	1350000.	0.00
18.0000	-1.14E-07	-0.1683	-0.1622	1.78E-07	1.7142	1374447.	0.7708	1350000.	0.00
18.2000	-8.11E-08	-0.1853	-0.03039	1.52E-07	1.8876	1374447.	0.5475	1350000.	0.00
18.4000	-5.34E-08	-0.1804	0.06042	1.25E-07	1.8380	1374447.	0.3607	1350000.	0.00
18.6000	-3.10E-08	-0.1611	0.1174	1.00E-07	1.6414	1374447.	0.2093	1350000.	0.00
18.8000	-1.33E-08	-0.1335	0.1473	7.90E-08	1.3596	1374447.	0.08954	1350000.	0.00
19.0000	5.89E-10	-0.1022	0.1559	6.18E-08	1.0413	1374447.	-0.00398	1350000.	0.00
19.2000	1.15E-08	-0.07113	0.1477	4.92E-08	0.7246	1374447.	-0.07742	1350000.	0.00
19.4000	2.03E-08	-0.04314	0.1263	4.09E-08	0.4394	1374447.	-0.1369	1350000.	0.00
19.6000	2.78E-08	-0.02062	0.09381	3.63E-08	0.2100	1374447.	-0.1879	1350000.	0.00
19.8000	3.48E-08	-0.00561	0.05155	3.44E-08	0.05717	1374447.	-0.2348	1350000.	0.00
20.0000	4.16E-08	0.00	0.00	3.40E-08	0.00	1374447.	-0.2806	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 9:

Pile-head deflection = 0.02915849 meters
Computed slope at pile head = -0.00597258 radians
Maximum bending moment = 1335. kN-m
Maximum shear force = 450.00000000 kN
Depth of maximum bending moment = 5.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 18
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 10

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 470.000 kN
Applied moment at pile head = 0.000 kN-m

Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.03119	-1.19E-09	470.0000	-0.00635	1.21E-08	1374447.	-63.4789	203.5283	0.00
0.2000	0.02992	92.7304	457.0994	-0.00634	944.5443	1374447.	-65.5272	438.0221	0.00
0.4000	0.02865	182.8398	443.7998	-0.00632	1862.	1374447.	-67.4686	470.9424	0.00
0.6000	0.02739	270.2503	430.1229	-0.00629	2753.	1374447.	-69.3003	506.0086	0.00
0.8000	0.02614	354.8889	416.0910	-0.00624	3615.	1374447.	-71.0193	543.4349	0.00
1.0000	0.02489	436.6867	401.7268	-0.00619	4448.	1374447.	-72.6226	583.4610	0.00
1.2000	0.02366	515.5796	387.0538	-0.00612	5252.	1374447.	-74.1073	626.3566	0.00
1.4000	0.02245	591.5082	372.0960	-0.00604	6025.	1374447.	-75.4706	672.4260	0.00
1.6000	0.02125	664.4180	356.8780	-0.00594	6768.	1374447.	-76.7094	722.0138	0.00
1.8000	0.02007	734.2594	341.4250	-0.00584	7479.	1374447.	-77.8208	775.5115	0.00
2.0000	0.01891	800.9880	325.7627	-0.00573	8159.	1374447.	-78.8019	833.3657	0.00
2.2000	0.01778	864.5645	309.9176	-0.00561	8806.	1374447.	-79.6497	896.0875	0.00
2.4000	0.01667	924.9550	293.9165	-0.00548	9422.	1374447.	-80.3611	964.2647	0.00
2.6000	0.01559	982.1311	277.7870	-0.00534	10004.	1374447.	-80.9332	1039.	0.00
2.8000	0.01453	1036.	261.5574	-0.00519	10553.	1374447.	-81.3629	1120.	0.00
3.0000	0.01351	1087.	245.2564	-0.00504	11070.	1374447.	-81.6469	1209.	0.00
3.2000	0.01252	1134.	228.9135	-0.00488	11553.	1374447.	-81.7821	1307.	0.00
3.4000	0.01156	1178.	212.5588	-0.00471	12002.	1374447.	-81.7651	1415.	0.00
3.6000	0.01063	1219.	196.2230	-0.00454	12419.	1374447.	-81.5927	1535.	0.00
3.8000	0.00974	1257.	179.9376	-0.00435	12802.	1374447.	-81.2613	1668.	0.00
4.0000	0.00889	1291.	163.7348	-0.00417	13152.	1374447.	-80.7674	1817.	0.00
4.2000	0.00807	1322.	147.6473	-0.00398	13469.	1374447.	-80.1074	1984.	0.00
4.4000	0.00730	1350.	131.7088	-0.00379	13753.	1374447.	-79.2775	2173.	0.00
4.6000	0.00656	1375.	115.9537	-0.00359	14005.	1374447.	-78.2741	2386.	0.00
4.8000	0.00586	1397.	86.7737	-0.00339	14226.	1374447.	-213.5258	7283.	0.00
5.0000	0.00521	1410.	44.4931	-0.00318	14359.	1374447.	-209.2796	8039.	0.00
5.2000	0.00459	1414.	3.0286	-0.00298	14407.	1374447.	-205.3652	8946.	0.00
5.4000	0.00402	1411.	-37.4540	-0.00277	14371.	1374447.	-199.4608	9932.	0.00
5.6000	0.00348	1399.	-76.5606	-0.00257	14254.	1374447.	-191.6058	11002.	0.00
5.8000	0.00299	1380.	-113.9087	-0.00236	14059.	1374447.	-181.8746	12164.	0.00
6.0000	0.00254	1354.	-149.6215	-0.00216	13790.	1374447.	-175.2540	13811.	0.00
6.2000	0.00212	1320.	-183.9195	-0.00197	13450.	1374447.	-167.7260	15787.	0.00
6.4000	0.00175	1280.	-216.5539	-0.00178	13041.	1374447.	-158.6182	18127.	0.00
6.6000	0.00141	1234.	-247.2055	-0.00160	12568.	1374447.	-147.8969	20939.	0.00
6.8000	0.00111	1181.	-275.5457	-0.00142	12034.	1374447.	-135.5059	24392.	0.00
7.0000	8.44E-04	1124.	-301.2306	-0.00125	11445.	1374447.	-121.3430	28757.	0.00
7.2000	6.09E-04	1061.	-323.8861	-0.00110	10806.	1374447.	-105.2117	34527.	0.00
7.4000	4.06E-04	994.0399	-342.2802	-9.46E-04	10125.	1374447.	-78.7297	38798.	0.00

7.6000	2.31E-04	924.0093	-354.7591	-8.06E-04	9412.	1374447.	-46.0586	39847.	0.00
7.8000	8.34E-05	852.1363	-361.0704	-6.77E-04	8680.	1374447.	-17.0546	40895.	0.00
8.0000	-3.96E-05	779.5811	-361.9461	-5.58E-04	7941.	1374447.	8.2980	41944.	0.00
8.2000	-1.40E-04	707.3578	-358.1100	-4.50E-04	7205.	1374447.	30.0631	42992.	0.00
8.4000	-2.20E-04	636.3371	-350.2690	-3.52E-04	6482.	1374447.	48.3467	44041.	0.00
8.6000	-2.81E-04	567.2503	-339.1052	-2.65E-04	5778.	1374447.	63.2910	45090.	0.00
8.8000	-3.25E-04	500.6950	-325.2693	-1.87E-04	5100.	1374447.	75.0684	46138.	0.00
9.0000	-3.56E-04	437.1426	-309.3748	-1.19E-04	4453.	1374447.	83.8764	47187.	0.00
9.2000	-3.73E-04	376.9451	-291.9940	-5.95E-05	3840.	1374447.	89.9317	48235.	0.00
9.4000	-3.79E-04	320.3450	-273.6542	-8.74E-06	3263.	1374447.	93.4661	49284.	0.00
9.6000	-3.76E-04	267.4835	-254.8354	3.40E-05	2725.	1374447.	94.7214	50332.	0.00
9.8000	-3.66E-04	218.4108	-235.9687	6.94E-05	2225.	1374447.	93.9463	51381.	0.00
10.0000	-3.49E-04	173.0960	-217.4347	9.79E-05	1763.	1374447.	91.3928	52430.	0.00
10.2000	-3.27E-04	131.4369	-199.5641	1.20E-04	1339.	1374447.	87.3134	53478.	0.00
10.4000	-3.01E-04	93.2703	-182.6369	1.36E-04	950.0438	1374447.	81.9594	54527.	0.00
10.6000	-2.72E-04	58.3822	-166.8830	1.47E-04	594.6757	1374447.	75.5795	55575.	0.00
10.8000	-2.42E-04	26.5172	-152.4832	1.54E-04	270.1015	1374447.	68.4182	56624.	0.00
11.0000	-2.11E-04	-2.6111	-139.5697	1.55E-04	26.5967	1374447.	60.7164	57673.	0.00
11.2000	-1.80E-04	-29.3107	-128.2270	1.53E-04	298.5568	1374447.	52.7108	58721.	0.00
11.4000	-1.49E-04	-53.9019	-118.4925	1.47E-04	549.0405	1374447.	44.6347	59770.	0.00
11.6000	-1.21E-04	-76.7077	-110.3571	1.37E-04	781.3385	1374447.	36.7193	60818.	0.00
11.8000	-9.44E-05	-98.0448	-86.7874	1.25E-04	998.6757	1374447.	198.9773	421660.	0.00
12.0000	-7.09E-05	-111.4227	-48.3677	1.09E-04	1135.	1374447.	185.2195	522784.	0.00
12.2000	-5.06E-05	-117.3918	-12.8206	9.28E-05	1196.	1374447.	170.2517	673164.	0.00
12.4000	-3.37E-05	-116.5509	19.5888	7.58E-05	1187.	1374447.	153.8424	912401.	0.00
12.6000	-2.03E-05	-109.5563	48.5167	5.94E-05	1116.	1374447.	135.4361	1337344.	0.00
12.8000	-9.97E-06	-97.1443	68.7933	4.43E-05	989.5034	1374447.	67.3300	1350000.	0.00
13.0000	-2.52E-06	-82.0390	77.2288	3.13E-05	835.6426	1374447.	17.0255	1350000.	0.00
13.2000	2.54E-06	-66.2528	77.2150	2.05E-05	674.8450	1374447.	-17.1631	1350000.	0.00
13.4000	5.68E-06	-51.1530	71.6651	1.20E-05	521.0402	1374447.	-38.3368	1350000.	0.00
13.6000	7.33E-06	-37.5867	62.8852	5.51E-06	382.8553	1374447.	-49.4618	1350000.	0.00
13.8000	7.88E-06	-25.9989	52.6187	8.80E-07	264.8228	1374447.	-53.2032	1350000.	0.00
14.0000	7.68E-06	-16.5392	42.1147	-2.22E-06	168.4674	1374447.	-51.8373	1350000.	0.00
14.2000	7.00E-06	-9.1531	32.2087	-4.08E-06	93.2323	1374447.	-47.2224	1350000.	0.00
14.4000	6.05E-06	-3.6558	23.4055	-5.02E-06	37.2374	1374447.	-40.8095	1350000.	0.00
14.6000	4.99E-06	0.2091	15.9567	-5.27E-06	2.1302	1374447.	-33.6783	1350000.	0.00
14.8000	3.94E-06	2.7269	9.9300	-5.05E-06	27.7761	1374447.	-26.5883	1350000.	0.00
15.0000	2.97E-06	4.1812	5.2678	-4.55E-06	42.5889	1374447.	-20.0340	1350000.	0.00
15.2000	2.12E-06	4.8340	1.8343	-3.89E-06	49.2391	1374447.	-14.3010	1350000.	0.00
15.4000	1.41E-06	4.9149	-0.5475	-3.19E-06	50.0626	1374447.	-9.5176	1350000.	0.00
15.6000	8.44E-07	4.6150	-2.0693	-2.49E-06	47.0082	1374447.	-5.6997	1350000.	0.00
15.8000	4.13E-07	4.0872	-2.9181	-1.86E-06	41.6315	1374447.	-2.7884	1350000.	0.00
16.0000	1.01E-07	3.4478	-3.2650	-1.31E-06	35.1188	1374447.	-0.6800	1350000.	0.00
16.2000	-1.11E-07	2.7812	-3.2578	-8.58E-07	28.3289	1374447.	0.7511	1350000.	0.00

16.4000	-2.42E-07	2.1446	-3.0192	-4.99E-07	21.8451	1374447.	1.6358	1350000.	0.00
16.6000	-3.11E-07	1.5735	-2.6456	-2.29E-07	16.0278	1374447.	2.0993	1350000.	0.00
16.8000	-3.34E-07	1.0864	-2.2104	-3.53E-08	11.0658	1374447.	2.2537	1350000.	0.00
17.0000	-3.25E-07	0.6894	-1.7655	9.39E-08	7.0220	1374447.	2.1946	1350000.	0.00
17.2000	-2.96E-07	0.3802	-1.3461	1.72E-07	3.8724	1374447.	2.0001	1350000.	0.00
17.4000	-2.56E-07	0.1510	-0.9729	2.10E-07	1.5377	1374447.	1.7310	1350000.	0.00
17.6000	-2.12E-07	-0.00901	-0.6566	2.21E-07	0.09176	1374447.	1.4322	1350000.	0.00
17.8000	-1.68E-07	-0.1117	-0.3999	2.12E-07	1.1377	1374447.	1.1351	1350000.	0.00
18.0000	-1.27E-07	-0.1690	-0.2004	1.91E-07	1.7211	1374447.	0.8600	1350000.	0.00
18.2000	-9.16E-08	-0.1918	-0.05258	1.65E-07	1.9541	1374447.	0.6181	1350000.	0.00
18.4000	-6.13E-08	-0.1900	0.05062	1.37E-07	1.9353	1374447.	0.4139	1350000.	0.00
18.6000	-3.66E-08	-0.1716	0.1167	1.11E-07	1.7479	1374447.	0.2470	1350000.	0.00
18.8000	-1.69E-08	-0.1433	0.1528	8.82E-08	1.4598	1374447.	0.1138	1350000.	0.00
19.0000	-1.30E-09	-0.1105	0.1650	6.98E-08	1.1254	1374447.	0.00876	1350000.	0.00
19.2000	1.10E-08	-0.07730	0.1585	5.61E-08	0.7874	1374447.	-0.07457	1350000.	0.00
19.4000	2.11E-08	-0.04710	0.1367	4.70E-08	0.4798	1374447.	-0.1427	1350000.	0.00
19.6000	2.99E-08	-0.02261	0.1023	4.20E-08	0.2303	1374447.	-0.2016	1350000.	0.00
19.8000	3.79E-08	-0.00619	0.05653	3.99E-08	0.06301	1374447.	-0.2560	1350000.	0.00
20.0000	4.58E-08	0.00	0.00	3.94E-08	0.00	1374447.	-0.3093	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 10:

Pile-head deflection = 0.03118924 meters
Computed slope at pile head = -0.00634833 radians
Maximum bending moment = 1414. kN-m
Maximum shear force = 470.00000000 kN
Depth of maximum bending moment = 5.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 18
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 11

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 500.000 kN

Applied moment at pile head = 0.000 kN-m

Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.03430	-2.86E-09	500.0000	-0.00692	2.91E-08	1374447.	-65.5245	191.0185	0.00
0.2000	0.03292	98.6895	486.6828	-0.00691	1005.	1374447.	-67.6471	410.9979	0.00
0.4000	0.03154	194.6731	472.9521	-0.00689	1983.	1374447.	-69.6607	441.7694	0.00
0.6000	0.03016	287.8703	458.8298	-0.00686	2932.	1374447.	-71.5621	474.5275	0.00
0.8000	0.02879	378.2050	444.3387	-0.00681	3852.	1374447.	-73.3485	509.4686	0.00
1.0000	0.02744	465.6058	429.5022	-0.00675	4743.	1374447.	-75.0167	546.8130	0.00
1.2000	0.02610	550.0059	414.3441	-0.00667	5602.	1374447.	-76.5638	586.8078	0.00
1.4000	0.02477	631.3435	398.8891	-0.00659	6431.	1374447.	-77.9869	629.7320	0.00
1.6000	0.02346	709.5615	383.1621	-0.00649	7228.	1374447.	-79.2828	675.9010	0.00
1.8000	0.02217	784.6083	367.1889	-0.00638	7992.	1374447.	-80.4487	725.6728	0.00
2.0000	0.02091	856.4371	350.9959	-0.00626	8724.	1374447.	-81.4814	779.4552	0.00
2.2000	0.01967	925.0067	334.6100	-0.00613	9422.	1374447.	-82.3779	837.7147	0.00
2.4000	0.01845	990.2811	318.0587	-0.00599	10087.	1374447.	-83.1351	900.9868	0.00
2.6000	0.01727	1052.	301.3702	-0.00584	10718.	1374447.	-83.7500	969.8891	0.00
2.8000	0.01612	1111.	284.5733	-0.00569	11315.	1374447.	-84.2192	1045.	0.00
3.0000	0.01500	1166.	267.6974	-0.00552	11877.	1374447.	-84.5396	1128.	0.00
3.2000	0.01391	1218.	250.7726	-0.00535	12406.	1374447.	-84.7079	1218.	0.00
3.4000	0.01286	1266.	233.8298	-0.00517	12899.	1374447.	-84.7207	1318.	0.00
3.6000	0.01184	1311.	216.9003	-0.00498	13358.	1374447.	-84.5746	1429.	0.00
3.8000	0.01086	1353.	200.0162	-0.00479	13783.	1374447.	-84.2660	1551.	0.00
4.0000	0.00993	1391.	183.2105	-0.00459	14173.	1374447.	-83.7914	1688.	0.00
4.2000	0.00903	1426.	166.5166	-0.00438	14529.	1374447.	-83.1471	1842.	0.00
4.4000	0.00817	1458.	149.9690	-0.00417	14852.	1374447.	-82.3293	2014.	0.00
4.6000	0.00736	1486.	133.6026	-0.00396	15140.	1374447.	-81.3344	2210.	0.00
4.8000	0.00659	1511.	102.6890	-0.00374	15396.	1374447.	-227.8014	6912.	0.00
5.0000	0.00587	1527.	57.5197	-0.00352	15559.	1374447.	-223.8916	7635.	0.00
5.2000	0.00518	1535.	13.1051	-0.00330	15630.	1374447.	-220.2542	8498.	0.00
5.4000	0.00455	1533.	-30.3712	-0.00307	15612.	1374447.	-214.5095	9435.	0.00
5.6000	0.00396	1522.	-72.4910	-0.00285	15507.	1374447.	-206.6884	10452.	0.00
5.8000	0.00341	1504.	-112.8458	-0.00263	15317.	1374447.	-196.8587	11555.	0.00
6.0000	0.00290	1477.	-151.5502	-0.00241	15047.	1374447.	-190.1855	13101.	0.00
6.2000	0.00244	1443.	-188.8230	-0.00220	14699.	1374447.	-182.5426	14949.	0.00
6.4000	0.00202	1402.	-224.4010	-0.00199	14277.	1374447.	-173.2378	17125.	0.00
6.6000	0.00164	1353.	-257.9489	-0.00179	13785.	1374447.	-162.2411	19726.	0.00
6.8000	0.00131	1299.	-289.1234	-0.00160	13226.	1374447.	-149.5044	22894.	0.00
7.0000	0.00101	1238.	-317.5680	-0.00142	12607.	1374447.	-134.9411	26854.	0.00
7.2000	7.40E-04	1171.	-342.9007	-0.00124	11933.	1374447.	-118.3861	31998.	0.00

7.4000	5.09E-04	1101.	-364.6132	-0.00107	11210.	1374447.	-98.7385	38798.	0.00
7.6000	3.10E-04	1026.	-380.6644	-9.20E-04	10447.	1374447.	-61.7734	39847.	0.00
7.8000	1.41E-04	948.2658	-389.7243	-7.76E-04	9659.	1374447.	-28.8257	40895.	0.00
8.0000	-5.12E-07	869.7444	-392.5961	-6.44E-04	8859.	1374447.	0.1075	41944.	0.00
8.2000	-1.17E-04	791.2274	-390.0770	-5.23E-04	8059.	1374447.	25.0831	42992.	0.00
8.4000	-2.10E-04	713.7136	-382.9481	-4.14E-04	7270.	1374447.	46.2064	44041.	0.00
8.6000	-2.82E-04	638.0481	-371.9651	-3.15E-04	6499.	1374447.	63.6237	45090.	0.00
8.8000	-3.36E-04	564.9276	-357.8511	-2.28E-04	5754.	1374447.	77.5162	46138.	0.00
9.0000	-3.73E-04	494.9077	-341.2901	-1.51E-04	5041.	1374447.	88.0940	47187.	0.00
9.2000	-3.96E-04	428.4116	-322.9217	-8.36E-05	4364.	1374447.	95.5899	48235.	0.00
9.4000	-4.07E-04	365.7390	-303.3372	-2.59E-05	3725.	1374447.	100.2543	49284.	0.00
9.6000	-4.07E-04	307.0767	-283.0768	2.31E-05	3128.	1374447.	102.3501	50332.	0.00
9.8000	-3.98E-04	252.5083	-262.6269	6.38E-05	2572.	1374447.	102.1484	51381.	0.00
10.0000	-3.81E-04	202.0259	-242.4196	9.69E-05	2058.	1374447.	99.9250	52430.	0.00
10.2000	-3.59E-04	155.5405	-222.8314	1.23E-04	1584.	1374447.	95.9572	53478.	0.00
10.4000	-3.32E-04	112.8933	-204.1835	1.42E-04	1150.	1374447.	90.5213	54527.	0.00
10.6000	-3.02E-04	73.8671	-186.7423	1.56E-04	752.4038	1374447.	83.8910	55575.	0.00
10.8000	-2.70E-04	38.1964	-170.7196	1.64E-04	389.0656	1374447.	76.3362	56624.	0.00
11.0000	-2.36E-04	5.5792	-156.2737	1.67E-04	56.8296	1374447.	68.1223	57673.	0.00
11.2000	-2.03E-04	-24.3131	-143.5104	1.66E-04	247.6508	1374447.	59.5107	58721.	0.00
11.4000	-1.70E-04	-51.8249	-132.4835	1.60E-04	527.8844	1374447.	50.7588	59770.	0.00
11.6000	-1.39E-04	-77.3064	-123.1955	1.51E-04	787.4370	1374447.	42.1212	60818.	0.00
11.8000	-1.09E-04	-101.1031	-98.3357	1.38E-04	1030.	1374447.	206.4759	377362.	0.00
12.0000	-8.33E-05	-116.6407	-58.4025	1.22E-04	1188.	1374447.	192.8565	463094.	0.00
12.2000	-6.05E-05	-124.4641	-21.3092	1.05E-04	1268.	1374447.	178.0761	588254.	0.00
12.4000	-4.14E-05	-125.1644	12.6938	8.65E-05	1275.	1374447.	161.9546	782014.	0.00
12.6000	-2.59E-05	-119.3866	43.2966	6.87E-05	1216.	1374447.	144.0727	1110887.	0.00
12.8000	-1.39E-05	-107.8458	67.1074	5.22E-05	1099.	1374447.	94.0359	1350000.	0.00
13.0000	-5.06E-06	-92.5436	79.9284	3.76E-05	942.6415	1374447.	34.1737	1350000.	0.00
13.2000	1.11E-06	-75.8745	82.5949	2.54E-05	772.8509	1374447.	-7.5090	1350000.	0.00
13.4000	5.08E-06	-59.5057	78.4153	1.55E-05	606.1197	1374447.	-34.2867	1350000.	0.00
13.6000	7.31E-06	-44.5083	70.0491	7.94E-06	453.3582	1374447.	-49.3749	1350000.	0.00
13.8000	8.25E-06	-31.4860	59.5397	2.41E-06	320.7138	1374447.	-55.7198	1350000.	0.00
14.0000	8.28E-06	-20.6925	48.3797	-1.39E-06	210.7718	1374447.	-55.8796	1350000.	0.00
14.2000	7.70E-06	-12.1341	37.5943	-3.78E-06	123.5971	1374447.	-51.9744	1350000.	0.00
14.4000	6.77E-06	-5.6547	27.8283	-5.07E-06	57.5987	1374447.	-45.6856	1350000.	0.00
14.6000	5.67E-06	-1.0028	19.4312	-5.55E-06	10.2142	1374447.	-38.2859	1350000.	0.00
14.8000	4.55E-06	2.1177	12.5337	-5.47E-06	21.5711	1374447.	-30.6893	1350000.	0.00
15.0000	3.48E-06	4.0107	7.1139	-5.03E-06	40.8525	1374447.	-23.5087	1350000.	0.00
15.2000	2.54E-06	4.9633	3.0514	-4.37E-06	50.5556	1374447.	-17.1159	1350000.	0.00
15.4000	1.73E-06	5.2312	0.1700	-3.63E-06	53.2850	1374447.	-11.6982	1350000.	0.00
15.6000	1.08E-06	5.0313	-1.7306	-2.89E-06	51.2481	1374447.	-7.3081	1350000.	0.00
15.8000	5.79E-07	4.5390	-2.8521	-2.19E-06	46.2337	1374447.	-3.9063	1350000.	0.00
16.0000	2.07E-07	3.8904	-3.3823	-1.58E-06	39.6277	1374447.	-1.3962	1350000.	0.00

16.2000	-5.18E-08	3.1861	-3.4870	-1.06E-06	32.4529	1374447.	0.3497	1350000.	0.00
16.4000	-2.18E-07	2.4957	-3.3050	-6.48E-07	25.4205	1374447.	1.4696	1350000.	0.00
16.6000	-3.11E-07	1.8640	-2.9481	-3.31E-07	18.9869	1374447.	2.0994	1350000.	0.00
16.8000	-3.50E-07	1.3164	-2.5019	-9.94E-08	13.4087	1374447.	2.3629	1350000.	0.00
17.0000	-3.51E-07	0.8633	-2.0288	5.91E-08	8.7932	1374447.	2.3679	1350000.	0.00
17.2000	-3.26E-07	0.5049	-1.5717	1.59E-07	5.1424	1374447.	2.2032	1350000.	0.00
17.4000	-2.87E-07	0.2346	-1.1575	2.12E-07	2.3894	1374447.	1.9394	1350000.	0.00
17.6000	-2.41E-07	0.04187	-0.8006	2.33E-07	0.4265	1374447.	1.6296	1350000.	0.00
17.8000	-1.94E-07	-0.08565	-0.5065	2.29E-07	0.8724	1374447.	1.3114	1350000.	0.00
18.0000	-1.50E-07	-0.1607	-0.2743	2.11E-07	1.6370	1374447.	1.0102	1350000.	0.00
18.2000	-1.10E-07	-0.1954	-0.09924	1.86E-07	1.9900	1374447.	0.7405	1350000.	0.00
18.4000	-7.54E-08	-0.2004	0.02572	1.57E-07	2.0414	1374447.	0.5091	1350000.	0.00
18.6000	-4.70E-08	-0.1851	0.1083	1.29E-07	1.8853	1374447.	0.3172	1350000.	0.00
18.8000	-2.39E-08	-0.1571	0.1562	1.04E-07	1.5999	1374447.	0.1615	1350000.	0.00
19.0000	-5.45E-09	-0.1226	0.1760	8.35E-08	1.2488	1374447.	0.03680	1350000.	0.00
19.2000	9.46E-09	-0.08665	0.1733	6.83E-08	0.8827	1374447.	-0.06387	1350000.	0.00
19.4000	2.19E-08	-0.05326	0.1522	5.81E-08	0.5425	1374447.	-0.1475	1350000.	0.00
19.6000	3.27E-08	-0.02577	0.1154	5.23E-08	0.2625	1374447.	-0.2207	1350000.	0.00
19.8000	4.28E-08	-0.00711	0.06443	4.99E-08	0.07243	1374447.	-0.2888	1350000.	0.00
20.0000	5.27E-08	0.00	0.00	4.94E-08	0.00	1374447.	-0.3555	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 11:

Pile-head deflection = 0.03430272 meters
Computed slope at pile head = -0.00692117 radians
Maximum bending moment = 1535. kN-m
Maximum shear force = 500.00000000 kN
Depth of maximum bending moment = 5.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 18
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 12

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 600.000 kN

Applied moment at pile head = 0.000 kN-m

Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.04523	-5.25E-09	600.0000	-0.00890	5.34E-08	1374447.	-71.8539	158.8483	0.00
0.2000	0.04345	118.5629	585.3939	-0.00889	1208.	1374447.	-74.2070	341.5456	0.00
0.4000	0.04168	234.1576	570.3288	-0.00887	2385.	1374447.	-76.4441	366.8455	0.00
0.6000	0.03991	346.6944	554.8282	-0.00883	3531.	1374447.	-78.5620	393.7344	0.00
0.8000	0.03815	456.0888	538.9163	-0.00877	4646.	1374447.	-80.5574	422.3660	0.00
1.0000	0.03640	562.2609	522.6178	-0.00869	5727.	1374447.	-82.4272	452.9121	0.00
1.2000	0.03467	665.1360	505.9583	-0.00860	6775.	1374447.	-84.1682	485.5654	0.00
1.4000	0.03296	764.6443	488.9637	-0.00850	7789.	1374447.	-85.7771	520.5426	0.00
1.6000	0.03127	860.7215	471.6609	-0.00838	8767.	1374447.	-87.2508	558.0880	0.00
1.8000	0.02960	953.3086	454.0773	-0.00825	9710.	1374447.	-88.5860	598.4782	0.00
2.0000	0.02797	1042.	436.2407	-0.00811	10617.	1374447.	-89.7795	642.0273	0.00
2.2000	0.02636	1128.	418.1800	-0.00795	11488.	1374447.	-90.8280	689.0935	0.00
2.4000	0.02479	1210.	399.9243	-0.00778	12321.	1374447.	-91.7282	740.0865	0.00
2.6000	0.02325	1288.	381.5039	-0.00760	13117.	1374447.	-92.4766	795.4771	0.00
2.8000	0.02175	1362.	362.9492	-0.00740	13876.	1374447.	-93.0700	855.8083	0.00
3.0000	0.02029	1433.	344.2917	-0.00720	14596.	1374447.	-93.5047	921.7093	0.00
3.2000	0.01887	1500.	325.5635	-0.00699	15278.	1374447.	-93.7774	993.9126	0.00
3.4000	0.01749	1563.	306.7974	-0.00676	15922.	1374447.	-93.8844	1073.	0.00
3.6000	0.01617	1623.	288.0267	-0.00653	16528.	1374447.	-93.8220	1161.	0.00
3.8000	0.01488	1678.	269.2859	-0.00629	17096.	1374447.	-93.5866	1258.	0.00
4.0000	0.01365	1730.	250.6098	-0.00604	17625.	1374447.	-93.1743	1365.	0.00
4.2000	0.01246	1779.	232.0342	-0.00579	18117.	1374447.	-92.5814	1485.	0.00
4.4000	0.01133	1823.	213.5956	-0.00553	18571.	1374447.	-91.8041	1620.	0.00
4.6000	0.01025	1864.	195.3314	-0.00526	18987.	1374447.	-90.8385	1772.	0.00
4.8000	0.00923	1901.	158.8016	-0.00498	19367.	1374447.	-274.4595	5947.	0.00
5.0000	0.00826	1928.	104.1694	-0.00471	19634.	1374447.	-271.8623	6582.	0.00
5.2000	0.00735	1943.	50.0514	-0.00442	19791.	1374447.	-269.3178	7330.	0.00
5.4000	0.00649	1948.	-3.3103	-0.00414	19838.	1374447.	-264.2992	8143.	0.00
5.6000	0.00569	1942.	-55.4209	-0.00386	19778.	1374447.	-256.8069	9024.	0.00
5.8000	0.00495	1925.	-105.7899	-0.00358	19612.	1374447.	-246.8833	9978.	0.00
6.0000	0.00426	1899.	-154.4947	-0.00330	19347.	1374447.	-240.1637	11272.	0.00
6.2000	0.00363	1864.	-201.7368	-0.00302	18983.	1374447.	-232.2581	12799.	0.00
6.4000	0.00305	1819.	-247.2047	-0.00276	18525.	1374447.	-222.4205	14577.	0.00
6.6000	0.00253	1765.	-290.5096	-0.00250	17976.	1374447.	-210.6290	16671.	0.00
6.8000	0.00205	1702.	-331.2579	-0.00224	17341.	1374447.	-196.8533	19172.	0.00
7.0000	0.00163	1632.	-369.0473	-0.00200	16626.	1374447.	-181.0408	22219.	0.00

7.2000	0.00125	1555.	-403.4606	-0.00177	15837.	1374447.	-163.0925	26027.	0.00
7.4000	9.22E-04	1471.	-434.0514	-0.00155	14982.	1374447.	-142.8150	30975.	0.00
7.6000	6.34E-04	1381.	-460.3145	-0.00134	14069.	1374447.	-119.8161	37808.	0.00
7.8000	3.86E-04	1287.	-480.1826	-0.00115	13107.	1374447.	-78.8652	40895.	0.00
8.0000	1.75E-04	1189.	-491.7397	-9.67E-04	12112.	1374447.	-36.7055	41944.	0.00
8.2000	-1.04E-06	1090.	-495.3878	-8.01E-04	11103.	1374447.	0.2241	42992.	0.00
8.4000	-1.45E-04	990.9835	-492.1640	-6.50E-04	10094.	1374447.	32.0143	44041.	0.00
8.6000	-2.61E-04	893.1910	-483.0809	-5.13E-04	9098.	1374447.	58.8161	45090.	0.00
8.8000	-3.50E-04	797.7511	-469.1161	-3.89E-04	8126.	1374447.	80.8324	46138.	0.00
9.0000	-4.17E-04	705.5445	-451.2019	-2.80E-04	7187.	1374447.	98.3097	47187.	0.00
9.2000	-4.62E-04	617.2704	-430.2179	-1.84E-04	6287.	1374447.	111.5299	48235.	0.00
9.4000	-4.90E-04	533.4574	-406.9846	-1.00E-04	5434.	1374447.	120.8033	49284.	0.00
9.6000	-5.03E-04	454.4765	-382.2582	-2.83E-05	4629.	1374447.	126.4611	50332.	0.00
9.8000	-5.02E-04	380.5541	-356.7271	3.25E-05	3876.	1374447.	128.8495	51381.	0.00
10.0000	-4.90E-04	311.7857	-331.0097	8.29E-05	3176.	1374447.	128.3246	52430.	0.00
10.2000	-4.68E-04	248.1502	-305.6525	1.24E-04	2528.	1374447.	125.2472	53478.	0.00
10.4000	-4.40E-04	189.5247	-281.1299	1.55E-04	1930.	1374447.	119.9796	54527.	0.00
10.6000	-4.06E-04	135.6983	-257.8437	1.79E-04	1382.	1374447.	112.8823	55575.	0.00
10.8000	-3.68E-04	86.3872	-236.1243	1.95E-04	879.9326	1374447.	104.3119	56624.	0.00
11.0000	-3.28E-04	41.2486	-216.2310	2.05E-04	420.1545	1374447.	94.6203	57673.	0.00
11.2000	-2.87E-04	-0.1052	-198.3536	2.08E-04	1.0719	1374447.	84.1536	58721.	0.00
11.4000	-2.45E-04	-38.0929	-182.6130	2.05E-04	388.0109	1374447.	73.2526	59770.	0.00
11.6000	-2.05E-04	-73.1504	-169.0624	1.97E-04	745.1042	1374447.	62.2534	60818.	0.00
11.8000	-1.66E-04	-105.7179	-139.9070	1.84E-04	1077.	1374447.	229.3013	275518.	0.00
12.0000	-1.31E-04	-129.1132	-95.3686	1.67E-04	1315.	1374447.	216.0825	329243.	0.00
12.2000	-9.98E-05	-143.8653	-53.5813	1.47E-04	1465.	1374447.	201.7903	404282.	0.00
12.4000	-7.26E-05	-150.5457	-14.7687	1.25E-04	1533.	1374447.	186.3356	513464.	0.00
12.6000	-4.97E-05	-149.7728	20.8167	1.03E-04	1526.	1374447.	169.5183	681968.	0.00
12.8000	-3.12E-05	-142.2191	52.8578	8.22E-05	1449.	1374447.	150.8927	967021.	0.00
13.0000	-1.68E-05	-128.6297	79.3141	6.25E-05	1310.	1374447.	113.6704	1350000.	0.00
13.2000	-6.22E-06	-110.4934	94.8768	4.51E-05	1125.	1374447.	41.9568	1350000.	0.00
13.4000	1.19E-06	-90.6789	98.2674	3.04E-05	923.6481	1374447.	-8.0512	1350000.	0.00
13.6000	5.96E-06	-71.1865	93.4376	1.87E-05	725.0997	1374447.	-40.2460	1350000.	0.00
13.8000	8.66E-06	-53.3039	83.5674	9.61E-06	542.9489	1374447.	-58.4567	1350000.	0.00
14.0000	9.81E-06	-37.7595	71.1021	2.99E-06	384.6156	1374447.	-66.1962	1350000.	0.00
14.2000	9.85E-06	-24.8631	57.8306	-1.57E-06	253.2530	1374447.	-66.5182	1350000.	0.00
14.4000	9.18E-06	-14.6273	44.9832	-4.44E-06	148.9924	1374447.	-61.9560	1350000.	0.00
14.6000	8.08E-06	-6.8698	33.3356	-6.01E-06	69.9749	1374447.	-54.5204	1350000.	0.00
14.8000	6.78E-06	-1.2931	23.3100	-6.60E-06	13.1710	1374447.	-45.7353	1350000.	0.00
15.0000	5.44E-06	2.4542	15.0669	-6.52E-06	24.9986	1374447.	-36.6961	1350000.	0.00
15.2000	4.17E-06	4.7337	8.5833	-5.99E-06	48.2169	1374447.	-28.1391	1350000.	0.00
15.4000	3.04E-06	5.8876	3.7182	-5.22E-06	59.9703	1374447.	-20.5120	1350000.	0.00
15.6000	2.08E-06	6.2210	0.2629	-4.34E-06	63.3664	1374447.	-14.0414	1350000.	0.00
15.8000	1.30E-06	5.9927	-2.0205	-3.45E-06	61.0415	1374447.	-8.7929	1350000.	0.00

16.0000	6.99E-07	5.4128	-3.3720	-2.62E-06	55.1340	1374447.	-4.7216	1350000.	0.00
16.2000	2.54E-07	4.6439	-4.0155	-1.89E-06	47.3028	1374447.	-1.7136	1350000.	0.00
16.4000	-5.66E-08	3.8066	-4.1487	-1.28E-06	38.7734	1374447.	0.3821	1350000.	0.00
16.6000	-2.56E-07	2.9845	-3.9375	-7.81E-07	30.3997	1374447.	1.7300	1350000.	0.00
16.8000	-3.69E-07	2.2316	-3.5153	-4.02E-07	22.7308	1374447.	2.4916	1350000.	0.00
17.0000	-4.17E-07	1.5784	-2.9846	-1.25E-07	16.0771	1374447.	2.8149	1350000.	0.00
17.2000	-4.19E-07	1.0377	-2.4203	6.57E-08	10.5703	1374447.	2.8281	1350000.	0.00
17.4000	-3.91E-07	0.6102	-1.8738	1.86E-07	6.2157	1374447.	2.6375	1350000.	0.00
17.6000	-3.45E-07	0.2882	-1.3773	2.51E-07	2.9358	1374447.	2.3270	1350000.	0.00
17.8000	-2.90E-07	0.05929	-0.9487	2.76E-07	0.6040	1374447.	1.9598	1350000.	0.00
18.0000	-2.34E-07	-0.09124	-0.5946	2.74E-07	0.9294	1374447.	1.5810	1350000.	0.00
18.2000	-1.81E-07	-0.1785	-0.3145	2.54E-07	1.8185	1374447.	1.2202	1350000.	0.00
18.4000	-1.33E-07	-0.2170	-0.1030	2.26E-07	2.2106	1374447.	0.8944	1350000.	0.00
18.6000	-9.06E-08	-0.2197	0.04756	1.94E-07	2.2382	1374447.	0.6112	1350000.	0.00
18.8000	-5.50E-08	-0.1980	0.1458	1.63E-07	2.0168	1374447.	0.3712	1350000.	0.00
19.0000	-2.52E-08	-0.1614	0.1999	1.37E-07	1.6441	1374447.	0.1701	1350000.	0.00
19.2000	-1.10E-10	-0.1180	0.2170	1.17E-07	1.2021	1374447.	7.44E-04	1350000.	0.00
19.4000	2.15E-08	-0.07460	0.2026	1.03E-07	0.7598	1374447.	-0.1455	1350000.	0.00
19.6000	4.10E-08	-0.03699	0.1603	9.48E-08	0.3768	1374447.	-0.2770	1350000.	0.00
19.8000	5.95E-08	-0.01047	0.09248	9.13E-08	0.1067	1374447.	-0.4013	1350000.	0.00
20.0000	7.76E-08	0.00	0.00	9.05E-08	0.00	1374447.	-0.5235	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 12:

Pile-head deflection = 0.04523430 meters
Computed slope at pile head = -0.00890324 radians
Maximum bending moment = 1948. kN-m
Maximum shear force = 600.00000000 kN
Depth of maximum bending moment = 5.40000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 18
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 13

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 700.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.05691	6.44E-09	700.0000	-0.01098	6.56E-08	1374447.	-77.5691	136.3029	0.00
0.2000	0.05471	138.4486	684.2300	-0.01097	1410.	1374447.	-80.1307	292.9131	0.00
0.4000	0.05252	273.6920	667.9599	-0.01094	2788.	1374447.	-82.5702	314.4295	0.00
0.6000	0.05034	405.6326	651.2145	-0.01089	4132.	1374447.	-84.8840	337.2678	0.00
0.8000	0.04816	534.1778	634.0192	-0.01082	5441.	1374447.	-87.0688	361.5537	0.00
1.0000	0.04601	659.2403	616.4002	-0.01074	6715.	1374447.	-89.1213	387.4276	0.00
1.2000	0.04387	780.7379	598.3843	-0.01063	7953.	1374447.	-91.0380	415.0463	0.00
1.4000	0.04175	898.5940	579.9989	-0.01051	9153.	1374447.	-92.8156	444.5858	0.00
1.6000	0.03966	1013.	561.2723	-0.01037	10316.	1374447.	-94.4507	476.2445	0.00
1.8000	0.03761	1123.	542.2332	-0.01022	11440.	1374447.	-95.9398	510.2462	0.00
2.0000	0.03558	1230.	522.9113	-0.01004	12525.	1374447.	-97.2795	546.8445	0.00
2.2000	0.03359	1332.	503.3367	-0.00986	13570.	1374447.	-98.4663	586.3278	0.00
2.4000	0.03164	1431.	483.5404	-0.00966	14576.	1374447.	-99.4968	629.0253	0.00
2.6000	0.02972	1526.	463.5540	-0.00944	15540.	1374447.	-100.3673	675.3138	0.00
2.8000	0.02786	1616.	443.4099	-0.00921	16464.	1374447.	-101.0742	725.6271	0.00
3.0000	0.02604	1703.	423.1411	-0.00897	17347.	1374447.	-101.6138	780.4658	0.00
3.2000	0.02427	1786.	402.7814	-0.00872	18188.	1374447.	-101.9825	840.4107	0.00
3.4000	0.02255	1864.	382.3656	-0.00845	18988.	1374447.	-102.1764	906.1384	0.00
3.6000	0.02089	1939.	361.9287	-0.00818	19746.	1374447.	-102.1917	978.4414	0.00
3.8000	0.01928	2009.	341.5071	-0.00789	20463.	1374447.	-102.0246	1058.	0.00
4.0000	0.01773	2075.	321.1376	-0.00759	21138.	1374447.	-101.6710	1147.	0.00
4.2000	0.01625	2137.	300.8578	-0.00728	21771.	1374447.	-101.1270	1245.	0.00
4.4000	0.01482	2196.	280.7062	-0.00697	22364.	1374447.	-100.3888	1355.	0.00
4.6000	0.01346	2250.	260.7220	-0.00665	22915.	1374447.	-99.4525	1478.	0.00
4.8000	0.01216	2300.	218.8073	-0.00632	23426.	1374447.	-319.6954	5258.	0.00
5.0000	0.01093	2337.	154.9746	-0.00598	23806.	1374447.	-318.6313	5830.	0.00
5.2000	0.00977	2362.	91.3740	-0.00564	24057.	1374447.	-317.3742	6497.	0.00
5.4000	0.00868	2374.	28.3058	-0.00529	24179.	1374447.	-313.3080	7222.	0.00
5.6000	0.00765	2373.	-33.6650	-0.00495	24173.	1374447.	-306.4005	8007.	0.00
5.8000	0.00670	2360.	-93.9716	-0.00460	24042.	1374447.	-296.6652	8858.	0.00
6.0000	0.00581	2336.	-152.6424	-0.00426	23790.	1374447.	-290.0424	9980.	0.00
6.2000	0.00499	2299.	-209.8471	-0.00392	23420.	1374447.	-282.0045	11293.	0.00
6.4000	0.00424	2252.	-265.2245	-0.00359	22935.	1374447.	-271.7697	12810.	0.00
6.6000	0.00356	2193.	-318.3334	-0.00327	22339.	1374447.	-259.3193	14579.	0.00
6.8000	0.00294	2124.	-368.7285	-0.00295	21638.	1374447.	-244.6319	16666.	0.00

7.0000	0.00238	2046.	-415.9591	-0.00265	20837.	1374447.	-227.6737	19166.	0.00
7.2000	0.00188	1958.	-459.5645	-0.00236	19943.	1374447.	-208.3805	22223.	0.00
7.4000	0.00143	1862.	-499.0652	-0.00208	18964.	1374447.	-186.6268	26067.	0.00
7.6000	0.00104	1758.	-533.9441	-0.00182	17910.	1374447.	-162.1621	31106.	0.00
7.8000	7.05E-04	1648.	-563.6072	-0.00157	16789.	1374447.	-134.4686	38170.	0.00
8.0000	4.14E-04	1533.	-585.7460	-0.00134	15613.	1374447.	-86.9201	41944.	0.00
8.2000	1.69E-04	1414.	-598.0700	-0.00112	14402.	1374447.	-36.3193	42992.	0.00
8.4000	-3.54E-05	1294.	-600.9225	-9.28E-04	13176.	1374447.	7.7946	44041.	0.00
8.6000	-2.02E-04	1174.	-595.5866	-7.48E-04	11954.	1374447.	45.5638	45090.	0.00
8.8000	-3.35E-04	1055.	-583.3100	-5.86E-04	10750.	1374447.	77.2022	46138.	0.00
9.0000	-4.36E-04	940.2426	-565.2914	-4.41E-04	9577.	1374447.	102.9842	47187.	0.00
9.2000	-5.11E-04	829.2440	-542.6695	-3.12E-04	8447.	1374447.	123.2346	48235.	0.00
9.4000	-5.61E-04	723.1748	-516.5141	-1.99E-04	7366.	1374447.	138.3190	49284.	0.00
9.6000	-5.91E-04	622.6384	-487.8188	-1.01E-04	6342.	1374447.	148.6348	50332.	0.00
9.8000	-6.02E-04	528.0473	-457.4950	-1.75E-05	5379.	1374447.	154.6026	51381.	0.00
10.0000	-5.98E-04	439.6404	-426.3689	5.29E-05	4478.	1374447.	156.6589	52430.	0.00
10.2000	-5.81E-04	357.4998	-395.1780	1.11E-04	3641.	1374447.	155.2502	53478.	0.00
10.4000	-5.53E-04	281.5692	-364.5703	1.57E-04	2868.	1374447.	150.8267	54527.	0.00
10.6000	-5.18E-04	211.6717	-335.1037	1.93E-04	2156.	1374447.	143.8391	55575.	0.00
10.8000	-4.76E-04	147.5277	-307.2464	2.19E-04	1503.	1374447.	134.7342	56624.	0.00
11.0000	-4.30E-04	88.7731	-281.3776	2.37E-04	904.2359	1374447.	123.9535	57673.	0.00
11.2000	-3.81E-04	34.9767	-257.7891	2.46E-04	356.2697	1374447.	111.9315	58721.	0.00
11.4000	-3.32E-04	-14.3425	-236.6864	2.47E-04	146.0914	1374447.	99.0955	59770.	0.00
11.6000	-2.82E-04	-59.6979	-218.1903	2.42E-04	608.0774	1374447.	85.8658	60818.	0.00
11.8000	-2.35E-04	-101.6186	-184.6120	2.30E-04	1035.	1374447.	249.9166	212801.	0.00
12.0000	-1.90E-04	-133.5427	-135.9080	2.13E-04	1360.	1374447.	237.1235	249138.	0.00
12.2000	-1.50E-04	-155.9818	-89.8651	1.92E-04	1589.	1374447.	223.3060	298310.	0.00
12.4000	-1.14E-04	-169.4887	-46.6923	1.68E-04	1726.	1374447.	208.4217	366900.	0.00
12.6000	-8.24E-05	-174.6587	-6.6136	1.43E-04	1779.	1374447.	192.3657	466664.	0.00
12.8000	-5.64E-05	-172.1341	30.1146	1.18E-04	1753.	1374447.	174.9159	620745.	0.00
13.0000	-3.53E-05	-162.6129	63.1652	9.36E-05	1656.	1374447.	155.5898	882023.	0.00
13.2000	-1.89E-05	-146.8680	91.5060	7.10E-05	1496.	1374447.	127.8182	1350000.	0.00
13.4000	-6.87E-06	-126.0105	108.9224	5.12E-05	1284.	1374447.	46.3463	1350000.	0.00
13.6000	1.54E-06	-103.2991	112.5199	3.45E-05	1052.	1374447.	-10.3718	1350000.	0.00
13.8000	6.93E-06	-81.0025	106.8029	2.11E-05	825.0850	1374447.	-46.7975	1350000.	0.00
14.0000	9.97E-06	-60.5779	95.3921	1.08E-05	617.0413	1374447.	-67.3109	1350000.	0.00
14.2000	1.12E-05	-42.8457	81.0686	3.26E-06	436.4226	1374447.	-75.9242	1350000.	0.00
14.4000	1.13E-05	-28.1505	65.8641	-1.90E-06	286.7382	1374447.	-76.1208	1350000.	0.00
14.6000	1.05E-05	-16.5001	51.1733	-5.15E-06	168.0682	1374447.	-70.7875	1350000.	0.00
14.8000	9.22E-06	-7.6812	37.8732	-6.91E-06	78.2396	1374447.	-62.2128	1350000.	0.00
15.0000	7.72E-06	-1.3508	26.4390	-7.57E-06	13.7588	1374447.	-52.1292	1350000.	0.00
15.2000	6.19E-06	2.8945	17.0481	-7.46E-06	29.4827	1374447.	-41.7803	1350000.	0.00
15.4000	4.74E-06	5.4685	9.6701	-6.85E-06	55.7013	1374447.	-31.9999	1350000.	0.00
15.6000	3.45E-06	6.7625	4.1407	-5.96E-06	68.8821	1374447.	-23.2938	1350000.	0.00

15.8000	2.36E-06	7.1247	0.2197	-4.95E-06	72.5721	1374447.	-15.9162	1350000.	0.00
16.0000	1.47E-06	6.8504	-2.3657	-3.93E-06	69.7772	1374447.	-9.9381	1350000.	0.00
16.2000	7.86E-07	6.1785	-3.8901	-2.98E-06	62.9332	1374447.	-5.3057	1350000.	0.00
16.4000	2.80E-07	5.2943	-4.6094	-2.15E-06	53.9275	1374447.	-1.8871	1350000.	0.00
16.6000	-7.28E-08	4.3347	-4.7489	-1.45E-06	44.1529	1374447.	0.4915	1350000.	0.00
16.8000	-2.99E-07	3.3947	-4.4979	-8.84E-07	34.5785	1374447.	2.0186	1350000.	0.00
17.0000	-4.26E-07	2.5355	-4.0082	-4.53E-07	25.8266	1374447.	2.8788	1350000.	0.00
17.2000	-4.80E-07	1.7915	-3.3962	-1.38E-07	18.2477	1374447.	3.2410	1350000.	0.00
17.4000	-4.82E-07	1.1770	-2.7470	7.81E-08	11.9892	1374447.	3.2512	1350000.	0.00
17.6000	-4.49E-07	0.6927	-2.1189	2.14E-07	7.0554	1374447.	3.0302	1350000.	0.00
17.8000	-3.96E-07	0.3295	-1.5485	2.88E-07	3.3562	1374447.	2.6731	1350000.	0.00
18.0000	-3.34E-07	0.07325	-1.0561	3.18E-07	0.7461	1374447.	2.2513	1350000.	0.00
18.2000	-2.69E-07	-0.09294	-0.6495	3.16E-07	0.9467	1374447.	1.8151	1350000.	0.00
18.4000	-2.07E-07	-0.1865	-0.3282	2.96E-07	1.9000	1374447.	1.3972	1350000.	0.00
18.6000	-1.51E-07	-0.2242	-0.08691	2.66E-07	2.2840	1374447.	1.0159	1350000.	0.00
18.8000	-1.01E-07	-0.2213	0.08255	2.34E-07	2.2541	1374447.	0.6787	1350000.	0.00
19.0000	-5.70E-08	-0.1912	0.1889	2.04E-07	1.9477	1374447.	0.3849	1350000.	0.00
19.2000	-1.91E-08	-0.1457	0.2403	1.79E-07	1.4844	1374447.	0.1287	1350000.	0.00
19.4000	1.46E-08	-0.09511	0.2432	1.62E-07	0.9688	1374447.	-0.09888	1350000.	0.00
19.6000	4.56E-08	-0.04844	0.2026	1.51E-07	0.4934	1374447.	-0.3078	1350000.	0.00
19.8000	7.51E-08	-0.01408	0.1211	1.47E-07	0.1434	1374447.	-0.5071	1350000.	0.00
20.0000	1.04E-07	0.00	0.00	1.46E-07	0.00	1374447.	-0.7038	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 13:

Pile-head deflection = 0.05690934 meters
Computed slope at pile head = -0.01098182 radians
Maximum bending moment = 2374. kN-m
Maximum shear force = 700.00000000 kN
Depth of maximum bending moment = 5.40000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 18
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 14

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 800.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.06923	-9.54E-10	800.0000	-0.01314	9.71E-09	1374447.	-82.8045	119.6120	0.00
0.2000	0.06660	158.3439	783.1638	-0.01313	1613.	1374447.	-85.5576	256.9332	0.00
0.4000	0.06398	313.2655	765.7897	-0.01310	3191.	1374447.	-88.1828	275.6779	0.00
0.6000	0.06136	464.6598	747.9038	-0.01304	4733.	1374447.	-90.6766	295.5536	0.00
0.8000	0.05876	612.4270	729.5326	-0.01296	6238.	1374447.	-93.0355	316.6661	0.00
1.0000	0.05618	756.4728	710.7035	-0.01286	7705.	1374447.	-95.2558	339.1337	0.00
1.2000	0.05361	896.7084	691.4445	-0.01274	9134.	1374447.	-97.3342	363.0881	0.00
1.4000	0.05108	1033.	671.7843	-0.01260	10523.	1374447.	-99.2669	388.6772	0.00
1.6000	0.04857	1165.	651.7526	-0.01244	11871.	1374447.	-101.0505	416.0671	0.00
1.8000	0.04610	1294.	631.3794	-0.01226	13178.	1374447.	-102.6814	445.4448	0.00
2.0000	0.04367	1418.	610.6957	-0.01206	14443.	1374447.	-104.1560	477.0222	0.00
2.2000	0.04128	1538.	589.7330	-0.01185	15666.	1374447.	-105.4705	511.0393	0.00
2.4000	0.03893	1654.	568.5238	-0.01162	16846.	1374447.	-106.6214	547.7697	0.00
2.6000	0.03663	1765.	547.1012	-0.01137	17983.	1374447.	-107.6048	587.5259	0.00
2.8000	0.03438	1873.	525.4990	-0.01110	19075.	1374447.	-108.4170	630.6664	0.00
3.0000	0.03219	1976.	503.7519	-0.01082	20124.	1374447.	-109.0541	677.6043	0.00
3.2000	0.03005	2074.	481.8953	-0.01053	21128.	1374447.	-109.5122	728.8171	0.00
3.4000	0.02798	2168.	459.9653	-0.01022	22087.	1374447.	-109.7873	784.8595	0.00
3.6000	0.02596	2258.	437.9990	-0.00990	23002.	1374447.	-109.8756	846.3788	0.00
3.8000	0.02402	2344.	416.0342	-0.00956	23872.	1374447.	-109.7728	914.1340	0.00
4.0000	0.02214	2425.	394.1094	-0.00922	24697.	1374447.	-109.4749	989.0191	0.00
4.2000	0.02033	2501.	372.2642	-0.00886	25477.	1374447.	-108.9779	1072.	0.00
4.4000	0.01859	2574.	350.5386	-0.00849	26214.	1374447.	-108.2778	1165.	0.00
4.6000	0.01693	2641.	328.9738	-0.00811	26906.	1374447.	-107.3705	1268.	0.00
4.8000	0.01535	2705.	281.8693	-0.00772	27554.	1374447.	-363.6738	4738.	0.00
5.0000	0.01385	2754.	209.0709	-0.00732	28054.	1374447.	-364.3106	5262.	0.00
5.2000	0.01242	2789.	136.1908	-0.00692	28406.	1374447.	-364.4901	5869.	0.00
5.4000	0.01108	2809.	63.5865	-0.00651	28609.	1374447.	-361.5531	6528.	0.00
5.6000	0.00982	2814.	-8.1121	-0.00610	28665.	1374447.	-355.4332	7242.	0.00
5.8000	0.00864	2805.	-78.2667	-0.00570	28576.	1374447.	-346.1127	8016.	0.00
6.0000	0.00754	2783.	-146.8482	-0.00529	28346.	1374447.	-339.7016	9014.	0.00
6.2000	0.00652	2747.	-213.9821	-0.00489	27978.	1374447.	-331.6377	10172.	0.00
6.4000	0.00558	2697.	-279.2578	-0.00449	27474.	1374447.	-321.1190	11504.	0.00
6.6000	0.00472	2635.	-342.1823	-0.00410	26840.	1374447.	-308.1267	13045.	0.00

6.8000	0.00394	2560.	-402.2594	-0.00372	26080.	1374447.	-292.6442	14848.	0.00
7.0000	0.00323	2474.	-458.9887	-0.00336	25201.	1374447.	-274.6487	16983.	0.00
7.2000	0.00260	2377.	-511.8634	-0.00301	24210.	1374447.	-254.0976	19555.	0.00
7.4000	0.00203	2269.	-560.3636	-0.00267	23115.	1374447.	-230.9047	22724.	0.00
7.6000	0.00153	2153.	-603.9438	-0.00235	21927.	1374447.	-204.8970	26751.	0.00
7.8000	0.00109	2028.	-642.0058	-0.00204	20655.	1374447.	-175.7238	32122.	0.00
8.0000	7.15E-04	1896.	-673.8422	-0.00176	19311.	1374447.	-142.6403	39879.	0.00
8.2000	3.92E-04	1758.	-696.5280	-0.00149	17909.	1374447.	-84.2177	42992.	0.00
8.4000	1.19E-04	1617.	-707.5785	-0.00124	16473.	1374447.	-26.2865	44041.	0.00
8.6000	-1.06E-04	1475.	-707.8181	-0.00102	15026.	1374447.	23.8902	45090.	0.00
8.8000	-2.88E-04	1334.	-698.7765	-8.15E-04	13589.	1374447.	66.5259	46138.	0.00
9.0000	-4.32E-04	1196.	-681.9325	-6.31E-04	12179.	1374447.	101.9139	47187.	0.00
9.2000	-5.41E-04	1061.	-658.6996	-4.67E-04	10811.	1374447.	130.4151	48235.	0.00
9.4000	-6.19E-04	932.2075	-630.4135	-3.22E-04	9495.	1374447.	152.4457	49284.	0.00
9.6000	-6.69E-04	809.1737	-598.3224	-1.95E-04	8242.	1374447.	168.4656	50332.	0.00
9.8000	-6.97E-04	692.8786	-563.5791	-8.57E-05	7058.	1374447.	178.9679	51381.	0.00
10.0000	-7.04E-04	583.7421	-527.2353	7.20E-06	5946.	1374447.	184.4696	52430.	0.00
10.2000	-6.94E-04	481.9844	-490.2381	8.47E-05	4909.	1374447.	185.5027	53478.	0.00
10.4000	-6.70E-04	387.6469	-453.4271	1.48E-04	3949.	1374447.	182.6074	54527.	0.00
10.6000	-6.35E-04	300.6136	-417.5337	1.98E-04	3062.	1374447.	176.3259	55575.	0.00
10.8000	-5.91E-04	220.6334	-383.1813	2.36E-04	2247.	1374447.	167.1980	56624.	0.00
11.0000	-5.40E-04	147.3411	-350.8858	2.63E-04	1501.	1374447.	155.7572	57673.	0.00
11.2000	-4.85E-04	80.2790	-321.0572	2.79E-04	817.7157	1374447.	142.5287	58721.	0.00
11.4000	-4.28E-04	18.9182	-294.0015	2.87E-04	192.6989	1374447.	128.0285	59770.	0.00
11.6000	-3.71E-04	-37.3216	-269.9224	2.85E-04	380.1543	1374447.	112.7628	60818.	0.00
11.8000	-3.14E-04	-89.0508	-231.7660	2.76E-04	907.0638	1374447.	268.8011	171038.	0.00
12.0000	-2.60E-04	-130.0280	-179.2407	2.60E-04	1324.	1374447.	256.4514	196962.	0.00
12.2000	-2.10E-04	-160.7471	-129.2850	2.39E-04	1637.	1374447.	243.1060	231219.	0.00
12.4000	-1.65E-04	-181.7420	-82.0993	2.14E-04	1851.	1374447.	228.7504	277551.	0.00
12.6000	-1.25E-04	-193.5868	-37.8913	1.87E-04	1972.	1374447.	213.3299	342213.	0.00
12.8000	-9.02E-05	-196.8985	3.1141	1.58E-04	2006.	1374447.	196.7243	436425.	0.00
13.0000	-6.14E-05	-192.3412	40.6553	1.30E-04	1959.	1374447.	178.6876	582435.	0.00
13.2000	-3.82E-05	-180.6364	74.3932	1.03E-04	1840.	1374447.	158.6916	831660.	0.00
13.4000	-2.02E-05	-162.5839	103.8033	7.79E-05	1656.	1374447.	135.4088	1339134.	0.00
13.6000	-7.02E-06	-139.1150	122.0797	5.59E-05	1417.	1374447.	47.3560	1350000.	0.00
13.8000	2.14E-06	-113.7520	125.3686	3.75E-05	1159.	1374447.	-14.4675	1350000.	0.00
14.0000	7.99E-06	-88.9676	118.5273	2.28E-05	906.2166	1374447.	-53.9452	1350000.	0.00
14.2000	1.13E-05	-66.3410	105.5382	1.15E-05	675.7443	1374447.	-75.9458	1350000.	0.00
14.4000	1.26E-05	-46.7523	89.4522	3.24E-06	476.2151	1374447.	-84.9143	1350000.	0.00
14.6000	1.25E-05	-30.5602	72.4909	-2.38E-06	311.2832	1374447.	-84.6986	1350000.	0.00
14.8000	1.16E-05	-17.7559	56.1731	-5.90E-06	180.8605	1374447.	-78.4796	1350000.	0.00
15.0000	1.02E-05	-8.0909	41.4479	-7.78E-06	82.4133	1374447.	-68.7725	1350000.	0.00
15.2000	8.51E-06	-1.1768	28.8230	-8.45E-06	11.9865	1374447.	-57.4761	1350000.	0.00
15.4000	6.81E-06	3.4383	18.4806	-8.29E-06	35.0224	1374447.	-45.9485	1350000.	0.00

15.6000	5.20E-06	6.2155	10.3761	-7.59E-06	63.3102	1374447.	-35.0963	1350000.	0.00
15.8000	3.77E-06	7.5888	4.3200	-6.58E-06	77.2984	1374447.	-25.4652	1350000.	0.00
16.0000	2.57E-06	7.9434	0.04096	-5.45E-06	80.9113	1374447.	-17.3247	1350000.	0.00
16.2000	1.59E-06	7.6051	-2.7660	-4.32E-06	77.4653	1374447.	-10.7447	1350000.	0.00
16.4000	8.38E-07	6.8371	-4.4063	-3.27E-06	69.6416	1374447.	-5.6587	1350000.	0.00
16.6000	2.84E-07	5.8426	-5.1638	-2.35E-06	59.5124	1374447.	-1.9158	1350000.	0.00
16.8000	-1.01E-07	4.7715	-5.2874	-1.58E-06	48.6026	1374447.	0.6794	1350000.	0.00
17.0000	-3.46E-07	3.7277	-4.9857	-9.57E-07	37.9696	1374447.	2.3373	1350000.	0.00
17.2000	-4.83E-07	2.7773	-4.4257	-4.84E-07	28.2889	1374447.	3.2629	1350000.	0.00
17.4000	-5.40E-07	1.9574	-3.7351	-1.39E-07	19.9376	1374447.	3.6429	1350000.	0.00
17.6000	-5.39E-07	1.2832	-3.0070	9.67E-08	13.0706	1374447.	3.6384	1350000.	0.00
17.8000	-5.01E-07	0.7546	-2.3050	2.45E-07	7.6860	1374447.	3.3819	1350000.	0.00
18.0000	-4.41E-07	0.3612	-1.6691	3.26E-07	3.6793	1374447.	2.9771	1350000.	0.00
18.2000	-3.71E-07	0.08694	-1.1212	3.59E-07	0.8856	1374447.	2.5013	1350000.	0.00
18.4000	-2.98E-07	-0.08728	-0.6703	3.59E-07	0.8890	1374447.	2.0085	1350000.	0.00
18.6000	-2.27E-07	-0.1812	-0.3161	3.39E-07	1.8453	1374447.	1.5328	1350000.	0.00
18.8000	-1.62E-07	-0.2137	-0.05359	3.10E-07	2.1771	1374447.	1.0927	1350000.	0.00
19.0000	-1.03E-07	-0.2026	0.1251	2.80E-07	2.0636	1374447.	0.6946	1350000.	0.00
19.2000	-4.98E-08	-0.1637	0.2282	2.54E-07	1.6672	1374447.	0.3363	1350000.	0.00
19.4000	-1.50E-09	-0.1113	0.2629	2.34E-07	1.1338	1374447.	0.01010	1350000.	0.00
19.6000	4.36E-08	-0.05853	0.2345	2.21E-07	0.5962	1374447.	-0.2942	1350000.	0.00
19.8000	8.70E-08	-0.01753	0.1463	2.16E-07	0.1785	1374447.	-0.5870	1350000.	0.00
20.0000	1.30E-07	0.00	0.00	2.14E-07	0.00	1374447.	-0.8763	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 14:

Pile-head deflection = 0.06922755 meters
Computed slope at pile head = -0.01314223 radians
Maximum bending moment = 2814. kN-m
Maximum shear force = 800.00000000 kN
Depth of maximum bending moment = 5.60000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 18
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 15

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 4300.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	1.0419	-1.53E-08	4300.	-0.1470	1.55E-07	1374447.	-135.0000	12.9572	0.00
0.2000	1.0125	857.3000	4272.	-0.1470	8732.	1374447.	-141.3000	27.9114	0.00
0.4000	0.9831	1709.	4243.	-0.1468	17407.	1374447.	-147.6000	30.0271	0.00
0.6000	0.9538	2555.	4213.	-0.1465	26022.	1374447.	-153.9000	32.2714	0.00
0.8000	0.9245	3394.	4182.	-0.1460	34574.	1374447.	-160.2000	34.6554	0.00
1.0000	0.8954	4227.	4149.	-0.1455	43061.	1374447.	-166.5000	37.1910	0.00
1.2000	0.8663	5054.	4115.	-0.1448	51479.	1374447.	-172.8000	39.8917	0.00
1.4000	0.8375	5874.	4080.	-0.1440	59828.	1374447.	-179.1000	42.7722	0.00
1.6000	0.8087	6686.	4044.	-0.1431	68103.	1374447.	-185.4000	45.8487	0.00
1.8000	0.7802	7491.	4006.	-0.1421	76303.	1374447.	-191.7000	49.1395	0.00
2.0000	0.7519	8288.	3967.	-0.1409	84425.	1374447.	-198.0000	52.6647	0.00
2.2000	0.7239	9078.	3927.	-0.1396	92466.	1374447.	-204.3000	56.4469	0.00
2.4000	0.6961	9859.	3885.	-0.1383	100424.	1374447.	-210.6000	60.5111	0.00
2.6000	0.6686	10632.	3843.	-0.1368	108296.	1374447.	-216.9000	64.8855	0.00
2.8000	0.6414	11396.	3799.	-0.1352	116080.	1374447.	-223.2001	69.6018	0.00
3.0000	0.6145	12151.	3753.	-0.1335	123773.	1374447.	-229.5001	74.6955	0.00
3.2000	0.5880	12897.	3707.	-0.1316	131372.	1374447.	-235.8001	80.2067	0.00
3.4000	0.5618	13634.	3659.	-0.1297	138875.	1374447.	-242.1001	86.1808	0.00
3.6000	0.5361	14361.	3610.	-0.1277	146280.	1374447.	-248.4001	92.6693	0.00
3.8000	0.5108	15078.	3560.	-0.1255	153583.	1374447.	-254.7001	99.7306	0.00
4.0000	0.4859	15785.	3508.	-0.1233	160783.	1374447.	-261.0001	107.4315	0.00
4.2000	0.4615	16481.	3455.	-0.1209	167876.	1374447.	-267.3001	115.8484	0.00
4.4000	0.4375	17167.	3401.	-0.1185	174861.	1374447.	-273.6001	125.0689	0.00
4.6000	0.4141	17842.	3346.	-0.1159	181734.	1374447.	-279.9001	135.1938	0.00
4.8000	0.3911	18505.	3253.	-0.1133	188492.	1374447.	-643.8472	329.2115	0.00
5.0000	0.3688	19143.	3120.	-0.1106	194989.	1374447.	-691.4071	374.9941	0.00
5.2000	0.3469	19753.	2976.	-0.1077	201204.	1374447.	-742.9520	428.3075	0.00
5.4000	0.3257	20334.	2822.	-0.1048	207116.	1374447.	-796.0822	488.8922	0.00
5.6000	0.3050	20882.	2658.	-0.1018	212704.	1374447.	-850.7698	557.8768	0.00
5.8000	0.2849	21397.	2482.	-0.09873	217945.	1374447.	-906.9867	636.6038	0.00
6.0000	0.2655	21875.	2294.	-0.09558	222816.	1374447.	-968.5840	729.6005	0.00
6.2000	0.2467	22314.	2094.	-0.09237	227293.	1374447.	-1033.	837.1893	0.00
6.4000	0.2286	22713.	1881.	-0.08909	231349.	1374447.	-1099.	961.5891	0.00

6.6000	0.2111	23067.	1655.	-0.08576	234958.	1374447.	-1167.	1106.	0.00
6.8000	0.1943	23375.	1414.	-0.08238	238091.	1374447.	-1237.	1274.	0.00
7.0000	0.1781	23633.	1159.	-0.07896	240719.	1374447.	-1310.	1471.	0.00
7.2000	0.1627	23838.	889.9547	-0.07551	242814.	1374447.	-1384.	1702.	0.00
7.4000	0.1479	23989.	605.4538	-0.07203	244345.	1374447.	-1461.	1975.	0.00
7.6000	0.1339	24080.	305.4525	-0.06853	245281.	1374447.	-1539.	2300.	0.00
7.8000	0.1205	24111.	-10.4602	-0.06502	245590.	1374447.	-1620.	2688.	0.00
8.0000	0.1079	24076.	-342.6953	-0.06152	245239.	1374447.	-1702.	3157.	0.00
8.2000	0.09590	23974.	-691.6639	-0.05802	244194.	1374447.	-1787.	3727.	0.00
8.4000	0.08465	23800.	-1058.	-0.05455	242421.	1374447.	-1874.	4428.	0.00
8.6000	0.07408	23551.	-1441.	-0.05110	239884.	1374447.	-1963.	5299.	0.00
8.8000	0.06421	23223.	-1843.	-0.04770	236548.	1374447.	-2054.	6397.	0.00
9.0000	0.05500	22813.	-2263.	-0.04435	232375.	1374447.	-2147.	7805.	0.00
9.2000	0.04647	22318.	-2702.	-0.04106	227327.	1374447.	-2241.	9648.	0.00
9.4000	0.03858	21733.	-3160.	-0.03786	221366.	1374447.	-2339.	12123.	0.00
9.6000	0.03132	21054.	-3606.	-0.03475	214452.	1374447.	-2126.	13572.	0.00
9.8000	0.02468	20290.	-4005.	-0.03174	206673.	1374447.	-1864.	15106.	0.00
10.0000	0.01863	19452.	-4353.	-0.02885	198133.	1374447.	-1608.	17270.	0.00
10.2000	0.01314	18549.	-4648.	-0.02608	188939.	1374447.	-1351.	20560.	0.00
10.4000	0.00819	17592.	-4889.	-0.02345	179194.	1374447.	-1053.	25707.	0.00
10.6000	0.00376	16593.	-5062.	-0.02097	169020.	1374447.	-681.0495	36225.	0.00
10.8000	-1.92E-04	15567.	-5125.	-0.01863	158568.	1374447.	54.2515	56624.	0.00
11.0000	-0.00369	14543.	-5047.	-0.01644	148138.	1374447.	724.4213	39261.	0.00
11.2000	-0.00677	13549.	-4866.	-0.01439	138004.	1374447.	1085.	32079.	0.00
11.4000	-0.00945	12597.	-4620.	-0.01249	128312.	1374447.	1377.	29146.	0.00
11.6000	-0.01176	11701.	-4320.	-0.01072	119181.	1374447.	1628.	27682.	0.00
11.8000	-0.01374	10869.	-4088.	-0.00908	110712.	1374447.	691.0917	10063.	0.00
12.0000	-0.01539	10065.	-3947.	-0.00756	102526.	1374447.	711.0608	9239.	0.00
12.2000	-0.01676	9290.	-3804.	-0.00615	94629.	1374447.	726.3230	8669.	0.00
12.4000	-0.01785	8544.	-3657.	-0.00485	87028.	1374447.	737.9014	8267.	0.00
12.6000	-0.01870	7827.	-3509.	-0.00366	79728.	1374447.	746.4896	7985.	0.00
12.8000	-0.01932	7140.	-3359.	-0.00257	72732.	1374447.	752.5821	7792.	0.00
13.0000	-0.01973	6484.	-3208.	-0.00158	66043.	1374447.	756.5454	7671.	0.00
13.2000	-0.01995	5857.	-3056.	-6.81E-04	59662.	1374447.	758.6596	7607.	0.00
13.4000	-0.02000	5261.	-2905.	1.28E-04	53589.	1374447.	759.1436	7592.	0.00
13.6000	-0.01990	4695.	-2753.	8.52E-04	47827.	1374447.	758.1723	7621.	0.00
13.8000	-0.01966	4160.	-2602.	0.00150	42373.	1374447.	755.8870	7691.	0.00
14.0000	-0.01930	3655.	-2451.	0.00207	37227.	1374447.	752.4035	7798.	0.00
14.2000	-0.01883	3180.	-2301.	0.00256	32388.	1374447.	747.8171	7942.	0.00
14.4000	-0.01827	2734.	-2152.	0.00299	27853.	1374447.	742.2069	8124.	0.00
14.6000	-0.01763	2319.	-2004.	0.00336	23621.	1374447.	735.6380	8343.	0.00
14.8000	-0.01693	1933.	-1858.	0.00367	19688.	1374447.	728.1635	8603.	0.00
15.0000	-0.01617	1576.	-1713.	0.00393	16052.	1374447.	719.8261	8905.	0.00
15.2000	-0.01536	1248.	-1570.	0.00413	12710.	1374447.	710.6586	9255.	0.00

15.4000	-0.01451	948.0634	-1429.	0.00429	9657.	1374447.	700.6840	9655.	0.00
15.6000	-0.01364	676.3635	-1290.	0.00441	6889.	1374447.	689.9157	10115.	0.00
15.8000	-0.01275	432.2602	-1153.	0.00449	4403.	1374447.	678.3565	10641.	0.00
16.0000	-0.01185	215.2912	-1018.	0.00454	2193.	1374447.	665.9975	11244.	0.00
16.2000	-0.01094	24.9621	-886.3641	0.00455	254.2614	1374447.	652.8159	11939.	0.00
16.4000	-0.01002	-139.2544	-757.2053	0.00455	1418.	1374447.	638.7721	12744.	0.00
16.6000	-0.00912	-277.9201	-630.9476	0.00452	2831.	1374447.	623.8051	13683.	0.00
16.8000	-0.00822	-391.6335	-507.7845	0.00447	3989.	1374447.	607.8254	14791.	0.00
17.0000	-0.00733	-481.0339	-387.9314	0.00440	4900.	1374447.	590.7054	16115.	0.00
17.2000	-0.00646	-546.8060	-271.6346	0.00433	5570.	1374447.	572.2628	17724.	0.00
17.4000	-0.00560	-589.6877	-159.1849	0.00425	6007.	1374447.	552.2348	19723.	0.00
17.6000	-0.00476	-610.4800	-50.9380	0.00416	6218.	1374447.	530.2335	22281.	0.00
17.8000	-0.00394	-610.0629	52.6517	0.00407	6214.	1374447.	505.6637	25690.	0.00
18.0000	-0.00313	-589.4193	150.9737	0.00398	6004.	1374447.	477.5569	30498.	0.00
18.2000	-0.00234	-549.6734	243.1480	0.00390	5599.	1374447.	444.1860	37902.	0.00
18.4000	-0.00157	-492.1601	327.7642	0.00382	5013.	1374447.	401.9759	51141.	0.00
18.6000	-8.15E-04	-418.5678	402.0668	0.00376	4263.	1374447.	341.0505	83742.	0.00
18.8000	-6.92E-05	-331.3334	454.5921	0.00370	3375.	1374447.	184.2022	532384.	0.00
19.0000	6.66E-04	-236.7309	440.5781	0.00366	2411.	1374447.	-324.3422	97329.	0.00
19.2000	0.00140	-155.1021	369.1289	0.00363	1580.	1374447.	-390.1501	55924.	0.00
19.4000	0.00212	-89.0794	286.7996	0.00361	907.3550	1374447.	-433.1428	40871.	0.00
19.6000	0.00284	-40.3823	196.8786	0.00361	411.3309	1374447.	-466.0672	32807.	0.00
19.8000	0.00356	-10.3279	100.9558	0.00360	105.1996	1374447.	-493.1607	27692.	0.00
20.0000	0.00428	0.00	0.00	0.00360	0.00	1374447.	-516.3972	12060.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 15:

Pile-head deflection = 1.04189343 meters
Computed slope at pile head = -0.14701296 radians
Maximum bending moment = 24111. kN-m
Maximum shear force = -5125. kN
Depth of maximum bending moment = 7.80000000 meters below pile head
Depth of maximum shear force = 10.80000000 meters below pile head
Number of iterations = 43
Number of zero deflection points = 2

Summary of Pile-head Responses for Conventional Analyses

Definitions of Pile-head Loading Conditions:

Load Type 1: Load 1 = Shear, V, kN, and Load 2 = Moment, M, kN-m
Load Type 2: Load 1 = Shear, V, kN, and Load 2 = Slope, S, radians
Load Type 3: Load 1 = Shear, V, kN, and Load 2 = Rot. Stiffness, R, kN-m/rad.
Load Type 4: Load 1 = Top Deflection, y, m, and Load 2 = Moment, M, kN-m
Load Type 5: Load 1 = Top Deflection, y, m, and Load 2 = Slope, S, radians

Load Case No.	Load Type 1	Pile-head Load 1	Load Type 2	Pile-head Load 2	Axial Loading kN	Pile-head Deflection meters	Pile-head Rotation radians	Max Shear in Pile kN	Max Moment in Pile kN-m
1	V, kN	50.0000	M, kN-m	0.00	0.00	6.14E-04	-2.10E-04	50.0000	69.1348
2	V, kN	75.0000	M, kN-m	0.00	0.00	0.00132	-3.98E-04	75.0000	117.8898
3	V, kN	100.0000	M, kN-m	0.00	0.00	0.00227	-6.28E-04	100.0000	172.0244
4	V, kN	125.0000	M, kN-m	0.00	0.00	0.00341	-8.91E-04	125.0000	231.8110
5	V, kN	150.0000	M, kN-m	0.00	0.00	0.00471	-0.00118	150.0000	296.9353
6	V, kN	200.0000	M, kN-m	0.00	0.00	0.00776	-0.00183	200.0000	440.1248
7	V, kN	300.0000	M, kN-m	0.00	0.00	0.01530	-0.00334	300.0000	771.4017
8	V, kN	400.0000	M, kN-m	0.00	0.00	0.02426	-0.00506	400.0000	1140.
9	V, kN	450.0000	M, kN-m	0.00	0.00	0.02916	-0.00597	450.0000	1335.
10	V, kN	470.0000	M, kN-m	0.00	0.00	0.03119	-0.00635	470.0000	1414.
11	V, kN	500.0000	M, kN-m	0.00	0.00	0.03430	-0.00692	500.0000	1535.
12	V, kN	600.0000	M, kN-m	0.00	0.00	0.04523	-0.00890	600.0000	1948.
13	V, kN	700.0000	M, kN-m	0.00	0.00	0.05691	-0.01098	700.0000	2374.
14	V, kN	800.0000	M, kN-m	0.00	0.00	0.06923	-0.01314	800.0000	2814.
15	V, kN	4300.	M, kN-m	0.00	0.00	1.0419	-0.1470	-5125.	24111.

Maximum pile-head deflection = 1.0418934252 meters
Maximum pile-head rotation = -0.1470129590 radians = -8.423222 deg.

The analysis ended normally.

Opera IV01 (Pile centrali) – D1200

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LPile for Windows, Version 2016-09.009

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method
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Files Used for Analysis

Path to file locations:
\m9159\Work\07_Pali\IV01\LPILE\

Name of input data file:
IV01_Pile_D1200.lp9d

Name of output report file:
IV01_Pile_D1200.lp9o

Name of plot output file:
IV01_Pile_D1200.lp9p

Name of runtime message file:
IV01_Pile_D1200.lp9r

Date and Time of Analysis

Date: June 10, 2019 Time: 15:23:10

Problem Title

Project Name: VI02 - Spalle e pila
Job Number:
Client:
Engineer:
Description:

Program Options and Settings

Computational Options:
- Use unfactored loads in computations (conventional analysis)

Engineering Units Used for Data Input and Computations:
- International System Units (kilonewtons, meters, millimeters)

Analysis Control Options:
- Maximum number of iterations allowed = 500
- Deflection tolerance for convergence = 2.5400E-07 m
- Maximum allowable deflection = 2.5400 m
- Number of pile increments = 100

Loading Type and Number of Cycles of Loading:
- Static loading specified

- Use of p-y modification factors for p-y curves not selected
- No distributed lateral loads are entered
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected

- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:
- Output files use decimal points to denote decimal symbols.
- Values of pile-head deflection, bending moment, shear force, and soil reaction are printed for full length of pile.
- Printing Increment (nodal spacing of output points) = 1
- p-y curves computed and reported at user-specified depths
- Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined = 1
Total length of pile = 20.000 m
Depth of ground surface below top of pile = 0.0000 m

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point	Depth Below Pile Head meters	Pile Diameter millimeters
1	0.000	1200.00
2	20.000	1200.00

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is an elastic pile
Cross-sectional Shape = Circular Pile
Length of section = 20.000000 m

Width of top of section = 1.200000 m
Width of bottom of section = 1.200000 m
Top Area = 1.130973 sq. m
Bottom Area = 1.130973 sq. m
Moment of Inertia at Top = 0.101788 m^4
Moment of Inertia at Bottom = 0.101788 m^4
Elastic Modulus = 28000000. kPa

Ground Slope and Pile Batter Angles

Ground Slope Angle = 0.000 degrees
= 0.000 radians

Pile Batter Angle = 0.000 degrees
= 0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 3 layers

Layer 1 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 0.0000 m
Distance from top of pile to bottom of layer = 4.800000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 45.000000 kPa
Undrained cohesion at bottom of layer = 45.000000 kPa
Epsilon-50 at top of layer = 0.015000
Epsilon-50 at bottom of layer = 0.015000

Layer 2 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer = 4.800000 m
Distance from top of pile to bottom of layer = 11.700000 m

Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Friction angle at top of layer = 36.000000 deg.
Friction angle at bottom of layer = 36.000000 deg.
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 3 is stiff clay without free water

Distance from top of pile to top of layer = 11.700000 m
Distance from top of pile to bottom of layer = 20.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 150.000000 kPa
Undrained cohesion at bottom of layer = 150.000000 kPa
Epsilon-50 at top of layer = 0.005000
Epsilon-50 at bottom of layer = 0.005000

(Depth of the lowest soil layer extends 0.000 m below the pile tip)

Summary of Input Soil Properties

Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth m	Effective Unit Wt. kN/m3	Undrained Cohesion kPa	Angle of Friction deg.	E50 or krm	kpy kN/m3
1	Soft	0.00	9.0000	45.0000	--	0.01500	--
	Clay	4.8000	9.0000	45.0000	--	0.01500	--
2	Sand	4.8000	9.0000	--	36.0000	--	default
	(Reese, et al.)	11.7000	9.0000	--	36.0000	--	default
3	Stiff Clay	11.7000	9.0000	150.0000	--	0.00500	--
	w/o Free Water	20.0000	9.0000	150.0000	--	0.00500	--

Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 17

Load No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, kN	Compute Top y vs. Pile Length
1	1	V = 50.000000 kN	M = 0.0000 m-kN	0.0000000	No
2	1	V = 75.000000 kN	M = 0.0000 m-kN	0.0000000	No
3	1	V = 100.000000 kN	M = 0.0000 m-kN	0.0000000	No
4	1	V = 125.000000 kN	M = 0.0000 m-kN	0.0000000	No
5	1	V = 150.000000 kN	M = 0.0000 m-kN	0.0000000	No
6	1	V = 200.000000 kN	M = 0.0000 m-kN	0.0000000	No
7	1	V = 300.000000 kN	M = 0.0000 m-kN	0.0000000	No
8	1	V = 400.000000 kN	M = 0.0000 m-kN	0.0000000	No
9	1	V = 450.000000 kN	M = 0.0000 m-kN	0.0000000	No
10	1	V = 470.000000 kN	M = 0.0000 m-kN	0.0000000	No
11	1	V = 500.000000 kN	M = 0.0000 m-kN	0.0000000	No
12	1	V = 600.000000 kN	M = 0.0000 m-kN	0.0000000	No
13	1	V = 700.000000 kN	M = 0.0000 m-kN	0.0000000	No
14	1	V = 800.000000 kN	M = 0.0000 m-kN	0.0000000	No
15	1	V = 1000.000000 kN	M = 0.0000 m-kN	0.0000000	No
16	1	V = 1200. kN	M = 0.0000 m-kN	0.0000000	No
17	1	V = 6000. kN	M = 0.0000 m-kN	0.0000000	No

V = shear force applied normal to pile axis
M = bending moment applied to pile head
y = lateral deflection normal to pile axis
S = pile slope relative to original pile batter angle
R = rotational stiffness applied to pile head
Values of top y vs. pile lengths can be computed only for load types with specified shear loading (Load Types 1, 2, and 3).
Thrust force is assumed to be acting axially for all pile batter angles.

Specified Depths for Output of p-y Curves

Lateral load-transfer (p-y) curves are computed and output at 6 depths.
(Note that load-transfer values are computeded at the specified depths and
may differ from values computed at nodal points)

Depth No.	Depth Below Pile Head m	Depth Below Ground Surface m
1	0.200	0.200
2	4.600	4.600
3	5.000	5.000
4	11.500	11.500
5	11.900	11.900
6	19.800	19.800

Depth of ground surface below top of pile = 0.0000 m

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

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Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Moment-curvature properties were derived from elastic section properties

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Layering Correction Equivalent Depths of Soil & Rock Layers

Layer	Top of Layer Below	Equivalent Top Depth Below	Same Layer Type As	Layer is Rock or	F0 Integral	F1 Integral

No.	Pile Head meters	Grnd Surf meters	Layer Above	is Below Rock Layer	for Layer kN	for Layer kN
1	0.00	0.00	N.A.	No	0.00	1161.
2	4.8000	3.8807	No	No	1161.	13393.
3	11.7000	13.1799	No	No	14554.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals for Layer n. Layering correction equivalent depths are computed only for soil types with both shallow-depth and deep-depth expressions for peak lateral load transfer. These soil types are soft and stiff clays, non-liquefied sands, and cemented c-phi soil.

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p-y Curves Reported for Specified Depths

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p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 0.200 m
Depth of p-y curve below ground surface = 0.200 m
Equiv. depth of p-y curve below ground surface = 0.200 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1200.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 9.730 m
Static pu_s for flat ground = 168.660 kN/m
Static pu_d for flat ground = 486.000 kN/m
y_50 = 0.04500 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000

Sloping Ground Factor = 1.000
Positive-y, static pu = 168.660 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00010667	11.24400
0.00085333	22.48800
0.00288	33.73200
0.00683	44.97600
0.01333	56.22000
0.02304	67.46400
0.03659	78.70800
0.05461	89.95200
0.07776	101.19600
0.10667	112.44000
0.14197	123.68400
0.18432	134.92800
0.23435	146.17200
0.29269	157.41600
0.36000	168.66000
0.38250	168.66000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 4.600 m
Depth of p-y curve below ground surface = 4.600 m
Equiv. depth of p-y curve below ground surface = 4.600 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1200.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 9.730 m
Static pu_s for flat ground = 315.180 kN/m
Static pu_d for flat ground = 486.000 kN/m
y_50 = 0.04500 m
p-multiplier = 1.000

y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 315.180 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00010667	21.01200
0.00085333	42.02400
0.00288	63.03600
0.00683	84.04800
0.01333	105.06000
0.02304	126.07200
0.03659	147.08400
0.05461	168.09600
0.07776	189.10800
0.10667	210.12000
0.14197	231.13200
0.18432	252.14400
0.23435	273.15600
0.29269	294.16800
0.36000	315.18000
0.38250	315.18000

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 4.800 m
Depth of p-y curve below pile head = 5.000 m
Depth of p-y curve below ground surface = 5.000 m
Equiv. depth of p-y curve below ground surface = 4.081 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 1200.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3

K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 789.634 kN/m
Psd = 3304.835 kN/m
Ps = Pst (shallow controls) = 789.634 kN/m
A (static) = 0.9959
B (static) = 0.6379
C = Pm/(Ym^(1/n)) = 2917.3928
n = Pm/(m Ym) = 2.2272
m = (Pu-Pm)/(Yu-Ym) = 11307.9091
Yk = [c/(kx)]^(n/(n-1)) = 0.0010 m
Pk = 131.355 kN/m
Ym = b/60 = 0.0200 m
Pm = B ps = 503.706 kN/m
Yu = 3b/80 = 0.0450 m
Pu = A Ps = 786.404 kN/m
Maximum Es value = 131074.154 kN/m/m
p-multiplier = 1.00000
y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters	p, kN/m
0.00000	0.00000
0.00100	131.35546
0.00273	205.97123
0.00446	256.69184
0.00618	297.35910
0.00791	332.13302
0.00964	362.92699
0.01136	390.80646
0.01309	416.43581
0.01482	440.26178
0.01655	462.60161
0.01827	483.68998
0.02000	503.70621
0.03250	645.05507
0.04500	786.40394
0.05400	786.40394
0.06300	786.40394

The above p-y curve was computed using internal default values of k.

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 4.800 m
Depth of p-y curve below pile head = 11.500 m
Depth of p-y curve below ground surface = 11.500 m
Equiv. depth of p-y curve below ground surface = 10.581 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 1200.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3
K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 3998.399 kN/m
Psd = 7601.122 kN/m
Ps = Pst (shallow controls) = 3998.399 kN/m
A (static) = 0.8800
B (static) = 0.5000
C = Pm/(Ym^(1/n)) = 21568.9938
n = Pm/(m Ym) = 1.6447
m = (Pu-Pm)/(Yu-Ym) = 60775.6633
Yk = [c/(kx)]^(n/(n-1)) = 0.0012 m
Pk = 360.801 kN/m
Ym = b/60 = 0.0200 m
Pm = B ps = 1999.199 kN/m
Yu = 3b/80 = 0.0450 m
Pu = A Ps = 3518.591 kN/m
Maximum Es value = 301470.555 kN/m/m
p-multiplier = 1.00000
y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters	p, kN/m
0.00000	0.00000
0.00120	360.80107
0.00291	618.77170
0.00462	819.74486
0.00632	992.82459
0.00803	1148.25745
0.00974	1291.14293
0.01145	1424.47533
0.01316	1550.19775
0.01487	1669.65946
0.01658	1783.84444
0.01829	1893.49755
0.02000	1999.19945
0.03250	2758.89524
0.04500	3518.59103
0.05400	3518.59103
0.06300	3518.59103

The above p-y curve was computed using internal default values of k.

p-y Curve Computed Using Static Criteria for Stiff Clay without Free Water

Soil Layer Number = 3
Depth of p-y curve below pile head = 11.900 m
Depth of p-y curve below ground surface = 11.900 m
Depth of top of layer 3 below pile head = 11.700 m
Equiv. depth of p-y curve below ground surface = 11.900 m
Pile diameter = 1200.000 mm
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Undrained cohesion = 150.000 kPa
Average effective unit weight = 9.00000 kN/m3
Epsilon-50 = 0.00500
Pct = 1672.010 kN/m
Pcd = 1620.000 kN/m
Pu = 1620.000 kN/m

y50 = 0.01500 m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
4.74074E-06	108.00000
0.00007585	216.00000
0.00038400	324.00000
0.00121	432.00000
0.00296	540.00000
0.00614	648.00000
0.01138	756.00000
0.01942	864.00000
0.03110	972.00000
0.04741	1080.00000
0.06941	1188.00000
0.09830	1296.00000
0.13540	1404.00000
0.18212	1512.00000
0.24000	1620.00000
0.30000	1620.00000

p-y Curve Computed Using Static Criteria for Stiff Clay without Free Water

Soil Layer Number = 3
Depth of p-y curve below pile head = 19.800 m
Depth of p-y curve below ground surface = 19.800 m
Depth of top of layer 3 below pile head = 11.700 m
Equiv. depth of p-y curve below ground surface = 19.800 m
Pile diameter = 1200.000 mm
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Undrained cohesion = 150.000 kPa
Average effective unit weight = 9.00000 kN/m3
Epsilon-50 = 0.00500
Pct = 2349.830 kN/m
Pcd = 1620.000 kN/m
Pu = 1620.000 kN/m
y50 = 0.01500 m

p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
4.74074E-06	108.00000
0.00007585	216.00000
0.00038400	324.00000
0.00121	432.00000
0.00296	540.00000
0.00614	648.00000
0.01138	756.00000
0.01942	864.00000
0.03110	972.00000
0.04741	1080.00000
0.06941	1188.00000
0.09830	1296.00000
0.13540	1404.00000
0.18212	1512.00000
0.24000	1620.00000
0.30000	1620.00000

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 1

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 50.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	3.65E-04	6.57E-11	50.0000	-1.17E-04	3.87E-10	2850053.	-16.2751	4464.	0.00

0.2000	3.41E-04	9.6745	46.7151	-1.17E-04	57.0276	2850053.	-16.5741	9716.	0.00
0.4000	3.18E-04	18.6860	43.3748	-1.16E-04	110.1472	2850053.	-16.8283	10587.	0.00
0.6000	2.95E-04	27.0244	39.9884	-1.14E-04	159.2989	2850053.	-17.0364	11553.	0.00
0.8000	2.72E-04	34.6814	36.5650	-1.12E-04	204.4338	2850053.	-17.1969	12630.	0.00
1.0000	2.50E-04	41.6504	33.1145	-1.09E-04	245.5138	2850053.	-17.3088	13835.	0.00
1.2000	2.29E-04	47.9272	29.6465	-1.06E-04	282.5127	2850053.	-17.3705	15192.	0.00
1.4000	2.08E-04	53.5091	26.1714	-1.02E-04	315.4159	2850053.	-17.3807	16727.	0.00
1.6000	1.88E-04	58.3957	22.6996	-9.85E-05	344.2210	2850053.	-17.3378	18474.	0.00
1.8000	1.68E-04	62.5889	19.2417	-9.43E-05	368.9381	2850053.	-17.2403	20474.	0.00
2.0000	1.50E-04	66.0924	15.8091	-8.97E-05	389.5902	2850053.	-17.0861	22782.	0.00
2.2000	1.33E-04	68.9125	12.4132	-8.50E-05	406.2136	2850053.	-16.8730	25467.	0.00
2.4000	1.16E-04	71.0577	9.0660	-8.01E-05	418.8587	2850053.	-16.5985	28620.	0.00
2.6000	1.00E-04	72.5389	5.7803	-7.51E-05	427.5900	2850053.	-16.2593	32366.	0.00
2.8000	8.60E-05	73.3698	2.5692	-6.99E-05	432.4876	2850053.	-15.8509	36877.	0.00
3.0000	7.25E-05	73.5666	-0.5526	-6.48E-05	433.6479	2850053.	-15.3678	42397.	0.00
3.2000	6.01E-05	73.1487	-3.5696	-5.96E-05	431.1846	2850053.	-14.8022	49297.	0.00
3.4000	4.86E-05	72.1388	-6.4641	-5.45E-05	425.2312	2850053.	-14.1426	58153.	0.00
3.6000	3.82E-05	70.5631	-9.2155	-4.95E-05	415.9432	2850053.	-13.3719	69942.	0.00
3.8000	2.88E-05	68.4526	-11.7990	-4.47E-05	403.5023	2850053.	-12.4623	86466.	0.00
4.0000	2.04E-05	65.8435	-14.1817	-3.99E-05	388.1230	2850053.	-11.3647	111554.	0.00
4.2000	1.28E-05	62.7799	-16.3159	-3.54E-05	370.0641	2850053.	-9.9777	155313.	0.00
4.4000	6.20E-06	59.3172	-18.1165	-3.11E-05	349.6525	2850053.	-8.0282	258849.	0.00
4.6000	3.90E-07	55.5333	-18.9365	-2.71E-05	327.3481	2850053.	-0.1718	88087.	0.00
4.8000	-4.64E-06	51.7426	-18.8952	-2.34E-05	305.0031	2850053.	0.5843	25166.	0.00
5.0000	-8.95E-06	47.9752	-18.7195	-1.99E-05	282.7959	2850053.	1.1732	26215.	0.00
5.2000	-1.26E-05	44.2548	-18.4306	-1.66E-05	260.8653	2850053.	1.7156	27263.	0.00
5.4000	-1.56E-05	40.6030	-18.0382	-1.36E-05	239.3393	2850053.	2.2081	28312.	0.00
5.6000	-1.80E-05	37.0395	-17.5526	-1.09E-05	218.3339	2850053.	2.6485	29361.	0.00
5.8000	-2.00E-05	33.5819	-16.9842	-8.44E-06	197.9529	2850053.	3.0355	30409.	0.00
6.0000	-2.14E-05	30.2458	-16.3438	-6.20E-06	178.2877	2850053.	3.3686	31458.	0.00
6.2000	-2.24E-05	27.0444	-15.6421	-4.19E-06	159.4167	2850053.	3.6479	32506.	0.00
6.4000	-2.31E-05	23.9889	-14.8899	-2.40E-06	141.4059	2850053.	3.8742	33555.	0.00
6.6000	-2.34E-05	21.0884	-14.0976	-8.16E-07	124.3085	2850053.	4.0491	34604.	0.00
6.8000	-2.34E-05	18.3499	-13.2752	5.68E-07	108.1658	2850053.	4.1746	35652.	0.00
7.0000	-2.32E-05	15.7784	-12.4325	1.77E-06	93.0075	2850053.	4.2529	36701.	0.00
7.2000	-2.27E-05	13.3769	-11.5785	2.79E-06	78.8519	2850053.	4.2869	37749.	0.00
7.4000	-2.21E-05	11.1470	-10.7219	3.65E-06	65.7071	2850053.	4.2796	38798.	0.00
7.6000	-2.13E-05	9.0882	-9.8705	4.36E-06	53.5714	2850053.	4.2343	39847.	0.00
7.8000	-2.03E-05	7.1988	-9.0316	4.93E-06	42.4340	2850053.	4.1544	40895.	0.00
8.0000	-1.93E-05	5.4755	-8.2118	5.37E-06	32.2762	2850053.	4.0436	41944.	0.00
8.2000	-1.82E-05	3.9140	-7.4169	5.70E-06	23.0718	2850053.	3.9053	42992.	0.00
8.4000	-1.70E-05	2.5088	-6.6520	5.93E-06	14.7883	2850053.	3.7433	44041.	0.00
8.6000	-1.58E-05	1.2532	-5.9216	6.06E-06	7.3873	2850053.	3.5611	45090.	0.00
8.8000	-1.46E-05	0.1401	-5.2293	6.11E-06	0.8260	2850053.	3.3622	46138.	0.00

9.0000	-1.34E-05	-0.8385	-4.5780	6.09E-06	4.9425	2850053.	3.1501	47187.	0.00
9.2000	-1.21E-05	-1.6911	-3.9702	6.00E-06	9.9683	2850053.	2.9280	48235.	0.00
9.4000	-1.10E-05	-2.4266	-3.4075	5.85E-06	14.3037	2850053.	2.6990	49284.	0.00
9.6000	-9.80E-06	-3.0541	-2.8910	5.66E-06	18.0027	2850053.	2.4661	50332.	0.00
9.8000	-8.69E-06	-3.5830	-2.4212	5.43E-06	21.1203	2850053.	2.2322	51381.	0.00
10.0000	-7.63E-06	-4.0226	-1.9980	5.16E-06	23.7116	2850053.	1.9998	52430.	0.00
10.2000	-6.62E-06	-4.3822	-1.6209	4.87E-06	25.8313	2850053.	1.7713	53478.	0.00
10.4000	-5.68E-06	-4.6709	-1.2888	4.55E-06	27.5334	2850053.	1.5491	54527.	0.00
10.6000	-4.81E-06	-4.8977	-1.0004	4.21E-06	28.8702	2850053.	1.3353	55575.	0.00
10.8000	-4.00E-06	-5.0711	-0.7537	3.86E-06	29.8922	2850053.	1.1317	56624.	0.00
11.0000	-3.26E-06	-5.1992	-0.5465	3.50E-06	30.6473	2850053.	0.9401	57673.	0.00
11.2000	-2.60E-06	-5.2897	-0.3763	3.13E-06	31.1808	2850053.	0.7623	58721.	0.00
11.4000	-2.01E-06	-5.3497	-0.2401	2.76E-06	31.5346	2850053.	0.5997	59770.	0.00
11.6000	-1.49E-06	-5.3857	-0.1348	2.38E-06	31.7469	2850053.	0.4537	60818.	0.00
11.8000	-1.05E-06	-5.4036	0.6213	2.01E-06	31.8523	2850053.	7.1072	1350000.	0.00
12.0000	-6.90E-07	-5.1372	1.7976	1.64E-06	30.2819	2850053.	4.6556	1350000.	0.00
12.2000	-3.99E-07	-4.6846	2.5323	1.29E-06	27.6138	2850053.	2.6907	1350000.	0.00
12.4000	-1.73E-07	-4.1243	2.9183	9.82E-07	24.3112	2850053.	1.1696	1350000.	0.00
12.6000	-5.80E-09	-3.5173	3.0392	7.14E-07	20.7329	2850053.	0.03918	1350000.	0.00
12.8000	1.12E-07	-2.9086	2.9673	4.88E-07	17.1453	2850053.	-0.7580	1350000.	0.00
13.0000	1.90E-07	-2.3303	2.7635	3.05E-07	13.7365	2850053.	-1.2797	1350000.	0.00
13.2000	2.34E-07	-1.8032	2.4775	1.60E-07	10.6294	2850053.	-1.5806	1350000.	0.00
13.4000	2.53E-07	-1.3393	2.1484	4.93E-08	7.8949	2850053.	-1.7106	1350000.	0.00
13.6000	2.54E-07	-0.9439	1.8059	-3.08E-08	5.5638	2850053.	-1.7138	1350000.	0.00
13.8000	2.41E-07	-0.6170	1.4718	-8.55E-08	3.6368	2850053.	-1.6275	1350000.	0.00
14.0000	2.20E-07	-0.3552	1.1608	-1.20E-07	2.0936	2850053.	-1.4829	1350000.	0.00
14.2000	1.93E-07	-0.1527	0.8820	-1.37E-07	0.8999	2850053.	-1.3045	1350000.	0.00
14.4000	1.65E-07	-0.00236	0.6404	-1.43E-07	0.01388	2850053.	-1.1117	1350000.	0.00
14.6000	1.36E-07	0.1035	0.4374	-1.39E-07	0.6100	2850053.	-0.9187	1350000.	0.00
14.8000	1.09E-07	0.1726	0.2719	-1.30E-07	1.0173	2850053.	-0.7355	1350000.	0.00
15.0000	8.42E-08	0.2123	0.1415	-1.16E-07	1.2512	2850053.	-0.5686	1350000.	0.00
15.2000	6.25E-08	0.2292	0.04250	-1.01E-07	1.3511	2850053.	-0.4218	1350000.	0.00
15.4000	4.40E-08	0.2293	-0.02937	-8.46E-08	1.3514	2850053.	-0.2968	1350000.	0.00
15.6000	2.87E-08	0.2175	-0.07839	-6.89E-08	1.2818	2850053.	-0.1935	1350000.	0.00
15.8000	1.64E-08	0.1979	-0.1088	-5.43E-08	1.1666	2850053.	-0.1107	1350000.	0.00
16.0000	6.93E-09	0.1739	-0.1246	-4.13E-08	1.0253	2850053.	-0.04675	1350000.	0.00
16.2000	-1.12E-10	0.1481	-0.1292	-3.00E-08	0.8729	2850053.	7.55E-04	1350000.	0.00
16.4000	-5.07E-09	0.1223	-0.1257	-2.05E-08	0.7208	2850053.	0.03423	1350000.	0.00
16.6000	-8.31E-09	0.09783	-0.1166	-1.28E-08	0.5767	2850053.	0.05611	1350000.	0.00
16.8000	-1.02E-08	0.07563	-0.1041	-6.70E-09	0.4458	2850053.	0.06874	1350000.	0.00
17.0000	-1.10E-08	0.05617	-0.08984	-2.07E-09	0.3311	2850053.	0.07419	1350000.	0.00
17.2000	-1.10E-08	0.03969	-0.07499	1.29E-09	0.2339	2850053.	0.07433	1350000.	0.00
17.4000	-1.05E-08	0.02618	-0.06049	3.60E-09	0.1543	2850053.	0.07070	1350000.	0.00
17.6000	-9.57E-09	0.01549	-0.04696	5.07E-09	0.09132	2850053.	0.06460	1350000.	0.00

17.8000	-8.45E-09	0.00739	-0.03480	5.87E-09	0.04358	2850053.	0.05702	1350000.	0.00
18.0000	-7.22E-09	0.00157	-0.02422	6.18E-09	0.00928	2850053.	0.04875	1350000.	0.00
18.2000	-5.97E-09	-0.00229	-0.01531	6.16E-09	0.01353	2850053.	0.04033	1350000.	0.00
18.4000	-4.76E-09	-0.00455	-0.00807	5.92E-09	0.02682	2850053.	0.03213	1350000.	0.00
18.6000	-3.61E-09	-0.00552	-0.00242	5.56E-09	0.03254	2850053.	0.02435	1350000.	0.00
18.8000	-2.53E-09	-0.00552	0.00173	5.18E-09	0.03252	2850053.	0.01710	1350000.	0.00
19.0000	-1.54E-09	-0.00483	0.00448	4.81E-09	0.02847	2850053.	0.01037	1350000.	0.00
19.2000	-6.08E-10	-0.00373	0.00592	4.51E-09	0.02197	2850053.	0.00410	1350000.	0.00
19.4000	2.69E-10	-0.00246	0.00615	4.30E-09	0.01450	2850053.	-0.00181	1350000.	0.00
19.6000	1.11E-09	-0.00127	0.00522	4.17E-09	0.00746	2850053.	-0.00750	1350000.	0.00
19.8000	1.94E-09	-3.72E-04	0.00317	4.11E-09	0.00219	2850053.	-0.01306	1350000.	0.00
20.0000	2.75E-09	0.00	0.00	4.10E-09	0.00	2850053.	-0.01859	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 1:

Pile-head deflection = 0.00036455 meters
Computed slope at pile head = -0.00011692 radians
Maximum bending moment = 73.56663151 kN-m
Maximum shear force = 50.00000000 kN
Depth of maximum bending moment = 3.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 13
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 2

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 75.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
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0.00	7.90E-04	-1.08E-10	75.0000	-2.21E-04	6.38E-10	2850053.	-21.0600	2664.	0.00
0.2000	7.46E-04	14.5788	70.7432	-2.21E-04	85.9366	2850053.	-21.5085	5765.	0.00
0.4000	7.02E-04	28.2973	66.4014	-2.19E-04	166.8018	2850053.	-21.9088	6241.	0.00
0.6000	6.58E-04	41.1394	61.9846	-2.17E-04	242.5013	2850053.	-22.2594	6761.	0.00
0.8000	6.15E-04	53.0911	57.5027	-2.14E-04	312.9523	2850053.	-22.5593	7332.	0.00
1.0000	5.73E-04	64.1405	52.9661	-2.10E-04	378.0841	2850053.	-22.8072	7961.	0.00
1.2000	5.32E-04	74.2775	48.3852	-2.05E-04	437.8384	2850053.	-23.0020	8655.	0.00
1.4000	4.91E-04	83.4945	43.7707	-1.99E-04	492.1691	2850053.	-23.1426	9425.	0.00
1.6000	4.52E-04	91.7858	39.1337	-1.93E-04	541.0432	2850053.	-23.2277	10281.	0.00
1.8000	4.14E-04	99.1480	34.4853	-1.86E-04	584.4405	2850053.	-23.2564	11237.	0.00
2.0000	3.77E-04	105.5799	29.8369	-1.79E-04	622.3543	2850053.	-23.2273	12311.	0.00
2.2000	3.42E-04	111.0828	25.2002	-1.72E-04	654.7914	2850053.	-23.1392	13521.	0.00
2.4000	3.09E-04	115.6600	20.5872	-1.64E-04	681.7727	2850053.	-22.9909	14893.	0.00
2.6000	2.77E-04	119.3176	16.0101	-1.55E-04	703.3331	2850053.	-22.7808	16458.	0.00
2.8000	2.47E-04	122.0640	11.4812	-1.47E-04	719.5220	2850053.	-22.5073	18253.	0.00
3.0000	2.18E-04	123.9101	7.0137	-1.38E-04	730.4041	2850053.	-22.1683	20329.	0.00
3.2000	1.91E-04	124.8695	2.6207	-1.29E-04	736.0593	2850053.	-21.7615	22748.	0.00
3.4000	1.66E-04	124.9584	-1.6838	-1.21E-04	736.5834	2850053.	-21.2838	25596.	0.00
3.6000	1.43E-04	124.1960	-5.8853	-1.12E-04	732.0891	2850053.	-20.7315	28987.	0.00
3.8000	1.22E-04	122.6043	-9.9684	-1.03E-04	722.7067	2850053.	-20.0993	33082.	0.00
4.0000	1.02E-04	120.2086	-13.9164	-9.48E-05	708.5851	2850053.	-19.3802	38109.	0.00
4.2000	8.36E-05	117.0378	-17.7108	-8.65E-05	689.8940	2850053.	-18.5643	44416.	0.00
4.4000	6.71E-05	113.1243	-21.3309	-7.84E-05	666.8257	2850053.	-17.6367	52554.	0.00
4.6000	5.22E-05	108.5054	-24.7520	-7.06E-05	639.5989	2850053.	-16.5746	63465.	0.00
4.8000	3.89E-05	103.2235	-26.8986	-6.32E-05	608.4641	2850053.	-4.8910	25166.	0.00
5.0000	2.70E-05	97.7460	-27.7410	-5.61E-05	576.1760	2850053.	-3.5330	26215.	0.00
5.2000	1.64E-05	92.1271	-28.3180	-4.95E-05	543.0550	2850053.	-2.2372	27263.	0.00
5.4000	7.16E-06	86.4188	-28.6431	-4.32E-05	509.4064	2850053.	-1.0138	28312.	0.00
5.6000	-8.75E-07	80.6699	-28.7316	-3.74E-05	475.5188	2850053.	0.1285	29361.	0.00
5.8000	-7.78E-06	74.9261	-28.6005	-3.19E-05	441.6615	2850053.	1.1829	30409.	0.00
6.0000	-1.36E-05	69.2297	-28.2678	-2.68E-05	408.0831	2850053.	2.1443	31458.	0.00
6.2000	-1.85E-05	63.6190	-27.7524	-2.22E-05	375.0103	2850053.	3.0092	32506.	0.00
6.4000	-2.25E-05	58.1287	-27.0740	-1.79E-05	342.6470	2850053.	3.7755	33555.	0.00
6.6000	-2.57E-05	52.7894	-26.2522	-1.40E-05	311.1739	2850053.	4.4424	34604.	0.00
6.8000	-2.81E-05	47.6278	-25.3069	-1.05E-05	280.7483	2850053.	5.0106	35652.	0.00
7.0000	-2.99E-05	42.6667	-24.2576	-7.32E-06	251.5041	2850053.	5.4816	36701.	0.00
7.2000	-3.10E-05	37.9248	-23.1237	-4.49E-06	223.5524	2850053.	5.8580	37749.	0.00
7.4000	-3.17E-05	33.4172	-21.9235	-1.99E-06	196.9819	2850053.	6.1434	38798.	0.00
7.6000	-3.18E-05	29.1554	-20.6750	2.06E-07	171.8600	2850053.	6.3420	39847.	0.00
7.8000	-3.16E-05	25.1472	-19.3949	2.11E-06	148.2334	2850053.	6.4587	40895.	0.00
8.0000	-3.10E-05	21.3974	-18.0992	3.74E-06	126.1297	2850053.	6.4987	41944.	0.00
8.2000	-3.01E-05	17.9075	-16.8025	5.12E-06	105.5583	2850053.	6.4680	42992.	0.00
8.4000	-2.89E-05	14.6764	-15.5185	6.27E-06	86.5120	2850053.	6.3724	44041.	0.00
8.6000	-2.76E-05	11.7002	-14.2594	7.19E-06	68.9681	2850053.	6.2184	45090.	0.00

8.8000	-2.61E-05	8.9727	-13.0363	7.92E-06	52.8905	2850053.	6.0122	46138.	0.00
9.0000	-2.44E-05	6.4856	-11.8591	8.46E-06	38.2304	2850053.	5.7604	47187.	0.00
9.2000	-2.27E-05	4.2290	-10.7361	8.84E-06	24.9286	2850053.	5.4694	48235.	0.00
9.4000	-2.09E-05	2.1912	-9.6746	9.06E-06	12.9163	2850053.	5.1455	49284.	0.00
9.6000	-1.91E-05	0.3592	-8.6806	9.15E-06	2.1173	2850053.	4.7950	50332.	0.00
9.8000	-1.72E-05	-1.2810	-7.7586	9.12E-06	7.5511	2850053.	4.4241	51381.	0.00
10.0000	-1.54E-05	-2.7443	-6.9124	8.98E-06	16.1764	2850053.	4.0387	52430.	0.00
10.2000	-1.36E-05	-4.0460	-6.1440	8.74E-06	23.8494	2850053.	3.6446	53478.	0.00
10.4000	-1.19E-05	-5.2019	-5.4548	8.41E-06	30.6631	2850053.	3.2473	54527.	0.00
10.6000	-1.03E-05	-6.2279	-4.8449	8.01E-06	36.7111	2850053.	2.8522	55575.	0.00
10.8000	-8.71E-06	-7.1398	-4.3132	7.54E-06	42.0866	2850053.	2.4647	56624.	0.00
11.0000	-7.25E-06	-7.9532	-3.8578	7.01E-06	46.8810	2850053.	2.0897	57673.	0.00
11.2000	-5.90E-06	-8.6829	-3.4756	6.43E-06	51.1827	2850053.	1.7322	58721.	0.00
11.4000	-4.67E-06	-9.3434	-3.1627	5.80E-06	55.0759	2850053.	1.3969	59770.	0.00
11.6000	-3.58E-06	-9.9480	-2.9141	5.12E-06	58.6398	2850053.	1.0887	60818.	0.00
11.8000	-2.63E-06	-10.5091	-1.0328	4.40E-06	61.9470	2850053.	17.7241	1350000.	0.00
12.0000	-1.82E-06	-10.3611	1.9673	3.67E-06	61.0750	2850053.	12.2769	1350000.	0.00
12.2000	-1.16E-06	-9.7221	3.9761	2.97E-06	57.3084	2850053.	7.8113	1350000.	0.00
12.4000	-6.32E-07	-8.7707	5.1839	2.32E-06	51.7000	2850053.	4.2667	1350000.	0.00
12.6000	-2.30E-07	-7.6486	5.7659	1.74E-06	45.0856	2850053.	1.5530	1350000.	0.00
12.8000	6.46E-08	-6.4644	5.8775	1.25E-06	38.1050	2850053.	-0.4361	1350000.	0.00
13.0000	2.69E-07	-5.2976	5.6526	8.34E-07	31.2272	2850053.	-1.8129	1350000.	0.00
13.2000	3.98E-07	-4.2033	5.2026	5.01E-07	24.7769	2850053.	-2.6877	1350000.	0.00
13.4000	4.69E-07	-3.2165	4.6174	2.40E-07	18.9603	2850053.	-3.1644	1350000.	0.00
13.6000	4.94E-07	-2.3563	3.9673	4.47E-08	13.8898	2850053.	-3.3363	1350000.	0.00
13.8000	4.87E-07	-1.6296	3.3052	-9.52E-08	9.6060	2850053.	-3.2850	1350000.	0.00
14.0000	4.56E-07	-1.0343	2.6687	-1.89E-07	6.0967	2850053.	-3.0793	1350000.	0.00
14.2000	4.11E-07	-0.5621	2.0833	-2.45E-07	3.3134	2850053.	-2.7757	1350000.	0.00
14.4000	3.58E-07	-0.2010	1.5638	-2.71E-07	1.1847	2850053.	-2.4187	1350000.	0.00
14.6000	3.03E-07	0.06341	1.1177	-2.76E-07	0.3738	2850053.	-2.0428	1350000.	0.00
14.8000	2.48E-07	0.2461	0.7461	-2.65E-07	1.4506	2850053.	-1.6729	1350000.	0.00
15.0000	1.96E-07	0.3618	0.4462	-2.44E-07	2.1330	2850053.	-1.3262	1350000.	0.00
15.2000	1.50E-07	0.4246	0.2122	-2.16E-07	2.5026	2850053.	-1.0139	1350000.	0.00
15.4000	1.10E-07	0.4467	0.03661	-1.86E-07	2.6332	2850053.	-0.7417	1350000.	0.00
15.6000	7.58E-08	0.4392	-0.08875	-1.55E-07	2.5889	2850053.	-0.5119	1350000.	0.00
15.8000	4.80E-08	0.4112	-0.1723	-1.25E-07	2.4240	2850053.	-0.3237	1350000.	0.00
16.0000	2.58E-08	0.3703	-0.2221	-9.76E-08	2.1826	2850053.	-0.1745	1350000.	0.00
16.2000	8.93E-09	0.3224	-0.2456	-7.33E-08	1.9002	2850053.	-0.06031	1350000.	0.00
16.4000	-3.46E-09	0.2720	-0.2493	-5.24E-08	1.6035	2850053.	0.02332	1350000.	0.00
16.6000	-1.20E-08	0.2226	-0.2389	-3.50E-08	1.3123	2850053.	0.08118	1350000.	0.00
16.8000	-1.75E-08	0.1765	-0.2190	-2.10E-08	1.0403	2850053.	0.1180	1350000.	0.00
17.0000	-2.04E-08	0.1351	-0.1934	-1.01E-08	0.7961	2850053.	0.1380	1350000.	0.00
17.2000	-2.15E-08	0.09914	-0.1650	-1.90E-09	0.5844	2850053.	0.1453	1350000.	0.00
17.4000	-2.12E-08	0.06904	-0.1362	4.00E-09	0.4070	2850053.	0.1431	1350000.	0.00

17.6000	-1.99E-08	0.04466	-0.1084	7.99E-09	0.2633	2850053.	0.1344	1350000.	0.00
17.8000	-1.80E-08	0.02566	-0.08284	1.05E-08	0.1513	2850053.	0.1215	1350000.	0.00
18.0000	-1.57E-08	0.01153	-0.06006	1.18E-08	0.06795	2850053.	0.1062	1350000.	0.00
18.2000	-1.33E-08	0.00164	-0.04047	1.22E-08	0.00966	2850053.	0.08977	1350000.	0.00
18.4000	-1.08E-08	-0.00466	-0.02417	1.21E-08	0.02746	2850053.	0.07318	1350000.	0.00
18.6000	-8.45E-09	-0.00803	-0.01115	1.17E-08	0.04733	2850053.	0.05704	1350000.	0.00
18.8000	-6.17E-09	-0.00912	-0.00128	1.11E-08	0.05375	2850053.	0.04166	1350000.	0.00
19.0000	-4.02E-09	-0.00854	0.00560	1.05E-08	0.05034	2850053.	0.02714	1350000.	0.00
19.2000	-1.99E-09	-0.00688	0.00966	9.92E-09	0.04054	2850053.	0.01342	1350000.	0.00
19.4000	-5.40E-11	-0.00468	0.01104	9.51E-09	0.02757	2850053.	3.65E-04	1350000.	0.00
19.6000	1.82E-09	-0.00246	0.00985	9.26E-09	0.01452	2850053.	-0.01225	1350000.	0.00
19.8000	3.65E-09	-7.39E-04	0.00616	9.15E-09	0.00436	2850053.	-0.02463	1350000.	0.00
20.0000	5.47E-09	0.00	0.00	9.12E-09	0.00	2850053.	-0.03695	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 2:

Pile-head deflection = 0.00079049 meters
Computed slope at pile head = -0.00022142 radians
Maximum bending moment = 124.95842934 kN-m
Maximum shear force = 75.00000000 kN
Depth of maximum bending moment = 3.40000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 16
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 3

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 100.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth	Deflect.	Bending	Shear	Slope	Total	Bending	Soil Res.	Soil Spr.	Distrib.
X	y	Moment	Force	S	Stress	Stiffness	p	Es*h	Lat. Load
meters	meters	kN-m	kN	radians	kPa*	kN-m^2	kN/m	kN/m	kN/m

0.00	0.00136	2.63E-10	100.0000	-3.49E-04	1.55E-09	2850053.	-25.2533	1852.	0.00
0.2000	0.00129	19.4949	94.8912	-3.48E-04	114.9154	2850053.	-25.8348	3994.	0.00
0.4000	0.00122	37.9565	89.6712	-3.46E-04	223.7393	2850053.	-26.3648	4308.	0.00
0.6000	0.00115	55.3634	84.3506	-3.43E-04	326.3468	2850053.	-26.8420	4648.	0.00
0.8000	0.00109	71.6967	78.9398	-3.39E-04	422.6253	2850053.	-27.2653	5018.	0.00
1.0000	0.00102	86.9394	73.4500	-3.33E-04	512.4751	2850053.	-27.6333	5421.	0.00
1.2000	9.54E-04	101.0767	67.8921	-3.27E-04	595.8094	2850053.	-27.9451	5862.	0.00
1.4000	8.89E-04	114.0962	62.2776	-3.19E-04	672.5546	2850053.	-28.1996	6345.	0.00
1.6000	8.26E-04	125.9877	56.6181	-3.11E-04	742.6508	2850053.	-28.3956	6876.	0.00
1.8000	7.65E-04	136.7435	50.9254	-3.01E-04	806.0517	2850053.	-28.5320	7462.	0.00
2.0000	7.05E-04	146.3579	45.2114	-2.91E-04	862.7252	2850053.	-28.6080	8111.	0.00
2.2000	6.48E-04	154.8280	39.4883	-2.81E-04	912.6534	2850053.	-28.6224	8832.	0.00
2.4000	5.93E-04	162.1532	33.7687	-2.70E-04	955.8328	2850053.	-28.5742	9637.	0.00
2.6000	5.40E-04	168.3355	28.0650	-2.58E-04	992.2749	2850053.	-28.4623	10537.	0.00
2.8000	4.90E-04	173.3792	22.3903	-2.46E-04	1022.	2850053.	-28.2855	11550.	0.00
3.0000	4.42E-04	177.2916	16.7575	-2.34E-04	1045.	2850053.	-28.0425	12695.	0.00
3.2000	3.96E-04	180.0822	11.1800	-2.21E-04	1062.	2850053.	-27.7321	13997.	0.00
3.4000	3.53E-04	181.7636	5.6715	-2.09E-04	1071.	2850053.	-27.3526	15486.	0.00
3.6000	3.13E-04	182.3508	0.2461	-1.96E-04	1075.	2850053.	-26.9020	17200.	0.00
3.8000	2.75E-04	181.8620	-5.0819	-1.83E-04	1072.	2850053.	-26.3780	19188.	0.00
4.0000	2.40E-04	180.3180	-10.2975	-1.70E-04	1063.	2850053.	-25.7776	21517.	0.00
4.2000	2.07E-04	177.7430	-15.3850	-1.58E-04	1048.	2850053.	-25.0972	24271.	0.00
4.4000	1.76E-04	174.1641	-20.3278	-1.45E-04	1027.	2850053.	-24.3314	27571.	0.00
4.6000	1.49E-04	169.6119	-25.1083	-1.33E-04	999.7987	2850053.	-23.4735	31585.	0.00
4.8000	1.23E-04	164.1207	-29.0054	-1.22E-04	967.4305	2850053.	-15.4968	25166.	0.00
5.0000	1.00E-04	158.0097	-31.8655	-1.10E-04	931.4084	2850053.	-13.1045	26215.	0.00
5.2000	7.90E-05	151.3745	-34.2531	-9.95E-05	892.2965	2850053.	-10.7714	27263.	0.00
5.4000	6.02E-05	144.3085	-36.1821	-8.91E-05	850.6448	2850053.	-8.5193	28312.	0.00
5.6000	4.34E-05	136.9017	-37.6708	-7.92E-05	806.9843	2850053.	-6.3670	29361.	0.00
5.8000	2.85E-05	129.2402	-38.7405	-6.99E-05	761.8227	2850053.	-4.3306	30409.	0.00
6.0000	1.54E-05	121.4055	-39.4159	-6.11E-05	715.6399	2850053.	-2.4234	31458.	0.00
6.2000	4.04E-06	113.4738	-39.7239	-5.29E-05	668.8858	2850053.	-0.6559	32506.	0.00
6.4000	-5.74E-06	105.5159	-39.6931	-4.52E-05	621.9770	2850053.	0.9635	33555.	0.00
6.6000	-1.40E-05	97.5966	-39.3538	-3.81E-05	575.2953	2850053.	2.4293	34604.	0.00
6.8000	-2.10E-05	89.7744	-38.7371	-3.15E-05	529.1865	2850053.	3.7379	35652.	0.00
7.0000	-2.66E-05	82.1017	-37.8745	-2.55E-05	483.9590	2850053.	4.8879	36701.	0.00
7.2000	-3.12E-05	74.6246	-36.7978	-2.00E-05	439.8840	2850053.	5.8799	37749.	0.00
7.4000	-3.46E-05	67.3826	-35.5382	-1.50E-05	397.1954	2850053.	6.7161	38798.	0.00
7.6000	-3.71E-05	60.4093	-34.1265	-1.05E-05	356.0903	2850053.	7.4002	39847.	0.00
7.8000	-3.88E-05	53.7320	-32.5928	-6.49E-06	316.7301	2850053.	7.9374	40895.	0.00
8.0000	-3.97E-05	47.3722	-30.9656	-2.94E-06	279.2414	2850053.	8.3340	41944.	0.00
8.2000	-4.00E-05	41.3457	-29.2725	1.71E-07	243.7178	2850053.	8.5974	42992.	0.00
8.4000	-3.97E-05	35.6632	-27.5392	2.87E-06	210.2213	2850053.	8.7357	44041.	0.00

8.6000	-3.88E-05	30.3301	-25.7898	5.19E-06	178.7845	2850053.	8.7577	45090.	0.00
8.8000	-3.76E-05	25.3473	-24.0468	7.14E-06	149.4127	2850053.	8.6728	46138.	0.00
9.0000	-3.60E-05	20.7114	-22.3304	8.76E-06	122.0858	2850053.	8.4910	47187.	0.00
9.2000	-3.41E-05	16.4151	-20.6591	1.01E-05	96.7609	2850053.	8.2221	48235.	0.00
9.4000	-3.20E-05	12.4477	-19.0492	1.11E-05	73.3747	2850053.	7.8766	49284.	0.00
9.6000	-2.97E-05	8.7954	-17.5151	1.18E-05	51.8457	2850053.	7.4649	50332.	0.00
9.8000	-2.72E-05	5.4417	-16.0689	1.23E-05	32.0768	2850053.	6.9973	51381.	0.00
10.0000	-2.47E-05	2.3679	-14.7207	1.26E-05	13.9578	2850053.	6.4842	52430.	0.00
10.2000	-2.22E-05	-0.4466	-13.4787	1.27E-05	2.6324	2850053.	5.9360	53478.	0.00
10.4000	-1.97E-05	-3.0236	-12.3488	1.25E-05	17.8230	2850053.	5.3629	54527.	0.00
10.6000	-1.72E-05	-5.3861	-11.3350	1.22E-05	31.7490	2850053.	4.7751	55575.	0.00
10.8000	-1.48E-05	-7.5576	-10.4392	1.18E-05	44.5492	2850053.	4.1827	56624.	0.00
11.0000	-1.25E-05	-9.5618	-9.6614	1.12E-05	56.3631	2850053.	3.5955	57673.	0.00
11.2000	-1.03E-05	-11.4221	-8.9995	1.05E-05	67.3293	2850053.	3.0236	58721.	0.00
11.4000	-8.29E-06	-13.1616	-8.4494	9.59E-06	77.5826	2850053.	2.4768	59770.	0.00
11.6000	-6.46E-06	-14.8019	-8.0052	8.61E-06	87.2518	2850053.	1.9651	60818.	0.00
11.8000	-4.84E-06	-16.3637	-4.5387	7.51E-06	96.4577	2850053.	32.7001	1350000.	0.00
12.0000	-3.46E-06	-16.6174	1.0643	6.36E-06	97.9534	2850053.	23.3301	1350000.	0.00
12.2000	-2.30E-06	-15.9379	4.9507	5.22E-06	93.9483	2850053.	15.5343	1350000.	0.00
12.4000	-1.37E-06	-14.6371	7.4290	4.14E-06	86.2804	2850053.	9.2484	1350000.	0.00
12.6000	-6.44E-07	-12.9664	8.7887	3.17E-06	76.4318	2850053.	4.3491	1350000.	0.00
12.8000	-1.00E-07	-11.1216	9.2915	2.33E-06	65.5578	2850053.	0.6782	1350000.	0.00
13.0000	2.87E-07	-9.2498	9.1654	1.61E-06	54.5239	2850053.	-1.9391	1350000.	0.00
13.2000	5.45E-07	-7.4555	8.6035	1.03E-06	43.9472	2850053.	-3.6801	1350000.	0.00
13.4000	6.98E-07	-5.8084	7.7640	5.63E-07	34.2382	2850053.	-4.7148	1350000.	0.00
13.6000	7.70E-07	-4.3499	6.7726	2.06E-07	25.6409	2850053.	-5.1992	1350000.	0.00
13.8000	7.81E-07	-3.0993	5.7255	-5.51E-08	18.2695	2850053.	-5.2716	1350000.	0.00
14.0000	7.48E-07	-2.0597	4.6933	-2.36E-07	12.1411	2850053.	-5.0504	1350000.	0.00
14.2000	6.87E-07	-1.2220	3.7249	-3.51E-07	7.2034	2850053.	-4.6340	1350000.	0.00
14.4000	6.08E-07	-0.5697	2.8513	-4.14E-07	3.3584	2850053.	-4.1019	1350000.	0.00
14.6000	5.21E-07	-0.08152	2.0895	-4.37E-07	0.4805	2850053.	-3.5157	1350000.	0.00
14.8000	4.33E-07	0.2661	1.4457	-4.31E-07	1.5684	2850053.	-2.9219	1350000.	0.00
15.0000	3.49E-07	0.4968	0.9182	-4.04E-07	2.9283	2850053.	-2.3533	1350000.	0.00
15.2000	2.71E-07	0.6334	0.4997	-3.64E-07	3.7334	2850053.	-1.8317	1350000.	0.00
15.4000	2.03E-07	0.6967	0.1796	-3.17E-07	4.1066	2850053.	-1.3701	1350000.	0.00
15.6000	1.44E-07	0.7052	-0.05491	-2.68E-07	4.1568	2850053.	-0.9746	1350000.	0.00
15.8000	9.57E-08	0.6747	-0.2169	-2.20E-07	3.9772	2850053.	-0.6458	1350000.	0.00
16.0000	5.64E-08	0.6184	-0.3196	-1.74E-07	3.6453	2850053.	-0.3809	1350000.	0.00
16.2000	2.59E-08	0.5469	-0.3752	-1.34E-07	3.2235	2850053.	-0.1747	1350000.	0.00
16.4000	3.00E-09	0.4683	-0.3947	-9.80E-08	2.7606	2850053.	-0.02022	1350000.	0.00
16.6000	-1.33E-08	0.3890	-0.3877	-6.79E-08	2.2930	2850053.	0.08987	1350000.	0.00
16.8000	-2.42E-08	0.3132	-0.3624	-4.33E-08	1.8465	2850053.	0.1631	1350000.	0.00
17.0000	-3.06E-08	0.2440	-0.3254	-2.37E-08	1.4385	2850053.	0.2067	1350000.	0.00
17.2000	-3.36E-08	0.1831	-0.2821	-8.72E-09	1.0792	2850053.	0.2271	1350000.	0.00

17.4000	-3.41E-08	0.1312	-0.2363	2.31E-09	0.7734	2850053.	0.2302	1350000.	0.00
17.6000	-3.27E-08	0.08855	-0.1912	1.00E-08	0.5219	2850053.	0.2209	1350000.	0.00
17.8000	-3.01E-08	0.05472	-0.1488	1.50E-08	0.3226	2850053.	0.2032	1350000.	0.00
18.0000	-2.67E-08	0.02902	-0.1105	1.80E-08	0.1711	2850053.	0.1803	1350000.	0.00
18.2000	-2.29E-08	0.01053	-0.07699	1.94E-08	0.06208	2850053.	0.1546	1350000.	0.00
18.4000	-1.90E-08	-0.00177	-0.04873	1.97E-08	0.01046	2850053.	0.1280	1350000.	0.00
18.6000	-1.50E-08	-0.00896	-0.02579	1.93E-08	0.05282	2850053.	0.1015	1350000.	0.00
18.8000	-1.12E-08	-0.01209	-0.00806	1.86E-08	0.07126	2850053.	0.07584	1350000.	0.00
19.0000	-7.61E-09	-0.01218	0.00466	1.77E-08	0.07182	2850053.	0.05135	1350000.	0.00
19.2000	-4.15E-09	-0.01022	0.01260	1.69E-08	0.06027	2850053.	0.02802	1350000.	0.00
19.4000	-8.38E-10	-0.00714	0.01597	1.63E-08	0.04211	2850053.	0.00566	1350000.	0.00
19.6000	2.37E-09	-0.00384	0.01493	1.59E-08	0.02262	2850053.	-0.01603	1350000.	0.00
19.8000	5.53E-09	-0.00117	0.00959	1.58E-08	0.00690	2850053.	-0.03735	1350000.	0.00
20.0000	8.68E-09	0.00	0.00	1.57E-08	0.00	2850053.	-0.05857	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 3:

Pile-head deflection = 0.00136340 meters
Computed slope at pile head = -0.00034913 radians
Maximum bending moment = 182.35081112 kN-m
Maximum shear force = 100.00000000 kN
Depth of maximum bending moment = 3.60000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 17
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 4

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 125.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X	Deflect. y	Bending Moment	Shear Force	Slope S	Total Stress	Bending Stiffness	Soil Res. p	Soil Spr. Es*h	Distrib. Lat. Load

meters	meters	kN-m	kN	radians	kPa*	kN-m^2	kN/m	kN/m	kN/m
0.00	0.00205	2.47E-10	125.0000	-4.95E-04	1.46E-09	2850053.	-28.9171	1413.	0.00
0.2000	0.00195	24.4217	119.1470	-4.94E-04	143.9566	2850053.	-29.6126	3040.	0.00
0.4000	0.00185	47.6588	113.1604	-4.92E-04	280.9310	2850053.	-30.2534	3272.	0.00
0.6000	0.00175	69.6858	107.0513	-4.87E-04	410.7720	2850053.	-30.8380	3521.	0.00
0.8000	0.00165	90.4793	100.8310	-4.82E-04	533.3420	2850053.	-31.3653	3792.	0.00
1.0000	0.00156	110.0182	94.5111	-4.75E-04	648.5165	2850053.	-31.8339	4084.	0.00
1.2000	0.00146	128.2838	88.1034	-4.66E-04	756.1850	2850053.	-32.2427	4403.	0.00
1.4000	0.00137	145.2596	81.6201	-4.57E-04	856.2511	2850053.	-32.5904	4750.	0.00
1.6000	0.00128	160.9318	75.0735	-4.46E-04	948.6330	2850053.	-32.8759	5129.	0.00
1.8000	0.00119	175.2890	68.4760	-4.34E-04	1033.	2850053.	-33.0982	5545.	0.00
2.0000	0.00111	188.3222	61.8406	-4.22E-04	1110.	2850053.	-33.2560	6002.	0.00
2.2000	0.00103	200.0252	55.1802	-4.08E-04	1179.	2850053.	-33.3484	6506.	0.00
2.4000	9.45E-04	210.3943	48.5079	-3.94E-04	1240.	2850053.	-33.3741	7064.	0.00
2.6000	8.68E-04	219.4284	41.8373	-3.78E-04	1293.	2850053.	-33.3321	7683.	0.00
2.8000	7.94E-04	227.1292	35.1820	-3.63E-04	1339.	2850053.	-33.2213	8372.	0.00
3.0000	7.23E-04	233.5012	28.5558	-3.47E-04	1376.	2850053.	-33.0403	9144.	0.00
3.2000	6.55E-04	238.5515	21.9730	-3.30E-04	1406.	2850053.	-32.7880	10012.	0.00
3.4000	5.91E-04	242.2904	15.4479	-3.13E-04	1428.	2850053.	-32.4630	10993.	0.00
3.6000	5.30E-04	244.7307	8.9952	-2.96E-04	1443.	2850053.	-32.0635	12107.	0.00
3.8000	4.72E-04	245.8885	2.6301	-2.79E-04	1449.	2850053.	-31.5878	13379.	0.00
4.0000	4.18E-04	245.7827	-3.6321	-2.62E-04	1449.	2850053.	-31.0338	14844.	0.00
4.2000	3.68E-04	244.4356	-9.7753	-2.44E-04	1441.	2850053.	-30.3987	16542.	0.00
4.4000	3.20E-04	241.8726	-15.7831	-2.27E-04	1426.	2850053.	-29.6792	18528.	0.00
4.6000	2.77E-04	238.1224	-21.6381	-2.11E-04	1404.	2850053.	-28.8711	20876.	0.00
4.8000	2.36E-04	233.2173	-27.4970	-1.94E-04	1375.	2850053.	-29.7178	25166.	0.00
5.0000	1.99E-04	227.1236	-33.0774	-1.78E-04	1339.	2850053.	-26.0857	26215.	0.00
5.2000	1.65E-04	219.9864	-37.9358	-1.62E-04	1297.	2850053.	-22.4985	27263.	0.00
5.4000	1.34E-04	211.9493	-42.0849	-1.47E-04	1249.	2850053.	-18.9922	28312.	0.00
5.6000	1.06E-04	203.1524	-45.5440	-1.32E-04	1198.	2850053.	-15.5987	29361.	0.00
5.8000	8.12E-05	193.7317	-48.3384	-1.18E-04	1142.	2850053.	-12.3461	30409.	0.00
6.0000	5.89E-05	183.8171	-50.4989	-1.05E-04	1084.	2850053.	-9.2585	31458.	0.00
6.2000	3.91E-05	173.5321	-52.0603	-9.27E-05	1023.	2850053.	-6.3559	32506.	0.00
6.4000	2.18E-05	162.9929	-53.0614	-8.09E-05	960.7826	2850053.	-3.6547	33555.	0.00
6.6000	6.75E-06	152.3076	-53.5436	-6.98E-05	897.7963	2850053.	-1.1678	34604.	0.00
6.8000	-6.15E-06	141.5755	-53.5508	-5.95E-05	834.5347	2850053.	1.0958	35652.	0.00
7.0000	-1.71E-05	130.8872	-53.1283	-5.00E-05	771.5314	2850053.	3.1300	36701.	0.00
7.2000	-2.61E-05	120.3242	-52.3221	-4.11E-05	709.2662	2850053.	4.9319	37749.	0.00
7.4000	-3.35E-05	109.9584	-51.1787	-3.31E-05	648.1638	2850053.	6.5013	38798.	0.00
7.6000	-3.94E-05	99.8527	-49.7446	-2.57E-05	588.5943	2850053.	7.8406	39847.	0.00
7.8000	-4.38E-05	90.0606	-48.0650	-1.90E-05	530.8735	2850053.	8.9547	40895.	0.00
8.0000	-4.70E-05	80.6267	-46.1845	-1.30E-05	475.2642	2850053.	9.8502	41944.	0.00
8.2000	-4.90E-05	71.5868	-44.1459	-7.71E-06	421.9773	2850053.	10.5358	42992.	0.00

8.4000	-5.01E-05	62.9683	-41.9902	-2.99E-06	371.1747	2850053.	11.0216	44041.	0.00
8.6000	-5.02E-05	54.7907	-39.7561	1.15E-06	322.9707	2850053.	11.3190	45090.	0.00
8.8000	-4.96E-05	47.0658	-37.4802	4.72E-06	277.4356	2850053.	11.4406	46138.	0.00
9.0000	-4.83E-05	39.7986	-35.1961	7.77E-06	234.5981	2850053.	11.4000	47187.	0.00
9.2000	-4.65E-05	32.9874	-32.9350	1.03E-05	194.4485	2850053.	11.2113	48235.	0.00
9.4000	-4.42E-05	26.6246	-30.7249	1.24E-05	156.9423	2850053.	10.8893	49284.	0.00
9.6000	-4.15E-05	20.6974	-28.5911	1.41E-05	122.0037	2850053.	10.4492	50332.	0.00
9.8000	-3.86E-05	15.1882	-26.5555	1.53E-05	89.5288	2850053.	9.9064	51381.	0.00
10.0000	-3.54E-05	10.0752	-24.6372	1.62E-05	59.3897	2850053.	9.2768	52430.	0.00
10.2000	-3.21E-05	5.3333	-22.8519	1.68E-05	31.4380	2850053.	8.5760	53478.	0.00
10.4000	-2.87E-05	0.9345	-21.2123	1.70E-05	5.5083	2850053.	7.8201	54527.	0.00
10.6000	-2.53E-05	-3.1516	-19.7278	1.69E-05	18.5775	2850053.	7.0250	55575.	0.00
10.8000	-2.19E-05	-6.9567	-18.4046	1.65E-05	41.0069	2850053.	6.2067	56624.	0.00
11.0000	-1.87E-05	-10.5134	-17.2458	1.59E-05	61.9729	2850053.	5.3814	57673.	0.00
11.2000	-1.55E-05	-13.8550	-16.2511	1.51E-05	81.6700	2850053.	4.5653	58721.	0.00
11.4000	-1.26E-05	-17.0139	-15.4172	1.40E-05	100.2906	2850053.	3.7745	59770.	0.00
11.6000	-9.95E-06	-20.0218	-14.7371	1.27E-05	118.0213	2850053.	3.0258	60818.	0.00
11.8000	-7.55E-06	-22.9088	-9.3373	1.12E-05	135.0386	2850053.	50.9729	1350000.	0.00
12.0000	-5.47E-06	-23.7567	-0.5449	9.55E-06	140.0372	2850053.	36.9509	1350000.	0.00
12.2000	-3.73E-06	-23.1267	5.6682	7.91E-06	136.3233	2850053.	25.1795	1350000.	0.00
12.4000	-2.31E-06	-21.4895	9.7460	6.34E-06	126.6725	2850053.	15.5990	1350000.	0.00
12.6000	-1.19E-06	-19.2283	12.1113	4.91E-06	113.3437	2850053.	8.0543	1350000.	0.00
12.8000	-3.45E-07	-16.6449	13.1499	3.66E-06	98.1158	2850053.	2.3312	1350000.	0.00
13.0000	2.69E-07	-13.9683	13.2015	2.58E-06	82.3382	2850053.	-1.8150	1350000.	0.00
13.2000	6.87E-07	-11.3643	12.5562	1.69E-06	66.9886	2850053.	-4.6380	1350000.	0.00
13.4000	9.46E-07	-8.9459	11.4540	9.80E-07	52.7325	2850053.	-6.3843	1350000.	0.00
13.6000	1.08E-06	-6.7828	10.0872	4.28E-07	39.9818	2850053.	-7.2832	1350000.	0.00
13.8000	1.12E-06	-4.9110	8.6049	1.75E-08	28.9484	2850053.	-7.5395	1350000.	0.00
14.0000	1.09E-06	-3.3408	7.1179	-2.72E-07	19.6927	2850053.	-7.3305	1350000.	0.00
14.2000	1.01E-06	-2.0638	5.7044	-4.62E-07	12.1654	2850053.	-6.8051	1350000.	0.00
14.4000	9.01E-07	-1.0590	4.4155	-5.71E-07	6.2426	2850053.	-6.0841	1350000.	0.00
14.6000	7.80E-07	-0.2976	3.2808	-6.19E-07	1.7544	2850053.	-5.2629	1350000.	0.00
14.8000	6.54E-07	0.2533	2.3131	-6.20E-07	1.4929	2850053.	-4.4134	1350000.	0.00
15.0000	5.32E-07	0.6276	1.5130	-5.89E-07	3.6996	2850053.	-3.5879	1350000.	0.00
15.2000	4.18E-07	0.8585	0.8720	-5.37E-07	5.0603	2850053.	-2.8219	1350000.	0.00
15.4000	3.17E-07	0.9764	0.3761	-4.73E-07	5.7557	2850053.	-2.1372	1350000.	0.00
15.6000	2.29E-07	1.0089	0.00791	-4.03E-07	5.9472	2850053.	-1.5450	1350000.	0.00
15.8000	1.55E-07	0.9796	-0.2514	-3.33E-07	5.7744	2850053.	-1.0483	1350000.	0.00
16.0000	9.55E-08	0.9083	-0.4207	-2.67E-07	5.3544	2850053.	-0.6445	1350000.	0.00
16.2000	4.84E-08	0.8113	-0.5178	-2.07E-07	4.7824	2850053.	-0.3268	1350000.	0.00
16.4000	1.27E-08	0.7012	-0.5591	-1.54E-07	4.1334	2850053.	-0.08587	1350000.	0.00
16.6000	-1.31E-08	0.5877	-0.5588	-1.09E-07	3.4641	2850053.	0.08861	1350000.	0.00
16.8000	-3.07E-08	0.4777	-0.5292	-7.12E-08	2.8157	2850053.	0.2074	1350000.	0.00
17.0000	-4.16E-08	0.3760	-0.4804	-4.13E-08	2.2163	2850053.	0.2810	1350000.	0.00

17.2000	-4.72E-08	0.2855	-0.4204	-1.81E-08	1.6830	2850053.	0.3189	1350000.	0.00
17.4000	-4.89E-08	0.2078	-0.3555	-7.68E-10	1.2250	2850053.	0.3298	1350000.	0.00
17.6000	-4.75E-08	0.1433	-0.2905	1.16E-08	0.8447	2850053.	0.3210	1350000.	0.00
17.8000	-4.42E-08	0.09163	-0.2285	1.98E-08	0.5401	2850053.	0.2986	1350000.	0.00
18.0000	-3.96E-08	0.05190	-0.1719	2.48E-08	0.3059	2850053.	0.2675	1350000.	0.00
18.2000	-3.43E-08	0.02286	-0.1220	2.75E-08	0.1348	2850053.	0.2315	1350000.	0.00
18.4000	-2.86E-08	0.00309	-0.07952	2.84E-08	0.01824	2850053.	0.1934	1350000.	0.00
18.6000	-2.30E-08	-0.00894	-0.04468	2.82E-08	0.05271	2850053.	0.1549	1350000.	0.00
18.8000	-1.74E-08	-0.01478	-0.01745	2.73E-08	0.08712	2850053.	0.1174	1350000.	0.00
19.0000	-1.20E-08	-0.01592	0.00240	2.63E-08	0.09386	2850053.	0.08116	1350000.	0.00
19.2000	-6.89E-09	-0.01382	0.01516	2.52E-08	0.08146	2850053.	0.04647	1350000.	0.00
19.4000	-1.94E-09	-0.00986	0.02112	2.44E-08	0.05811	2850053.	0.01310	1350000.	0.00
19.6000	2.87E-09	-0.00537	0.02049	2.38E-08	0.03167	2850053.	-0.01934	1350000.	0.00
19.8000	7.60E-09	-0.00166	0.01343	2.36E-08	0.00979	2850053.	-0.05127	1350000.	0.00
20.0000	1.23E-08	0.00	0.00	2.35E-08	0.00	2850053.	-0.08305	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 4:

Pile-head deflection = 0.00204712 meters
Computed slope at pile head = -0.00049495 radians
Maximum bending moment = 245.88845334 kN-m
Maximum shear force = 125.00000000 kN
Depth of maximum bending moment = 3.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 16
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 5

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 150.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth	Deflect.	Bending	Shear	Slope	Total	Bending	Soil Res.	Soil Spr.	Distrib.

X	y	Moment	Force	S	Stress	Stiffness	p	Es*h	Lat. Load
meters	meters	kN-m	kN	radians	kPa*	kN-m^2	kN/m	kN/m	kN/m
0.00	0.00281	-9.27E-10	150.0000	-6.55E-04	5.46E-09	2850053.	-32.1545	1142.	0.00
0.2000	0.00268	29.3569	143.4896	-6.54E-04	173.0480	2850053.	-32.9492	2455.	0.00
0.4000	0.00255	57.3959	136.8261	-6.51E-04	338.3272	2850053.	-33.6859	2639.	0.00
0.6000	0.00242	84.0874	130.0212	-6.46E-04	495.6637	2850053.	-34.3632	2836.	0.00
0.8000	0.00230	109.4043	123.0869	-6.39E-04	644.8979	2850053.	-34.9797	3048.	0.00
1.0000	0.00217	133.3221	116.0356	-6.30E-04	785.8844	2850053.	-35.5341	3278.	0.00
1.2000	0.00204	155.8186	108.8797	-6.20E-04	918.4924	2850053.	-36.0250	3527.	0.00
1.4000	0.00192	176.8740	101.6320	-6.08E-04	1043.	2850053.	-36.4512	3797.	0.00
1.6000	0.00180	196.4714	94.3058	-5.95E-04	1158.	2850053.	-36.8113	4091.	0.00
1.8000	0.00168	214.5963	86.9143	-5.81E-04	1265.	2850053.	-37.1042	4412.	0.00
2.0000	0.00157	231.2371	79.4710	-5.65E-04	1363.	2850053.	-37.3286	4763.	0.00
2.2000	0.00146	246.3847	71.9898	-5.49E-04	1452.	2850053.	-37.4832	5149.	0.00
2.4000	0.00135	260.0330	64.4848	-5.31E-04	1533.	2850053.	-37.5669	5574.	0.00
2.6000	0.00124	272.1786	56.9702	-5.12E-04	1604.	2850053.	-37.5785	6044.	0.00
2.8000	0.00114	282.8211	49.4607	-4.93E-04	1667.	2850053.	-37.5165	6564.	0.00
3.0000	0.00105	291.9629	41.9711	-4.72E-04	1721.	2850053.	-37.3798	7144.	0.00
3.2000	9.54E-04	299.6095	34.5164	-4.52E-04	1766.	2850053.	-37.1669	7791.	0.00
3.4000	8.66E-04	305.7695	27.1121	-4.30E-04	1802.	2850053.	-36.8764	8518.	0.00
3.6000	7.82E-04	310.4544	19.7738	-4.09E-04	1830.	2850053.	-36.5067	9338.	0.00
3.8000	7.02E-04	313.6790	12.5175	-3.87E-04	1849.	2850053.	-36.0559	10267.	0.00
4.0000	6.27E-04	315.4614	5.3598	-3.65E-04	1860.	2850053.	-35.5220	11328.	0.00
4.2000	5.56E-04	315.8229	-1.6827	-3.43E-04	1862.	2850053.	-34.9027	12546.	0.00
4.4000	4.90E-04	314.7883	-8.5925	-3.21E-04	1856.	2850053.	-34.1952	13955.	0.00
4.6000	4.28E-04	312.3859	-15.3516	-2.99E-04	1841.	2850053.	-33.3960	15599.	0.00
4.8000	3.71E-04	308.6477	-23.3554	-2.77E-04	1819.	2850053.	-46.6420	25166.	0.00
5.0000	3.17E-04	303.0437	-32.1811	-2.55E-04	1786.	2850053.	-41.6142	26215.	0.00
5.2000	2.69E-04	295.7752	-40.0033	-2.34E-04	1743.	2850053.	-36.6085	27263.	0.00
5.4000	2.24E-04	287.0424	-46.8319	-2.14E-04	1692.	2850053.	-31.6773	28312.	0.00
5.6000	1.83E-04	277.0425	-52.6864	-1.94E-04	1633.	2850053.	-26.8679	29361.	0.00
5.8000	1.46E-04	265.9678	-57.5955	-1.75E-04	1568.	2850053.	-22.2225	30409.	0.00
6.0000	1.13E-04	254.0043	-61.5955	-1.57E-04	1497.	2850053.	-17.7775	31458.	0.00
6.2000	8.35E-05	241.3296	-64.7297	-1.39E-04	1423.	2850053.	-13.5646	32506.	0.00
6.4000	5.73E-05	228.1124	-67.0471	-1.23E-04	1345.	2850053.	-9.6099	33555.	0.00
6.6000	3.43E-05	214.5108	-68.6016	-1.07E-04	1264.	2850053.	-5.9346	34604.	0.00
6.8000	1.43E-05	200.6718	-69.4506	-9.28E-05	1183.	2850053.	-2.5551	35652.	0.00
7.0000	-2.82E-06	186.7305	-69.6544	-7.92E-05	1101.	2850053.	0.5171	36701.	0.00
7.2000	-1.73E-05	172.8100	-69.2752	-6.66E-05	1019.	2850053.	3.2744	37749.	0.00
7.4000	-2.95E-05	159.0204	-68.3764	-5.49E-05	937.3663	2850053.	5.7135	38798.	0.00
7.6000	-3.93E-05	145.4594	-67.0216	-4.43E-05	857.4292	2850053.	7.8350	39847.	0.00
7.8000	-4.72E-05	132.2118	-65.2738	-3.45E-05	779.3394	2850053.	9.6425	40895.	0.00
8.0000	-5.31E-05	119.3499	-63.1953	-2.57E-05	703.5232	2850053.	11.1431	41944.	0.00

8.2000	-5.74E-05	106.9337	-60.8464	-1.78E-05	630.3343	2850053.	12.3462	42992.	0.00
8.4000	-6.02E-05	95.0114	-58.2853	-1.07E-05	560.0565	2850053.	13.2639	44041.	0.00
8.6000	-6.17E-05	83.6196	-55.5679	-4.40E-06	492.9062	2850053.	13.9104	45090.	0.00
8.8000	-6.20E-05	72.7842	-52.7467	1.09E-06	429.0357	2850053.	14.3015	46138.	0.00
9.0000	-6.13E-05	62.5209	-49.8711	5.84E-06	368.5372	2850053.	14.4546	47187.	0.00
9.2000	-5.97E-05	52.8357	-46.9868	9.88E-06	311.4470	2850053.	14.3885	48235.	0.00
9.4000	-5.73E-05	43.7261	-44.1357	1.33E-05	257.7493	2850053.	14.1229	49284.	0.00
9.6000	-5.44E-05	35.1815	-41.3556	1.60E-05	207.3816	2850053.	13.6782	50332.	0.00
9.8000	-5.09E-05	27.1839	-38.6802	1.82E-05	160.2391	2850053.	13.0755	51381.	0.00
10.0000	-4.71E-05	19.7094	-36.1390	1.99E-05	116.1795	2850053.	12.3367	52430.	0.00
10.2000	-4.29E-05	12.7283	-33.7569	2.10E-05	75.0287	2850053.	11.4836	53478.	0.00
10.4000	-3.87E-05	6.2066	-31.5547	2.17E-05	36.5857	2850053.	10.5387	54527.	0.00
10.6000	-3.43E-05	0.1064	-29.5484	2.19E-05	0.6275	2850053.	9.5246	55575.	0.00
10.8000	-2.99E-05	-5.6127	-27.7495	2.17E-05	33.0850	2850053.	8.4642	56624.	0.00
11.0000	-2.56E-05	-10.9933	-26.1650	2.11E-05	64.8017	2850053.	7.3806	57673.	0.00
11.2000	-2.14E-05	-16.0787	-24.7972	2.02E-05	94.7782	2850053.	6.2971	58721.	0.00
11.4000	-1.75E-05	-20.9122	-23.6438	1.89E-05	123.2699	2850053.	5.2376	59770.	0.00
11.6000	-1.39E-05	-25.5362	-22.6974	1.72E-05	150.5267	2850053.	4.2262	60818.	0.00
11.8000	-1.06E-05	-29.9912	-15.1008	1.53E-05	176.7870	2850053.	71.7400	1350000.	0.00
12.0000	-7.78E-06	-31.5766	-2.6757	1.31E-05	186.1320	2850053.	52.5111	1350000.	0.00
12.2000	-5.37E-06	-31.0615	6.2028	1.09E-05	183.0958	2850053.	36.2735	1350000.	0.00
12.4000	-3.40E-06	-29.0954	12.1280	8.83E-06	171.5068	2850053.	22.9785	1350000.	0.00
12.6000	-1.84E-06	-26.2103	15.6698	6.89E-06	154.4997	2850053.	12.4399	1350000.	0.00
12.8000	-6.50E-07	-22.8275	17.3523	5.17E-06	134.5596	2850053.	4.3844	1350000.	0.00
13.0000	2.24E-07	-19.2694	17.6398	3.69E-06	113.5857	2850053.	-1.5086	1350000.	0.00
13.2000	8.26E-07	-15.7716	16.9314	2.46E-06	92.9675	2850053.	-5.5762	1350000.	0.00
13.4000	1.21E-06	-12.4968	15.5588	1.47E-06	73.6640	2850053.	-8.1496	1350000.	0.00
13.6000	1.41E-06	-9.5480	13.7899	6.94E-07	56.2822	2850053.	-9.5391	1350000.	0.00
13.8000	1.49E-06	-6.9808	11.8336	1.14E-07	41.1494	2850053.	-10.0241	1350000.	0.00
14.0000	1.46E-06	-4.8146	9.8464	-3.00E-07	28.3802	2850053.	-9.8477	1350000.	0.00
14.2000	1.37E-06	-3.0423	7.9401	-5.75E-07	17.9330	2850053.	-9.2152	1350000.	0.00
14.4000	1.23E-06	-1.6385	6.1892	-7.39E-07	9.6586	2850053.	-8.2946	1350000.	0.00
14.6000	1.07E-06	-0.5666	4.6378	-8.17E-07	3.3399	2850053.	-7.2187	1350000.	0.00
14.8000	9.02E-07	0.2166	3.3071	-8.29E-07	1.2768	2850053.	-6.0891	1350000.	0.00
15.0000	7.38E-07	0.7562	2.2001	-7.95E-07	4.4577	2850053.	-4.9800	1350000.	0.00
15.2000	5.84E-07	1.0967	1.3079	-7.30E-07	6.4644	2850053.	-3.9426	1350000.	0.00
15.4000	4.46E-07	1.2794	0.6127	-6.47E-07	7.5415	2850053.	-3.0091	1350000.	0.00
15.6000	3.25E-07	1.3417	0.09212	-5.55E-07	7.9091	2850053.	-2.1968	1350000.	0.00
15.8000	2.24E-07	1.3162	-0.2787	-4.61E-07	7.7587	2850053.	-1.5116	1350000.	0.00
16.0000	1.41E-07	1.2303	-0.5250	-3.72E-07	7.2519	2850053.	-0.9511	1350000.	0.00
16.2000	7.51E-08	1.1062	-0.6708	-2.90E-07	6.5208	2850053.	-0.5071	1350000.	0.00
16.4000	2.49E-08	0.9619	-0.7383	-2.17E-07	5.6702	2850053.	-0.1679	1350000.	0.00
16.6000	-1.19E-08	0.8109	-0.7471	-1.55E-07	4.7800	2850053.	0.08012	1350000.	0.00
16.8000	-3.72E-08	0.6631	-0.7139	-1.04E-07	3.9087	2850053.	0.2513	1350000.	0.00

17.0000	-5.33E-08	0.5253	-0.6528	-6.19E-08	3.0967	2850053.	0.3597	1350000.	0.00
17.2000	-6.20E-08	0.4020	-0.5750	-2.93E-08	2.3695	2850053.	0.4184	1350000.	0.00
17.4000	-6.50E-08	0.2953	-0.4893	-4.86E-09	1.7409	2850053.	0.4389	1350000.	0.00
17.6000	-6.39E-08	0.2063	-0.4022	1.27E-08	1.2158	2850053.	0.4315	1350000.	0.00
17.8000	-5.99E-08	0.1344	-0.3186	2.47E-08	0.7925	2850053.	0.4045	1350000.	0.00
18.0000	-5.40E-08	0.07881	-0.2417	3.22E-08	0.4645	2850053.	0.3648	1350000.	0.00
18.2000	-4.71E-08	0.03777	-0.1734	3.63E-08	0.2226	2850053.	0.3177	1350000.	0.00
18.4000	-3.95E-08	0.00943	-0.1150	3.79E-08	0.05559	2850053.	0.2669	1350000.	0.00
18.6000	-3.19E-08	-0.00823	-0.06677	3.80E-08	0.04851	2850053.	0.2153	1350000.	0.00
18.8000	-2.44E-08	-0.01728	-0.02880	3.71E-08	0.1019	2850053.	0.1644	1350000.	0.00
19.0000	-1.71E-08	-0.01975	-8.45E-04	3.58E-08	0.1164	2850053.	0.1152	1350000.	0.00
19.2000	-1.00E-08	-0.01762	0.01746	3.45E-08	0.1038	2850053.	0.06783	1350000.	0.00
19.4000	-3.28E-09	-0.01277	0.02645	3.34E-08	0.07527	2850053.	0.02214	1350000.	0.00
19.6000	3.31E-09	-0.00704	0.02643	3.27E-08	0.04147	2850053.	-0.02233	1350000.	0.00
19.8000	9.80E-09	-0.00219	0.01759	3.24E-08	0.01294	2850053.	-0.06614	1350000.	0.00
20.0000	1.63E-08	0.00	0.00	3.23E-08	0.00	2850053.	-0.1097	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 5:

Pile-head deflection = 0.00281477 meters
Computed slope at pile head = -0.00065459 radians
Maximum bending moment = 315.82291277 kN-m
Maximum shear force = 150.00000000 kN
Depth of maximum bending moment = 4.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 16
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 6

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 200.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00453	-3.09E-10	200.0000	-0.00100	1.82E-09	2850053.	-37.6802	831.8463	0.00
0.2000	0.00433	39.2464	192.3679	-0.00100	231.3429	2850053.	-38.6411	1785.	0.00
0.4000	0.00413	76.9472	184.5500	-9.98E-04	453.5748	2850053.	-39.5381	1915.	0.00
0.6000	0.00393	113.0664	176.5592	-9.91E-04	666.4842	2850053.	-40.3695	2055.	0.00
0.8000	0.00373	147.5708	168.4089	-9.82E-04	869.8751	2850053.	-41.1339	2204.	0.00
1.0000	0.00354	180.4299	160.1125	-9.71E-04	1064.	2850053.	-41.8295	2365.	0.00
1.2000	0.00334	211.6158	151.6841	-9.57E-04	1247.	2850053.	-42.4549	2539.	0.00
1.4000	0.00315	241.1036	143.1377	-9.41E-04	1421.	2850053.	-43.0085	2727.	0.00
1.6000	0.00297	268.8709	134.4880	-9.23E-04	1585.	2850053.	-43.4887	2931.	0.00
1.8000	0.00278	294.8988	125.7497	-9.03E-04	1738.	2850053.	-43.8942	3152.	0.00
2.0000	0.00261	319.1708	116.9380	-8.82E-04	1881.	2850053.	-44.2233	3394.	0.00
2.2000	0.00243	341.6740	108.0682	-8.59E-04	2014.	2850053.	-44.4745	3657.	0.00
2.4000	0.00226	362.3981	99.1561	-8.34E-04	2136.	2850053.	-44.6464	3946.	0.00
2.6000	0.00210	381.3364	90.2177	-8.08E-04	2248.	2850053.	-44.7374	4264.	0.00
2.8000	0.00194	398.4852	81.2694	-7.81E-04	2349.	2850053.	-44.7459	4614.	0.00
3.0000	0.00179	413.8442	72.3278	-7.52E-04	2439.	2850053.	-44.6703	5002.	0.00
3.2000	0.00164	427.4163	63.4099	-7.23E-04	2519.	2850053.	-44.5089	5432.	0.00
3.4000	0.00150	439.2081	54.5330	-6.92E-04	2589.	2850053.	-44.2600	5913.	0.00
3.6000	0.00136	449.2295	45.7148	-6.61E-04	2648.	2850053.	-43.9217	6451.	0.00
3.8000	0.00123	457.4940	36.9734	-6.29E-04	2697.	2850053.	-43.4920	7056.	0.00
4.0000	0.00111	464.0189	28.3273	-5.97E-04	2735.	2850053.	-42.9688	7741.	0.00
4.2000	9.94E-04	468.8249	19.7955	-5.64E-04	2764.	2850053.	-42.3498	8521.	0.00
4.4000	8.85E-04	471.9370	11.3973	-5.31E-04	2782.	2850053.	-41.6322	9414.	0.00
4.6000	7.82E-04	473.3838	3.1527	-4.98E-04	2790.	2850053.	-40.8131	10444.	0.00
4.8000	6.85E-04	473.1981	-9.5523	-4.65E-04	2789.	2850053.	-86.2370	25166.	0.00
5.0000	5.96E-04	469.5629	-25.9843	-4.32E-04	2768.	2850053.	-78.0837	26215.	0.00
5.2000	5.13E-04	462.8044	-40.7816	-3.99E-04	2728.	2850053.	-69.8889	27263.	0.00
5.4000	4.36E-04	453.2503	-53.9448	-3.67E-04	2672.	2850053.	-61.7430	28312.	0.00
5.6000	3.66E-04	441.2265	-65.4920	-3.35E-04	2601.	2850053.	-53.7285	29361.	0.00
5.8000	3.02E-04	427.0535	-75.4568	-3.05E-04	2517.	2850053.	-45.9197	30409.	0.00
6.0000	2.44E-04	411.0438	-83.8870	-2.76E-04	2423.	2850053.	-38.3828	31458.	0.00
6.2000	1.92E-04	393.4987	-90.8428	-2.47E-04	2320.	2850053.	-31.1754	32506.	0.00
6.4000	1.45E-04	374.7066	-96.3951	-2.20E-04	2209.	2850053.	-24.3471	33555.	0.00
6.6000	1.04E-04	354.9407	-100.6237	-1.95E-04	2092.	2850053.	-17.9391	34604.	0.00
6.8000	6.72E-05	334.4571	-103.6161	-1.71E-04	1972.	2850053.	-11.9846	35652.	0.00
7.0000	3.55E-05	313.4942	-105.4655	-1.48E-04	1848.	2850053.	-6.5093	36701.	0.00
7.2000	8.11E-06	292.2710	-106.2695	-1.27E-04	1723.	2850053.	-1.5313	37749.	0.00
7.4000	-1.51E-05	270.9864	-106.1289	-1.07E-04	1597.	2850053.	2.9377	38798.	0.00
7.6000	-3.46E-05	249.8194	-105.1458	-8.85E-05	1473.	2850053.	6.8929	39847.	0.00
7.8000	-5.05E-05	228.9281	-103.4230	-7.17E-05	1349.	2850053.	10.3352	40895.	0.00

8.0000	-6.33E-05	208.4502	-101.0624	-5.64E-05	1229.	2850053.	13.2708	41944.	0.00
8.2000	-7.31E-05	188.5031	-98.1642	-4.24E-05	1111.	2850053.	15.7112	42992.	0.00
8.4000	-8.03E-05	169.1845	-94.8259	-2.99E-05	997.2796	2850053.	17.6718	44041.	0.00
8.6000	-8.50E-05	150.5727	-91.1415	-1.87E-05	887.5703	2850053.	19.1722	45090.	0.00
8.8000	-8.77E-05	132.7279	-87.2008	-8.72E-06	782.3814	2850053.	20.2353	46138.	0.00
9.0000	-8.85E-05	115.6924	-83.0886	-4.61E-09	681.9638	2850053.	20.8869	47187.	0.00
9.2000	-8.77E-05	99.4925	-78.8843	7.55E-06	586.4709	2850053.	21.1555	48235.	0.00
9.4000	-8.55E-05	84.1387	-74.6616	1.40E-05	495.9662	2850053.	21.0715	49284.	0.00
9.6000	-8.21E-05	69.6278	-70.4878	1.94E-05	410.4299	2850053.	20.6671	50332.	0.00
9.8000	-7.78E-05	55.9436	-66.4235	2.38E-05	329.7665	2850053.	19.9762	51381.	0.00
10.0000	-7.26E-05	43.0584	-62.5225	2.73E-05	253.8133	2850053.	19.0337	52430.	0.00
10.2000	-6.69E-05	30.9346	-58.8316	2.99E-05	182.3479	2850053.	17.8755	53478.	0.00
10.4000	-6.07E-05	19.5258	-55.3901	3.16E-05	115.0972	2850053.	16.5387	54527.	0.00
10.6000	-5.42E-05	8.7785	-52.2302	3.26E-05	51.7462	2850053.	15.0608	55575.	0.00
10.8000	-4.76E-05	-1.3663	-49.3761	3.29E-05	8.0538	2850053.	13.4803	56624.	0.00
11.0000	-4.10E-05	-10.9719	-46.8444	3.25E-05	64.6752	2850053.	11.8362	57673.	0.00
11.2000	-3.46E-05	-20.1041	-44.6440	3.14E-05	118.5059	2850053.	10.1685	58721.	0.00
11.4000	-2.85E-05	-28.8295	-42.7753	2.96E-05	169.9390	2850053.	8.5178	59770.	0.00
11.6000	-2.28E-05	-37.2142	-41.2310	2.73E-05	219.3638	2850053.	6.9259	60818.	0.00
11.8000	-1.76E-05	-45.3219	-28.6774	2.44E-05	267.1555	2850053.	118.6093	1350000.	0.00
12.0000	-1.30E-05	-48.6852	-8.0389	2.11E-05	286.9809	2850053.	87.7756	1350000.	0.00
12.2000	-9.12E-06	-48.5374	6.8940	1.77E-05	286.1101	2850053.	61.5541	1350000.	0.00
12.4000	-5.92E-06	-45.9275	17.0425	1.44E-05	270.7258	2850053.	39.9309	1350000.	0.00
12.6000	-3.36E-06	-41.7204	23.3015	1.13E-05	245.9264	2850053.	22.6585	1350000.	0.00
12.8000	-1.38E-06	-36.6070	26.5012	8.58E-06	215.7844	2850053.	9.3386	1350000.	0.00
13.0000	7.61E-08	-31.1200	27.3837	6.21E-06	183.4405	2850053.	-0.5134	1350000.	0.00
13.2000	1.10E-06	-25.6535	26.5906	4.21E-06	151.2177	2850053.	-7.4172	1350000.	0.00
13.4000	1.76E-06	-20.4837	24.6598	2.60E-06	120.7437	2850053.	-11.8908	1350000.	0.00
13.6000	2.14E-06	-15.7895	22.0284	1.32E-06	93.0735	2850053.	-14.4238	1350000.	0.00
13.8000	2.29E-06	-11.6723	19.0399	3.59E-07	68.8041	2850053.	-15.4610	1350000.	0.00
14.0000	2.28E-06	-8.1736	15.9546	-3.38E-07	48.1802	2850053.	-15.3924	1350000.	0.00
14.2000	2.16E-06	-5.2905	12.9604	-8.10E-07	31.1855	2850053.	-14.5495	1350000.	0.00
14.4000	1.96E-06	-2.9894	10.1849	-1.10E-06	17.6215	2850053.	-13.2054	1350000.	0.00
14.6000	1.72E-06	-1.2165	7.7066	-1.25E-06	7.1710	2850053.	-11.5780	1350000.	0.00
14.8000	1.46E-06	0.09322	5.5652	-1.29E-06	0.5495	2850053.	-9.8355	1350000.	0.00
15.0000	1.20E-06	1.0096	3.7715	-1.25E-06	5.9510	2850053.	-8.1018	1350000.	0.00
15.2000	9.58E-07	1.6018	2.3150	-1.16E-06	9.4422	2850053.	-6.4637	1350000.	0.00
15.4000	7.37E-07	1.9355	1.1709	-1.03E-06	11.4093	2850053.	-4.9773	1350000.	0.00
15.6000	5.44E-07	2.0702	0.3057	-8.93E-07	12.2029	2850053.	-3.6744	1350000.	0.00
15.8000	3.80E-07	2.0578	-0.3185	-7.48E-07	12.1301	2850053.	-2.5675	1350000.	0.00
16.0000	2.45E-07	1.9428	-0.7408	-6.07E-07	11.4519	2850053.	-1.6556	1350000.	0.00
16.2000	1.37E-07	1.7615	-0.9992	-4.77E-07	10.3833	2850053.	-0.9278	1350000.	0.00
16.4000	5.43E-08	1.5431	-1.1286	-3.61E-07	9.0960	2850053.	-0.3668	1350000.	0.00
16.6000	-7.12E-09	1.3100	-1.1605	-2.61E-07	7.7222	2850053.	0.04803	1350000.	0.00

16.8000	-5.02E-08	1.0789	-1.1218	-1.77E-07	6.3598	2850053.	0.3387	1350000.	0.00
17.0000	-7.81E-08	0.8613	-1.0352	-1.09E-07	5.0772	2850053.	0.5272	1350000.	0.00
17.2000	-9.39E-08	0.6648	-0.9191	-5.58E-08	3.9189	2850053.	0.6341	1350000.	0.00
17.4000	-1.00E-07	0.4937	-0.7879	-1.52E-08	2.9101	2850053.	0.6780	1350000.	0.00
17.6000	-1.00E-07	0.3497	-0.6526	1.44E-08	2.0612	2850053.	0.6751	1350000.	0.00
17.8000	-9.47E-08	0.2327	-0.5211	3.48E-08	1.3715	2850053.	0.6391	1350000.	0.00
18.0000	-8.61E-08	0.1412	-0.3991	4.79E-08	0.8324	2850053.	0.5811	1350000.	0.00
18.2000	-7.55E-08	0.07302	-0.2900	5.55E-08	0.4304	2850053.	0.5097	1350000.	0.00
18.4000	-6.39E-08	0.02520	-0.1959	5.89E-08	0.1486	2850053.	0.4313	1350000.	0.00
18.6000	-5.19E-08	-0.00536	-0.1178	5.96E-08	0.03159	2850053.	0.3506	1350000.	0.00
18.8000	-4.01E-08	-0.02190	-0.05565	5.86E-08	0.1291	2850053.	0.2704	1350000.	0.00
19.0000	-2.85E-08	-0.02762	-0.00939	5.69E-08	0.1628	2850053.	0.1923	1350000.	0.00
19.2000	-1.73E-08	-0.02565	0.02151	5.50E-08	0.1512	2850053.	0.1167	1350000.	0.00
19.4000	-6.46E-09	-0.01902	0.03755	5.35E-08	0.1121	2850053.	0.04364	1350000.	0.00
19.6000	4.10E-09	-0.01063	0.03914	5.24E-08	0.06268	2850053.	-0.02766	1350000.	0.00
19.8000	1.45E-08	-0.00336	0.02658	5.19E-08	0.01980	2850053.	-0.09794	1350000.	0.00
20.0000	2.49E-08	0.00	0.00	5.18E-08	0.00	2850053.	-0.1679	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 6:

Pile-head deflection = 0.00452970 meters
Computed slope at pile head = -0.00100354 radians
Maximum bending moment = 473.38384855 kN-m
Maximum shear force = 200.00000000 kN
Depth of maximum bending moment = 4.60000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 15
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 7

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 300.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00863	1.98E-09	300.0000	-0.00180	1.17E-08	2850053.	-46.7064	541.3795	0.00
0.2000	0.00827	59.0659	290.5352	-0.00180	348.1713	2850053.	-47.9414	1160.	0.00
0.4000	0.00791	116.2141	280.8308	-0.00179	685.0388	2850053.	-49.1030	1242.	0.00
0.6000	0.00755	171.3982	270.9016	-0.00178	1010.	2850053.	-50.1893	1329.	0.00
0.8000	0.00720	224.5747	260.7628	-0.00177	1324.	2850053.	-51.1984	1423.	0.00
1.0000	0.00685	275.7033	250.4301	-0.00175	1625.	2850053.	-52.1284	1523.	0.00
1.2000	0.00650	324.7468	239.9195	-0.00173	1914.	2850053.	-52.9775	1631.	0.00
1.4000	0.00615	371.6711	229.2474	-0.00170	2191.	2850053.	-53.7437	1746.	0.00
1.6000	0.00582	416.4457	218.4305	-0.00168	2455.	2850053.	-54.4253	1871.	0.00
1.8000	0.00548	459.0433	207.4859	-0.00164	2706.	2850053.	-55.0202	2006.	0.00
2.0000	0.00516	499.4401	196.4312	-0.00161	2944.	2850053.	-55.5268	2153.	0.00
2.2000	0.00484	537.6158	185.2843	-0.00157	3169.	2850053.	-55.9429	2312.	0.00
2.4000	0.00453	573.5538	174.0633	-0.00154	3381.	2850053.	-56.2669	2485.	0.00
2.6000	0.00423	607.2411	162.7869	-0.00149	3579.	2850053.	-56.4966	2674.	0.00
2.8000	0.00393	638.6686	151.4743	-0.00145	3765.	2850053.	-56.6302	2881.	0.00
3.0000	0.00365	667.8308	140.1447	-0.00140	3937.	2850053.	-56.6656	3108.	0.00
3.2000	0.00337	694.7264	128.8180	-0.00136	4095.	2850053.	-56.6008	3359.	0.00
3.4000	0.00310	719.3580	117.5146	-0.00131	4240.	2850053.	-56.4337	3637.	0.00
3.6000	0.00285	741.7323	106.2550	-0.00126	4372.	2850053.	-56.1622	3945.	0.00
3.8000	0.00260	761.8600	95.0604	-0.00120	4491.	2850053.	-55.7839	4289.	0.00
4.0000	0.00237	779.7564	83.9523	-0.00115	4596.	2850053.	-55.2966	4674.	0.00
4.2000	0.00214	795.4409	72.9529	-0.00109	4689.	2850053.	-54.6979	5108.	0.00
4.4000	0.00193	808.9376	62.0846	-0.00104	4768.	2850053.	-53.9853	5598.	0.00
4.6000	0.00173	820.2748	51.3704	-9.80E-04	4835.	2850053.	-53.1562	6156.	0.00
4.8000	0.00154	829.4857	29.6640	-9.22E-04	4890.	2850053.	-163.9080	21333.	0.00
5.0000	0.00136	832.1404	-1.7829	-8.64E-04	4905.	2850053.	-150.5605	22173.	0.00
5.2000	0.00119	828.7726	-30.3751	-8.06E-04	4885.	2850053.	-135.3615	22729.	0.00
5.4000	0.00104	819.9903	-55.7851	-7.48E-04	4834.	2850053.	-118.7392	22927.	0.00
5.6000	8.92E-04	806.4585	-77.7809	-6.91E-04	4754.	2850053.	-101.2181	22695.	0.00
5.8000	7.60E-04	788.8780	-96.7456	-6.35E-04	4650.	2850053.	-88.4295	23286.	0.00
6.0000	6.38E-04	767.7603	-113.8418	-5.80E-04	4526.	2850053.	-82.5322	25868.	0.00
6.2000	5.27E-04	743.3413	-129.6842	-5.27E-04	4382.	2850053.	-75.8917	28776.	0.00
6.4000	4.27E-04	715.8866	-144.1302	-4.76E-04	4220.	2850053.	-68.5680	32096.	0.00
6.6000	3.37E-04	685.6892	-156.8197	-4.27E-04	4042.	2850053.	-58.3278	34604.	0.00
6.8000	2.57E-04	653.1587	-167.2266	-3.80E-04	3850.	2850053.	-45.7404	35652.	0.00
7.0000	1.85E-04	618.7986	-175.1997	-3.35E-04	3648.	2850053.	-33.9908	36701.	0.00
7.2000	1.23E-04	583.0788	-180.9120	-2.93E-04	3437.	2850053.	-23.1321	37749.	0.00
7.4000	6.81E-05	546.4338	-184.5456	-2.53E-04	3221.	2850053.	-13.2038	38798.	0.00
7.6000	2.12E-05	509.2606	-186.2891	-2.16E-04	3002.	2850053.	-4.2319	39847.	0.00

7.8000	-1.84E-05	471.9181	-186.3354	-1.82E-04	2782.	2850053.	3.7694	40895.	0.00
8.0000	-5.15E-05	434.7264	-184.8787	-1.50E-04	2563.	2850053.	10.7978	41944.	0.00
8.2000	-7.84E-05	397.9667	-182.1127	-1.21E-04	2346.	2850053.	16.8612	42992.	0.00
8.4000	-9.98E-05	361.8813	-178.2289	-9.41E-05	2133.	2850053.	21.9773	44041.	0.00
8.6000	-1.16E-04	326.6751	-173.4139	-7.00E-05	1926.	2850053.	26.1724	45090.	0.00
8.8000	-1.28E-04	292.5158	-167.8486	-4.82E-05	1724.	2850053.	29.4806	46138.	0.00
9.0000	-1.35E-04	259.5357	-161.7063	-2.89E-05	1530.	2850053.	31.9429	47187.	0.00
9.2000	-1.39E-04	227.8333	-155.1513	-1.18E-05	1343.	2850053.	33.6064	48235.	0.00
9.4000	-1.40E-04	197.4751	-148.3383	3.15E-06	1164.	2850053.	34.5234	49284.	0.00
9.6000	-1.38E-04	168.4979	-141.4109	1.60E-05	993.2325	2850053.	34.7508	50332.	0.00
9.8000	-1.34E-04	140.9108	-134.5009	2.68E-05	830.6164	2850053.	34.3496	51381.	0.00
10.0000	-1.27E-04	114.6976	-127.7275	3.58E-05	676.0995	2850053.	33.3839	52430.	0.00
10.2000	-1.19E-04	89.8197	-121.1970	4.30E-05	529.4539	2850053.	31.9212	53478.	0.00
10.4000	-1.10E-04	66.2188	-115.0018	4.85E-05	390.3350	2850053.	30.0313	54527.	0.00
10.6000	-1.00E-04	43.8190	-109.2200	5.23E-05	258.2969	2850053.	27.7863	55575.	0.00
10.8000	-8.92E-05	22.5308	-103.9153	5.47E-05	132.8105	2850053.	25.2607	56624.	0.00
11.0000	-7.81E-05	2.2529	-99.1361	5.55E-05	13.2801	2850053.	22.5310	57673.	0.00
11.2000	-6.70E-05	-17.1237	-94.9154	5.50E-05	100.9377	2850053.	19.6757	58721.	0.00
11.4000	-5.61E-05	-35.7133	-91.2703	5.31E-05	210.5163	2850053.	16.7757	59770.	0.00
11.6000	-4.58E-05	-53.6318	-88.2013	5.00E-05	316.1395	2850053.	13.9139	60818.	0.00
11.8000	-3.61E-05	-70.9938	-68.8652	4.56E-05	418.4820	2850053.	179.4472	993346.	0.00
12.0000	-2.75E-05	-81.1779	-34.1593	4.03E-05	478.5134	2850053.	167.6123	1218982.	0.00
12.2000	-2.00E-05	-84.6575	-3.8912	3.45E-05	499.0245	2850053.	135.0690	1350000.	0.00
12.4000	-1.37E-05	-82.7344	18.8688	2.86E-05	487.6882	2850053.	92.5305	1350000.	0.00
12.6000	-8.57E-06	-77.1100	33.9048	2.30E-05	454.5347	2850053.	57.8298	1350000.	0.00
12.8000	-4.51E-06	-69.1724	42.7312	1.79E-05	407.7457	2850053.	30.4342	1350000.	0.00
13.0000	-1.42E-06	-60.0175	46.7338	1.33E-05	353.7808	2850053.	9.5916	1350000.	0.00
13.2000	8.24E-07	-50.4789	47.1364	9.46E-06	297.5544	2850053.	-5.5652	1350000.	0.00
13.4000	2.36E-06	-41.1629	44.9859	6.24E-06	242.6402	2850053.	-15.9399	1350000.	0.00
13.6000	3.32E-06	-32.4846	41.1504	3.66E-06	191.4843	2850053.	-22.4151	1350000.	0.00
13.8000	3.82E-06	-24.7028	36.3276	1.65E-06	145.6137	2850053.	-25.8127	1350000.	0.00
14.0000	3.98E-06	-17.9535	31.0593	1.53E-07	105.8292	2850053.	-26.8702	1350000.	0.00
14.2000	3.89E-06	-12.2790	25.7496	-9.07E-07	72.3804	2850053.	-26.2269	1350000.	0.00
14.4000	3.62E-06	-7.6537	20.6849	-1.61E-06	45.1155	2850053.	-24.4203	1350000.	0.00
14.6000	3.24E-06	-4.0051	16.0540	-2.02E-06	23.6085	2850053.	-21.8886	1350000.	0.00
14.8000	2.81E-06	-1.2320	11.9674	-2.20E-06	7.2625	2850053.	-18.9775	1350000.	0.00
15.0000	2.36E-06	0.7819	8.4747	-2.22E-06	4.6089	2850053.	-15.9497	1350000.	0.00
15.2000	1.93E-06	2.1578	5.5802	-2.11E-06	12.7196	2850053.	-12.9959	1350000.	0.00
15.4000	1.52E-06	3.0139	3.2559	-1.93E-06	17.7661	2850053.	-10.2466	1350000.	0.00
15.6000	1.15E-06	3.4602	1.4530	-1.70E-06	20.3966	2850053.	-7.7828	1350000.	0.00
15.8000	8.37E-07	3.5951	0.1100	-1.46E-06	21.1920	2850053.	-5.6468	1350000.	0.00
16.0000	5.71E-07	3.5042	-0.8398	-1.21E-06	20.6559	2850053.	-3.8514	1350000.	0.00
16.2000	3.54E-07	3.2592	-1.4637	-9.70E-07	19.2118	2850053.	-2.3879	1350000.	0.00
16.4000	1.83E-07	2.9187	-1.8259	-7.53E-07	17.2047	2850053.	-1.2333	1350000.	0.00

16.6000	5.26E-08	2.5289	-1.9847	-5.62E-07	14.9067	2850053.	-0.3551	1350000.	0.00
16.8000	-4.20E-08	2.1248	-1.9919	-3.98E-07	12.5250	2850053.	0.2835	1350000.	0.00
17.0000	-1.07E-07	1.7321	-1.8914	-2.63E-07	10.2102	2850053.	0.7208	1350000.	0.00
17.2000	-1.47E-07	1.3682	-1.7199	-1.54E-07	8.0653	2850053.	0.9940	1350000.	0.00
17.4000	-1.69E-07	1.0441	-1.5068	-6.97E-08	6.1548	2850053.	1.1376	1350000.	0.00
17.6000	-1.75E-07	0.7655	-1.2748	-6.23E-09	4.5126	2850053.	1.1823	1350000.	0.00
17.8000	-1.71E-07	0.5342	-1.0411	3.94E-08	3.1491	2850053.	1.1545	1350000.	0.00
18.0000	-1.59E-07	0.3491	-0.8181	7.04E-08	2.0578	2850053.	1.0760	1350000.	0.00
18.2000	-1.43E-07	0.2070	-0.6140	8.99E-08	1.2202	2850053.	0.9645	1350000.	0.00
18.4000	-1.23E-07	0.1035	-0.4342	1.01E-07	0.6100	2850053.	0.8333	1350000.	0.00
18.6000	-1.03E-07	0.03331	-0.2817	1.06E-07	0.1963	2850053.	0.6924	1350000.	0.00
18.8000	-8.12E-08	-0.00917	-0.1576	1.06E-07	0.05408	2850053.	0.5483	1350000.	0.00
19.0000	-6.00E-08	-0.02973	-0.06225	1.05E-07	0.1752	2850053.	0.4051	1350000.	0.00
19.2000	-3.92E-08	-0.03408	0.00472	1.03E-07	0.2009	2850053.	0.2647	1350000.	0.00
19.4000	-1.89E-08	-0.02784	0.04393	1.01E-07	0.1641	2850053.	0.1275	1350000.	0.00
19.6000	1.05E-09	-0.01650	0.05597	9.91E-08	0.09728	2850053.	-0.00707	1350000.	0.00
19.8000	2.07E-08	-0.00545	0.04126	9.83E-08	0.03213	2850053.	-0.1401	1350000.	0.00
20.0000	4.04E-08	0.00	0.00	9.81E-08	0.00	2850053.	-0.2725	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 7:

Pile-head deflection = 0.00862730 meters
Computed slope at pile head = -0.00179796 radians
Maximum bending moment = 832.14035129 kN-m
Maximum shear force = 300.00000000 kN
Depth of maximum bending moment = 5.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 17
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 8

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 400.000 kN
Applied moment at pile head = 0.000 kN-m

Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.01373	0.00	400.0000	-0.00272	0.00	2850053.	-54.5343	397.1124	0.00
0.2000	0.01319	78.9093	388.9449	-0.00272	465.1410	2850053.	-56.0164	849.4630	0.00
0.4000	0.01265	155.5780	377.6015	-0.00271	917.0742	2850053.	-57.4181	908.1041	0.00
0.6000	0.01210	229.9499	365.9859	-0.00270	1355.	2850053.	-58.7373	970.4690	0.00
0.8000	0.01157	301.9723	354.1150	-0.00268	1780.	2850053.	-59.9720	1037.	0.00
1.0000	0.01103	371.5959	342.0058	-0.00265	2190.	2850053.	-61.1201	1108.	0.00
1.2000	0.01051	438.7747	329.6758	-0.00263	2586.	2850053.	-62.1795	1184.	0.00
1.4000	0.00998	503.4662	317.1430	-0.00259	2968.	2850053.	-63.1483	1265.	0.00
1.6000	0.00947	565.6319	304.4258	-0.00255	3334.	2850053.	-64.0243	1352.	0.00
1.8000	0.00896	625.2366	291.5428	-0.00251	3686.	2850053.	-64.8055	1446.	0.00
2.0000	0.00846	682.2490	278.5133	-0.00247	4022.	2850053.	-65.4898	1547.	0.00
2.2000	0.00798	736.6419	265.3568	-0.00242	4342.	2850053.	-66.0752	1657.	0.00
2.4000	0.00750	788.3917	252.0933	-0.00236	4647.	2850053.	-66.5596	1776.	0.00
2.6000	0.00703	837.4792	238.7433	-0.00231	4937.	2850053.	-66.9408	1904.	0.00
2.8000	0.00657	883.8890	225.3275	-0.00225	5210.	2850053.	-67.2168	2045.	0.00
3.0000	0.00613	927.6102	211.8673	-0.00218	5468.	2850053.	-67.3855	2198.	0.00
3.2000	0.00570	968.6360	198.3843	-0.00212	5710.	2850053.	-67.4446	2366.	0.00
3.4000	0.00529	1007.	184.9006	-0.00205	5936.	2850053.	-67.3919	2550.	0.00
3.6000	0.00488	1043.	171.4389	-0.00197	6146.	2850053.	-67.2252	2753.	0.00
3.8000	0.00450	1076.	158.0222	-0.00190	6340.	2850053.	-66.9422	2978.	0.00
4.0000	0.00412	1106.	144.6739	-0.00182	6518.	2850053.	-66.5407	3228.	0.00
4.2000	0.00377	1133.	131.4180	-0.00175	6681.	2850053.	-66.0183	3506.	0.00
4.4000	0.00342	1158.	118.2789	-0.00166	6828.	2850053.	-65.3728	3818.	0.00
4.6000	0.00310	1181.	105.2815	-0.00158	6960.	2850053.	-64.6018	4168.	0.00
4.8000	0.00279	1200.	77.6987	-0.00150	7076.	2850053.	-211.2260	15133.	0.00
5.0000	0.00250	1212.	36.7737	-0.00141	7143.	2850053.	-198.0237	15841.	0.00
5.2000	0.00223	1215.	-1.2514	-0.00133	7163.	2850053.	-182.2271	16375.	0.00
5.4000	0.00197	1211.	-35.8934	-0.00124	7140.	2850053.	-164.1935	16683.	0.00
5.6000	0.00173	1201.	-66.7528	-0.00116	7078.	2850053.	-144.4006	16713.	0.00
5.8000	0.00150	1185.	-94.1741	-0.00108	6983.	2850053.	-129.8122	17257.	0.00
6.0000	0.00130	1163.	-119.5200	-9.94E-04	6856.	2850053.	-123.6461	19058.	0.00
6.2000	0.00111	1137.	-143.5300	-9.13E-04	6701.	2850053.	-116.4547	21040.	0.00
6.4000	9.32E-04	1106.	-166.0062	-8.34E-04	6518.	2850053.	-108.3073	23233.	0.00
6.6000	7.73E-04	1070.	-186.7654	-7.58E-04	6310.	2850053.	-99.2844	25679.	0.00
6.8000	6.29E-04	1031.	-205.6413	-6.84E-04	6078.	2850053.	-89.4746	28441.	0.00
7.0000	5.00E-04	988.1314	-222.6221	-6.13E-04	5825.	2850053.	-80.3330	32159.	0.00
7.2000	3.84E-04	942.0004	-237.8850	-5.46E-04	5553.	2850053.	-72.2960	37668.	0.00
7.4000	2.81E-04	892.9775	-250.5723	-4.81E-04	5264.	2850053.	-54.5778	38798.	0.00

7.6000	1.91E-04	841.7714	-259.8427	-4.20E-04	4962.	2850053.	-38.1258	39847.	0.00
7.8000	1.13E-04	789.0404	-265.9699	-3.63E-04	4651.	2850053.	-23.1459	40895.	0.00
8.0000	4.61E-05	735.3835	-269.2514	-3.10E-04	4335.	2850053.	-9.6689	41944.	0.00
8.2000	-1.07E-05	681.3398	-269.9889	-2.60E-04	4016.	2850053.	2.2931	42992.	0.00
8.4000	-5.79E-05	627.3879	-268.4852	-2.14E-04	3698.	2850053.	12.7447	44041.	0.00
8.6000	-9.63E-05	573.9458	-265.0401	-1.72E-04	3383.	2850053.	21.7061	45090.	0.00
8.8000	-1.27E-04	521.3719	-259.9483	-1.33E-04	3073.	2850053.	29.2121	46138.	0.00
9.0000	-1.50E-04	469.9665	-253.4961	-9.87E-05	2770.	2850053.	35.3098	47187.	0.00
9.2000	-1.66E-04	419.9734	-245.9593	-6.74E-05	2476.	2850053.	40.0582	48235.	0.00
9.4000	-1.77E-04	371.5828	-237.6008	-3.97E-05	2190.	2850053.	43.5266	49284.	0.00
9.6000	-1.82E-04	324.9331	-228.6688	-1.52E-05	1915.	2850053.	45.7930	50332.	0.00
9.8000	-1.83E-04	280.1152	-219.3952	6.00E-06	1651.	2850053.	46.9437	51381.	0.00
10.0000	-1.80E-04	237.1751	-209.9936	2.42E-05	1398.	2850053.	47.0718	52430.	0.00
10.2000	-1.73E-04	196.1178	-200.6588	3.94E-05	1156.	2850053.	46.2767	53478.	0.00
10.4000	-1.64E-04	156.9116	-191.5648	5.17E-05	924.9352	2850053.	44.6630	54527.	0.00
10.6000	-1.52E-04	119.4919	-182.8644	6.14E-05	704.3601	2850053.	42.3404	55575.	0.00
10.8000	-1.39E-04	83.7658	-174.6881	6.86E-05	493.7681	2850053.	39.4230	56624.	0.00
11.0000	-1.25E-04	49.6166	-167.1429	7.33E-05	292.4715	2850053.	36.0289	57673.	0.00
11.2000	-1.10E-04	16.9086	-160.3120	7.56E-05	99.6700	2850053.	32.2803	58721.	0.00
11.4000	-9.47E-05	-14.5082	-154.2536	7.57E-05	85.5203	2850053.	28.3036	59770.	0.00
11.6000	-7.97E-05	-44.7928	-149.0003	7.36E-05	264.0370	2850053.	24.2291	60818.	0.00
11.8000	-6.53E-05	-74.1083	-125.7730	6.94E-05	436.8409	2850053.	208.0441	637454.	0.00
12.0000	-5.19E-05	-95.1020	-85.3221	6.35E-05	560.5910	2850053.	196.4655	756944.	0.00
12.2000	-3.99E-05	-108.2371	-47.2818	5.63E-05	638.0176	2850053.	183.9368	922412.	0.00
12.4000	-2.94E-05	-114.0148	-11.8484	4.85E-05	672.0745	2850053.	170.3971	1160257.	0.00
12.6000	-2.05E-05	-112.9765	19.0038	4.06E-05	665.9544	2850053.	138.1257	1350000.	0.00
12.8000	-1.31E-05	-106.4132	41.6855	3.29E-05	627.2663	2850053.	88.6913	1350000.	0.00
13.0000	-7.31E-06	-96.3023	55.4885	2.58E-05	567.6661	2850053.	49.3379	1350000.	0.00
13.2000	-2.83E-06	-84.2178	62.3330	1.94E-05	496.4328	2850053.	19.1077	1350000.	0.00
13.4000	4.66E-07	-71.3691	63.9294	1.40E-05	420.6942	2850053.	-3.1441	1350000.	0.00
13.6000	2.76E-06	-58.6461	61.7515	9.42E-06	345.6969	2850053.	-18.6348	1350000.	0.00
13.8000	4.23E-06	-46.6685	57.0310	5.72E-06	275.0935	2850053.	-28.5696	1350000.	0.00
14.0000	5.05E-06	-35.8337	50.7657	2.83E-06	211.2263	2850053.	-34.0833	1350000.	0.00
14.2000	5.36E-06	-26.3622	43.7372	6.45E-07	155.3954	2850053.	-36.2022	1350000.	0.00
14.4000	5.31E-06	-18.3388	36.5346	-9.24E-07	108.1005	2850053.	-35.8238	1350000.	0.00
14.6000	4.99E-06	-11.7484	29.5814	-1.98E-06	69.2524	2850053.	-33.7080	1350000.	0.00
14.8000	4.52E-06	-6.5063	23.1627	-2.62E-06	38.3520	2850053.	-30.4792	1350000.	0.00
15.0000	3.95E-06	-2.4833	17.4514	-2.94E-06	14.6382	2850053.	-26.6340	1350000.	0.00
15.2000	3.34E-06	0.4743	12.5326	-3.01E-06	2.7957	2850053.	-22.5536	1350000.	0.00
15.4000	2.74E-06	2.5297	8.4254	-2.90E-06	14.9118	2850053.	-18.5181	1350000.	0.00
15.6000	2.18E-06	3.8444	5.1014	-2.68E-06	22.6616	2850053.	-14.7223	1350000.	0.00
15.8000	1.67E-06	4.5703	2.5001	-2.38E-06	26.9400	2850053.	-11.2907	1350000.	0.00
16.0000	1.23E-06	4.8445	0.5418	-2.05E-06	28.5563	2850053.	-8.2920	1350000.	0.00
16.2000	8.52E-07	4.7870	-0.8626	-1.71E-06	28.2175	2850053.	-5.7523	1350000.	0.00

16.4000	5.43E-07	4.4994	-1.8045	-1.39E-06	26.5224	2850053.	-3.6661	1350000.	0.00
16.6000	2.97E-07	4.0652	-2.3717	-1.09E-06	23.9628	2850053.	-2.0061	1350000.	0.00
16.8000	1.08E-07	3.5507	-2.6455	-8.20E-07	20.9302	2850053.	-0.7313	1350000.	0.00
17.0000	-3.07E-08	3.0070	-2.6979	-5.90E-07	17.7252	2850053.	0.2072	1350000.	0.00
17.2000	-1.28E-07	2.4716	-2.5911	-3.97E-07	14.5690	2850053.	0.8608	1350000.	0.00
17.4000	-1.90E-07	1.9706	-2.3770	-2.42E-07	11.6158	2850053.	1.2802	1350000.	0.00
17.6000	-2.24E-07	1.5208	-2.0976	-1.19E-07	8.9645	2850053.	1.5130	1350000.	0.00
17.8000	-2.37E-07	1.1315	-1.7862	-2.60E-08	6.6699	2850053.	1.6017	1350000.	0.00
18.0000	-2.35E-07	0.8063	-1.4677	4.20E-08	4.7530	2850053.	1.5832	1350000.	0.00
18.2000	-2.20E-07	0.5445	-1.1605	8.94E-08	3.2094	2850053.	1.4884	1350000.	0.00
18.4000	-1.99E-07	0.3421	-0.8775	1.20E-07	2.0167	2850053.	1.3419	1350000.	0.00
18.6000	-1.72E-07	0.1935	-0.6270	1.39E-07	1.1404	2850053.	1.1630	1350000.	0.00
18.8000	-1.43E-07	0.09133	-0.4141	1.49E-07	0.5383	2850053.	0.9658	1350000.	0.00
19.0000	-1.13E-07	0.02782	-0.2415	1.53E-07	0.1640	2850053.	0.7600	1350000.	0.00
19.2000	-8.17E-08	-0.00528	-0.1104	1.54E-07	0.03113	2850053.	0.5515	1350000.	0.00
19.4000	-5.09E-08	-0.01633	-0.02088	1.53E-07	0.09624	2850053.	0.3435	1350000.	0.00
19.6000	-2.03E-08	-0.01363	0.02718	1.52E-07	0.08035	2850053.	0.1371	1350000.	0.00
19.8000	1.01E-08	-0.00545	0.03408	1.52E-07	0.03215	2850053.	-0.06808	1350000.	0.00
20.0000	4.04E-08	0.00	0.00	1.52E-07	0.00	2850053.	-0.2727	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 8:

Pile-head deflection = 0.01373272 meters
Computed slope at pile head = -0.00272031 radians
Maximum bending moment = 1215. kN-m
Maximum shear force = 400.00000000 kN
Depth of maximum bending moment = 5.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 17
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 9

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 450.000 kN

Applied moment at pile head = 0.000 kN-m

Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.01655	-1.24E-09	450.0000	-0.00322	7.29E-09	2850053.	-58.0382	350.6108	0.00
0.2000	0.01591	88.8392	438.2330	-0.00321	523.6742	2850053.	-59.6313	749.5915	0.00
0.4000	0.01527	175.2932	426.1558	-0.00320	1033.	2850053.	-61.1411	800.8774	0.00
0.6000	0.01463	259.3016	413.7852	-0.00319	1528.	2850053.	-62.5652	855.3495	0.00
0.8000	0.01399	340.8073	401.1385	-0.00317	2009.	2850053.	-63.9015	913.3083	0.00
1.0000	0.01336	419.7570	388.2336	-0.00314	2474.	2850053.	-65.1479	975.0885	0.00
1.2000	0.01274	496.1007	375.0886	-0.00311	2924.	2850053.	-66.3023	1041.	0.00
1.4000	0.01212	569.7924	361.7221	-0.00307	3359.	2850053.	-67.3625	1112.	0.00
1.6000	0.01151	640.7896	348.1532	-0.00303	3777.	2850053.	-68.3264	1187.	0.00
1.8000	0.01091	709.0537	334.4014	-0.00298	4180.	2850053.	-69.1918	1269.	0.00
2.0000	0.01032	774.5501	320.4865	-0.00293	4566.	2850053.	-69.9567	1356.	0.00
2.2000	0.00974	837.2483	306.4290	-0.00287	4935.	2850053.	-70.6189	1451.	0.00
2.4000	0.00917	897.1217	292.2494	-0.00281	5288.	2850053.	-71.1762	1553.	0.00
2.6000	0.00861	954.1481	277.9692	-0.00275	5624.	2850053.	-71.6265	1663.	0.00
2.8000	0.00807	1008.	263.6098	-0.00268	5944.	2850053.	-71.9675	1784.	0.00
3.0000	0.00754	1060.	249.1933	-0.00260	6246.	2850053.	-72.1971	1915.	0.00
3.2000	0.00703	1108.	234.7423	-0.00253	6531.	2850053.	-72.3129	2058.	0.00
3.4000	0.00653	1153.	220.2797	-0.00245	6799.	2850053.	-72.3128	2215.	0.00
3.6000	0.00605	1196.	205.8290	-0.00237	7051.	2850053.	-72.1944	2387.	0.00
3.8000	0.00558	1236.	191.4141	-0.00228	7285.	2850053.	-71.9554	2578.	0.00
4.0000	0.00514	1273.	177.0591	-0.00219	7502.	2850053.	-71.5936	2788.	0.00
4.2000	0.00471	1307.	162.7891	-0.00210	7702.	2850053.	-71.1067	3022.	0.00
4.4000	0.00429	1338.	148.6292	-0.00201	7886.	2850053.	-70.4923	3283.	0.00
4.6000	0.00390	1366.	134.6052	-0.00192	8053.	2850053.	-69.7483	3576.	0.00
4.8000	0.00353	1392.	104.2994	-0.00182	8203.	2850053.	-233.3093	13227.	0.00
5.0000	0.00317	1408.	58.9271	-0.00172	8299.	2850053.	-220.4141	13890.	0.00
5.2000	0.00284	1415.	16.4251	-0.00162	8342.	2850053.	-204.6057	14411.	0.00
5.4000	0.00253	1414.	-22.6555	-0.00152	8337.	2850053.	-186.1998	14747.	0.00
5.6000	0.00223	1406.	-57.8395	-0.00142	8289.	2850053.	-165.6401	14851.	0.00
5.8000	0.00196	1391.	-89.4464	-0.00133	8201.	2850053.	-150.4291	15382.	0.00
6.0000	0.00170	1370.	-118.9140	-0.00123	8078.	2850053.	-144.2466	16963.	0.00
6.2000	0.00146	1344.	-147.0285	-0.00113	7921.	2850053.	-136.8986	18693.	0.00
6.4000	0.00125	1312.	-173.5637	-0.00104	7731.	2850053.	-128.4540	20593.	0.00
6.6000	0.00105	1274.	-198.3087	-9.49E-04	7511.	2850053.	-118.9958	22692.	0.00
6.8000	8.68E-04	1232.	-221.0702	-8.61E-04	7263.	2850053.	-108.6190	25030.	0.00
7.0000	7.04E-04	1186.	-241.8310	-7.76E-04	6990.	2850053.	-98.9887	28108.	0.00
7.2000	5.57E-04	1135.	-260.7999	-6.95E-04	6693.	2850053.	-90.7008	32544.	0.00

7.4000	4.26E-04	1082.	-277.9991	-6.17E-04	6375.	2850053.	-81.2913	38128.	0.00
7.6000	3.11E-04	1024.	-292.3165	-5.43E-04	6038.	2850053.	-61.8823	39847.	0.00
7.8000	2.09E-04	964.5841	-302.7816	-4.73E-04	5686.	2850053.	-42.7691	40895.	0.00
8.0000	1.21E-04	903.1724	-309.6017	-4.08E-04	5324.	2850053.	-25.4314	41944.	0.00
8.2000	4.60E-05	840.7435	-313.1345	-3.47E-04	4956.	2850053.	-9.8968	42992.	0.00
8.4000	-1.74E-05	777.9186	-313.7414	-2.90E-04	4586.	2850053.	3.8282	44041.	0.00
8.6000	-6.99E-05	715.2469	-311.7829	-2.37E-04	4216.	2850053.	15.7569	45090.	0.00
8.8000	-1.12E-04	653.2055	-307.6151	-1.89E-04	3850.	2850053.	25.9205	46138.	0.00
9.0000	-1.46E-04	592.2009	-301.5864	-1.46E-04	3491.	2850053.	34.3664	47187.	0.00
9.2000	-1.71E-04	532.5709	-294.0341	-1.06E-04	3139.	2850053.	41.1569	48235.	0.00
9.4000	-1.88E-04	474.5872	-285.2816	-7.09E-05	2798.	2850053.	46.3677	49284.	0.00
9.6000	-1.99E-04	418.4583	-275.6363	-3.96E-05	2467.	2850053.	50.0858	50332.	0.00
9.8000	-2.04E-04	364.3327	-265.3868	-1.21E-05	2148.	2850053.	52.4090	51381.	0.00
10.0000	-2.04E-04	312.3035	-254.8015	1.16E-05	1841.	2850053.	53.4439	52430.	0.00
10.2000	-1.99E-04	262.4121	-244.1266	3.18E-05	1547.	2850053.	53.3054	53478.	0.00
10.4000	-1.91E-04	214.6529	-233.5845	4.85E-05	1265.	2850053.	52.1155	54527.	0.00
10.6000	-1.80E-04	168.9783	-223.3727	6.20E-05	996.0642	2850053.	50.0025	55575.	0.00
10.8000	-1.66E-04	125.3038	-213.6624	7.23E-05	738.6194	2850053.	47.1005	56624.	0.00
11.0000	-1.51E-04	83.5134	-204.5974	7.96E-05	492.2801	2850053.	43.5490	57673.	0.00
11.2000	-1.35E-04	43.4649	-196.2933	8.41E-05	256.2091	2850053.	39.4924	58721.	0.00
11.4000	-1.17E-04	4.9960	-188.8360	8.58E-05	29.4498	2850053.	35.0804	59770.	0.00
11.6000	-1.00E-04	-32.0695	-182.2812	8.48E-05	189.0380	2850053.	30.4675	60818.	0.00
11.8000	-8.34E-05	-67.9164	-157.1123	8.13E-05	400.3421	2850053.	221.2218	530198.	0.00
12.0000	-6.77E-05	-94.9145	-113.9980	7.56E-05	559.4854	2850053.	209.9211	620529.	0.00
12.2000	-5.32E-05	-113.5156	-73.2381	6.83E-05	669.1324	2850053.	197.6775	743135.	0.00
12.4000	-4.03E-05	-124.2097	-35.0243	6.00E-05	732.1700	2850053.	184.4609	914616.	0.00
12.6000	-2.92E-05	-127.5254	0.4389	5.11E-05	751.7144	2850053.	170.1709	1164961.	0.00
12.8000	-1.99E-05	-124.0342	30.8771	4.23E-05	731.1352	2850053.	134.2119	1350000.	0.00
13.0000	-1.23E-05	-115.1745	52.5957	3.39E-05	678.9107	2850053.	82.9739	1350000.	0.00
13.2000	-6.32E-06	-102.9959	65.1578	2.63E-05	607.1223	2850053.	42.6470	1350000.	0.00
13.4000	-1.79E-06	-89.1114	70.6303	1.95E-05	525.2783	2850053.	12.0774	1350000.	0.00
13.6000	1.49E-06	-74.7438	70.8330	1.38E-05	440.5866	2850053.	-10.0502	1350000.	0.00
13.8000	3.72E-06	-60.7782	67.3183	9.01E-06	358.2646	2850053.	-25.0970	1350000.	0.00
14.0000	5.09E-06	-47.8164	61.3700	5.20E-06	281.8601	2850053.	-34.3859	1350000.	0.00
14.2000	5.80E-06	-36.2302	54.0169	2.25E-06	213.5633	2850053.	-39.1449	1350000.	0.00
14.4000	6.00E-06	-26.2097	46.0552	6.32E-08	154.4963	2850053.	-40.4717	1350000.	0.00
14.6000	5.82E-06	-17.8081	38.0765	-1.48E-06	104.9719	2850053.	-39.3155	1350000.	0.00
14.8000	5.40E-06	-10.9791	30.4977	-2.49E-06	64.7176	2850053.	-36.4723	1350000.	0.00
15.0000	4.83E-06	-5.6090	23.5916	-3.07E-06	33.0628	2850053.	-32.5889	1350000.	0.00
15.2000	4.17E-06	-1.5424	17.5153	-3.32E-06	9.0921	2850053.	-28.1742	1350000.	0.00
15.4000	3.50E-06	1.3971	12.3365	-3.33E-06	8.2356	2850053.	-23.6134	1350000.	0.00
15.6000	2.84E-06	3.3922	8.0567	-3.16E-06	19.9957	2850053.	-19.1849	1350000.	0.00
15.8000	2.23E-06	4.6198	4.6305	-2.88E-06	27.2322	2850053.	-15.0777	1350000.	0.00
16.0000	1.69E-06	5.2444	1.9819	-2.53E-06	30.9136	2850053.	-11.4083	1350000.	0.00

16.2000	1.22E-06	5.4126	0.01746	-2.16E-06	31.9051	2850053.	-8.2356	1350000.	0.00
16.4000	8.26E-07	5.2514	-1.3637	-1.79E-06	30.9548	2850053.	-5.5758	1350000.	0.00
16.6000	5.06E-07	4.8671	-2.2626	-1.43E-06	28.6898	2850053.	-3.4134	1350000.	0.00
16.8000	2.54E-07	4.3463	-2.7751	-1.11E-06	25.6199	2850053.	-1.7121	1350000.	0.00
17.0000	6.26E-08	3.7571	-2.9886	-8.23E-07	22.1464	2850053.	-0.4225	1350000.	0.00
17.2000	-7.57E-08	3.1509	-2.9797	-5.81E-07	18.5733	2850053.	0.5111	1350000.	0.00
17.4000	-1.70E-07	2.5652	-2.8140	-3.80E-07	15.1206	2850053.	1.1463	1350000.	0.00
17.6000	-2.28E-07	2.0253	-2.5455	-2.19E-07	11.9383	2850053.	1.5384	1350000.	0.00
17.8000	-2.58E-07	1.5469	-2.2178	-9.41E-08	9.1187	2850053.	1.7386	1350000.	0.00
18.0000	-2.66E-07	1.1381	-1.8647	1.51E-10	6.7090	2850053.	1.7923	1350000.	0.00
18.2000	-2.58E-07	0.8010	-1.5117	6.82E-08	4.7219	2850053.	1.7382	1350000.	0.00
18.4000	-2.38E-07	0.5335	-1.1770	1.15E-07	3.1447	2850053.	1.6082	1350000.	0.00
18.6000	-2.12E-07	0.3302	-0.8734	1.45E-07	1.9466	2850053.	1.4277	1350000.	0.00
18.8000	-1.80E-07	0.1841	-0.6091	1.63E-07	1.0852	2850053.	1.2159	1350000.	0.00
19.0000	-1.46E-07	0.08660	-0.3889	1.73E-07	0.5105	2850053.	0.9866	1350000.	0.00
19.2000	-1.11E-07	0.02856	-0.2153	1.77E-07	0.1683	2850053.	0.7491	1350000.	0.00
19.4000	-7.54E-08	4.85E-04	-0.08948	1.78E-07	0.00286	2850053.	0.5089	1350000.	0.00
19.6000	-3.98E-08	-0.00723	-0.01171	1.78E-07	0.04263	2850053.	0.2687	1350000.	0.00
19.8000	-4.32E-09	-0.00420	0.01808	1.77E-07	0.02475	2850053.	0.02918	1350000.	0.00
20.0000	3.11E-08	0.00	0.00	1.77E-07	0.00	2850053.	-0.2100	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 9:

Pile-head deflection = 0.01655344 meters
Computed slope at pile head = -0.00321541 radians
Maximum bending moment = 1415. kN-m
Maximum shear force = 450.00000000 kN
Depth of maximum bending moment = 5.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 17
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 10

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 470.000 kN

Applied moment at pile head = 0.000 kN-m

Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.01773	2.97E-09	470.0000	-0.00342	1.75E-08	2850053.	-59.3778	334.9687	0.00
0.2000	0.01704	92.8124	457.9609	-0.00342	547.0948	2850053.	-61.0135	716.0133	0.00
0.4000	0.01636	183.1843	445.6031	-0.00341	1080.	2850053.	-62.5646	764.8453	0.00
0.6000	0.01568	271.0537	432.9437	-0.00339	1598.	2850053.	-64.0289	816.6873	0.00
0.8000	0.01500	356.3618	420.0004	-0.00337	2101.	2850053.	-65.4042	871.8213	0.00
1.0000	0.01433	439.0538	406.7911	-0.00334	2588.	2850053.	-66.6883	930.5611	0.00
1.2000	0.01367	519.0783	393.3344	-0.00331	3060.	2850053.	-67.8791	993.2576	0.00
1.4000	0.01301	596.3876	379.6491	-0.00327	3515.	2850053.	-68.9744	1060.	0.00
1.6000	0.01236	670.9379	365.7544	-0.00322	3955.	2850053.	-69.9720	1132.	0.00
1.8000	0.01172	742.6893	351.6702	-0.00317	4378.	2850053.	-70.8698	1209.	0.00
2.0000	0.01109	811.6060	337.4167	-0.00312	4784.	2850053.	-71.6657	1292.	0.00
2.2000	0.01047	877.6560	323.0144	-0.00306	5173.	2850053.	-72.3574	1382.	0.00
2.4000	0.00987	940.8117	308.4844	-0.00300	5546.	2850053.	-72.9428	1478.	0.00
2.6000	0.00928	1001.	293.8481	-0.00293	5901.	2850053.	-73.4196	1583.	0.00
2.8000	0.00870	1058.	279.1276	-0.00286	6239.	2850053.	-73.7857	1697.	0.00
3.0000	0.00813	1113.	264.3452	-0.00278	6559.	2850053.	-74.0387	1821.	0.00
3.2000	0.00759	1164.	249.5236	-0.00270	6862.	2850053.	-74.1764	1956.	0.00
3.4000	0.00705	1213.	234.6863	-0.00262	7147.	2850053.	-74.1966	2104.	0.00
3.6000	0.00654	1258.	219.8570	-0.00253	7415.	2850053.	-74.0970	2266.	0.00
3.8000	0.00604	1300.	205.0598	-0.00244	7666.	2850053.	-73.8751	2445.	0.00
4.0000	0.00556	1340.	190.3194	-0.00235	7899.	2850053.	-73.5287	2643.	0.00
4.2000	0.00510	1377.	175.6610	-0.00225	8114.	2850053.	-73.0555	2863.	0.00
4.4000	0.00466	1410.	161.1101	-0.00215	8313.	2850053.	-72.4533	3108.	0.00
4.6000	0.00424	1441.	146.6928	-0.00205	8494.	2850053.	-71.7198	3382.	0.00
4.8000	0.00384	1469.	115.3315	-0.00195	8659.	2850053.	-241.8930	12595.	0.00
5.0000	0.00346	1487.	68.2268	-0.00185	8766.	2850053.	-229.1540	13242.	0.00
5.2000	0.00310	1496.	23.9732	-0.00174	8820.	2850053.	-213.3827	13759.	0.00
5.4000	0.00276	1497.	-16.8529	-0.00164	8823.	2850053.	-194.8778	14103.	0.00
5.6000	0.00245	1489.	-53.7475	-0.00153	8780.	2850053.	-174.0679	14230.	0.00
5.8000	0.00215	1475.	-87.0194	-0.00143	8696.	2850053.	-158.6512	14756.	0.00
6.0000	0.00187	1455.	-118.1326	-0.00133	8575.	2850053.	-152.4813	16266.	0.00
6.2000	0.00162	1428.	-147.8898	-0.00123	8417.	2850053.	-145.0909	17915.	0.00
6.4000	0.00138	1396.	-176.0537	-0.00113	8226.	2850053.	-136.5478	19723.	0.00
6.6000	0.00117	1358.	-202.4020	-0.00103	8002.	2850053.	-126.9354	21713.	0.00
6.8000	9.73E-04	1315.	-226.7306	-9.36E-04	7749.	2850053.	-116.3503	23921.	0.00
7.0000	7.95E-04	1267.	-249.0192	-8.45E-04	7468.	2850053.	-106.5353	26808.	0.00

7.2000	6.35E-04	1215.	-269.4871	-7.58E-04	7162.	2850053.	-98.1441	30930.	0.00
7.4000	4.91E-04	1159.	-288.1637	-6.75E-04	6832.	2850053.	-88.6217	36063.	0.00
7.6000	3.65E-04	1100.	-304.2901	-5.96E-04	6482.	2850053.	-72.6427	39847.	0.00
7.8000	2.53E-04	1037.	-316.7313	-5.21E-04	6115.	2850053.	-51.7684	40895.	0.00
8.0000	1.56E-04	972.9884	-325.1860	-4.50E-04	5735.	2850053.	-32.7790	41944.	0.00
8.2000	7.31E-05	907.2956	-330.0348	-3.84E-04	5348.	2850053.	-15.7091	42992.	0.00
8.4000	2.59E-06	840.9745	-331.6628	-3.23E-04	4957.	2850053.	-0.5707	44041.	0.00
8.6000	-5.61E-05	774.6305	-330.4553	-2.66E-04	4566.	2850053.	12.6460	45090.	0.00
8.8000	-1.04E-04	708.7924	-326.7937	-2.14E-04	4178.	2850053.	23.9700	46138.	0.00
9.0000	-1.42E-04	643.9131	-321.0518	-1.67E-04	3796.	2850053.	33.4483	47187.	0.00
9.2000	-1.71E-04	580.3717	-313.5926	-1.24E-04	3421.	2850053.	41.1441	48235.	0.00
9.4000	-1.91E-04	518.4760	-304.7647	-8.52E-05	3056.	2850053.	47.1350	49284.	0.00
9.6000	-2.05E-04	458.4658	-294.9000	-5.09E-05	2702.	2850053.	51.5115	50332.	0.00
9.8000	-2.12E-04	400.5160	-284.3113	-2.08E-05	2361.	2850053.	54.3755	51381.	0.00
10.0000	-2.13E-04	344.7412	-273.2899	5.35E-06	2032.	2850053.	55.8390	52430.	0.00
10.2000	-2.10E-04	291.2001	-262.1037	2.77E-05	1717.	2850053.	56.0230	53478.	0.00
10.4000	-2.02E-04	239.8998	-250.9958	4.63E-05	1414.	2850053.	55.0561	54527.	0.00
10.6000	-1.91E-04	190.8017	-240.1827	6.14E-05	1125.	2850053.	53.0742	55575.	0.00
10.8000	-1.77E-04	143.8267	-229.8534	7.31E-05	847.8047	2850053.	50.2194	56624.	0.00
11.0000	-1.62E-04	98.8604	-220.1675	8.17E-05	582.7452	2850053.	46.6396	57673.	0.00
11.2000	-1.45E-04	55.7597	-211.2547	8.71E-05	328.6825	2850053.	42.4885	58721.	0.00
11.4000	-1.27E-04	14.3585	-203.2133	8.95E-05	84.6381	2850053.	37.9250	59770.	0.00
11.6000	-1.09E-04	-25.5257	-196.1095	8.92E-05	150.4642	2850053.	33.1135	60818.	0.00
11.8000	-9.12E-05	-64.0853	-170.1768	8.60E-05	377.7588	2850053.	226.2135	495861.	0.00
12.0000	-7.45E-05	-93.5964	-126.0527	8.05E-05	551.7157	2850053.	215.0276	577351.	0.00
12.2000	-5.90E-05	-114.5063	-84.2602	7.32E-05	674.9723	2850053.	202.8976	687225.	0.00
12.4000	-4.52E-05	-127.3004	-44.9902	6.47E-05	750.3886	2850053.	189.8019	839532.	0.00
12.6000	-3.32E-05	-132.5024	-8.4442	5.56E-05	781.0524	2850053.	175.6582	1059122.	0.00
12.8000	-2.30E-05	-130.6781	24.6362	4.63E-05	770.2987	2850053.	155.1457	1350000.	0.00
13.0000	-1.46E-05	-122.6479	50.0278	3.75E-05	722.9640	2850053.	98.7703	1350000.	0.00
13.2000	-8.00E-06	-110.6670	65.3062	2.93E-05	652.3406	2850053.	54.0139	1350000.	0.00
13.4000	-2.92E-06	-96.5255	72.6818	2.20E-05	568.9816	2850053.	19.7416	1350000.	0.00
13.6000	7.98E-07	-81.5943	74.1173	1.58E-05	480.9678	2850053.	-5.3864	1350000.	0.00
13.8000	3.38E-06	-66.8785	71.3002	1.05E-05	394.2241	2850053.	-22.7845	1350000.	0.00
14.0000	5.01E-06	-53.0742	65.6371	6.33E-06	312.8526	2850053.	-33.8469	1350000.	0.00
14.2000	5.91E-06	-40.6237	58.2643	3.04E-06	239.4616	2850053.	-39.8813	1350000.	0.00
14.4000	6.23E-06	-29.7685	50.0694	5.75E-07	175.4741	2850053.	-42.0672	1350000.	0.00
14.6000	6.14E-06	-20.5959	41.7194	-1.19E-06	121.4054	2850053.	-41.4330	1350000.	0.00
14.8000	5.76E-06	-13.0807	33.6913	-2.37E-06	77.1060	2850053.	-38.8476	1350000.	0.00
15.0000	5.19E-06	-7.1194	26.3042	-3.08E-06	41.9663	2850053.	-35.0231	1350000.	0.00
15.2000	4.52E-06	-2.5590	19.7495	-3.42E-06	15.0845	2850053.	-30.5240	1350000.	0.00
15.4000	3.82E-06	0.7804	14.1189	-3.48E-06	4.6001	2850053.	-25.7826	1350000.	0.00
15.6000	3.13E-06	3.0885	9.4291	-3.35E-06	18.2057	2850053.	-21.1150	1350000.	0.00
15.8000	2.48E-06	4.5520	5.6436	-3.08E-06	26.8326	2850053.	-16.7401	1350000.	0.00

16.0000	1.90E-06	5.3460	2.6899	-2.73E-06	31.5124	2850053.	-12.7964	1350000.	0.00
16.2000	1.39E-06	5.6280	0.4744	-2.35E-06	33.1751	2850053.	-9.3592	1350000.	0.00
16.4000	9.56E-07	5.5357	-1.1070	-1.96E-06	32.6310	2850053.	-6.4551	1350000.	0.00
16.6000	6.04E-07	5.1852	-2.1601	-1.58E-06	30.5649	2850053.	-4.0754	1350000.	0.00
16.8000	3.24E-07	4.6717	-2.7863	-1.23E-06	27.5378	2850053.	-2.1870	1350000.	0.00
17.0000	1.10E-07	4.0707	-3.0791	-9.28E-07	23.9951	2850053.	-0.7411	1350000.	0.00
17.2000	-4.73E-08	3.4400	-3.1213	-6.65E-07	20.2777	2850053.	0.3191	1350000.	0.00
17.4000	-1.56E-07	2.8221	-2.9841	-4.45E-07	16.6355	2850053.	1.0534	1350000.	0.00
17.6000	-2.25E-07	2.2464	-2.7267	-2.67E-07	13.2417	2850053.	1.5204	1350000.	0.00
17.8000	-2.63E-07	1.7315	-2.3972	-1.28E-07	10.2063	2850053.	1.7746	1350000.	0.00
18.0000	-2.76E-07	1.2875	-2.0333	-2.16E-08	7.5894	2850053.	1.8647	1350000.	0.00
18.2000	-2.72E-07	0.9181	-1.6635	5.58E-08	5.4121	2850053.	1.8329	1350000.	0.00
18.4000	-2.54E-07	0.6221	-1.3088	1.10E-07	3.6670	2850053.	1.7140	1350000.	0.00
18.6000	-2.28E-07	0.3946	-0.9838	1.46E-07	2.3261	2850053.	1.5363	1350000.	0.00
18.8000	-1.96E-07	0.2286	-0.6981	1.67E-07	1.3473	2850053.	1.3211	1350000.	0.00
19.0000	-1.61E-07	0.1154	-0.4575	1.79E-07	0.6801	2850053.	1.0843	1350000.	0.00
19.2000	-1.24E-07	0.04556	-0.2654	1.85E-07	0.2686	2850053.	0.8366	1350000.	0.00
19.4000	-8.66E-08	0.00921	-0.1233	1.87E-07	0.05429	2850053.	0.5846	1350000.	0.00
19.6000	-4.91E-08	-0.00376	-0.03168	1.87E-07	0.02216	2850053.	0.3317	1350000.	0.00
19.8000	-1.17E-08	-0.00346	0.00940	1.87E-07	0.02041	2850053.	0.07912	1350000.	0.00
20.0000	2.56E-08	0.00	0.00	1.87E-07	0.00	2850053.	-0.1731	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 10:

Pile-head deflection = 0.01772636 meters
Computed slope at pile head = -0.00341897 radians
Maximum bending moment = 1497. kN-m
Maximum shear force = 470.00000000 kN
Depth of maximum bending moment = 5.40000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 17
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 11

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 500.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.01953	-1.98E-09	500.0000	-0.00373	1.17E-08	2850053.	-61.3262	314.0212	0.00
0.2000	0.01878	98.7735	487.5650	-0.00373	582.2328	2850053.	-63.0239	671.0609	0.00
0.4000	0.01804	195.0260	474.7991	-0.00372	1150.	2850053.	-64.6353	716.6250	0.00
0.6000	0.01730	288.6931	461.7197	-0.00370	1702.	2850053.	-66.1580	764.9669	0.00
0.8000	0.01656	379.7139	448.3449	-0.00368	2238.	2850053.	-67.5900	816.3445	0.00
1.0000	0.01583	468.0311	434.6930	-0.00365	2759.	2850053.	-68.9290	871.0447	0.00
1.2000	0.01510	553.5911	420.7829	-0.00361	3263.	2850053.	-70.1727	929.3876	0.00
1.4000	0.01438	636.3442	406.6337	-0.00357	3751.	2850053.	-71.3191	991.7314	0.00
1.6000	0.01367	716.2446	392.2652	-0.00352	4222.	2850053.	-72.3658	1058.	0.00
1.8000	0.01297	793.2503	377.6976	-0.00347	4676.	2850053.	-73.3107	1130.	0.00
2.0000	0.01229	867.3236	362.9513	-0.00341	5113.	2850053.	-74.1516	1207.	0.00
2.2000	0.01161	938.4308	348.0475	-0.00335	5532.	2850053.	-74.8863	1290.	0.00
2.4000	0.01095	1007.	333.0076	-0.00328	5933.	2850053.	-75.5125	1379.	0.00
2.6000	0.01030	1072.	317.8536	-0.00321	6317.	2850053.	-76.0280	1476.	0.00
2.8000	0.00967	1134.	302.6078	-0.00313	6683.	2850053.	-76.4304	1581.	0.00
3.0000	0.00905	1193.	287.2930	-0.00305	7030.	2850053.	-76.7176	1696.	0.00
3.2000	0.00845	1249.	271.9325	-0.00296	7360.	2850053.	-76.8872	1820.	0.00
3.4000	0.00786	1301.	256.5500	-0.00287	7672.	2850053.	-76.9369	1957.	0.00
3.6000	0.00730	1351.	241.1699	-0.00278	7965.	2850053.	-76.8644	2106.	0.00
3.8000	0.00675	1398.	225.8167	-0.00268	8240.	2850053.	-76.6673	2271.	0.00
4.0000	0.00623	1442.	210.5157	-0.00258	8497.	2850053.	-76.3433	2452.	0.00
4.2000	0.00572	1482.	195.2924	-0.00248	8737.	2850053.	-75.8900	2653.	0.00
4.4000	0.00523	1520.	180.1728	-0.00237	8958.	2850053.	-75.3052	2877.	0.00
4.6000	0.00477	1554.	165.1837	-0.00227	9161.	2850053.	-74.5867	3127.	0.00
4.8000	0.00433	1586.	132.2758	-0.00216	9347.	2850053.	-254.4915	11759.	0.00
5.0000	0.00391	1607.	82.6252	-0.00204	9473.	2850053.	-242.0145	12384.	0.00
5.2000	0.00351	1619.	35.7903	-0.00193	9542.	2850053.	-226.3352	12893.	0.00
5.4000	0.00314	1621.	-7.6159	-0.00182	9558.	2850053.	-207.7260	13247.	0.00
5.6000	0.00278	1616.	-47.0477	-0.00170	9524.	2850053.	-186.5924	13403.	0.00
5.8000	0.00245	1603.	-82.7976	-0.00159	9447.	2850053.	-170.9063	13923.	0.00
6.0000	0.00215	1583.	-116.3652	-0.00148	9329.	2850053.	-164.7694	15341.	0.00
6.2000	0.00186	1556.	-148.5751	-0.00137	9172.	2850053.	-157.3298	16885.	0.00
6.4000	0.00160	1523.	-179.1734	-0.00126	8979.	2850053.	-148.6537	18573.	0.00
6.6000	0.00136	1484.	-207.9212	-0.00115	8750.	2850053.	-138.8244	20426.	0.00
6.8000	0.00114	1440.	-234.5977	-0.00105	8488.	2850053.	-127.9401	22470.	0.00

7.0000	9.38E-04	1391.	-259.1770	-9.53E-04	8197.	2850053.	-117.8528	25118.	0.00
7.2000	7.58E-04	1336.	-281.8921	-8.57E-04	7877.	2850053.	-109.2981	28856.	0.00
7.4000	5.95E-04	1278.	-302.7807	-7.66E-04	7532.	2850053.	-99.5879	33450.	0.00
7.6000	4.51E-04	1215.	-321.6024	-6.78E-04	7163.	2850053.	-88.6291	39278.	0.00
7.8000	3.24E-04	1149.	-337.0941	-5.95E-04	6774.	2850053.	-66.2886	40895.	0.00
8.0000	2.13E-04	1080.	-348.1945	-5.17E-04	6369.	2850053.	-44.7153	41944.	0.00
8.2000	1.17E-04	1010.	-355.1898	-4.44E-04	5953.	2850053.	-25.2378	42992.	0.00
8.4000	3.58E-05	938.3279	-358.5013	-3.75E-04	5531.	2850053.	-7.8767	44041.	0.00
8.6000	-3.27E-05	866.4701	-358.5518	-3.12E-04	5108.	2850053.	7.3714	45090.	0.00
8.8000	-8.90E-05	794.9072	-355.7615	-2.54E-04	4686.	2850053.	20.5321	46138.	0.00
9.0000	-1.34E-04	724.1655	-350.5432	-2.00E-04	4269.	2850053.	31.6510	47187.	0.00
9.2000	-1.69E-04	654.6899	-343.2989	-1.52E-04	3859.	2850053.	40.7922	48235.	0.00
9.4000	-1.95E-04	586.8460	-334.4160	-1.08E-04	3459.	2850053.	48.0360	49284.	0.00
9.6000	-2.12E-04	520.9235	-324.2647	-6.95E-05	3071.	2850053.	53.4776	50332.	0.00
9.8000	-2.23E-04	457.1401	-313.1944	-3.52E-05	2695.	2850053.	57.2250	51381.	0.00
10.0000	-2.27E-04	395.6458	-301.5321	-5.29E-06	2332.	2850053.	59.3981	52430.	0.00
10.2000	-2.25E-04	336.5273	-289.5796	2.04E-05	1984.	2850053.	60.1265	53478.	0.00
10.4000	-2.18E-04	279.8139	-277.6121	4.20E-05	1649.	2850053.	59.5493	54527.	0.00
10.6000	-2.08E-04	225.4825	-265.8758	5.98E-05	1329.	2850053.	57.8133	55575.	0.00
10.8000	-1.95E-04	173.4636	-254.5872	7.38E-05	1023.	2850053.	55.0725	56624.	0.00
11.0000	-1.79E-04	123.6476	-243.9312	8.42E-05	728.8565	2850053.	51.4879	57673.	0.00
11.2000	-1.61E-04	75.8911	-234.0598	9.12E-05	447.3499	2850053.	47.2263	58721.	0.00
11.4000	-1.42E-04	30.0237	-225.0911	9.49E-05	176.9785	2850053.	42.4607	59770.	0.00
11.6000	-1.23E-04	-14.1453	-217.1080	9.55E-05	83.3813	2850053.	37.3702	60818.	0.00
11.8000	-1.04E-04	-56.8195	-190.0026	9.30E-05	334.9298	2850053.	233.6839	449825.	0.00
12.0000	-8.57E-05	-90.1463	-144.3636	8.78E-05	531.3790	2850053.	222.7052	519695.	0.00
12.2000	-6.88E-05	-114.5650	-101.0145	8.06E-05	675.3177	2850053.	210.7861	612949.	0.00
12.4000	-5.35E-05	-130.5521	-60.1441	7.20E-05	769.5562	2850053.	197.9178	740474.	0.00
12.6000	-4.00E-05	-138.6226	-21.9481	6.26E-05	817.1286	2850053.	184.0425	920933.	0.00
12.8000	-2.84E-05	-139.3314	13.3576	5.28E-05	821.3065	2850053.	169.0140	1189154.	0.00
13.0000	-1.88E-05	-133.2796	42.9750	4.33E-05	785.6334	2850053.	127.1607	1350000.	0.00
13.2000	-1.11E-05	-122.1414	63.1984	3.43E-05	719.9778	2850053.	75.0726	1350000.	0.00
13.4000	-5.12E-06	-108.0002	74.1612	2.62E-05	636.6211	2850053.	34.5557	1350000.	0.00
13.6000	-6.33E-07	-92.4769	78.0438	1.92E-05	545.1167	2850053.	4.2701	1350000.	0.00
13.8000	2.56E-06	-76.7827	76.7453	1.33E-05	452.6055	2850053.	-17.2547	1350000.	0.00
14.0000	4.67E-06	-61.7788	71.8693	8.39E-06	364.1627	2850053.	-31.5054	1350000.	0.00
14.2000	5.91E-06	-48.0350	64.7284	4.54E-06	283.1484	2850053.	-39.9035	1350000.	0.00
14.4000	6.48E-06	-35.8874	56.3629	1.59E-06	211.5428	2850053.	-43.7511	1350000.	0.00
14.6000	6.55E-06	-25.4898	47.5680	-5.63E-07	150.2530	2850053.	-44.1988	1350000.	0.00
14.8000	6.26E-06	-16.8602	38.9249	-2.05E-06	99.3846	2850053.	-42.2318	1350000.	0.00
15.0000	5.73E-06	-9.9199	30.8350	-2.99E-06	58.4739	2850053.	-38.6675	1350000.	0.00
15.2000	5.06E-06	-4.5262	23.5519	-3.50E-06	26.6803	2850053.	-34.1634	1350000.	0.00
15.4000	4.33E-06	-0.4991	17.2125	-3.67E-06	2.9420	2850053.	-29.2306	1350000.	0.00
15.6000	3.59E-06	2.3588	11.8644	-3.61E-06	13.9042	2850053.	-24.2504	1350000.	0.00

15.8000	2.89E-06	4.2467	7.4900	-3.37E-06	25.0325	2850053.	-19.4938	1350000.	0.00
16.0000	2.24E-06	5.3548	4.0267	-3.04E-06	31.5645	2850053.	-15.1394	1350000.	0.00
16.2000	1.67E-06	5.8573	1.3835	-2.64E-06	34.5268	2850053.	-11.2923	1350000.	0.00
16.4000	1.19E-06	5.9082	-0.5457	-2.23E-06	34.8266	2850053.	-8.0001	1350000.	0.00
16.6000	7.80E-07	5.6390	-1.8725	-1.83E-06	33.2400	2850053.	-5.2677	1350000.	0.00
16.8000	4.55E-07	5.1592	-2.7062	-1.45E-06	30.4114	2850053.	-3.0694	1350000.	0.00
17.0000	2.01E-07	4.5565	-3.1492	-1.11E-06	26.8591	2850053.	-1.3599	1350000.	0.00
17.2000	1.22E-08	3.8995	-3.2934	-8.10E-07	22.9862	2850053.	-0.08210	1350000.	0.00
17.4000	-1.22E-07	3.2392	-3.2190	-5.59E-07	19.0938	2850053.	0.8263	1350000.	0.00
17.6000	-2.12E-07	2.6119	-2.9935	-3.54E-07	15.3964	2850053.	1.4279	1350000.	0.00
17.8000	-2.64E-07	2.0418	-2.6726	-1.91E-07	12.0355	2850053.	1.7820	1350000.	0.00
18.0000	-2.88E-07	1.5429	-2.3001	-6.49E-08	9.0949	2850053.	1.9426	1350000.	0.00
18.2000	-2.90E-07	1.1217	-1.9101	2.86E-08	6.6123	2850053.	1.9571	1350000.	0.00
18.4000	-2.76E-07	0.7789	-1.5279	9.53E-08	4.5911	2850053.	1.8654	1350000.	0.00
18.6000	-2.52E-07	0.5106	-1.1713	1.41E-07	3.0098	2850053.	1.6998	1350000.	0.00
18.8000	-2.20E-07	0.3103	-0.8528	1.69E-07	1.8293	2850053.	1.4859	1350000.	0.00
19.0000	-1.84E-07	0.1695	-0.5799	1.86E-07	0.9991	2850053.	1.2426	1350000.	0.00
19.2000	-1.46E-07	0.07836	-0.3573	1.95E-07	0.4619	2850053.	0.9832	1350000.	0.00
19.4000	-1.06E-07	0.02656	-0.1874	1.99E-07	0.1566	2850053.	0.7164	1350000.	0.00
19.6000	-6.62E-08	0.00342	-0.07101	2.00E-07	0.02016	2850053.	0.4471	1350000.	0.00
19.8000	-2.63E-08	-0.00184	-0.00855	2.00E-07	0.01084	2850053.	0.1775	1350000.	0.00
20.0000	1.36E-08	0.00	0.00	2.00E-07	0.00	2850053.	-0.09199	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 11:

Pile-head deflection = 0.01952933 meters
Computed slope at pile head = -0.00372978 radians
Maximum bending moment = 1621. kN-m
Maximum shear force = 500.00000000 kN
Depth of maximum bending moment = 5.40000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 17
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 12

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 600.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.02590	-9.89E-10	600.0000	-0.00481	5.83E-09	2850053.	-67.3766	260.1547	0.00
0.2000	0.02494	118.6525	586.3356	-0.00481	699.4121	2850053.	-69.2671	555.5415	0.00
0.4000	0.02398	234.5343	572.3023	-0.00479	1382.	2850053.	-71.0661	592.7950	0.00
0.6000	0.02302	347.5734	557.9186	-0.00477	2049.	2850053.	-72.7710	632.2499	0.00
0.8000	0.02207	457.7017	543.2035	-0.00474	2698.	2850053.	-74.3797	674.1052	0.00
1.0000	0.02112	564.8548	528.1766	-0.00471	3330.	2850053.	-75.8897	718.5817	0.00
1.2000	0.02018	668.9723	512.8577	-0.00466	3943.	2850053.	-77.2987	765.9254	0.00
1.4000	0.01926	769.9979	497.2674	-0.00461	4539.	2850053.	-78.6045	816.4104	0.00
1.6000	0.01834	867.8793	481.4265	-0.00456	5116.	2850053.	-79.8046	870.3435	0.00
1.8000	0.01743	962.5685	465.3564	-0.00449	5674.	2850053.	-80.8967	928.0690	0.00
2.0000	0.01654	1054.	449.0789	-0.00442	6213.	2850053.	-81.8786	989.9742	0.00
2.2000	0.01566	1142.	432.6162	-0.00434	6733.	2850053.	-82.7477	1056.	0.00
2.4000	0.01480	1227.	415.9913	-0.00426	7233.	2850053.	-83.5019	1128.	0.00
2.6000	0.01396	1309.	399.2272	-0.00417	7714.	2850053.	-84.1386	1205.	0.00
2.8000	0.01313	1387.	382.3478	-0.00408	8174.	2850053.	-84.6555	1289.	0.00
3.0000	0.01233	1462.	365.3772	-0.00398	8615.	2850053.	-85.0502	1380.	0.00
3.2000	0.01154	1533.	348.3402	-0.00387	9036.	2850053.	-85.3202	1478.	0.00
3.4000	0.01078	1601.	331.2619	-0.00376	9437.	2850053.	-85.4632	1586.	0.00
3.6000	0.01004	1665.	314.1679	-0.00365	9817.	2850053.	-85.4766	1703.	0.00
3.8000	0.00932	1727.	297.0844	-0.00353	10177.	2850053.	-85.3580	1832.	0.00
4.0000	0.00863	1784.	280.0381	-0.00341	10517.	2850053.	-85.1051	1973.	0.00
4.2000	0.00796	1839.	263.0561	-0.00328	10838.	2850053.	-84.7154	2129.	0.00
4.4000	0.00731	1889.	246.1659	-0.00315	11138.	2850053.	-84.1866	2302.	0.00
4.6000	0.00670	1937.	229.3955	-0.00301	11418.	2850053.	-83.5166	2494.	0.00
4.8000	0.00611	1981.	191.5845	-0.00288	11679.	2850053.	-294.5943	9645.	0.00
5.0000	0.00555	2014.	133.8039	-0.00274	11870.	2850053.	-283.2110	10211.	0.00
5.2000	0.00501	2035.	78.6705	-0.00259	11994.	2850053.	-268.1231	10695.	0.00
5.4000	0.00451	2045.	26.9067	-0.00245	12055.	2850053.	-249.5148	11067.	0.00
5.6000	0.00403	2046.	-20.8155	-0.00231	12058.	2850053.	-227.7075	11291.	0.00
5.8000	0.00359	2037.	-64.7304	-0.00216	12006.	2850053.	-211.4416	11792.	0.00
6.0000	0.00317	2020.	-106.4302	-0.00202	11905.	2850053.	-205.5568	12979.	0.00
6.2000	0.00278	1994.	-146.7964	-0.00188	11755.	2850053.	-198.1052	14267.	0.00
6.4000	0.00241	1961.	-185.5214	-0.00174	11559.	2850053.	-189.1446	15665.	0.00
6.6000	0.00208	1920.	-222.3113	-0.00161	11318.	2850053.	-178.7540	17187.	0.00

6.8000	0.00177	1872.	-256.8899	-0.00147	11035.	2850053.	-167.0321	18850.	0.00
7.0000	0.00149	1817.	-289.2082	-0.00134	10712.	2850053.	-156.1506	20951.	0.00
7.2000	0.00123	1756.	-319.5321	-0.00122	10353.	2850053.	-147.0884	23828.	0.00
7.4000	0.00100	1689.	-347.9162	-0.00110	9959.	2850053.	-136.7530	27264.	0.00
7.6000	7.95E-04	1617.	-374.1011	-9.82E-04	9532.	2850053.	-125.0963	31452.	0.00
7.8000	6.10E-04	1540.	-397.8139	-8.71E-04	9077.	2850053.	-112.0314	36704.	0.00
8.0000	4.47E-04	1458.	-418.3930	-7.66E-04	8594.	2850053.	-93.7592	41944.	0.00
8.2000	3.04E-04	1372.	-434.3067	-6.67E-04	8090.	2850053.	-65.3783	42992.	0.00
8.4000	1.80E-04	1284.	-444.8186	-5.73E-04	7570.	2850053.	-39.7403	44041.	0.00
8.6000	7.48E-05	1195.	-450.4795	-4.86E-04	7041.	2850053.	-16.8690	45090.	0.00
8.8000	-1.41E-05	1104.	-451.8421	-4.06E-04	6508.	2850053.	3.2425	46138.	0.00
9.0000	-8.74E-05	1014.	-449.4549	-3.31E-04	5976.	2850053.	20.6301	47187.	0.00
9.2000	-1.47E-04	924.3065	-443.8563	-2.63E-04	5448.	2850053.	35.3557	48235.	0.00
9.4000	-1.93E-04	836.2424	-435.5702	-2.02E-04	4929.	2850053.	47.5049	49284.	0.00
9.6000	-2.27E-04	750.0784	-425.1013	-1.46E-04	4421.	2850053.	57.1847	50332.	0.00
9.8000	-2.51E-04	666.2019	-412.9307	-9.62E-05	3927.	2850053.	64.5213	51381.	0.00
10.0000	-2.66E-04	584.9062	-399.5128	-5.23E-05	3448.	2850053.	69.6575	52430.	0.00
10.2000	-2.72E-04	506.3968	-385.2719	-1.40E-05	2985.	2850053.	72.7516	53478.	0.00
10.4000	-2.71E-04	430.7974	-370.5993	1.88E-05	2539.	2850053.	73.9746	54527.	0.00
10.6000	-2.65E-04	358.1570	-355.8508	4.65E-05	2111.	2850053.	73.5098	55575.	0.00
10.8000	-2.53E-04	288.4571	-341.3448	6.92E-05	1700.	2850053.	71.5506	56624.	0.00
11.0000	-2.37E-04	221.6191	-327.3597	8.71E-05	1306.	2850053.	68.3000	57673.	0.00
11.2000	-2.18E-04	157.5132	-314.1328	1.00E-04	928.4815	2850053.	63.9698	58721.	0.00
11.4000	-1.97E-04	95.9660	-301.8578	1.09E-04	565.6839	2850053.	58.7799	59770.	0.00
11.6000	-1.74E-04	36.7701	-290.6840	1.14E-04	216.7458	2850053.	52.9583	60818.	0.00
11.8000	-1.51E-04	-20.3076	-259.7257	1.15E-04	119.7056	2850053.	256.6243	339673.	0.00
12.0000	-1.28E-04	-67.1202	-209.4273	1.11E-04	395.6487	2850053.	246.3599	383934.	0.00
12.2000	-1.07E-04	-104.0785	-161.2768	1.05E-04	613.5039	2850053.	235.1449	441545.	0.00
12.4000	-8.61E-05	-131.6309	-115.4625	9.72E-05	775.9154	2850053.	222.9984	517720.	0.00
12.6000	-6.76E-05	-150.2635	-72.1716	8.73E-05	885.7472	2850053.	209.9101	620759.	0.00
12.8000	-5.12E-05	-160.4996	-31.5980	7.64E-05	946.0853	2850053.	195.8265	764607.	0.00
13.0000	-3.71E-05	-162.9027	6.0467	6.51E-05	960.2505	2850053.	180.6199	974532.	0.00
13.2000	-2.52E-05	-158.0809	40.5100	5.38E-05	931.8281	2850053.	164.0131	1301714.	0.00
13.4000	-1.55E-05	-146.6987	67.4074	4.31E-05	864.7339	2850053.	104.9608	1350000.	0.00
13.6000	-7.96E-06	-131.1180	83.2757	3.34E-05	772.8916	2850053.	53.7221	1350000.	0.00
13.8000	-2.21E-06	-113.3884	90.1384	2.48E-05	668.3823	2850053.	14.9048	1350000.	0.00
14.0000	1.95E-06	-95.0626	90.3118	1.75E-05	560.3588	2850053.	-13.1706	1350000.	0.00
14.2000	4.78E-06	-77.2637	85.7707	1.14E-05	455.4406	2850053.	-32.2402	1350000.	0.00
14.4000	6.52E-06	-60.7543	78.1477	6.57E-06	358.1242	2850053.	-43.9903	1350000.	0.00
14.6000	7.41E-06	-46.0046	68.7502	2.83E-06	271.1801	2850053.	-49.9847	1350000.	0.00
14.8000	7.65E-06	-33.2543	58.5896	4.52E-08	196.0216	2850053.	-51.6210	1350000.	0.00
15.0000	7.42E-06	-22.5688	48.4168	-1.91E-06	133.0346	2850053.	-50.1069	1350000.	0.00
15.2000	6.88E-06	-13.8876	38.7606	-3.19E-06	81.8620	2850053.	-46.4547	1350000.	0.00
15.4000	6.15E-06	-7.0645	29.9665	-3.93E-06	41.6428	2850053.	-41.4869	1350000.	0.00

15.6000	5.31E-06	-1.9010	22.2328	-4.24E-06	11.2055	2850053.	-35.8498	1350000.	0.00
15.8000	4.45E-06	1.8286	15.6446	-4.24E-06	10.7789	2850053.	-30.0326	1350000.	0.00
16.0000	3.61E-06	4.3569	10.2024	-4.03E-06	25.6821	2850053.	-24.3887	1350000.	0.00
16.2000	2.84E-06	5.9096	5.8478	-3.67E-06	34.8348	2850053.	-19.1575	1350000.	0.00
16.4000	2.15E-06	6.6960	2.4835	-3.23E-06	39.4704	2850053.	-14.4862	1350000.	0.00
16.6000	1.55E-06	6.9030	-0.01009	-2.75E-06	40.6904	2850053.	-10.4492	1350000.	0.00
16.8000	1.05E-06	6.6920	-1.7616	-2.27E-06	39.4466	2850053.	-7.0662	1350000.	0.00
17.0000	6.40E-07	6.1983	-2.8999	-1.82E-06	36.5367	2850053.	-4.3171	1350000.	0.00
17.2000	3.19E-07	5.5320	-3.5472	-1.41E-06	32.6090	2850053.	-2.1552	1350000.	0.00
17.4000	7.67E-08	4.7794	-3.8144	-1.05E-06	28.1730	2850053.	-0.5174	1350000.	0.00
17.6000	-9.89E-08	4.0062	-3.7994	-7.37E-07	23.6151	2850053.	0.6676	1350000.	0.00
17.8000	-2.18E-07	3.2597	-3.5853	-4.82E-07	19.2146	2850053.	1.4731	1350000.	0.00
18.0000	-2.92E-07	2.5721	-3.2410	-2.78E-07	15.1614	2850053.	1.9698	1350000.	0.00
18.2000	-3.29E-07	1.9633	-2.8218	-1.19E-07	11.5727	2850053.	2.2228	1350000.	0.00
18.4000	-3.39E-07	1.4434	-2.3705	9.87E-10	8.5081	2850053.	2.2899	1350000.	0.00
18.6000	-3.29E-07	1.0151	-1.9195	8.72E-08	5.9834	2850053.	2.2202	1350000.	0.00
18.8000	-3.04E-07	0.6756	-1.4920	1.47E-07	3.9822	2850053.	2.0543	1350000.	0.00
19.0000	-2.70E-07	0.4182	-1.1042	1.85E-07	2.4654	2850053.	1.8245	1350000.	0.00
19.2000	-2.30E-07	0.2339	-0.7662	2.08E-07	1.3787	2850053.	1.5550	1350000.	0.00
19.4000	-1.87E-07	0.1118	-0.4844	2.20E-07	0.6587	2850053.	1.2633	1350000.	0.00
19.6000	-1.42E-07	0.04014	-0.2620	2.25E-07	0.2366	2850053.	0.9611	1350000.	0.00
19.8000	-9.70E-08	0.00697	-0.1003	2.27E-07	0.04107	2850053.	0.6551	1350000.	0.00
20.0000	-5.16E-08	0.00	0.00	2.27E-07	0.00	2850053.	0.3484	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 12:

Pile-head deflection = 0.02589866 meters
Computed slope at pile head = -0.00480930 radians
Maximum bending moment = 2046. kN-m
Maximum shear force = 600.00000000 kN
Depth of maximum bending moment = 5.60000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 17
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 13

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 700.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.03276	-1.48E-09	700.0000	-0.00595	8.74E-09	2850053.	-72.8662	222.4316	0.00
0.2000	0.03157	138.5427	685.2202	-0.00594	816.6575	2850053.	-74.9323	474.7140	0.00
0.4000	0.03038	274.0881	670.0367	-0.00593	1616.	2850053.	-76.9020	506.2357	0.00
0.6000	0.02920	406.5574	654.4692	-0.00590	2397.	2850053.	-78.7729	539.5738	0.00
0.8000	0.02802	535.8757	638.5377	-0.00587	3159.	2850053.	-80.5426	574.8892	0.00
1.0000	0.02685	661.9724	622.2626	-0.00583	3902.	2850053.	-82.2086	612.3601	0.00
1.2000	0.02569	784.7808	605.6649	-0.00578	4626.	2850053.	-83.7684	652.1841	0.00
1.4000	0.02454	904.2384	588.7661	-0.00572	5330.	2850053.	-85.2196	694.5815	0.00
1.6000	0.02340	1020.	571.5881	-0.00565	6014.	2850053.	-86.5598	739.7980	0.00
1.8000	0.02228	1133.	554.1535	-0.00558	6678.	2850053.	-87.7865	788.1084	0.00
2.0000	0.02117	1242.	536.4851	-0.00549	7321.	2850053.	-88.8972	839.8212	0.00
2.2000	0.02008	1347.	518.6064	-0.00540	7943.	2850053.	-89.8896	895.2835	0.00
2.4000	0.01901	1449.	500.5414	-0.00530	8544.	2850053.	-90.7610	954.8872	0.00
2.6000	0.01796	1548.	482.3144	-0.00520	9123.	2850053.	-91.5090	1019.	0.00
2.8000	0.01693	1642.	463.9504	-0.00509	9681.	2850053.	-92.1310	1088.	0.00
3.0000	0.01592	1733.	445.4748	-0.00497	10217.	2850053.	-92.6246	1163.	0.00
3.2000	0.01494	1821.	426.9136	-0.00484	10731.	2850053.	-92.9872	1245.	0.00
3.4000	0.01399	1904.	408.2933	-0.00471	11224.	2850053.	-93.2163	1333.	0.00
3.6000	0.01306	1984.	389.6407	-0.00458	11694.	2850053.	-93.3093	1429.	0.00
3.8000	0.01216	2060.	370.9834	-0.00443	12142.	2850053.	-93.2636	1534.	0.00
4.0000	0.01128	2132.	352.3494	-0.00429	12569.	2850053.	-93.0768	1650.	0.00
4.2000	0.01044	2201.	333.7671	-0.00414	12973.	2850053.	-92.7465	1776.	0.00
4.4000	0.00963	2266.	315.2654	-0.00398	13356.	2850053.	-92.2701	1916.	0.00
4.6000	0.00885	2327.	296.8738	-0.00382	13716.	2850053.	-91.6456	2071.	0.00
4.8000	0.00810	2384.	254.4928	-0.00365	14056.	2850053.	-332.1646	8199.	0.00
5.0000	0.00739	2429.	189.0638	-0.00348	14316.	2850053.	-322.1256	8719.	0.00
5.2000	0.00671	2460.	126.0548	-0.00331	14501.	2850053.	-307.9644	9180.	0.00
5.4000	0.00606	2479.	66.2806	-0.00314	14614.	2850053.	-289.7777	9556.	0.00
5.6000	0.00545	2487.	10.5230	-0.00296	14658.	2850053.	-267.7984	9820.	0.00
5.8000	0.00488	2483.	-41.3919	-0.00279	14638.	2850053.	-251.3504	10304.	0.00
6.0000	0.00434	2470.	-91.1158	-0.00262	14560.	2850053.	-245.8891	11336.	0.00
6.2000	0.00383	2447.	-139.5659	-0.00244	14424.	2850053.	-238.6112	12452.	0.00
6.4000	0.00336	2414.	-186.3833	-0.00227	14231.	2850053.	-229.5630	13661.	0.00

6.6000	0.00292	2372.	-231.2211	-0.00211	13984.	2850053.	-218.8152	14971.	0.00
6.8000	0.00252	2322.	-273.7488	-0.00194	13686.	2850053.	-206.4622	16393.	0.00
7.0000	0.00215	2263.	-313.8887	-0.00178	13339.	2850053.	-194.9369	18158.	0.00
7.2000	0.00181	2196.	-351.9251	-0.00162	12946.	2850053.	-185.4264	20522.	0.00
7.4000	0.00150	2122.	-387.9173	-0.00147	12509.	2850053.	-174.4962	23299.	0.00
7.6000	0.00122	2041.	-421.5789	-0.00133	12031.	2850053.	-162.1192	26611.	0.00
7.8000	9.68E-04	1953.	-452.6153	-0.00119	11515.	2850053.	-148.2456	30639.	0.00
8.0000	7.44E-04	1860.	-480.7181	-0.00105	10964.	2850053.	-132.7822	35678.	0.00
8.2000	5.47E-04	1761.	-505.5515	-9.24E-04	10381.	2850053.	-115.5516	42243.	0.00
8.4000	3.75E-04	1658.	-525.3546	-8.04E-04	9772.	2850053.	-82.4795	44041.	0.00
8.6000	2.25E-04	1551.	-538.6818	-6.92E-04	9143.	2850053.	-50.7926	45090.	0.00
8.8000	9.78E-05	1442.	-546.0173	-5.87E-04	8502.	2850053.	-22.5622	46138.	0.00
9.0000	-9.45E-06	1333.	-548.0506	-4.89E-04	7855.	2850053.	2.2292	47187.	0.00
9.2000	-9.80E-05	1223.	-545.4642	-4.00E-04	7209.	2850053.	23.6345	48235.	0.00
9.4000	-1.69E-04	1114.	-538.9270	-3.18E-04	6569.	2850053.	41.7384	49284.	0.00
9.6000	-2.25E-04	1007.	-529.0877	-2.43E-04	5939.	2850053.	56.6546	50332.	0.00
9.8000	-2.67E-04	902.8028	-516.5699	-1.76E-04	5322.	2850053.	68.5227	51381.	0.00
10.0000	-2.96E-04	800.8592	-501.9671	-1.17E-04	4721.	2850053.	77.5054	52430.	0.00
10.2000	-3.13E-04	702.0159	-485.8380	-6.38E-05	4138.	2850053.	83.7860	53478.	0.00
10.4000	-3.21E-04	606.5240	-468.7028	-1.79E-05	3575.	2850053.	87.5660	54527.	0.00
10.6000	-3.21E-04	514.5348	-451.0399	2.14E-05	3033.	2850053.	89.0627	55575.	0.00
10.8000	-3.13E-04	426.1081	-433.2828	5.44E-05	2512.	2850053.	88.5079	56624.	0.00
11.0000	-2.99E-04	341.2217	-415.8175	8.13E-05	2011.	2850053.	86.1458	57673.	0.00
11.2000	-2.80E-04	259.7811	-398.9797	1.02E-04	1531.	2850053.	82.2320	58721.	0.00
11.4000	-2.58E-04	181.6298	-383.0532	1.18E-04	1071.	2850053.	77.0330	59770.	0.00
11.6000	-2.33E-04	106.5598	-368.2674	1.28E-04	628.1304	2850053.	70.8249	60818.	0.00
11.8000	-2.07E-04	34.3228	-333.4366	1.33E-04	202.3203	2850053.	277.4833	268683.	0.00
12.0000	-1.80E-04	-26.8148	-278.8886	1.33E-04	158.0634	2850053.	267.9961	298247.	0.00
12.2000	-1.53E-04	-77.2326	-226.3354	1.30E-04	455.2576	2850053.	257.5365	336092.	0.00
12.4000	-1.28E-04	-117.3490	-175.9674	1.23E-04	691.7285	2850053.	246.1433	384969.	0.00
12.6000	-1.04E-04	-147.6196	-127.9697	1.13E-04	870.1625	2850053.	233.8335	449044.	0.00
12.8000	-8.25E-05	-168.5369	-82.5267	1.02E-04	993.4621	2850053.	220.5972	534849.	0.00
13.0000	-6.32E-05	-180.6303	-39.8283	9.01E-05	1065.	2850053.	206.3868	653153.	0.00
13.2000	-4.64E-05	-184.4682	-0.08051	7.73E-05	1087.	2850053.	191.0907	822960.	0.00
13.4000	-3.23E-05	-180.6625	36.4761	6.45E-05	1065.	2850053.	174.4756	1081298.	0.00
13.6000	-2.06E-05	-169.8777	67.8549	5.22E-05	1001.	2850053.	139.3117	1350000.	0.00
13.8000	-1.14E-05	-153.5205	89.4744	4.09E-05	904.9463	2850053.	76.8841	1350000.	0.00
14.0000	-4.30E-06	-134.0879	100.0629	3.08E-05	790.3985	2850053.	29.0003	1350000.	0.00
14.2000	9.16E-07	-113.4954	102.3448	2.21E-05	669.0129	2850053.	-6.1807	1350000.	0.00
14.4000	4.53E-06	-93.1500	98.6658	1.48E-05	549.0846	2850053.	-30.6097	1350000.	0.00
14.6000	6.85E-06	-74.0290	90.9834	8.96E-06	436.3736	2850053.	-46.2142	1350000.	0.00
14.8000	8.12E-06	-56.7566	80.8815	4.37E-06	334.5593	2850053.	-54.8054	1350000.	0.00
15.0000	8.60E-06	-41.6765	69.5989	9.19E-07	245.6672	2850053.	-58.0199	1350000.	0.00
15.2000	8.49E-06	-28.9171	58.0683	-1.56E-06	170.4554	2850053.	-57.2861	1350000.	0.00

15.4000	7.97E-06	-18.4491	46.9584	-3.22E-06	108.7508	2850053.	-53.8129	1350000.	0.00
15.6000	7.20E-06	-10.1337	36.7180	-4.22E-06	59.7344	2850053.	-48.5918	1350000.	0.00
15.8000	6.28E-06	-3.7620	27.6177	-4.71E-06	22.1753	2850053.	-42.4108	1350000.	0.00
16.0000	5.31E-06	0.9134	19.7893	-4.81E-06	5.3839	2850053.	-35.8734	1350000.	0.00
16.2000	4.36E-06	4.1538	13.2597	-4.63E-06	24.4848	2850053.	-29.4225	1350000.	0.00
16.4000	3.46E-06	6.2172	7.9809	-4.27E-06	36.6483	2850053.	-23.3651	1350000.	0.00
16.6000	2.65E-06	7.3461	3.8548	-3.79E-06	43.3027	2850053.	-17.8967	1350000.	0.00
16.8000	1.94E-06	7.7591	0.7527	-3.26E-06	45.7373	2850053.	-13.1242	1350000.	0.00
17.0000	1.35E-06	7.6472	-1.4684	-2.72E-06	45.0774	2850053.	-9.0868	1350000.	0.00
17.2000	8.55E-07	7.1718	-2.9545	-2.20E-06	42.2750	2850053.	-5.7738	1350000.	0.00
17.4000	4.65E-07	6.4654	-3.8459	-1.72E-06	38.1112	2850053.	-3.1403	1350000.	0.00
17.6000	1.66E-07	5.6334	-4.2718	-1.30E-06	33.2069	2850053.	-1.1193	1350000.	0.00
17.8000	-5.45E-08	4.7567	-4.3470	-9.35E-07	28.0388	2850053.	0.3681	1350000.	0.00
18.0000	-2.08E-07	3.8946	-4.1697	-6.31E-07	22.9575	2850053.	1.4048	1350000.	0.00
18.2000	-3.07E-07	3.0888	-3.8219	-3.86E-07	18.2073	2850053.	2.0726	1350000.	0.00
18.4000	-3.63E-07	2.3659	-3.3699	-1.95E-07	13.9459	2850053.	2.4477	1350000.	0.00
18.6000	-3.85E-07	1.7408	-2.8653	-5.08E-08	10.2616	2850053.	2.5987	1350000.	0.00
18.8000	-3.83E-07	1.2198	-2.3469	5.31E-08	7.1900	2850053.	2.5848	1350000.	0.00
19.0000	-3.64E-07	0.8021	-1.8429	1.24E-07	4.7279	2850053.	2.4554	1350000.	0.00
19.2000	-3.33E-07	0.4826	-1.3724	1.69E-07	2.8448	2850053.	2.2499	1350000.	0.00
19.4000	-2.96E-07	0.2531	-0.9475	1.95E-07	1.4921	2850053.	1.9988	1350000.	0.00
19.6000	-2.55E-07	0.1036	-0.5752	2.07E-07	0.6107	2850053.	1.7236	1350000.	0.00
19.8000	-2.13E-07	0.02303	-0.2590	2.12E-07	0.1358	2850053.	1.4387	1350000.	0.00
20.0000	-1.71E-07	0.00	0.00	2.13E-07	0.00	2850053.	1.1515	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 13:

Pile-head deflection = 0.03275893 meters
Computed slope at pile head = -0.00594744 radians
Maximum bending moment = 2487. kN-m
Maximum shear force = 700.00000000 kN
Depth of maximum bending moment = 5.60000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 17
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 14

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 800.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.04005	-1.98E-09	800.0000	-0.00714	1.17E-08	2850053.	-77.9152	194.5364	0.00
0.2000	0.03862	158.4417	784.1942	-0.00713	933.9548	2850053.	-80.1432	414.9860	0.00
0.4000	0.03720	313.6777	767.9528	-0.00711	1849.	2850053.	-82.2705	442.3200	0.00
0.6000	0.03578	465.6228	751.2963	-0.00709	2745.	2850053.	-84.2946	471.1965	0.00
0.8000	0.03436	614.1962	734.2456	-0.00705	3620.	2850053.	-86.2129	501.7497	0.00
1.0000	0.03296	759.3210	716.8220	-0.00700	4476.	2850053.	-88.0229	534.1282	0.00
1.2000	0.03156	900.9250	699.0475	-0.00694	5311.	2850053.	-89.7221	568.4963	0.00
1.4000	0.03018	1039.	680.9445	-0.00687	6124.	2850053.	-91.3079	605.0369	0.00
1.6000	0.02882	1173.	662.5359	-0.00680	6916.	2850053.	-92.7777	643.9533	0.00
1.8000	0.02746	1304.	643.8453	-0.00671	7686.	2850053.	-94.1290	685.4730	0.00
2.0000	0.02613	1431.	624.8964	-0.00661	8434.	2850053.	-95.3592	729.8502	0.00
2.2000	0.02482	1554.	605.7139	-0.00651	9160.	2850053.	-96.4658	777.3706	0.00
2.4000	0.02353	1673.	586.3227	-0.00640	9862.	2850053.	-97.4461	828.3558	0.00
2.6000	0.02226	1788.	566.7484	-0.00627	10542.	2850053.	-98.2976	883.1689	0.00
2.8000	0.02102	1900.	547.0169	-0.00614	11199.	2850053.	-99.0175	942.2212	0.00
3.0000	0.01980	2007.	527.1548	-0.00601	11832.	2850053.	-99.6034	1006.	0.00
3.2000	0.01861	2111.	507.1892	-0.00586	12442.	2850053.	-100.0524	1075.	0.00
3.4000	0.01746	2210.	487.1477	-0.00571	13028.	2850053.	-100.3621	1150.	0.00
3.6000	0.01633	2306.	467.0586	-0.00555	13590.	2850053.	-100.5297	1231.	0.00
3.8000	0.01524	2397.	446.9503	-0.00539	14129.	2850053.	-100.5526	1320.	0.00
4.0000	0.01417	2484.	426.8522	-0.00522	14644.	2850053.	-100.4283	1417.	0.00
4.2000	0.01315	2568.	406.7940	-0.00504	15136.	2850053.	-100.1541	1523.	0.00
4.4000	0.01216	2647.	386.8058	-0.00486	15603.	2850053.	-99.7277	1640.	0.00
4.6000	0.01121	2722.	366.9184	-0.00467	16048.	2850053.	-99.1467	1770.	0.00
4.8000	0.01029	2794.	320.2362	-0.00447	16468.	2850053.	-367.6756	7145.	0.00
5.0000	0.00942	2851.	247.5524	-0.00428	16803.	2850053.	-359.1625	7629.	0.00
5.2000	0.00858	2893.	177.0182	-0.00408	17052.	2850053.	-346.1793	8069.	0.00
5.4000	0.00779	2921.	109.5265	-0.00387	17220.	2850053.	-328.7378	8444.	0.00
5.6000	0.00703	2937.	45.9546	-0.00367	17310.	2850053.	-306.9813	8730.	0.00
5.8000	0.00632	2940.	-13.8107	-0.00346	17328.	2850053.	-290.6708	9199.	0.00
6.0000	0.00565	2931.	-71.4551	-0.00325	17278.	2850053.	-285.7732	10118.	0.00
6.2000	0.00502	2911.	-127.9147	-0.00305	17160.	2850053.	-278.8232	11112.	0.00

6.4000	0.00443	2880.	-182.7824	-0.00285	16976.	2850053.	-269.8538	12185.	0.00
6.6000	0.00388	2838.	-235.6602	-0.00264	16729.	2850053.	-258.9246	13345.	0.00
6.8000	0.00337	2786.	-286.1649	-0.00245	16421.	2850053.	-246.1225	14601.	0.00
7.0000	0.00290	2724.	-334.1866	-0.00225	16054.	2850053.	-234.0945	16137.	0.00
7.2000	0.00247	2652.	-380.0170	-0.00207	15633.	2850053.	-224.2094	18157.	0.00
7.4000	0.00208	2572.	-423.7128	-0.00188	15158.	2850053.	-212.7482	20504.	0.00
7.6000	0.00172	2483.	-464.9571	-0.00170	14634.	2850053.	-199.6950	23264.	0.00
7.8000	0.00139	2386.	-503.4286	-0.00153	14062.	2850053.	-185.0198	26560.	0.00
8.0000	0.00110	2281.	-538.7970	-0.00137	13447.	2850053.	-168.6648	30579.	0.00
8.2000	8.45E-04	2170.	-570.7155	-0.00121	12791.	2850053.	-150.5194	35622.	0.00
8.4000	6.17E-04	2053.	-598.8044	-0.00107	12101.	2850053.	-130.3700	42225.	0.00
8.6000	4.19E-04	1931.	-621.2811	-9.26E-04	11380.	2850053.	-94.3963	45090.	0.00
8.8000	2.47E-04	1804.	-636.4190	-7.95E-04	10636.	2850053.	-56.9831	46138.	0.00
9.0000	1.01E-04	1676.	-644.4917	-6.73E-04	9879.	2850053.	-23.7443	47187.	0.00
9.2000	-2.22E-05	1547.	-646.3305	-5.60E-04	9116.	2850053.	5.3566	48235.	0.00
9.4000	-1.23E-04	1417.	-642.7552	-4.56E-04	8355.	2850053.	30.3969	49284.	0.00
9.6000	-2.05E-04	1289.	-634.5663	-3.61E-04	7601.	2850053.	51.4915	50332.	0.00
9.8000	-2.68E-04	1164.	-622.5383	-2.75E-04	6859.	2850053.	68.7887	51381.	0.00
10.0000	-3.15E-04	1040.	-607.4127	-1.98E-04	6133.	2850053.	82.4672	52430.	0.00
10.2000	-3.47E-04	920.6121	-589.8928	-1.29E-04	5427.	2850053.	92.7321	53478.	0.00
10.4000	-3.66E-04	804.4882	-570.6384	-6.83E-05	4742.	2850053.	99.8122	54527.	0.00
10.6000	-3.74E-04	692.3567	-550.2614	-1.58E-05	4081.	2850053.	103.9573	55575.	0.00
10.8000	-3.72E-04	584.3836	-529.3222	2.90E-05	3445.	2850053.	105.4352	56624.	0.00
11.0000	-3.62E-04	480.6279	-508.3256	6.64E-05	2833.	2850053.	104.5301	57673.	0.00
11.2000	-3.46E-04	381.0534	-487.7186	9.66E-05	2246.	2850053.	101.5406	58721.	0.00
11.4000	-3.24E-04	285.5405	-467.8867	1.20E-04	1683.	2850053.	96.7782	59770.	0.00
11.6000	-2.98E-04	193.8987	-449.1522	1.37E-04	1143.	2850053.	90.5664	60818.	0.00
11.8000	-2.69E-04	105.8796	-410.4505	1.47E-04	624.1206	2850053.	296.4506	220333.	0.00
12.0000	-2.39E-04	29.7185	-352.0301	1.52E-04	175.1793	2850053.	287.7540	240924.	0.00
12.2000	-2.08E-04	-34.9325	-295.4497	1.52E-04	205.9138	2850053.	278.0495	267046.	0.00
12.4000	-1.78E-04	-88.4614	-240.9056	1.48E-04	521.4471	2850053.	267.3911	300278.	0.00
12.6000	-1.49E-04	-131.2947	-188.5852	1.40E-04	773.9334	2850053.	255.8136	342931.	0.00
12.8000	-1.22E-04	-163.8955	-138.6707	1.30E-04	966.1028	2850053.	243.3315	398474.	0.00
13.0000	-9.74E-05	-186.7630	-91.3440	1.17E-04	1101.	2850053.	229.9346	472283.	0.00
13.2000	-7.52E-05	-200.4331	-46.7928	1.04E-04	1181.	2850053.	215.5777	573099.	0.00
13.4000	-5.59E-05	-205.4801	-5.2191	8.94E-05	1211.	2850053.	200.1596	716055.	0.00
13.6000	-3.95E-05	-202.5207	33.1442	7.51E-05	1194.	2850053.	183.4736	929829.	0.00
13.8000	-2.59E-05	-192.2224	68.0004	6.13E-05	1133.	2850053.	165.0883	1276586.	0.00
14.0000	-1.50E-05	-175.3206	94.6086	4.84E-05	1033.	2850053.	100.9931	1350000.	0.00
14.2000	-6.52E-06	-154.3790	109.1092	3.68E-05	910.0066	2850053.	44.0130	1350000.	0.00
14.4000	-2.46E-07	-131.6769	113.6763	2.68E-05	776.1861	2850053.	1.6579	1350000.	0.00
14.6000	4.18E-06	-108.9085	111.0198	1.83E-05	641.9748	2850053.	-28.2227	1350000.	0.00
14.8000	7.08E-06	-87.2690	103.4189	1.14E-05	514.4180	2850053.	-47.7858	1350000.	0.00
15.0000	8.75E-06	-67.5409	92.7322	6.00E-06	398.1284	2850053.	-59.0816	1350000.	0.00

15.2000	9.48E-06	-50.1761	80.4262	1.87E-06	295.7693	2850053.	-63.9788	1350000.	0.00
15.4000	9.50E-06	-35.3704	67.6160	-1.13E-06	208.4954	2850053.	-64.1226	1350000.	0.00
15.6000	9.02E-06	-23.1297	55.1122	-3.19E-06	136.3408	2850053.	-60.9156	1350000.	0.00
15.8000	8.22E-06	-13.3255	43.4689	-4.47E-06	78.5491	2850053.	-55.5174	1350000.	0.00
16.0000	7.24E-06	-5.7421	33.0315	-5.14E-06	33.8475	2850053.	-48.8568	1350000.	0.00
16.2000	6.17E-06	-0.1129	23.9806	-5.34E-06	0.6657	2850053.	-41.6522	1350000.	0.00
16.4000	5.10E-06	3.8501	16.3717	-5.21E-06	22.6951	2850053.	-34.4369	1350000.	0.00
16.6000	4.09E-06	6.4357	10.1694	-4.85E-06	37.9363	2850053.	-27.5864	1350000.	0.00
16.8000	3.16E-06	7.9179	5.2762	-4.35E-06	46.6730	2850053.	-21.3455	1350000.	0.00
17.0000	2.35E-06	8.5462	1.5561	-3.77E-06	50.3767	2850053.	-15.8548	1350000.	0.00
17.2000	1.66E-06	8.5403	-1.1467	-3.17E-06	50.3421	2850053.	-11.1737	1350000.	0.00
17.4000	1.08E-06	8.0875	-2.9942	-2.58E-06	47.6729	2850053.	-7.3016	1350000.	0.00
17.6000	6.22E-07	7.3426	-4.1440	-2.04E-06	43.2821	2850053.	-4.1957	1350000.	0.00
17.8000	2.65E-07	6.4299	-4.7421	-1.56E-06	37.9020	2850053.	-1.7855	1350000.	0.00
18.0000	-2.32E-09	5.4458	-4.9191	-1.14E-06	32.1009	2850053.	0.01568	1350000.	0.00
18.2000	-1.93E-07	4.4623	-4.7874	-7.95E-07	26.3036	2850053.	1.3009	1350000.	0.00
18.4000	-3.21E-07	3.5308	-4.4410	-5.15E-07	20.8129	2850053.	2.1634	1350000.	0.00
18.6000	-3.99E-07	2.6859	-3.9555	-2.97E-07	15.8324	2850053.	2.6914	1350000.	0.00
18.8000	-4.39E-07	1.9486	-3.3899	-1.34E-07	11.4864	2850053.	2.9649	1350000.	0.00
19.0000	-4.52E-07	1.3299	-2.7880	-1.92E-08	7.8396	2850053.	3.0539	1350000.	0.00
19.2000	-4.47E-07	0.8334	-2.1809	5.67E-08	4.9127	2850053.	3.0168	1350000.	0.00
19.4000	-4.30E-07	0.4576	-1.5891	1.02E-07	2.6973	2850053.	2.9008	1350000.	0.00
19.6000	-4.06E-07	0.1978	-1.0249	1.25E-07	1.1658	2850053.	2.7415	1350000.	0.00
19.8000	-3.80E-07	0.04762	-0.4944	1.34E-07	0.2807	2850053.	2.5634	1350000.	0.00
20.0000	-3.53E-07	0.00	0.00	1.35E-07	0.00	2850053.	2.3808	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 14:

Pile-head deflection = 0.04005172 meters
Computed slope at pile head = -0.00713604 radians
Maximum bending moment = 2940. kN-m
Maximum shear force = 800.00000000 kN
Depth of maximum bending moment = 5.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 18
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection

for Lateral Loading for Load Case Number 15

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 1000.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.05576	-7.42E-09	1000.	-0.00964	4.37E-08	2850053.	-86.9986	156.0343	0.00
0.2000	0.05383	198.2600	982.3483	-0.00963	1169.	2850053.	-89.5188	332.6115	0.00
0.4000	0.05190	392.9393	964.2033	-0.00961	2316.	2850053.	-91.9307	354.2445	0.00
0.6000	0.04998	583.9413	945.5871	-0.00958	3442.	2850053.	-94.2315	377.0583	0.00
0.8000	0.04807	771.1741	926.5221	-0.00953	4546.	2850053.	-96.4186	401.1530	0.00
1.0000	0.04617	954.5502	907.0313	-0.00947	5627.	2850053.	-98.4891	426.6388	0.00
1.2000	0.04428	1134.	887.1383	-0.00940	6684.	2850053.	-100.4404	453.6374	0.00
1.4000	0.04241	1309.	866.8673	-0.00931	7718.	2850053.	-102.2698	482.2839	0.00
1.6000	0.04056	1481.	846.2429	-0.00921	8728.	2850053.	-103.9746	512.7279	0.00
1.8000	0.03872	1648.	825.2902	-0.00910	9714.	2850053.	-105.5519	545.1363	0.00
2.0000	0.03692	1811.	804.0351	-0.00898	10674.	2850053.	-106.9990	579.6950	0.00
2.2000	0.03513	1970.	782.5039	-0.00885	11610.	2850053.	-108.3132	616.6121	0.00
2.4000	0.03338	2124.	760.7235	-0.00871	12519.	2850053.	-109.4916	656.1210	0.00
2.6000	0.03165	2274.	738.7211	-0.00855	13403.	2850053.	-110.5315	698.4842	0.00
2.8000	0.02995	2419.	716.5250	-0.00839	14261.	2850053.	-111.4301	743.9978	0.00
3.0000	0.02829	2560.	694.1635	-0.00821	15093.	2850053.	-112.1845	792.9965	0.00
3.2000	0.02667	2697.	671.6659	-0.00803	15898.	2850053.	-112.7919	845.8603	0.00
3.4000	0.02508	2829.	649.0617	-0.00783	16676.	2850053.	-113.2495	903.0214	0.00
3.6000	0.02354	2957.	626.3813	-0.00763	17428.	2850053.	-113.5544	964.9734	0.00
3.8000	0.02203	3080.	603.6555	-0.00742	18153.	2850053.	-113.7039	1032.	0.00
4.0000	0.02057	3198.	580.9156	-0.00720	18852.	2850053.	-113.6952	1106.	0.00
4.2000	0.01915	3312.	558.1935	-0.00697	19523.	2850053.	-113.5255	1186.	0.00
4.4000	0.01778	3421.	535.5217	-0.00674	20168.	2850053.	-113.1924	1273.	0.00
4.6000	0.01646	3526.	512.9332	-0.00649	20786.	2850053.	-112.6933	1370.	0.00
4.8000	0.01518	3627.	458.2930	-0.00624	21377.	2850053.	-433.7086	5713.	0.00
5.0000	0.01396	3710.	372.0608	-0.00598	21866.	2850053.	-428.6136	6141.	0.00
5.2000	0.01279	3775.	287.3476	-0.00572	22254.	2850053.	-418.5176	6545.	0.00
5.4000	0.01167	3824.	205.1684	-0.00545	22544.	2850053.	-403.2749	6910.	0.00
5.6000	0.01061	3857.	126.5554	-0.00518	22738.	2850053.	-382.8554	7219.	0.00
5.8000	0.00960	3875.	51.5145	-0.00491	22842.	2850053.	-367.5535	7659.	0.00
6.0000	0.00864	3878.	-21.6507	-0.00464	22860.	2850053.	-364.0984	8426.	0.00

6.2000	0.00774	3866.	-93.8762	-0.00437	22791.	2850053.	-358.1567	9253.	0.00
6.4000	0.00689	3840.	-164.6650	-0.00410	22638.	2850053.	-349.7306	10145.	0.00
6.6000	0.00610	3801.	-233.5233	-0.00383	22403.	2850053.	-338.8530	11106.	0.00
6.8000	0.00536	3747.	-299.9675	-0.00357	22088.	2850053.	-325.5891	12143.	0.00
7.0000	0.00468	3681.	-363.8164	-0.00331	21696.	2850053.	-312.8993	13384.	0.00
7.2000	0.00404	3602.	-425.3514	-0.00305	21230.	2850053.	-302.4506	14970.	0.00
7.4000	0.00346	3510.	-484.6067	-0.00280	20693.	2850053.	-290.1033	16788.	0.00
7.6000	0.00292	3408.	-541.2022	-0.00256	20087.	2850053.	-275.8509	18890.	0.00
7.8000	0.00243	3294.	-594.7555	-0.00232	19417.	2850053.	-259.6820	21345.	0.00
8.0000	0.00199	3170.	-644.8809	-0.00210	18685.	2850053.	-241.5719	24256.	0.00
8.2000	0.00160	3036.	-691.1849	-0.00188	17896.	2850053.	-221.4686	27770.	0.00
8.4000	0.00124	2893.	-733.2587	-0.00167	17055.	2850053.	-199.2693	32120.	0.00
8.6000	9.27E-04	2743.	-770.6630	-0.00147	16167.	2850053.	-174.7742	37700.	0.00
8.8000	6.52E-04	2585.	-802.8993	-0.00128	15238.	2850053.	-147.5882	45267.	0.00
9.0000	4.13E-04	2422.	-827.4078	-0.00111	14274.	2850053.	-97.4976	47187.	0.00
9.2000	2.08E-04	2254.	-842.1836	-9.45E-04	13287.	2850053.	-50.2603	48235.	0.00
9.4000	3.52E-05	2085.	-848.0767	-7.93E-04	12288.	2850053.	-8.6706	49284.	0.00
9.6000	-1.09E-04	1915.	-846.2066	-6.53E-04	11287.	2850053.	27.3721	50332.	0.00
9.8000	-2.26E-04	1746.	-837.6674	-5.24E-04	10293.	2850053.	58.0200	51381.	0.00
10.0000	-3.18E-04	1580.	-823.5183	-4.07E-04	9312.	2850053.	83.4710	52430.	0.00
10.2000	-3.89E-04	1417.	-804.7748	-3.02E-04	8351.	2850053.	103.9640	53478.	0.00
10.4000	-4.39E-04	1258.	-782.4009	-2.08E-04	7415.	2850053.	119.7741	54527.	0.00
10.6000	-4.72E-04	1104.	-757.3027	-1.26E-04	6507.	2850053.	131.2081	55575.	0.00
10.8000	-4.90E-04	954.9779	-730.3219	-5.33E-05	5629.	2850053.	138.6005	56624.	0.00
11.0000	-4.94E-04	811.6856	-702.2308	8.66E-06	4785.	2850053.	142.3102	57673.	0.00
11.2000	-4.86E-04	674.0856	-673.7281	6.08E-05	3973.	2850053.	142.7167	58721.	0.00
11.4000	-4.69E-04	542.1943	-645.4346	1.03E-04	3196.	2850053.	140.2180	59770.	0.00
11.6000	-4.45E-04	415.9118	-617.8900	1.37E-04	2452.	2850053.	135.2282	60818.	0.00
11.8000	-4.14E-04	295.0383	-571.3437	1.62E-04	1739.	2850053.	330.2347	159395.	0.00
12.0000	-3.80E-04	187.3743	-506.0061	1.79E-04	1105.	2850053.	323.1415	170127.	0.00
12.2000	-3.43E-04	92.6359	-442.1974	1.89E-04	546.0539	2850053.	314.9454	183761.	0.00
12.4000	-3.04E-04	10.4953	-380.1301	1.92E-04	61.8658	2850053.	305.7282	200892.	0.00
12.6000	-2.66E-04	-59.4162	-320.0021	1.91E-04	350.2361	2850053.	295.5517	222373.	0.00
12.8000	-2.28E-04	-117.5055	-262.0009	1.84E-04	692.6514	2850053.	284.4600	249421.	0.00
13.0000	-1.92E-04	-164.2165	-206.3068	1.75E-04	967.9952	2850053.	272.4806	283796.	0.00
13.2000	-1.58E-04	-200.0283	-153.0965	1.62E-04	1179.	2850053.	259.6231	328097.	0.00
13.4000	-1.27E-04	-225.4551	-102.5466	1.47E-04	1329.	2850053.	245.8753	386288.	0.00
13.6000	-9.95E-05	-241.0469	-54.8396	1.31E-04	1421.	2850053.	231.1946	464678.	0.00
13.8000	-7.51E-05	-247.3910	-10.1712	1.13E-04	1458.	2850053.	215.4903	573905.	0.00
14.0000	-5.42E-05	-245.1154	31.2365	9.61E-05	1445.	2850053.	198.5864	733374.	0.00
14.2000	-3.67E-05	-234.8964	69.1086	7.93E-05	1385.	2850053.	180.1344	982784.	0.00
14.4000	-2.25E-05	-217.4719	102.2797	6.34E-05	1282.	2850053.	151.5761	1350000.	0.00
14.6000	-1.13E-05	-193.9845	125.0686	4.89E-05	1143.	2850053.	76.3131	1350000.	0.00
14.8000	-2.88E-06	-167.4445	134.6426	3.63E-05	987.0230	2850053.	19.4272	1350000.	0.00

15.0000	3.20E-06	-140.1275	134.4257	2.55E-05	825.9991	2850053.	-21.5959	1350000.	0.00
15.2000	7.31E-06	-113.6742	127.3318	1.66E-05	670.0672	2850053.	-49.3439	1350000.	0.00
15.4000	9.83E-06	-89.1947	115.7651	9.45E-06	525.7698	2850053.	-66.3230	1350000.	0.00
15.6000	1.11E-05	-67.3682	101.6475	3.95E-06	397.1104	2850053.	-74.8523	1350000.	0.00
15.8000	1.14E-05	-48.5357	86.4624	-1.13E-07	286.1001	2850053.	-76.9994	1350000.	0.00
16.0000	1.10E-05	-32.7832	71.3076	-2.97E-06	193.2450	2850053.	-74.5484	1350000.	0.00
16.2000	1.02E-05	-20.0127	56.9536	-4.82E-06	117.9674	2850053.	-68.9918	1350000.	0.00
16.4000	9.12E-06	-10.0018	43.9005	-5.87E-06	58.9570	2850053.	-61.5392	1350000.	0.00
16.6000	7.87E-06	-2.4525	32.4326	-6.31E-06	14.4566	2850053.	-53.1391	1350000.	0.00
16.8000	6.59E-06	2.9712	22.6681	-6.29E-06	17.5143	2850053.	-44.5067	1350000.	0.00
17.0000	5.36E-06	6.6147	14.6018	-5.95E-06	38.9913	2850053.	-36.1558	1350000.	0.00
17.2000	4.21E-06	8.8120	8.1431	-5.41E-06	51.9432	2850053.	-28.4315	1350000.	0.00
17.4000	3.19E-06	9.8720	3.1458	-4.76E-06	58.1915	2850053.	-21.5420	1350000.	0.00
17.6000	2.31E-06	10.0703	-0.5672	-4.06E-06	59.3605	2850053.	-15.5877	1350000.	0.00
17.8000	1.57E-06	9.6451	-3.1847	-3.37E-06	56.8541	2850053.	-10.5874	1350000.	0.00
18.0000	9.63E-07	8.7964	-4.8936	-2.72E-06	51.8513	2850053.	-6.5009	1350000.	0.00
18.2000	4.81E-07	7.6876	-5.8684	-2.14E-06	45.3158	2850053.	-3.2477	1350000.	0.00
18.4000	1.07E-07	6.4490	-6.2654	-1.64E-06	38.0145	2850053.	-0.7227	1350000.	0.00
18.6000	-1.76E-07	5.1815	-6.2186	-1.24E-06	30.5428	2850053.	1.1912	1350000.	0.00
18.8000	-3.87E-07	3.9616	-5.8380	-9.15E-07	23.3520	2850053.	2.6144	1350000.	0.00
19.0000	-5.43E-07	2.8463	-5.2104	-6.76E-07	16.7776	2850053.	3.6622	1350000.	0.00
19.2000	-6.58E-07	1.8774	-4.4001	-5.11E-07	11.0667	2850053.	4.4403	1350000.	0.00
19.4000	-7.47E-07	1.0862	-3.4520	-4.07E-07	6.4027	2850053.	5.0407	1350000.	0.00
19.6000	-8.20E-07	0.4966	-2.3942	-3.51E-07	2.9273	2850053.	5.5381	1350000.	0.00
19.8000	-8.87E-07	0.1285	-1.2415	-3.29E-07	0.7577	2850053.	5.9884	1350000.	0.00
20.0000	-9.52E-07	0.00	0.00	-3.25E-07	0.00	2850053.	6.4266	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 15:

Pile-head deflection = 0.05575612 meters
Computed slope at pile head = -0.00964122 radians
Maximum bending moment = 3878. kN-m
Maximum shear force = 1000. kN
Depth of maximum bending moment = 6.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 18
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 16

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 1200.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.07274	1.68E-08	1200.	-0.01229	9.91E-08	2850053.	-95.0635	130.6825	0.00
0.2000	0.07029	238.0987	1181.	-0.01228	1404.	2850053.	-97.8442	278.4175	0.00
0.4000	0.06783	472.2837	1161.	-0.01226	2784.	2850053.	-100.5098	296.3520	0.00
0.6000	0.06538	702.4483	1141.	-0.01222	4141.	2850053.	-103.0575	315.2406	0.00
0.8000	0.06295	928.4905	1120.	-0.01216	5473.	2850053.	-105.4844	335.1623	0.00
1.0000	0.06052	1150.	1098.	-0.01209	6781.	2850053.	-107.7877	356.2040	0.00
1.2000	0.05811	1368.	1077.	-0.01200	8063.	2850053.	-109.9645	378.4617	0.00
1.4000	0.05572	1581.	1054.	-0.01189	9319.	2850053.	-112.0118	402.0413	0.00
1.6000	0.05335	1790.	1032.	-0.01177	10549.	2850053.	-113.9269	427.0603	0.00
1.8000	0.05101	1994.	1009.	-0.01164	11752.	2850053.	-115.7068	453.6490	0.00
2.0000	0.04870	2193.	985.5001	-0.01150	12927.	2850053.	-117.3485	481.9525	0.00
2.2000	0.04641	2388.	961.8803	-0.01133	14075.	2850053.	-118.8492	512.1326	0.00
2.4000	0.04416	2578.	937.9748	-0.01116	15195.	2850053.	-120.2059	544.3703	0.00
2.6000	0.04195	2763.	913.8126	-0.01097	16287.	2850053.	-121.4157	578.8685	0.00
2.8000	0.03977	2943.	889.4235	-0.01077	17350.	2850053.	-122.4755	615.8553	0.00
3.0000	0.03764	3119.	864.8377	-0.01056	18384.	2850053.	-123.3824	655.5880	0.00
3.2000	0.03555	3289.	840.0861	-0.01034	19389.	2850053.	-124.1334	698.3573	0.00
3.4000	0.03351	3455.	815.2002	-0.01010	20365.	2850053.	-124.7255	744.4930	0.00
3.6000	0.03151	3615.	790.2121	-0.00985	21311.	2850053.	-125.1557	794.3697	0.00
3.8000	0.02957	3771.	765.1544	-0.00959	22228.	2850053.	-125.4211	848.4150	0.00
4.0000	0.02767	3921.	740.0605	-0.00932	23115.	2850053.	-125.5187	907.1179	0.00
4.2000	0.02584	4067.	714.9640	-0.00904	23973.	2850053.	-125.4457	971.0391	0.00
4.4000	0.02406	4207.	689.8995	-0.00875	24801.	2850053.	-125.1993	1041.	0.00
4.6000	0.02234	4343.	664.9019	-0.00845	25600.	2850053.	-124.7771	1117.	0.00
4.8000	0.02068	4473.	602.9644	-0.00814	26369.	2850053.	-494.5981	4784.	0.00
5.0000	0.01908	4584.	504.1870	-0.00782	27022.	2850053.	-493.1753	5169.	0.00
5.2000	0.01755	4675.	406.2236	-0.00750	27558.	2850053.	-486.4590	5544.	0.00
5.4000	0.01608	4747.	310.1680	-0.00717	27979.	2850053.	-474.0971	5896.	0.00
5.6000	0.01468	4799.	217.1683	-0.00683	28289.	2850053.	-455.8996	6211.	0.00
5.8000	0.01335	4833.	127.3434	-0.00650	28491.	2850053.	-442.3498	6628.	0.00

6.0000	0.01208	4850.	39.0426	-0.00616	28589.	2850053.	-440.6576	7294.	0.00
6.2000	0.01089	4849.	-48.6319	-0.00582	28583.	2850053.	-436.0880	8012.	0.00
6.4000	0.00976	4831.	-135.1017	-0.00548	28475.	2850053.	-428.6094	8786.	0.00
6.6000	0.00870	4795.	-219.7850	-0.00514	28265.	2850053.	-418.2239	9620.	0.00
6.8000	0.00770	4743.	-302.1043	-0.00480	27956.	2850053.	-404.9693	10517.	0.00
7.0000	0.00677	4674.	-381.8009	-0.00447	27553.	2850053.	-391.9968	11574.	0.00
7.2000	0.00591	4590.	-459.1209	-0.00415	27056.	2850053.	-381.2026	12895.	0.00
7.4000	0.00511	4491.	-534.0600	-0.00383	26470.	2850053.	-368.1885	14397.	0.00
7.6000	0.00438	4376.	-606.1738	-0.00352	25797.	2850053.	-352.9500	16114.	0.00
7.8000	0.00371	4248.	-675.0170	-0.00322	25041.	2850053.	-335.4822	18096.	0.00
8.0000	0.00309	4106.	-740.1427	-0.00292	24205.	2850053.	-315.7739	20409.	0.00
8.2000	0.00254	3952.	-801.0998	-0.00264	23296.	2850053.	-293.7979	23144.	0.00
8.4000	0.00204	3786.	-857.4292	-0.00237	22317.	2850053.	-269.4955	26439.	0.00
8.6000	0.00159	3609.	-908.6536	-0.00211	21274.	2850053.	-242.7487	30503.	0.00
8.8000	0.00120	3422.	-954.2613	-0.00186	20174.	2850053.	-213.3289	35697.	0.00
9.0000	8.47E-04	3227.	-993.6728	-0.00163	19024.	2850053.	-180.7860	42694.	0.00
9.2000	5.44E-04	3025.	-1025.	-0.00141	17831.	2850053.	-131.1591	48235.	0.00
9.4000	2.83E-04	2817.	-1045.	-0.00120	16607.	2850053.	-69.7938	49284.	0.00
9.6000	6.22E-05	2607.	-1054.	-0.00101	15367.	2850053.	-15.6470	50332.	0.00
9.8000	-1.22E-04	2396.	-1052.	-8.38E-04	14123.	2850053.	31.4179	51381.	0.00
10.0000	-2.73E-04	2186.	-1042.	-6.77E-04	12887.	2850053.	71.6018	52430.	0.00
10.2000	-3.93E-04	1979.	-1024.	-5.31E-04	11667.	2850053.	105.1630	53478.	0.00
10.4000	-4.86E-04	1777.	-1000.	-4.00E-04	10473.	2850053.	132.4105	54527.	0.00
10.6000	-5.53E-04	1579.	-971.5830	-2.82E-04	9309.	2850053.	153.6978	55575.	0.00
10.8000	-5.98E-04	1388.	-939.2715	-1.78E-04	8182.	2850053.	169.4171	56624.	0.00
11.0000	-6.24E-04	1204.	-904.3304	-8.68E-05	7094.	2850053.	179.9937	57673.	0.00
11.2000	-6.33E-04	1026.	-867.7429	-8.52E-06	6050.	2850053.	185.8813	58721.	0.00
11.4000	-6.28E-04	856.4499	-830.3990	5.75E-05	5048.	2850053.	187.5579	59770.	0.00
11.6000	-6.10E-04	694.1212	-793.0911	1.12E-04	4092.	2850053.	185.5215	60818.	0.00
11.8000	-5.83E-04	539.2134	-738.5742	1.55E-04	3178.	2850053.	359.6470	123415.	0.00
12.0000	-5.48E-04	398.6915	-667.1943	1.88E-04	2350.	2850053.	354.1519	129253.	0.00
12.2000	-5.08E-04	272.3357	-597.0356	2.12E-04	1605.	2850053.	347.4350	136900.	0.00
12.4000	-4.63E-04	159.8773	-528.3315	2.27E-04	942.4169	2850053.	339.6060	146593.	0.00
12.6000	-4.17E-04	61.0031	-461.2959	2.35E-04	359.5904	2850053.	330.7503	158693.	0.00
12.8000	-3.69E-04	-24.6411	-396.1275	2.36E-04	145.2502	2850053.	320.9340	173714.	0.00
13.0000	-3.22E-04	-97.4479	-333.0134	2.32E-04	574.4193	2850053.	310.2068	192377.	0.00
13.2000	-2.77E-04	-157.8465	-272.1324	2.23E-04	930.4462	2850053.	298.6036	215701.	0.00
13.4000	-2.33E-04	-206.3009	-213.6575	2.10E-04	1216.	2850053.	286.1446	245142.	0.00
13.6000	-1.93E-04	-243.3095	-157.7597	1.94E-04	1434.	2850053.	272.8337	282829.	0.00
13.8000	-1.56E-04	-269.4048	-104.6109	1.76E-04	1588.	2850053.	258.6548	331978.	0.00
14.0000	-1.23E-04	-285.1538	-54.3890	1.57E-04	1681.	2850053.	243.5639	397649.	0.00
14.2000	-9.32E-05	-291.1604	-7.2854	1.36E-04	1716.	2850053.	227.4725	488246.	0.00
14.4000	-6.79E-05	-288.0680	36.4835	1.16E-04	1698.	2850053.	210.2157	618796.	0.00
14.6000	-4.68E-05	-276.5670	76.6528	9.63E-05	1630.	2850053.	191.4773	819147.	0.00

14.8000	-2.94E-05	-257.4069	112.8602	7.75E-05	1517.	2850053.	170.5971	1158990.	0.00
15.0000	-1.57E-05	-231.4229	140.5445	6.04E-05	1364.	2850053.	106.2459	1350000.	0.00
15.2000	-5.29E-06	-201.1891	154.7394	4.52E-05	1186.	2850053.	35.7030	1350000.	0.00
15.4000	2.34E-06	-169.5272	156.7317	3.22E-05	999.2994	2850053.	-15.7803	1350000.	0.00
15.6000	7.59E-06	-138.4964	150.0333	2.14E-05	816.3849	2850053.	-51.2035	1350000.	0.00
15.8000	1.09E-05	-109.5138	137.5623	1.27E-05	645.5434	2850053.	-73.5061	1350000.	0.00
16.0000	1.27E-05	-83.4715	121.6683	5.91E-06	492.0335	2850053.	-85.4340	1350000.	0.00
16.2000	1.33E-05	-60.8465	104.1795	8.43E-07	358.6677	2850053.	-89.4542	1350000.	0.00
16.4000	1.30E-05	-41.7997	86.4630	-2.76E-06	246.3938	2850053.	-87.7101	1350000.	0.00
16.6000	1.21E-05	-26.2613	69.4914	-5.15E-06	154.8007	2850053.	-82.0061	1350000.	0.00
16.8000	1.09E-05	-14.0032	53.9094	-6.56E-06	82.5434	2850053.	-73.8142	1350000.	0.00
17.0000	9.53E-06	-4.6976	40.0984	-7.22E-06	27.6903	2850053.	-64.2957	1350000.	0.00
17.2000	8.05E-06	2.0362	28.2356	-7.31E-06	12.0027	2850053.	-54.3322	1350000.	0.00
17.4000	6.60E-06	6.5967	18.3463	-7.01E-06	38.8851	2850053.	-44.5616	1350000.	0.00
17.6000	5.25E-06	9.3747	10.3485	-6.45E-06	55.2605	2850053.	-35.4159	1350000.	0.00
17.8000	4.02E-06	10.7361	4.0911	-5.74E-06	63.2853	2850053.	-27.1584	1350000.	0.00
18.0000	2.95E-06	11.0112	-0.6166	-4.98E-06	64.9066	2850053.	-19.9179	1350000.	0.00
18.2000	2.03E-06	10.4895	-3.9804	-4.22E-06	61.8316	2850053.	-13.7206	1350000.	0.00
18.4000	1.26E-06	9.4190	-6.2042	-3.52E-06	55.5214	2850053.	-8.5170	1350000.	0.00
18.6000	6.23E-07	8.0078	-7.4764	-2.91E-06	47.2031	2850053.	-4.2057	1350000.	0.00
18.8000	9.67E-08	6.4284	-7.9623	-2.41E-06	37.8931	2850053.	-0.6531	1350000.	0.00
19.0000	-3.39E-07	4.8229	-7.7986	-2.01E-06	28.4292	2850053.	2.2906	1350000.	0.00
19.2000	-7.08E-07	3.3090	-7.0918	-1.73E-06	19.5053	2850053.	4.7774	1350000.	0.00
19.4000	-1.03E-06	1.9862	-5.9189	-1.54E-06	11.7079	2850053.	6.9507	1350000.	0.00
19.6000	-1.32E-06	0.9414	-4.3303	-1.44E-06	5.5493	2850053.	8.9358	1350000.	0.00
19.8000	-1.60E-06	0.2541	-2.3535	-1.40E-06	1.4977	2850053.	10.8318	1350000.	0.00
20.0000	-1.88E-06	0.00	0.00	-1.39E-06	0.00	2850053.	12.7036	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 16:

Pile-head deflection = 0.07274390 meters
Computed slope at pile head = -0.01228968 radians
Maximum bending moment = 4850. kN-m
Maximum shear force = 1200. kN
Depth of maximum bending moment = 6.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 18
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 17

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 6000.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.9551	2.45E-07	6000.	-0.1217	1.45E-06	2850053.	-162.0000	16.9619	0.00
0.2000	0.9307	1197.	5967.	-0.1217	7054.	2850053.	-168.6600	36.2421	0.00
0.4000	0.9064	2387.	5933.	-0.1215	14069.	2850053.	-175.3200	38.6842	0.00
0.6000	0.8821	3570.	5897.	-0.1213	21042.	2850053.	-181.9800	41.2594	0.00
0.8000	0.8579	4745.	5860.	-0.1210	27973.	2850053.	-188.6400	43.9779	0.00
1.0000	0.8337	5914.	5821.	-0.1207	34859.	2850053.	-195.3000	46.8508	0.00
1.2000	0.8096	7074.	5782.	-0.1202	41699.	2850053.	-201.9600	49.8901	0.00
1.4000	0.7856	8226.	5741.	-0.1197	48491.	2850053.	-208.6200	53.1091	0.00
1.6000	0.7618	9370.	5698.	-0.1191	55234.	2850053.	-215.2800	56.5224	0.00
1.8000	0.7380	10506.	5654.	-0.1184	61927.	2850053.	-221.9401	60.1458	0.00
2.0000	0.7144	11632.	5609.	-0.1176	68567.	2850053.	-228.6001	63.9970	0.00
2.2000	0.6910	12749.	5563.	-0.1167	75153.	2850053.	-235.2601	68.0951	0.00
2.4000	0.6677	13857.	5515.	-0.1158	81683.	2850053.	-241.9201	72.4616	0.00
2.6000	0.6447	14955.	5466.	-0.1148	88157.	2850053.	-248.5801	77.1199	0.00
2.8000	0.6218	16044.	5416.	-0.1137	94572.	2850053.	-255.2401	82.0961	0.00
3.0000	0.5992	17122.	5364.	-0.1125	100927.	2850053.	-261.9001	87.4192	0.00
3.2000	0.5768	18189.	5311.	-0.1113	107220.	2850053.	-268.5601	93.1213	0.00
3.4000	0.5547	19246.	5257.	-0.1100	113450.	2850053.	-275.2201	99.2381	0.00
3.6000	0.5328	20292.	5201.	-0.1086	119614.	2850053.	-281.8801	105.8096	0.00
3.8000	0.5112	21327.	5144.	-0.1071	125713.	2850053.	-288.5401	112.8805	0.00
4.0000	0.4900	22350.	5086.	-0.1056	131743.	2850053.	-295.2001	120.5009	0.00
4.2000	0.4690	23361.	5026.	-0.1040	137704.	2850053.	-301.8601	128.7270	0.00
4.4000	0.4484	24360.	4965.	-0.1023	143593.	2850053.	-308.5201	137.6221	0.00
4.6000	0.4281	25347.	4902.	-0.1006	149410.	2850053.	-315.1801	147.2578	0.00
4.8000	0.4081	26321.	4796.	-0.09876	155153.	2850053.	-746.5038	365.8175	0.00
5.0000	0.3886	27265.	4643.	-0.09688	160719.	2850053.	-786.4042	404.7770	0.00
5.2000	0.3694	28178.	4482.	-0.09493	166100.	2850053.	-825.3890	446.9087	0.00
5.4000	0.3506	29058.	4313.	-0.09293	171287.	2850053.	-863.2713	492.4709	0.00
5.6000	0.3322	29903.	4137.	-0.09086	176270.	2850053.	-899.8644	541.7503	0.00

5.8000	0.3142	30713.	3952.	-0.08873	181040.	2850053.	-944.8776	601.3644	0.00
6.0000	0.2967	31484.	3757.	-0.08655	185588.	2850053.	-1005.	677.5545	0.00
6.2000	0.2796	32216.	3550.	-0.08431	189899.	2850053.	-1067.	763.2570	0.00
6.4000	0.2630	32904.	3330.	-0.08203	193959.	2850053.	-1131.	859.8427	0.00
6.6000	0.2468	33548.	3098.	-0.07970	197751.	2850053.	-1196.	968.9248	0.00
6.8000	0.2311	34143.	2852.	-0.07732	201262.	2850053.	-1262.	1092.	0.00
7.0000	0.2159	34688.	2592.	-0.07491	204475.	2850053.	-1332.	1234.	0.00
7.2000	0.2011	35180.	2318.	-0.07246	207374.	2850053.	-1408.	1400.	0.00
7.4000	0.1869	35616.	2029.	-0.06997	209941.	2850053.	-1485.	1589.	0.00
7.6000	0.1732	35992.	1724.	-0.06746	212158.	2850053.	-1564.	1806.	0.00
7.8000	0.1599	36305.	1403.	-0.06492	214007.	2850053.	-1645.	2057.	0.00
8.0000	0.1472	36553.	1066.	-0.06237	215467.	2850053.	-1728.	2349.	0.00
8.2000	0.1350	36732.	711.7128	-0.05979	216520.	2850053.	-1814.	2688.	0.00
8.4000	0.1233	36838.	340.2288	-0.05721	217145.	2850053.	-1901.	3084.	0.00
8.6000	0.1121	36868.	-48.9403	-0.05463	217322.	2850053.	-1991.	3552.	0.00
8.8000	0.1014	36818.	-456.2053	-0.05204	217030.	2850053.	-2082.	4106.	0.00
9.0000	0.09127	36685.	-881.9775	-0.04946	216247.	2850053.	-2176.	4767.	0.00
9.2000	0.08164	36465.	-1327.	-0.04690	214950.	2850053.	-2271.	5564.	0.00
9.4000	0.07251	36155.	-1791.	-0.04435	213118.	2850053.	-2369.	6534.	0.00
9.6000	0.06390	35749.	-2274.	-0.04183	210728.	2850053.	-2469.	7727.	0.00
9.8000	0.05578	35245.	-2778.	-0.03933	207756.	2850053.	-2570.	9216.	0.00
10.0000	0.04816	34638.	-3303.	-0.03688	204177.	2850053.	-2674.	11105.	0.00
10.2000	0.04103	33924.	-3829.	-0.03448	199968.	2850053.	-2590.	12623.	0.00
10.4000	0.03437	33106.	-4324.	-0.03212	195148.	2850053.	-2358.	13720.	0.00
10.6000	0.02818	32194.	-4772.	-0.02983	189773.	2850053.	-2127.	15097.	0.00
10.8000	0.02244	31197.	-5175.	-0.02761	183896.	2850053.	-1898.	16919.	0.00
11.0000	0.01714	30124.	-5532.	-0.02546	177571.	2850053.	-1668.	19464.	0.00
11.2000	0.01226	28985.	-5839.	-0.02338	170853.	2850053.	-1409.	22997.	0.00
11.4000	0.00778	27788.	-6091.	-0.02139	163803.	2850053.	-1107.	28450.	0.00
11.6000	0.00370	26548.	-6275.	-0.01949	156492.	2850053.	-728.8727	39404.	0.00
11.8000	-1.12E-05	25279.	-6340.	-0.01767	149008.	2850053.	75.7819	1350000.	0.00
12.0000	-0.00337	24012.	-6276.	-0.01594	141543.	2850053.	557.5430	33117.	0.00
12.2000	-0.00639	22768.	-6155.	-0.01430	134209.	2850053.	654.2913	20491.	0.00
12.4000	-0.00909	21550.	-6018.	-0.01274	127030.	2850053.	714.5774	15730.	0.00
12.6000	-0.01148	20361.	-5871.	-0.01127	120019.	2850053.	757.6535	13197.	0.00
12.8000	-0.01359	19202.	-5716.	-0.00988	113186.	2850053.	790.3070	11628.	0.00
13.0000	-0.01544	18074.	-5556.	-0.00857	106540.	2850053.	815.8135	10571.	0.00
13.2000	-0.01702	16979.	-5391.	-0.00734	100087.	2850053.	836.0325	9822.	0.00
13.4000	-0.01837	15918.	-5222.	-0.00619	93830.	2850053.	852.1329	9276.	0.00
13.6000	-0.01950	14891.	-5050.	-0.00511	87775.	2850053.	864.9024	8871.	0.00
13.8000	-0.02042	13898.	-4876.	-0.00410	81923.	2850053.	874.8998	8570.	0.00
14.0000	-0.02114	12940.	-4700.	-0.00316	76277.	2850053.	882.5369	8350.	0.00
14.2000	-0.02168	12018.	-4523.	-0.00228	70840.	2850053.	888.1266	8193.	0.00
14.4000	-0.02205	11131.	-4345.	-0.00147	65612.	2850053.	891.9120	8089.	0.00

14.6000	-0.02227	10280.	-4167.	-7.18E-04	60595.	2850053.	894.0859	8031.	0.00
14.8000	-0.02234	9464.	-3988.	-2.54E-05	55788.	2850053.	894.8027	8011.	0.00
15.0000	-0.02228	8685.	-3809.	6.11E-04	51192.	2850053.	894.1879	8028.	0.00
15.2000	-0.02209	7941.	-3630.	0.00119	46807.	2850053.	892.3436	8078.	0.00
15.4000	-0.02180	7232.	-3452.	0.00173	42632.	2850053.	889.3534	8159.	0.00
15.6000	-0.02140	6560.	-3275.	0.00221	38667.	2850053.	885.2850	8272.	0.00
15.8000	-0.02092	5923.	-3098.	0.00265	34911.	2850053.	880.1926	8417.	0.00
16.0000	-0.02034	5321.	-2923.	0.00304	31363.	2850053.	874.1188	8594.	0.00
16.2000	-0.01970	4754.	-2749.	0.00340	28020.	2850053.	867.0951	8804.	0.00
16.4000	-0.01898	4221.	-2576.	0.00371	24882.	2850053.	859.1426	9051.	0.00
16.6000	-0.01821	3723.	-2405.	0.00399	21947.	2850053.	850.2724	9337.	0.00
16.8000	-0.01739	3259.	-2236.	0.00424	19212.	2850053.	840.4848	9667.	0.00
17.0000	-0.01652	2829.	-2069.	0.00445	16675.	2850053.	829.7690	10046.	0.00
17.2000	-0.01561	2432.	-1904.	0.00463	14334.	2850053.	818.1015	10482.	0.00
17.4000	-0.01467	2067.	-1742.	0.00479	12185.	2850053.	805.4441	10984.	0.00
17.6000	-0.01369	1735.	-1582.	0.00493	10227.	2850053.	791.7410	11565.	0.00
17.8000	-0.01270	1434.	-1425.	0.00504	8455.	2850053.	776.9149	12240.	0.00
18.0000	-0.01168	1165.	-1271.	0.00513	6867.	2850053.	760.8601	13031.	0.00
18.2000	-0.01064	925.8467	-1121.	0.00520	5458.	2850053.	743.4341	13969.	0.00
18.4000	-0.00960	716.5325	-974.1268	0.00526	4224.	2850053.	724.4435	15096.	0.00
18.6000	-0.00854	536.1960	-831.3202	0.00530	3161.	2850053.	703.6228	16477.	0.00
18.8000	-0.00748	384.0044	-692.8981	0.00533	2264.	2850053.	680.5989	18206.	0.00
19.0000	-0.00641	259.0368	-559.3551	0.00536	1527.	2850053.	654.8307	20441.	0.00
19.2000	-0.00533	160.2624	-431.3225	0.00537	944.6869	2850053.	625.4953	23455.	0.00
19.4000	-0.00426	86.5078	-309.6475	0.00538	509.9311	2850053.	591.2545	27770.	0.00
19.6000	-0.00318	36.4034	-195.5519	0.00538	214.5842	2850053.	549.7018	34557.	0.00
19.8000	-0.00210	8.2870	-91.0084	0.00539	48.8489	2850053.	495.7332	47118.	0.00
20.0000	-0.00103	0.00	0.00	0.00539	0.00	2850053.	414.3507	40351.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 17:

Pile-head deflection = 0.95508264 meters
Computed slope at pile head = -0.12170598 radians
Maximum bending moment = 36868. kN-m
Maximum shear force = -6340. kN
Depth of maximum bending moment = 8.60000000 meters below pile head
Depth of maximum shear force = 11.80000000 meters below pile head
Number of iterations = 48
Number of zero deflection points = 2

Summary of Pile-head Responses for Conventional Analyses

Definitions of Pile-head Loading Conditions:

Load Type 1: Load 1 = Shear, V, kN, and Load 2 = Moment, M, kN-m
Load Type 2: Load 1 = Shear, V, kN, and Load 2 = Slope, S, radians
Load Type 3: Load 1 = Shear, V, kN, and Load 2 = Rot. Stiffness, R, kN-m/rad.
Load Type 4: Load 1 = Top Deflection, y, m, and Load 2 = Moment, M, kN-m
Load Type 5: Load 1 = Top Deflection, y, m, and Load 2 = Slope, S, radians

Load Case No.	Load Type 1	Pile-head Load 1	Load Type 2	Pile-head Load 2	Axial Loading kN	Pile-head Deflection meters	Pile-head Rotation radians	Max Shear in Pile kN	Max Moment in Pile kN-m
1	V, kN	50.0000	M, kN-m	0.00	0.00	3.65E-04	-1.17E-04	50.0000	73.5666
2	V, kN	75.0000	M, kN-m	0.00	0.00	7.90E-04	-2.21E-04	75.0000	124.9584
3	V, kN	100.0000	M, kN-m	0.00	0.00	0.00136	-3.49E-04	100.0000	182.3508
4	V, kN	125.0000	M, kN-m	0.00	0.00	0.00205	-4.95E-04	125.0000	245.8885
5	V, kN	150.0000	M, kN-m	0.00	0.00	0.00281	-6.55E-04	150.0000	315.8229
6	V, kN	200.0000	M, kN-m	0.00	0.00	0.00453	-0.00100	200.0000	473.3838
7	V, kN	300.0000	M, kN-m	0.00	0.00	0.00863	-0.00180	300.0000	832.1404
8	V, kN	400.0000	M, kN-m	0.00	0.00	0.01373	-0.00272	400.0000	1215.
9	V, kN	450.0000	M, kN-m	0.00	0.00	0.01655	-0.00322	450.0000	1415.
10	V, kN	470.0000	M, kN-m	0.00	0.00	0.01773	-0.00342	470.0000	1497.
11	V, kN	500.0000	M, kN-m	0.00	0.00	0.01953	-0.00373	500.0000	1621.
12	V, kN	600.0000	M, kN-m	0.00	0.00	0.02590	-0.00481	600.0000	2046.
13	V, kN	700.0000	M, kN-m	0.00	0.00	0.03276	-0.00595	700.0000	2487.
14	V, kN	800.0000	M, kN-m	0.00	0.00	0.04005	-0.00714	800.0000	2940.
15	V, kN	1000.0000	M, kN-m	0.00	0.00	0.05576	-0.00964	1000.	3878.
16	V, kN	1200.	M, kN-m	0.00	0.00	0.07274	-0.01229	1200.	4850.
17	V, kN	6000.	M, kN-m	0.00	0.00	0.9551	-0.1217	-6340.	36868.

Maximum pile-head deflection = 0.9550826409 meters
Maximum pile-head rotation = -0.1217059803 radians = -6.973239 deg.

The analysis ended normally.

Opera IV01 (Pile centrali) – D1500

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LPile for Windows, Version 2016-09.009

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method
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Files Used for Analysis

Path to file locations:
\m9159\Work\07_Pali\IV01\LPILE\

Name of input data file:
IV01_Pile_D1500.lp9d

Name of output report file:
IV01_Pile_D1500.lp9o

Name of plot output file:
IV01_Pile_D1500.lp9p

Name of runtime message file:
IV01_Pile_D1500.lp9r

Date and Time of Analysis

Date: June 10, 2019 Time: 15:24:03

Problem Title

Project Name: VI02 - Spalle e pila
Job Number:
Client:
Engineer:
Description:

Program Options and Settings

Computational Options:
- Use unfactored loads in computations (conventional analysis)

Engineering Units Used for Data Input and Computations:
- International System Units (kilonewtons, meters, millimeters)

Analysis Control Options:
- Maximum number of iterations allowed = 500
- Deflection tolerance for convergence = 2.5400E-07 m
- Maximum allowable deflection = 2.5400 m
- Number of pile increments = 100

Loading Type and Number of Cycles of Loading:
- Static loading specified

- Use of p-y modification factors for p-y curves not selected
- No distributed lateral loads are entered
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected

- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:
- Output files use decimal points to denote decimal symbols.
- Values of pile-head deflection, bending moment, shear force, and soil reaction are printed for full length of pile.
- Printing Increment (nodal spacing of output points) = 1
- p-y curves computed and reported at user-specified depths
- Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined = 1
Total length of pile = 20.000 m
Depth of ground surface below top of pile = 0.0000 m

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point	Depth Below Pile Head meters	Pile Diameter millimeters
1	0.000	1500.00
2	20.000	1500.00

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is an elastic pile
Cross-sectional Shape = Circular Pile
Length of section = 20.000000 m

Width of top of section = 1.500000 m
Width of bottom of section = 1.500000 m
Top Area = 1.767146 sq. m
Bottom Area = 1.767146 sq. m
Moment of Inertia at Top = 0.248505 m^4
Moment of Inertia at Bottom = 0.248505 m^4
Elastic Modulus = 28000000. kPa

Ground Slope and Pile Batter Angles

Ground Slope Angle = 0.000 degrees
= 0.000 radians

Pile Batter Angle = 0.000 degrees
= 0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 3 layers

Layer 1 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 0.0000 m
Distance from top of pile to bottom of layer = 4.800000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 45.000000 kPa
Undrained cohesion at bottom of layer = 45.000000 kPa
Epsilon-50 at top of layer = 0.015000
Epsilon-50 at bottom of layer = 0.015000

Layer 2 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer = 4.800000 m
Distance from top of pile to bottom of layer = 11.700000 m

Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Friction angle at top of layer = 36.000000 deg.
Friction angle at bottom of layer = 36.000000 deg.
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 3 is stiff clay without free water

Distance from top of pile to top of layer = 11.700000 m
Distance from top of pile to bottom of layer = 20.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 150.000000 kPa
Undrained cohesion at bottom of layer = 150.000000 kPa
Epsilon-50 at top of layer = 0.005000
Epsilon-50 at bottom of layer = 0.005000

(Depth of the lowest soil layer extends 0.000 m below the pile tip)

Summary of Input Soil Properties

Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth m	Effective Unit Wt. kN/m3	Undrained Cohesion kPa	Angle of Friction deg.	E50 or krm	kpy kN/m3
1	Soft	0.00	9.0000	45.0000	--	0.01500	--
	Clay	4.8000	9.0000	45.0000	--	0.01500	--
2	Sand	4.8000	9.0000	--	36.0000	--	default
	(Reese, et al.)	11.7000	9.0000	--	36.0000	--	default
3	Stiff Clay	11.7000	9.0000	150.0000	--	0.00500	--
	w/o Free Water	20.0000	9.0000	150.0000	--	0.00500	--

Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 10

Load No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, kN	Compute Top y vs. Pile Length
1	1	V = 100.000000 kN	M = 0.0000 m-kN	0.0000000	No
2	1	V = 200.000000 kN	M = 0.0000 m-kN	0.0000000	No
3	1	V = 300.000000 kN	M = 0.0000 m-kN	0.0000000	No
4	1	V = 400.000000 kN	M = 0.0000 m-kN	0.0000000	No
5	1	V = 500.000000 kN	M = 0.0000 m-kN	0.0000000	No
6	1	V = 700.000000 kN	M = 0.0000 m-kN	0.0000000	No
7	1	V = 1000.000000 kN	M = 0.0000 m-kN	0.0000000	No
8	1	V = 1200. kN	M = 0.0000 m-kN	0.0000000	No
9	1	V = 1500. kN	M = 0.0000 m-kN	0.0000000	No
10	1	V = 8400. kN	M = 0.0000 m-kN	0.0000000	No

V = shear force applied normal to pile axis
M = bending moment applied to pile head
y = lateral deflection normal to pile axis
S = pile slope relative to original pile batter angle
R = rotational stiffness applied to pile head
Values of top y vs. pile lengths can be computed only for load types with specified shear loading (Load Types 1, 2, and 3).
Thrust force is assumed to be acting axially for all pile batter angles.

Specified Depths for Output of p-y Curves

Lateral load-transfer (p-y) curves are computed and output at 6 depths.
(Note that load-transfer values are computeded at the specified depths and may differ from values computed at nodal points)

Depth No.	Depth Below Pile Head m	Depth Below Ground Surface m
1	0.200	0.200
2	4.600	4.600
3	5.000	5.000
4	11.500	11.500
5	11.900	11.900
6	19.800	19.800

Depth of ground surface below top of pile = 0.0000 m

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

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Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Moment-curvature properties were derived from elastic section properties

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Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head meters	Equivalent Top Depth Below Grnd Surf meters	Same Layer Type As Layer Above	Layer is Rock or is Below Rock Layer	F0 Integral for Layer kN	F1 Integral for Layer kN
1	0.00	0.00	N.A.	No	0.00	1387.
2	4.8000	3.7774	No	No	1387.	13959.
3	11.7000	12.4970	No	No	15346.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals for Layer n. Layering correction equivalent depths are computed only for soil types with both shallow-depth and deep-depth expressions for peak lateral load transfer. These soil types are soft and stiff clays, non-liquefied sands, and cemented c-phi soil.

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p-y Curves Reported for Specified Depths

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p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 0.200 m
Depth of p-y curve below ground surface = 0.200 m
Equiv. depth of p-y curve below ground surface = 0.200 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1500.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 11.250 m
Static pu_s for flat ground = 209.700 kN/m
Static pu_d for flat ground = 607.500 kN/m
y_50 = 0.05625 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 209.700 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00013333	13.98000

0.00107	27.96000
0.00360	41.94000
0.00853	55.92000
0.01667	69.90000
0.02880	83.88000
0.04573	97.86000
0.06827	111.84000
0.09720	125.82000
0.13333	139.80000
0.17747	153.78000
0.23040	167.76000
0.29293	181.74000
0.36587	195.72000
0.45000	209.70000
0.47812	209.70000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 4.600 m
Depth of p-y curve below ground surface = 4.600 m
Equiv. depth of p-y curve below ground surface = 4.600 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1500.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 11.250 m
Static pu_s for flat ground = 368.100 kN/m
Static pu_d for flat ground = 607.500 kN/m
y_50 = 0.05625 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 368.100 kN/m

y, meters	p, kN/m

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0.00000	0.00000
0.00013333	24.54000
0.00107	49.08000
0.00360	73.62000
0.00853	98.16000
0.01667	122.70000
0.02880	147.24000
0.04573	171.78000
0.06827	196.32000
0.09720	220.86000
0.13333	245.40000
0.17747	269.94000
0.23040	294.48000
0.29293	319.02000
0.36587	343.56000
0.45000	368.10000
0.47812	368.10000

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 4.800 m
Depth of p-y curve below pile head = 5.000 m
Depth of p-y curve below ground surface = 5.000 m
Equiv. depth of p-y curve below ground surface = 3.977 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 1500.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3
K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 823.048 kN/m
Psd = 4131.044 kN/m
Ps = Pst (shallow controls) = 823.048 kN/m
A (static) = 1.1785

B (static) = 0.8145
C = Pm/(Ym^(1/n)) = 2505.9979
n = Pm/(m Ym) = 2.7976
m = (Pu-Pm)/(Yu-Ym) = 9585.2019
Yk = [c/(kx)]^(n/(n-1)) = 0.0021 m
Pk = 277.318 kN/m
Ym = b/60 = 0.0250 m
Pm = B ps = 670.395 kN/m
Yu = 3b/80 = 0.0563 m
Pu = A Ps = 969.933 kN/m
Maximum Es value = 131074.154 kN/m/m
p-multiplier = 1.00000
y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters	p, kN/m
0.00000	0.00000
0.00212	277.31782
0.00420	354.22369
0.00628	409.05737
0.00836	453.13160
0.01044	490.60624
0.01252	523.53827
0.01460	553.11528
0.01668	580.09303
0.01876	604.98603
0.02084	628.16237
0.02292	649.89564
0.02500	670.39542
0.04063	820.16420
0.05625	969.93298
0.06750	969.93298
0.07875	969.93298

The above p-y curve was computed using internal default values of k.

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 4.800 m
Depth of p-y curve below pile head = 11.500 m
Depth of p-y curve below ground surface = 11.500 m
Equiv. depth of p-y curve below ground surface = 10.477 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 1500.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3
K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 4075.251 kN/m
Psd = 9501.402 kN/m
Ps = Pst (shallow controls) = 4075.251 kN/m
A (static) = 0.8800
B (static) = 0.5000
C = Pm/(Ym^(1/n)) = 19194.5028
n = Pm/(m Ym) = 1.6447
m = (Pu-Pm)/(Yu-Ym) = 49555.0550
Yk = [c/(kx)]^(n/(n-1)) = 0.0009 m
Pk = 267.948 kN/m
Ym = b/60 = 0.0250 m
Pm = B ps = 2037.626 kN/m
Yu = 3b/80 = 0.0563 m
Pu = A Ps = 3586.221 kN/m
Maximum Es value = 301470.555 kN/m/m
p-multiplier = 1.00000
y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters	p, kN/m
0.00000	0.00000
0.00088880	267.94826
0.00308	570.52984
0.00527	790.98975
0.00746	977.15690

0.00966	1142.74042
0.01185	1294.08507
0.01404	1434.77216
0.01623	1567.06792
0.01842	1692.51854
0.02062	1812.23710
0.02281	1927.05776
0.02500	2037.62562
0.04063	2811.92335
0.05625	3586.22108
0.06750	3586.22108
0.07875	3586.22108

The above p-y curve was computed using internal default values of k.

p-y Curve Computed Using Static Criteria for Stiff Clay without Free Water

Soil Layer Number = 3
Depth of p-y curve below pile head = 11.900 m
Depth of p-y curve below ground surface = 11.900 m
Depth of top of layer 3 below pile head = 11.700 m
Equiv. depth of p-y curve below ground surface = 12.697 m
Pile diameter = 1500.000 mm
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Undrained cohesion = 150.000 kPa
Average effective unit weight = 9.00000 kN/m3
Epsilon-50 = 0.00500
Pct = 1787.923 kN/m
Pcd = 2025.000 kN/m
Pu = 1787.923 kN/m
y50 = 0.01875 m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
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0.00000	0.00000
5.92593E-06	119.19487
0.00009481	238.38974
0.00048000	357.58460
0.00152	476.77947
0.00370	595.97434
0.00768	715.16921
0.01423	834.36407
0.02427	953.55894
0.03888	1072.75381
0.05926	1191.94868
0.08676	1311.14354
0.12288	1430.33841
0.16925	1549.53328
0.22765	1668.72815
0.30000	1787.92301
0.37500	1787.92301

p-y Curve Computed Using Static Criteria for Stiff Clay without Free Water

Soil Layer Number = 3
Depth of p-y curve below pile head = 19.800 m
Depth of p-y curve below ground surface = 19.800 m
Depth of top of layer 3 below pile head = 11.700 m
Equiv. depth of p-y curve below ground surface = 19.800 m
Pile diameter = 1500.000 mm
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Undrained cohesion = 150.000 kPa
Average effective unit weight = 9.00000 kN/m3
Epsilon-50 = 0.00500
Pct = 2487.073 kN/m
Pcd = 2025.000 kN/m
Pu = 2025.000 kN/m
y50 = 0.01875 m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000

5.92593E-06	135.00000
0.00009481	270.00000
0.00048000	405.00000
0.00152	540.00000
0.00370	675.00000
0.00768	810.00000
0.01423	945.00000
0.02427	1080.00000
0.03888	1215.00000
0.05926	1350.00000
0.08676	1485.00000
0.12288	1620.00000
0.16925	1755.00000
0.22765	1890.00000
0.30000	2025.00000
0.37500	2025.00000

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 1

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 100.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	7.33E-04	5.85E-10	100.0000	-1.70E-04	1.76E-09	6958137.	-23.8326	3250.	0.00
0.2000	6.99E-04	19.5233	95.1874	-1.70E-04	58.9224	6958137.	-24.2930	6947.	0.00
0.4000	6.65E-04	38.0750	90.2866	-1.69E-04	114.9122	6958137.	-24.7150	7427.	0.00
0.6000	6.32E-04	55.6380	85.3054	-1.67E-04	167.9182	6958137.	-25.0978	7944.	0.00
0.8000	5.99E-04	72.1971	80.2515	-1.66E-04	217.8945	6958137.	-25.4408	8501.	0.00
1.0000	5.66E-04	87.7386	75.1331	-1.63E-04	264.7995	6958137.	-25.7431	9102.	0.00
1.2000	5.33E-04	102.2504	69.9584	-1.61E-04	308.5967	6958137.	-26.0041	9753.	0.00
1.4000	5.01E-04	115.7220	64.7357	-1.57E-04	349.2546	6958137.	-26.2231	10459.	0.00

1.6000	4.70E-04	128.1447	59.4734	-1.54E-04	386.7469	6958137.	-26.3995	11226.	0.00
1.8000	4.40E-04	139.5114	54.1802	-1.50E-04	421.0521	6958137.	-26.5327	12063.	0.00
2.0000	4.10E-04	149.8167	48.8647	-1.46E-04	452.1543	6958137.	-26.6221	12977.	0.00
2.2000	3.82E-04	159.0572	43.5358	-1.41E-04	480.0426	6958137.	-26.6671	13978.	0.00
2.4000	3.54E-04	167.2311	38.2024	-1.37E-04	504.7116	6958137.	-26.6671	15077.	0.00
2.6000	3.27E-04	174.3382	32.8735	-1.32E-04	526.1613	6958137.	-26.6217	16289.	0.00
2.8000	3.01E-04	180.3805	27.5583	-1.27E-04	544.3972	6958137.	-26.5301	17627.	0.00
3.0000	2.76E-04	185.3615	22.2661	-1.21E-04	559.4303	6958137.	-26.3919	19112.	0.00
3.2000	2.52E-04	189.2869	17.0063	-1.16E-04	571.2773	6958137.	-26.2063	20764.	0.00
3.4000	2.30E-04	192.1641	11.7884	-1.11E-04	579.9606	6958137.	-25.9728	22609.	0.00
3.6000	2.08E-04	194.0023	6.6221	-1.05E-04	585.5085	6958137.	-25.6904	24680.	0.00
3.8000	1.88E-04	194.8129	1.5172	-9.95E-05	587.9549	6958137.	-25.3583	27015.	0.00
4.0000	1.68E-04	194.6092	-3.5162	-9.39E-05	587.3401	6958137.	-24.9753	29662.	0.00
4.2000	1.50E-04	193.4064	-8.4677	-8.83E-05	583.7102	6958137.	-24.5402	32680.	0.00
4.4000	1.33E-04	191.2221	-13.3268	-8.28E-05	577.1177	6958137.	-24.0511	36144.	0.00
4.6000	1.17E-04	188.0757	-18.0825	-7.73E-05	567.6218	6958137.	-23.5057	40153.	0.00
4.8000	1.02E-04	183.9891	-21.7186	-7.20E-05	555.2882	6958137.	-12.8549	25166.	0.00
5.0000	8.83E-05	179.3883	-24.1614	-6.67E-05	541.4027	6958137.	-11.5734	26215.	0.00
5.2000	7.55E-05	174.3245	-26.3474	-6.17E-05	526.1200	6958137.	-10.2870	27263.	0.00
5.4000	6.36E-05	168.8493	-28.2769	-5.67E-05	509.5955	6958137.	-9.0079	28312.	0.00
5.6000	5.28E-05	163.0138	-29.9525	-5.20E-05	491.9836	6958137.	-7.7473	29361.	0.00
5.8000	4.29E-05	156.8683	-31.3787	-4.74E-05	473.4363	6958137.	-6.5153	30409.	0.00
6.0000	3.38E-05	150.4623	-32.5624	-4.29E-05	454.1026	6958137.	-5.3211	31458.	0.00
6.2000	2.57E-05	143.8434	-33.5118	-3.87E-05	434.1264	6958137.	-4.1729	32506.	0.00
6.4000	1.83E-05	137.0576	-34.2368	-3.47E-05	413.6465	6958137.	-3.0779	33555.	0.00
6.6000	1.18E-05	130.1486	-34.7489	-3.08E-05	392.7950	6958137.	-2.0423	34604.	0.00
6.8000	6.01E-06	123.1580	-35.0602	-2.72E-05	371.6970	6958137.	-1.0716	35652.	0.00
7.0000	9.26E-07	116.1245	-35.1844	-2.38E-05	350.4696	6958137.	-0.1700	36701.	0.00
7.2000	-3.49E-06	109.0843	-35.1355	-2.05E-05	329.2217	6958137.	0.6589	37749.	0.00
7.4000	-7.28E-06	102.0703	-34.9284	-1.75E-05	308.0533	6958137.	1.4125	38798.	0.00
7.6000	-1.05E-05	95.1129	-34.5782	-1.47E-05	287.0555	6958137.	2.0889	39847.	0.00
7.8000	-1.31E-05	88.2390	-34.1006	-1.20E-05	266.3098	6958137.	2.6871	40895.	0.00
8.0000	-1.53E-05	81.4727	-33.5112	-9.58E-06	245.8885	6958137.	3.2068	41944.	0.00
8.2000	-1.70E-05	74.8346	-32.8257	-7.33E-06	225.8544	6958137.	3.6483	42992.	0.00
8.4000	-1.82E-05	68.3424	-32.0596	-5.27E-06	206.2607	6958137.	4.0128	44041.	0.00
8.6000	-1.91E-05	62.0107	-31.2282	-3.40E-06	187.1514	6958137.	4.3018	45090.	0.00
8.8000	-1.96E-05	55.8511	-30.3462	-1.71E-06	168.5614	6958137.	4.5175	46138.	0.00
9.0000	-1.98E-05	49.8722	-29.4282	-1.86E-07	150.5168	6958137.	4.6628	47187.	0.00
9.2000	-1.97E-05	44.0798	-28.4879	1.16E-06	133.0351	6958137.	4.7408	48235.	0.00
9.4000	-1.93E-05	38.4771	-27.5383	2.35E-06	116.1257	6958137.	4.7552	49284.	0.00
9.6000	-1.87E-05	33.0645	-26.5917	3.38E-06	99.7904	6958137.	4.7102	50332.	0.00
9.8000	-1.79E-05	27.8404	-25.6597	4.25E-06	84.0237	6958137.	4.6103	51381.	0.00
10.0000	-1.70E-05	22.8007	-24.7526	4.98E-06	68.8135	6958137.	4.4603	52430.	0.00
10.2000	-1.60E-05	17.9393	-23.8800	5.57E-06	54.1418	6958137.	4.2656	53478.	0.00

10.4000	-1.48E-05	13.2487	-23.0503	6.02E-06	39.9851	6958137.	4.0316	54527.	0.00
10.6000	-1.35E-05	8.7192	-22.2707	6.33E-06	26.3150	6958137.	3.7642	55575.	0.00
10.8000	-1.23E-05	4.3404	-21.5474	6.52E-06	13.0994	6958137.	3.4695	56624.	0.00
11.0000	-1.09E-05	0.1003	-20.8850	6.58E-06	0.3026	6958137.	3.1542	57673.	0.00
11.2000	-9.62E-06	-4.0136	-20.2871	6.53E-06	12.1134	6958137.	2.8249	58721.	0.00
11.4000	-8.33E-06	-8.0146	-19.7557	6.35E-06	24.1883	6958137.	2.4887	59770.	0.00
11.6000	-7.08E-06	-11.9159	-19.2916	6.07E-06	35.9629	6958137.	2.1529	60818.	0.00
11.8000	-5.90E-06	-15.7312	-15.5772	5.67E-06	47.4775	6958137.	34.9907	1186049.	0.00
12.0000	-4.81E-06	-18.1468	-9.1964	5.18E-06	54.7680	6958137.	28.8174	1197849.	0.00
12.2000	-3.83E-06	-19.4097	-4.0000	4.64E-06	58.5796	6958137.	23.1465	1209649.	0.00
12.4000	-2.95E-06	-19.7468	0.1187	4.08E-06	59.5969	6958137.	18.0408	1221449.	0.00
12.6000	-2.19E-06	-19.3623	3.2760	3.52E-06	58.4363	6958137.	13.5322	1233249.	0.00
12.8000	-1.55E-06	-18.4364	5.5919	2.98E-06	55.6420	6958137.	9.6268	1245049.	0.00
13.0000	-1.00E-06	-17.1255	7.1857	2.46E-06	51.6856	6958137.	6.3110	1256849.	0.00
13.2000	-5.61E-07	-15.5621	8.1724	1.99E-06	46.9673	6958137.	3.5557	1268649.	0.00
13.4000	-2.06E-07	-13.8566	8.6600	1.57E-06	41.8198	6958137.	1.3208	1280449.	0.00
13.6000	6.83E-08	-12.0981	8.7480	1.20E-06	36.5128	6958137.	-0.4412	1292249.	0.00
13.8000	2.73E-07	-10.3574	8.5256	8.76E-07	31.2591	6958137.	-1.7822	1304049.	0.00
14.0000	4.19E-07	-8.6879	8.0719	6.03E-07	26.2205	6958137.	-2.7556	1315849.	0.00
14.2000	5.14E-07	-7.1286	7.4548	3.75E-07	21.5146	6958137.	-3.4146	1327649.	0.00
14.4000	5.69E-07	-5.7060	6.7323	1.91E-07	17.2209	6958137.	-3.8105	1339449.	0.00
14.6000	5.91E-07	-4.4357	5.9525	4.51E-08	13.3872	6958137.	-3.9875	1350000.	0.00
14.8000	5.87E-07	-3.3249	5.1575	-6.64E-08	10.0349	6958137.	-3.9624	1350000.	0.00
15.0000	5.64E-07	-2.3727	4.3805	-1.48E-07	7.1609	6958137.	-3.8082	1350000.	0.00
15.2000	5.28E-07	-1.5728	3.6435	-2.05E-07	4.7467	6958137.	-3.5620	1350000.	0.00
15.4000	4.82E-07	-0.9153	2.9618	-2.41E-07	2.7624	6958137.	-3.2547	1350000.	0.00
15.6000	4.31E-07	-0.3880	2.3451	-2.59E-07	1.1711	6958137.	-2.9120	1350000.	0.00
15.8000	3.78E-07	0.02274	1.7985	-2.65E-07	0.06863	6958137.	-2.5541	1350000.	0.00
16.0000	3.26E-07	0.3314	1.3234	-2.60E-07	1.0001	6958137.	-2.1972	1350000.	0.00
16.2000	2.75E-07	0.5521	0.9184	-2.47E-07	1.6662	6958137.	-1.8531	1350000.	0.00
16.4000	2.27E-07	0.6987	0.5800	-2.29E-07	2.1087	6958137.	-1.5304	1350000.	0.00
16.6000	1.83E-07	0.7841	0.3035	-2.08E-07	2.3664	6958137.	-1.2349	1350000.	0.00
16.8000	1.44E-07	0.8201	0.08301	-1.85E-07	2.4751	6958137.	-0.9697	1350000.	0.00
17.0000	1.09E-07	0.8173	-0.08761	-1.61E-07	2.4666	6958137.	-0.7364	1350000.	0.00
17.2000	7.92E-08	0.7850	-0.2147	-1.38E-07	2.3693	6958137.	-0.5349	1350000.	0.00
17.4000	5.39E-08	0.7314	-0.3046	-1.16E-07	2.2074	6958137.	-0.3637	1350000.	0.00
17.6000	3.27E-08	0.6632	-0.3631	-9.62E-08	2.0016	6958137.	-0.2210	1350000.	0.00
17.8000	1.54E-08	0.5862	-0.3956	-7.83E-08	1.7691	6958137.	-0.1040	1350000.	0.00
18.0000	1.44E-09	0.5050	-0.4069	-6.26E-08	1.5240	6958137.	-0.00969	1350000.	0.00
18.2000	-9.63E-09	0.4234	-0.4014	-4.92E-08	1.2778	6958137.	0.06498	1350000.	0.00
18.4000	-1.83E-08	0.3444	-0.3826	-3.82E-08	1.0395	6958137.	0.1232	1350000.	0.00
18.6000	-2.49E-08	0.2704	-0.3534	-2.94E-08	0.8160	6958137.	0.1681	1350000.	0.00
18.8000	-3.00E-08	0.2030	-0.3164	-2.26E-08	0.6128	6958137.	0.2025	1350000.	0.00
19.0000	-3.39E-08	0.1438	-0.2732	-1.76E-08	0.4340	6958137.	0.2290	1350000.	0.00

19.2000	-3.70E-08	0.09375	-0.2253	-1.42E-08	0.2829	6958137.	0.2499	1350000.	0.00
19.4000	-3.96E-08	0.05368	-0.1736	-1.20E-08	0.1620	6958137.	0.2672	1350000.	0.00
19.6000	-4.18E-08	0.02430	-0.1187	-1.09E-08	0.07333	6958137.	0.2824	1350000.	0.00
19.8000	-4.40E-08	0.00621	-0.06074	-1.05E-08	0.01876	6958137.	0.2967	1350000.	0.00
20.0000	-4.60E-08	0.00	0.00	-1.04E-08	0.00	6958137.	0.3107	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 1:

Pile-head deflection = 0.00073332 meters
Computed slope at pile head = -0.00016982 radians
Maximum bending moment = 194.81290115 kN-m
Maximum shear force = 100.00000000 kN
Depth of maximum bending moment = 3.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 15
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 2

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 200.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00244	3.02E-10	200.0000	-4.88E-04	9.11E-10	6958137.	-35.5895	1457.	0.00
0.2000	0.00234	39.2882	192.8053	-4.88E-04	118.5738	6958137.	-36.3570	3101.	0.00
0.4000	0.00225	77.1221	185.4619	-4.86E-04	232.7584	6958137.	-37.0771	3300.	0.00
0.6000	0.00215	113.4730	177.9794	-4.83E-04	342.4671	6958137.	-37.7486	3511.	0.00
0.8000	0.00205	148.3139	170.3674	-4.80E-04	447.6186	6958137.	-38.3706	3736.	0.00
1.0000	0.00196	181.6200	162.6362	-4.75E-04	548.1380	6958137.	-38.9422	3977.	0.00
1.2000	0.00186	213.3684	154.7957	-4.69E-04	643.9562	6958137.	-39.4623	4234.	0.00

1.4000	0.00177	243.5383	146.8565	-4.63E-04	735.0104	6958137.	-39.9300	4510.	0.00
1.6000	0.00168	272.1110	138.8291	-4.55E-04	821.2443	6958137.	-40.3444	4806.	0.00
1.8000	0.00159	299.0699	130.7242	-4.47E-04	902.6076	6958137.	-40.7046	5124.	0.00
2.0000	0.00150	324.4006	122.5527	-4.38E-04	979.0571	6958137.	-41.0096	5467.	0.00
2.2000	0.00141	348.0910	114.3259	-4.28E-04	1051.	6958137.	-41.2587	5838.	0.00
2.4000	0.00133	370.1310	106.0549	-4.18E-04	1117.	6958137.	-41.4510	6239.	0.00
2.6000	0.00125	390.5130	97.7513	-4.07E-04	1179.	6958137.	-41.5855	6673.	0.00
2.8000	0.00117	409.2315	89.4266	-3.96E-04	1235.	6958137.	-41.6616	7146.	0.00
3.0000	0.00109	426.2836	81.0926	-3.84E-04	1287.	6958137.	-41.6783	7661.	0.00
3.2000	0.00101	441.6685	72.7613	-3.71E-04	1333.	6958137.	-41.6347	8224.	0.00
3.4000	9.40E-04	455.3881	64.4448	-3.58E-04	1374.	6958137.	-41.5301	8840.	0.00
3.6000	8.69E-04	467.4465	56.1554	-3.45E-04	1411.	6958137.	-41.3637	9517.	0.00
3.8000	8.02E-04	477.8503	47.9056	-3.31E-04	1442.	6958137.	-41.1344	10263.	0.00
4.0000	7.37E-04	486.6087	39.7080	-3.18E-04	1469.	6958137.	-40.8416	11088.	0.00
4.2000	6.75E-04	493.7335	31.5755	-3.03E-04	1490.	6958137.	-40.4842	12003.	0.00
4.4000	6.15E-04	499.2389	23.5209	-2.89E-04	1507.	6958137.	-40.0613	13021.	0.00
4.6000	5.59E-04	503.1419	15.5576	-2.75E-04	1519.	6958137.	-39.5721	14160.	0.00
4.8000	5.05E-04	505.4619	5.2407	-2.60E-04	1526.	6958137.	-63.5970	25166.	0.00
5.0000	4.55E-04	505.2381	-7.0805	-2.46E-04	1525.	6958137.	-59.6143	26215.	0.00
5.2000	4.07E-04	502.6297	-18.5916	-2.31E-04	1517.	6958137.	-55.4970	27263.	0.00
5.4000	3.62E-04	497.8015	-29.2702	-2.17E-04	1502.	6958137.	-51.2886	28312.	0.00
5.6000	3.20E-04	490.9217	-39.1021	-2.03E-04	1482.	6958137.	-47.0304	29361.	0.00
5.8000	2.81E-04	482.1607	-48.0813	-1.89E-04	1455.	6958137.	-42.7615	30409.	0.00
6.0000	2.45E-04	471.6892	-56.2092	-1.75E-04	1424.	6958137.	-38.5183	31458.	0.00
6.2000	2.11E-04	459.6770	-63.4945	-1.62E-04	1387.	6958137.	-34.3347	32506.	0.00
6.4000	1.80E-04	446.2914	-69.9522	-1.49E-04	1347.	6958137.	-30.2416	33555.	0.00
6.6000	1.52E-04	431.6961	-75.6031	-1.36E-04	1303.	6958137.	-26.2675	34604.	0.00
6.8000	1.26E-04	416.0501	-80.4736	-1.24E-04	1256.	6958137.	-22.4375	35652.	0.00
7.0000	1.02E-04	399.5066	-84.5948	-1.12E-04	1206.	6958137.	-18.7744	36701.	0.00
7.2000	8.10E-05	382.2122	-88.0020	-1.01E-04	1154.	6958137.	-15.2976	37749.	0.00
7.4000	6.20E-05	364.3059	-90.7342	-9.01E-05	1099.	6958137.	-12.0242	38798.	0.00
7.6000	4.50E-05	345.9185	-92.8334	-7.99E-05	1044.	6958137.	-8.9681	39847.	0.00
7.8000	3.00E-05	327.1725	-94.3443	-7.02E-05	987.4227	6958137.	-6.1407	40895.	0.00
8.0000	1.69E-05	308.1808	-95.3134	-6.11E-05	930.1050	6958137.	-3.5506	41944.	0.00
8.2000	5.60E-06	289.0471	-95.7889	-5.25E-05	872.3585	6958137.	-1.2040	42992.	0.00
8.4000	-4.07E-06	269.8653	-95.8197	-4.45E-05	814.4668	6958137.	0.8956	44041.	0.00
8.6000	-1.22E-05	250.7193	-95.4555	-3.70E-05	756.6831	6958137.	2.7467	45090.	0.00
8.8000	-1.89E-05	231.6831	-94.7457	-3.00E-05	699.2311	6958137.	4.3505	46138.	0.00
9.0000	-2.42E-05	212.8210	-93.7397	-2.37E-05	642.3042	6958137.	5.7100	47187.	0.00
9.2000	-2.83E-05	194.1872	-92.4856	-1.78E-05	586.0667	6958137.	6.8305	48235.	0.00
9.4000	-3.13E-05	175.8267	-91.0307	-1.25E-05	530.6537	6958137.	7.7192	49284.	0.00
9.6000	-3.33E-05	157.7750	-89.4202	-7.70E-06	476.1727	6958137.	8.3849	50332.	0.00
9.8000	-3.44E-05	140.0586	-87.6979	-3.42E-06	422.7038	6958137.	8.8385	51381.	0.00
10.0000	-3.47E-05	122.6958	-85.9048	3.60E-07	370.3020	6958137.	9.0925	52430.	0.00

10.2000	-3.43E-05	105.6967	-84.0795	3.64E-06	318.9979	6958137.	9.1608	53478.	0.00
10.4000	-3.32E-05	89.0640	-82.2575	6.44E-06	268.7996	6958137.	9.0589	54527.	0.00
10.6000	-3.17E-05	72.7937	-80.4712	8.77E-06	219.6950	6958137.	8.8040	55575.	0.00
10.8000	-2.97E-05	56.8755	-78.7494	1.06E-05	171.6532	6958137.	8.4144	56624.	0.00
11.0000	-2.74E-05	41.2939	-77.1169	1.20E-05	124.6272	6958137.	7.9100	57673.	0.00
11.2000	-2.49E-05	26.0288	-75.5948	1.30E-05	78.5561	6958137.	7.3118	58721.	0.00
11.4000	-2.22E-05	11.0560	-74.1994	1.35E-05	33.3677	6958137.	6.6424	59770.	0.00
11.6000	-1.95E-05	-3.6510	-72.9425	1.36E-05	11.0189	6958137.	5.9256	60818.	0.00
11.8000	-1.68E-05	-18.1210	-62.4068	1.33E-05	54.6900	6958137.	99.4321	1186049.	0.00
12.0000	-1.42E-05	-28.6137	-43.9877	1.27E-05	86.3575	6958137.	84.7585	1197849.	0.00
12.2000	-1.17E-05	-35.7161	-28.4348	1.17E-05	107.7929	6958137.	70.7711	1209649.	0.00
12.4000	-9.46E-06	-39.9876	-15.5828	1.07E-05	120.6845	6958137.	57.7486	1221449.	0.00
12.6000	-7.44E-06	-41.9492	-5.2201	9.47E-06	126.6047	6958137.	45.8785	1233249.	0.00
12.8000	-5.67E-06	-42.0756	2.8949	8.27E-06	126.9863	6958137.	35.2718	1245049.	0.00
13.0000	-4.13E-06	-40.7912	9.0197	7.08E-06	123.1099	6958137.	25.9758	1256849.	0.00
13.2000	-2.84E-06	-38.4677	13.4159	5.94E-06	116.0976	6958137.	17.9864	1268649.	0.00
13.4000	-1.76E-06	-35.4248	16.3405	4.87E-06	106.9139	6958137.	11.2597	1280449.	0.00
13.6000	-8.86E-07	-31.9315	18.0387	3.91E-06	96.3709	6958137.	5.7217	1292249.	0.00
13.8000	-1.96E-07	-28.2094	18.7386	3.04E-06	85.1372	6958137.	1.2775	1304049.	0.00
14.0000	3.32E-07	-24.4361	18.6482	2.29E-06	73.7493	6958137.	-2.1811	1315849.	0.00
14.2000	7.18E-07	-20.7501	17.9532	1.64E-06	62.6247	6958137.	-4.7695	1327649.	0.00
14.4000	9.86E-07	-17.2548	16.8157	1.09E-06	52.0759	6958137.	-6.6046	1339449.	0.00
14.6000	1.15E-06	-14.0238	15.3759	6.41E-07	42.3244	6958137.	-7.7940	1350000.	0.00
14.8000	1.24E-06	-11.1045	13.7578	2.80E-07	33.5138	6958137.	-8.3871	1350000.	0.00
15.0000	1.27E-06	-8.5207	12.0641	-2.27E-09	25.7158	6958137.	-8.5494	1350000.	0.00
15.2000	1.24E-06	-6.2788	10.3711	-2.15E-07	18.9498	6958137.	-8.3810	1350000.	0.00
15.4000	1.18E-06	-4.3722	8.7361	-3.68E-07	13.1956	6958137.	-7.9690	1350000.	0.00
15.6000	1.09E-06	-2.7844	7.2005	-4.71E-07	8.4034	6958137.	-7.3873	1350000.	0.00
15.8000	9.92E-07	-1.4920	5.7920	-5.32E-07	4.5030	6958137.	-6.6976	1350000.	0.00
16.0000	8.81E-07	-0.4676	4.5272	-5.61E-07	1.4112	6958137.	-5.9500	1350000.	0.00
16.2000	7.68E-07	0.3189	3.4138	-5.63E-07	0.9624	6958137.	-5.1842	1350000.	0.00
16.4000	6.56E-07	0.8980	2.4523	-5.45E-07	2.7101	6958137.	-4.4308	1350000.	0.00
16.6000	5.50E-07	1.2998	1.6380	-5.14E-07	3.9229	6958137.	-3.7123	1350000.	0.00
16.8000	4.51E-07	1.5532	0.9624	-4.73E-07	4.6875	6958137.	-3.0442	1350000.	0.00
17.0000	3.61E-07	1.6848	0.4143	-4.26E-07	5.0847	6958137.	-2.4363	1350000.	0.00
17.2000	2.81E-07	1.7189	-0.01868	-3.77E-07	5.1877	6958137.	-1.8939	1350000.	0.00
17.4000	2.10E-07	1.6773	-0.3499	-3.28E-07	5.0621	6958137.	-1.4181	1350000.	0.00
17.6000	1.49E-07	1.5789	-0.5924	-2.82E-07	4.7653	6958137.	-1.0074	1350000.	0.00
17.8000	9.75E-08	1.4403	-0.7590	-2.38E-07	4.3469	6958137.	-0.6580	1350000.	0.00
18.0000	5.40E-08	1.2754	-0.8612	-1.99E-07	3.8491	6958137.	-0.3645	1350000.	0.00
18.2000	1.78E-08	1.0958	-0.9097	-1.65E-07	3.3073	6958137.	-0.1205	1350000.	0.00
18.4000	-1.20E-08	0.9115	-0.9137	-1.36E-07	2.7509	6958137.	0.08106	1350000.	0.00
18.6000	-3.66E-08	0.7304	-0.8808	-1.13E-07	2.2043	6958137.	0.2472	1350000.	0.00
18.8000	-5.70E-08	0.5591	-0.8176	-9.40E-08	1.6875	6958137.	0.3850	1350000.	0.00

19.0000	-7.42E-08	0.4033	-0.7290	-8.02E-08	1.2172	6958137.	0.5011	1350000.	0.00
19.2000	-8.91E-08	0.2675	-0.6187	-7.06E-08	0.8074	6958137.	0.6016	1350000.	0.00
19.4000	-1.02E-07	0.1558	-0.4894	-6.45E-08	0.4703	6958137.	0.6916	1350000.	0.00
19.6000	-1.15E-07	0.07177	-0.3427	-6.12E-08	0.2166	6958137.	0.7757	1350000.	0.00
19.8000	-1.27E-07	0.01875	-0.1794	-5.99E-08	0.05658	6958137.	0.8569	1350000.	0.00
20.0000	-1.39E-07	0.00	0.00	-5.96E-08	0.00	6958137.	0.9374	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 2:

Pile-head deflection = 0.00244241 meters
Computed slope at pile head = -0.00048833 radians
Maximum bending moment = 505.46192463 kN-m
Maximum shear force = 200.00000000 kN
Depth of maximum bending moment = 4.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 13
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 3

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 300.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00453	1.51E-10	300.0000	-8.63E-04	4.55E-10	6958137.	-43.7220	965.4051	0.00
0.2000	0.00436	59.1256	291.1584	-8.62E-04	178.4439	6958137.	-44.6938	2052.	0.00
0.4000	0.00418	116.4634	282.1280	-8.60E-04	351.4922	6958137.	-45.6106	2180.	0.00
0.6000	0.00401	171.9767	272.9198	-8.56E-04	519.0343	6958137.	-46.4713	2316.	0.00
0.8000	0.00384	225.6313	263.5452	-8.50E-04	680.9663	6958137.	-47.2745	2461.	0.00
1.0000	0.00367	277.3948	254.0158	-8.43E-04	837.1913	6958137.	-48.0190	2615.	0.00

1.2000	0.00350	327.2376	244.3436	-8.34E-04	987.6193	6958137.	-48.7037	2779.	0.00
1.4000	0.00334	375.1323	234.5405	-8.24E-04	1132.	6958137.	-49.3272	2955.	0.00
1.6000	0.00317	421.0538	224.6189	-8.13E-04	1271.	6958137.	-49.8884	3143.	0.00
1.8000	0.00301	464.9798	214.5915	-8.00E-04	1403.	6958137.	-50.3861	3344.	0.00
2.0000	0.00286	506.8904	204.4710	-7.86E-04	1530.	6958137.	-50.8191	3560.	0.00
2.2000	0.00270	546.7682	194.2704	-7.71E-04	1650.	6958137.	-51.1862	3793.	0.00
2.4000	0.00255	584.5986	184.0032	-7.54E-04	1764.	6958137.	-51.4862	4043.	0.00
2.6000	0.00240	620.3695	173.6828	-7.37E-04	1872.	6958137.	-51.7181	4314.	0.00
2.8000	0.00225	654.0717	163.3229	-7.19E-04	1974.	6958137.	-51.8806	4608.	0.00
3.0000	0.00211	685.6987	152.9376	-7.00E-04	2069.	6958137.	-51.9725	4926.	0.00
3.2000	0.00197	715.2467	142.5411	-6.79E-04	2159.	6958137.	-51.9927	5273.	0.00
3.4000	0.00184	742.7151	132.1478	-6.58E-04	2242.	6958137.	-51.9401	5651.	0.00
3.6000	0.00171	768.1059	121.7725	-6.37E-04	2318.	6958137.	-51.8134	6065.	0.00
3.8000	0.00158	791.4241	111.4300	-6.14E-04	2389.	6958137.	-51.6116	6518.	0.00
4.0000	0.00146	812.6778	101.1354	-5.91E-04	2453.	6958137.	-51.3335	7018.	0.00
4.2000	0.00135	831.8783	90.9043	-5.68E-04	2511.	6958137.	-50.9780	7569.	0.00
4.4000	0.00124	849.0395	80.7521	-5.43E-04	2562.	6958137.	-50.5441	8179.	0.00
4.6000	0.00113	864.1791	70.6946	-5.19E-04	2608.	6958137.	-50.0307	8857.	0.00
4.8000	0.00103	877.3174	52.7510	-4.94E-04	2648.	6958137.	-129.4051	25166.	0.00
5.0000	9.32E-04	885.2795	27.5923	-4.68E-04	2672.	6958137.	-122.1819	26215.	0.00
5.2000	8.41E-04	888.3543	3.9098	-4.43E-04	2681.	6958137.	-114.6432	27263.	0.00
5.4000	7.55E-04	886.8434	-18.2417	-4.17E-04	2677.	6958137.	-106.8717	28312.	0.00
5.6000	6.74E-04	881.0576	-38.8235	-3.92E-04	2659.	6958137.	-98.9462	29361.	0.00
5.8000	5.98E-04	871.3140	-57.8123	-3.67E-04	2630.	6958137.	-90.9420	30409.	0.00
6.0000	5.27E-04	857.9327	-75.1995	-3.42E-04	2589.	6958137.	-82.9299	31458.	0.00
6.2000	4.61E-04	841.2342	-90.9901	-3.18E-04	2539.	6958137.	-74.9763	32506.	0.00
6.4000	4.00E-04	821.5367	-105.2020	-2.94E-04	2479.	6958137.	-67.1425	33555.	0.00
6.6000	3.44E-04	799.1534	-117.8647	-2.70E-04	2412.	6958137.	-59.4850	34604.	0.00
6.8000	2.92E-04	774.3908	-129.0187	-2.48E-04	2337.	6958137.	-52.0552	35652.	0.00
7.0000	2.45E-04	747.5459	-138.7142	-2.26E-04	2256.	6958137.	-44.8993	36701.	0.00
7.2000	2.02E-04	718.9051	-147.0099	-2.05E-04	2170.	6958137.	-38.0581	37749.	0.00
7.4000	1.63E-04	688.7420	-153.9725	-1.85E-04	2079.	6958137.	-31.5673	38798.	0.00
7.6000	1.28E-04	657.3161	-159.6749	-1.65E-04	1984.	6958137.	-25.4572	39847.	0.00
7.8000	9.66E-05	624.8720	-164.1960	-1.47E-04	1886.	6958137.	-19.7534	40895.	0.00
8.0000	6.90E-05	591.6377	-167.6189	-1.29E-04	1786.	6958137.	-14.4761	41944.	0.00
8.2000	4.48E-05	557.8244	-170.0306	-1.13E-04	1684.	6958137.	-9.6406	42992.	0.00
8.4000	2.39E-05	523.6255	-171.5205	-9.73E-05	1580.	6958137.	-5.2578	44041.	0.00
8.6000	5.92E-06	489.2162	-172.1796	-8.28E-05	1476.	6958137.	-1.3337	45090.	0.00
8.8000	-9.23E-06	454.7536	-172.1000	-6.92E-05	1372.	6958137.	2.1300	46138.	0.00
9.0000	-2.18E-05	420.3762	-171.3734	-5.66E-05	1269.	6958137.	5.1357	47187.	0.00
9.2000	-3.19E-05	386.2043	-170.0908	-4.50E-05	1166.	6958137.	7.6900	48235.	0.00
9.4000	-3.98E-05	352.3399	-168.3415	-3.44E-05	1063.	6958137.	9.8034	49284.	0.00
9.6000	-4.57E-05	318.8677	-166.2122	-2.48E-05	962.3584	6958137.	11.4898	50332.	0.00
9.8000	-4.97E-05	285.8550	-163.7865	-1.61E-05	862.7246	6958137.	12.7668	51381.	0.00

10.0000	-5.21E-05	253.3531	-161.1443	-8.34E-06	764.6320	6958137.	13.6555	52430.	0.00
10.2000	-5.30E-05	221.3973	-158.3608	-1.52E-06	668.1880	6958137.	14.1798	53478.	0.00
10.4000	-5.27E-05	190.0088	-155.5061	4.40E-06	573.4558	6958137.	14.3670	54527.	0.00
10.6000	-5.13E-05	159.1949	-152.6447	9.42E-06	480.4580	6958137.	14.2471	55575.	0.00
10.8000	-4.89E-05	128.9509	-149.8347	1.36E-05	389.1801	6958137.	13.8532	56624.	0.00
11.0000	-4.58E-05	99.2610	-147.1272	1.68E-05	299.5746	6958137.	13.2210	57673.	0.00
11.2000	-4.22E-05	70.1000	-144.5662	1.93E-05	211.5652	6958137.	12.3890	58721.	0.00
11.4000	-3.81E-05	41.4345	-142.1875	2.09E-05	125.0514	6958137.	11.3982	59770.	0.00
11.6000	-3.38E-05	13.2250	-140.0184	2.17E-05	39.9137	6958137.	10.2925	60818.	0.00
11.8000	-2.95E-05	-14.5728	-121.5088	2.16E-05	43.9816	6958137.	174.8041	1186049.	0.00
12.0000	-2.52E-05	-35.3785	-88.9411	2.09E-05	106.7741	6958137.	150.8730	1197849.	0.00
12.2000	-2.11E-05	-50.1493	-61.0871	1.97E-05	151.3530	6958137.	127.6663	1209649.	0.00
12.4000	-1.73E-05	-59.8134	-37.7467	1.81E-05	180.5197	6958137.	105.7385	1221449.	0.00
12.6000	-1.39E-05	-65.2479	-18.6245	1.63E-05	196.9215	6958137.	85.4832	1233249.	0.00
12.8000	-1.08E-05	-67.2632	-3.3606	1.44E-05	203.0036	6958137.	67.1557	1245049.	0.00
13.0000	-8.10E-06	-66.5922	8.4445	1.25E-05	200.9785	6958137.	50.8953	1256849.	0.00
13.2000	-5.79E-06	-63.8854	17.2086	1.06E-05	192.8092	6958137.	36.7459	1268649.	0.00
13.4000	-3.85E-06	-59.7087	23.3508	8.84E-06	180.2039	6958137.	24.6757	1280449.	0.00
13.6000	-2.26E-06	-54.5451	27.2778	7.19E-06	164.6197	6958137.	14.5945	1292249.	0.00
13.8000	-9.77E-07	-48.7976	29.3742	5.71E-06	147.2736	6958137.	6.3695	1304049.	0.00
14.0000	2.45E-08	-42.7954	29.9950	4.39E-06	129.1586	6958137.	-0.1611	1315849.	0.00
14.2000	7.80E-07	-36.7996	29.4612	3.25E-06	111.0630	6958137.	-5.1768	1327649.	0.00
14.4000	1.32E-06	-31.0109	28.0571	2.27E-06	93.5924	6958137.	-8.8648	1339449.	0.00
14.6000	1.69E-06	-25.5768	26.0304	1.46E-06	77.1920	6958137.	-11.4020	1350000.	0.00
14.8000	1.91E-06	-20.5988	23.6025	7.96E-07	62.1681	6958137.	-12.8769	1350000.	0.00
15.0000	2.01E-06	-16.1358	20.9595	2.69E-07	48.6986	6958137.	-13.5525	1350000.	0.00
15.2000	2.02E-06	-12.2149	18.2441	-1.39E-07	36.8653	6958137.	-13.6019	1350000.	0.00
15.4000	1.95E-06	-8.8382	15.5662	-4.41E-07	26.6740	6958137.	-13.1774	1350000.	0.00
15.6000	1.84E-06	-5.9885	13.0074	-6.55E-07	18.0735	6958137.	-12.4099	1350000.	0.00
15.8000	1.69E-06	-3.6352	10.6254	-7.93E-07	10.9712	6958137.	-11.4101	1350000.	0.00
16.0000	1.52E-06	-1.7383	8.4575	-8.70E-07	5.2463	6958137.	-10.2692	1350000.	0.00
16.2000	1.34E-06	-0.2522	6.5245	-8.99E-07	0.7611	6958137.	-9.0608	1350000.	0.00
16.4000	1.16E-06	0.8715	4.8341	-8.90E-07	2.6302	6958137.	-7.8427	1350000.	0.00
16.6000	9.86E-07	1.6815	3.3840	-8.53E-07	5.0748	6958137.	-6.6583	1350000.	0.00
16.8000	8.21E-07	2.2251	2.1643	-7.97E-07	6.7155	6958137.	-5.5393	1350000.	0.00
17.0000	6.68E-07	2.5472	1.1597	-7.28E-07	7.6875	6958137.	-4.5065	1350000.	0.00
17.2000	5.29E-07	2.6890	0.3518	-6.53E-07	8.1155	6958137.	-3.5726	1350000.	0.00
17.4000	4.06E-07	2.6879	-0.2798	-5.76E-07	8.1122	6958137.	-2.7431	1350000.	0.00
17.6000	2.99E-07	2.5771	-0.7559	-5.00E-07	7.7778	6958137.	-2.0178	1350000.	0.00
17.8000	2.06E-07	2.3856	-1.0969	-4.29E-07	7.1997	6958137.	-1.3926	1350000.	0.00
18.0000	1.27E-07	2.1383	-1.3221	-3.64E-07	6.4536	6958137.	-0.8599	1350000.	0.00
18.2000	6.08E-08	1.8567	-1.4492	-3.06E-07	5.6036	6958137.	-0.4102	1350000.	0.00
18.4000	4.81E-09	1.5587	-1.4934	-2.57E-07	4.7041	6958137.	-0.03249	1350000.	0.00
18.6000	-4.22E-08	1.2593	-1.4682	-2.17E-07	3.8007	6958137.	0.2847	1350000.	0.00

18.8000	-8.19E-08	0.9714	-1.3844	-1.85E-07	2.9317	6958137.	0.5530	1350000.	0.00
19.0000	-1.16E-07	0.7056	-1.2508	-1.61E-07	2.1294	6958137.	0.7836	1350000.	0.00
19.2000	-1.46E-07	0.4711	-1.0737	-1.44E-07	1.4218	6958137.	0.9869	1350000.	0.00
19.4000	-1.74E-07	0.2761	-0.8578	-1.33E-07	0.8332	6958137.	1.1719	1350000.	0.00
19.6000	-1.99E-07	0.1280	-0.6060	-1.27E-07	0.3862	6958137.	1.3461	1350000.	0.00
19.8000	-2.25E-07	0.03367	-0.3199	-1.25E-07	0.1016	6958137.	1.5154	1350000.	0.00
20.0000	-2.49E-07	0.00	0.00	-1.24E-07	0.00	6958137.	1.6834	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 3:

Pile-head deflection = 0.00452888 meters
Computed slope at pile head = -0.00086322 radians
Maximum bending moment = 888.35431700 kN-m
Maximum shear force = 300.00000000 kN
Depth of maximum bending moment = 5.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 12
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 4

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 400.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00680	7.54E-10	400.0000	-0.00127	2.28E-09	6958137.	-50.0641	736.2480	0.00
0.2000	0.00655	78.9987	389.8743	-0.00126	238.4220	6958137.	-51.1926	1564.	0.00
0.4000	0.00629	155.9497	379.5291	-0.00126	470.6640	6958137.	-52.2599	1661.	0.00
0.6000	0.00604	230.8104	368.9766	-0.00126	696.5970	6958137.	-53.2647	1763.	0.00
0.8000	0.00579	303.5404	358.2296	-0.00125	916.0998	6958137.	-54.2055	1872.	0.00

1.0000	0.00554	374.1022	347.3010	-0.00124	1129.	6958137.	-55.0808	1987.	0.00
1.2000	0.00530	442.4608	336.2040	-0.00123	1335.	6958137.	-55.8893	2111.	0.00
1.4000	0.00505	508.5838	324.9521	-0.00121	1535.	6958137.	-56.6295	2242.	0.00
1.6000	0.00481	572.4416	313.5591	-0.00120	1728.	6958137.	-57.2999	2382.	0.00
1.8000	0.00457	634.0074	302.0392	-0.00118	1913.	6958137.	-57.8992	2532.	0.00
2.0000	0.00434	693.2573	290.4067	-0.00116	2092.	6958137.	-58.4259	2693.	0.00
2.2000	0.00411	750.1701	278.6763	-0.00114	2264.	6958137.	-58.8786	2866.	0.00
2.4000	0.00388	804.7278	266.8628	-0.00112	2429.	6958137.	-59.2558	3052.	0.00
2.6000	0.00366	856.9153	254.9816	-0.00109	2586.	6958137.	-59.5562	3253.	0.00
2.8000	0.00345	906.7205	243.0482	-0.00107	2737.	6958137.	-59.7783	3470.	0.00
3.0000	0.00323	954.1345	231.0783	-0.00104	2880.	6958137.	-59.9207	3706.	0.00
3.2000	0.00303	999.1518	219.0880	-0.00101	3015.	6958137.	-59.9820	3961.	0.00
3.4000	0.00283	1042.	207.0938	-9.85E-04	3144.	6958137.	-59.9606	4240.	0.00
3.6000	0.00263	1082.	195.1122	-9.54E-04	3265.	6958137.	-59.8554	4544.	0.00
3.8000	0.00245	1120.	183.1602	-9.22E-04	3380.	6958137.	-59.6647	4877.	0.00
4.0000	0.00227	1155.	171.2550	-8.90E-04	3487.	6958137.	-59.3873	5243.	0.00
4.2000	0.00209	1188.	159.4140	-8.56E-04	3586.	6958137.	-59.0219	5646.	0.00
4.4000	0.00192	1219.	147.6551	-8.21E-04	3679.	6958137.	-58.5671	6091.	0.00
4.6000	0.00176	1247.	135.9962	-7.86E-04	3765.	6958137.	-58.0220	6585.	0.00
4.8000	0.00161	1273.	109.9522	-7.50E-04	3843.	6958137.	-202.4186	25166.	0.00
5.0000	0.00146	1291.	70.5427	-7.13E-04	3897.	6958137.	-191.6761	26215.	0.00
5.2000	0.00132	1302.	33.3340	-6.76E-04	3928.	6958137.	-180.4114	27263.	0.00
5.4000	0.00119	1305.	-1.5821	-6.38E-04	3938.	6958137.	-168.7496	28312.	0.00
5.6000	0.00107	1301.	-34.1382	-6.01E-04	3926.	6958137.	-156.8111	29361.	0.00
5.8000	9.52E-04	1291.	-64.2904	-5.64E-04	3896.	6958137.	-144.7106	30409.	0.00
6.0000	8.43E-04	1275.	-92.0171	-5.27E-04	3849.	6958137.	-132.5567	31458.	0.00
6.2000	7.41E-04	1254.	-117.3179	-4.90E-04	3785.	6958137.	-120.4514	32506.	0.00
6.4000	6.47E-04	1228.	-140.2121	-4.55E-04	3707.	6958137.	-108.4898	33555.	0.00
6.6000	5.59E-04	1198.	-160.7370	-4.20E-04	3616.	6958137.	-96.7594	34604.	0.00
6.8000	4.79E-04	1164.	-178.9470	-3.86E-04	3513.	6958137.	-85.3405	35652.	0.00
7.0000	4.05E-04	1127.	-194.9116	-3.53E-04	3400.	6958137.	-74.3053	36701.	0.00
7.2000	3.38E-04	1086.	-208.7139	-3.21E-04	3278.	6958137.	-63.7185	37749.	0.00
7.4000	2.76E-04	1043.	-220.4495	-2.90E-04	3148.	6958137.	-53.6368	38798.	0.00
7.6000	2.21E-04	997.9191	-230.2241	-2.61E-04	3012.	6958137.	-44.1092	39847.	0.00
7.8000	1.72E-04	950.9921	-238.1527	-2.33E-04	2870.	6958137.	-35.1768	40895.	0.00
8.0000	1.28E-04	902.6581	-244.3577	-2.06E-04	2724.	6958137.	-26.8733	41944.	0.00
8.2000	8.94E-05	853.2491	-248.9675	-1.81E-04	2575.	6958137.	-19.2250	42992.	0.00
8.4000	5.56E-05	803.0711	-252.1151	-1.57E-04	2424.	6958137.	-12.2510	44041.	0.00
8.6000	2.65E-05	752.4030	-253.9365	-1.35E-04	2271.	6958137.	-5.9633	45090.	0.00
8.8000	1.59E-06	701.4965	-254.5696	-1.14E-04	2117.	6958137.	-0.3674	46138.	0.00
9.0000	-1.92E-05	650.5752	-254.1526	-9.48E-05	1963.	6958137.	4.5377	47187.	0.00
9.2000	-3.63E-05	599.8354	-252.8229	-7.68E-05	1810.	6958137.	8.7591	48235.	0.00
9.4000	-5.00E-05	549.4460	-250.7160	-6.03E-05	1658.	6958137.	12.3101	49284.	0.00
9.6000	-6.04E-05	499.5490	-247.9641	-4.52E-05	1508.	6958137.	15.2091	50332.	0.00

9.8000	-6.80E-05	450.2604	-244.6951	-3.16E-05	1359.	6958137.	17.4802	51381.	0.00
10.0000	-7.31E-05	401.6710	-241.0318	-1.93E-05	1212.	6958137.	19.1526	52430.	0.00
10.2000	-7.58E-05	353.8477	-237.0906	-8.46E-06	1068.	6958137.	20.2602	53478.	0.00
10.4000	-7.64E-05	306.8347	-232.9804	1.03E-06	926.0424	6958137.	20.8416	54527.	0.00
10.6000	-7.54E-05	260.6555	-228.8022	9.19E-06	786.6711	6958137.	20.9399	55575.	0.00
10.8000	-7.28E-05	215.3138	-224.6480	1.60E-05	649.8278	6958137.	20.6026	56624.	0.00
11.0000	-6.89E-05	170.7963	-220.5996	2.16E-05	515.4716	6958137.	19.8812	57673.	0.00
11.2000	-6.41E-05	127.0740	-216.7283	2.59E-05	383.5156	6958137.	18.8315	58721.	0.00
11.4000	-5.86E-05	84.1050	-213.0939	2.89E-05	253.8329	6958137.	17.5130	59770.	0.00
11.6000	-5.26E-05	41.8365	-209.7436	3.07E-05	126.2645	6958137.	15.9895	60818.	0.00
11.8000	-4.63E-05	0.2075	-188.3123	3.13E-05	0.6263	6958137.	198.3235	856317.	0.00
12.0000	-4.01E-05	-33.4885	-149.1645	3.08E-05	101.0699	6958137.	193.1544	964376.	0.00
12.2000	-3.40E-05	-59.4583	-111.1283	2.95E-05	179.4481	6958137.	187.2077	1101603.	0.00
12.4000	-2.83E-05	-77.9398	-75.1483	2.75E-05	235.2262	6958137.	172.5929	1221449.	0.00
12.6000	-2.30E-05	-89.5176	-43.7186	2.51E-05	270.1685	6958137.	141.7035	1233249.	0.00
12.8000	-1.82E-05	-95.4273	-18.2088	2.25E-05	288.0042	6958137.	113.3946	1245049.	0.00
13.0000	-1.40E-05	-96.8011	1.9277	1.97E-05	292.1506	6958137.	87.9709	1256849.	0.00
13.2000	-1.03E-05	-94.6562	17.2828	1.69E-05	285.6770	6958137.	65.5794	1268649.	0.00
13.4000	-7.22E-06	-89.8880	28.4647	1.43E-05	271.2865	6958137.	46.2399	1280449.	0.00
13.6000	-4.62E-06	-83.2703	36.0758	1.18E-05	251.3139	6958137.	29.8713	1292249.	0.00
13.8000	-2.50E-06	-75.4577	40.6947	9.52E-06	227.7351	6958137.	16.3173	1304049.	0.00
14.0000	-8.16E-07	-66.9924	42.8631	7.47E-06	202.1865	6958137.	5.3670	1315849.	0.00
14.2000	4.86E-07	-58.3125	43.0772	5.67E-06	175.9899	6958137.	-3.2259	1327649.	0.00
14.4000	1.45E-06	-49.7615	41.7819	4.12E-06	150.1828	6958137.	-9.7273	1339449.	0.00
14.6000	2.13E-06	-41.5997	39.3695	2.80E-06	125.5500	6958137.	-14.3967	1350000.	0.00
14.8000	2.57E-06	-34.0137	36.1923	1.72E-06	102.6552	6958137.	-17.3753	1350000.	0.00
15.0000	2.82E-06	-27.1228	32.5514	8.39E-07	81.8579	6958137.	-19.0340	1350000.	0.00
15.2000	2.91E-06	-20.9932	28.6839	1.47E-07	63.3585	6958137.	-19.6403	1350000.	0.00
15.4000	2.88E-06	-15.6492	24.7767	-3.79E-07	47.2301	6958137.	-19.4320	1350000.	0.00
15.6000	2.76E-06	-11.0825	20.9719	-7.63E-07	33.4476	6958137.	-18.6164	1350000.	0.00
15.8000	2.57E-06	-7.2605	17.3731	-1.03E-06	21.9125	6958137.	-17.3708	1350000.	0.00
16.0000	2.35E-06	-4.1333	14.0517	-1.19E-06	12.4744	6958137.	-15.8435	1350000.	0.00
16.2000	2.10E-06	-1.6398	11.0518	-1.27E-06	4.9490	6958137.	-14.1557	1350000.	0.00
16.4000	1.84E-06	0.2875	8.3958	-1.29E-06	0.8675	6958137.	-12.4044	1350000.	0.00
16.6000	1.58E-06	1.7185	6.0889	-1.26E-06	5.1866	6958137.	-10.6642	1350000.	0.00
16.8000	1.33E-06	2.7230	4.1234	-1.20E-06	8.2182	6958137.	-8.9907	1350000.	0.00
17.0000	1.10E-06	3.3679	2.4821	-1.11E-06	10.1645	6958137.	-7.4228	1350000.	0.00
17.2000	8.87E-07	3.7159	1.1413	-1.01E-06	11.2146	6958137.	-5.9856	1350000.	0.00
17.4000	6.95E-07	3.8244	0.07342	-9.03E-07	11.5422	6958137.	-4.6926	1350000.	0.00
17.6000	5.26E-07	3.7452	-0.7506	-7.94E-07	11.3033	6958137.	-3.5481	1350000.	0.00
17.8000	3.78E-07	3.5241	-1.3603	-6.90E-07	10.6360	6958137.	-2.5488	1350000.	0.00
18.0000	2.50E-07	3.2011	-1.7838	-5.93E-07	9.6611	6958137.	-1.6863	1350000.	0.00
18.2000	1.40E-07	2.8106	-2.0473	-5.06E-07	8.4825	6958137.	-0.9480	1350000.	0.00
18.4000	4.72E-08	2.3822	-2.1740	-4.32E-07	7.1895	6958137.	-0.3188	1350000.	0.00

18.6000	-3.23E-08	1.9410	-2.1840	-3.70E-07	5.8581	6958137.	0.2180	1350000.	0.00
18.8000	-1.01E-07	1.5086	-2.0943	-3.20E-07	4.5529	6958137.	0.6795	1350000.	0.00
19.0000	-1.60E-07	1.1033	-1.9181	-2.83E-07	3.3298	6958137.	1.0824	1350000.	0.00
19.2000	-2.14E-07	0.7413	-1.6656	-2.56E-07	2.2374	6958137.	1.4426	1350000.	0.00
19.4000	-2.63E-07	0.4371	-1.3439	-2.39E-07	1.3191	6958137.	1.7739	1350000.	0.00
19.6000	-3.09E-07	0.2038	-0.9577	-2.30E-07	0.6150	6958137.	2.0883	1350000.	0.00
19.8000	-3.55E-07	0.05398	-0.5094	-2.26E-07	0.1629	6958137.	2.3948	1350000.	0.00
20.0000	-4.00E-07	0.00	0.00	-2.25E-07	0.00	6958137.	2.6992	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 4:

Pile-head deflection = 0.00679990 meters
Computed slope at pile head = -0.00126594 radians
Maximum bending moment = 1305. kN-m
Maximum shear force = 400.00000000 kN
Depth of maximum bending moment = 5.40000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 12
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 5

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 500.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00918	-3.02E-09	500.0000	-0.00169	9.11E-09	6958137.	-55.3410	602.5492	0.00
0.2000	0.00885	98.8932	488.8060	-0.00168	298.4645	6958137.	-56.5987	1279.	0.00
0.4000	0.00851	195.5224	477.3672	-0.00168	590.0963	6958137.	-57.7900	1358.	0.00
0.6000	0.00818	289.8400	465.6969	-0.00167	874.7516	6958137.	-58.9133	1441.	0.00

0.8000	0.00784	381.8012	453.8088	-0.00166	1152.	6958137.	-59.9670	1529.	0.00
1.0000	0.00751	471.3636	441.7172	-0.00165	1423.	6958137.	-60.9495	1623.	0.00
1.2000	0.00718	558.4880	429.4363	-0.00164	1686.	6958137.	-61.8591	1723.	0.00
1.4000	0.00686	643.1381	416.9810	-0.00162	1941.	6958137.	-62.6943	1829.	0.00
1.6000	0.00653	725.2804	404.3662	-0.00160	2189.	6958137.	-63.4535	1942.	0.00
1.8000	0.00622	804.8846	391.6074	-0.00158	2429.	6958137.	-64.1350	2064.	0.00
2.0000	0.00590	881.9234	378.7201	-0.00155	2662.	6958137.	-64.7372	2194.	0.00
2.2000	0.00559	956.3727	365.7206	-0.00153	2886.	6958137.	-65.2584	2333.	0.00
2.4000	0.00529	1028.	352.6250	-0.00150	3103.	6958137.	-65.6972	2483.	0.00
2.6000	0.00499	1097.	339.4501	-0.00147	3312.	6958137.	-66.0517	2645.	0.00
2.8000	0.00470	1164.	326.2129	-0.00144	3513.	6958137.	-66.3203	2819.	0.00
3.0000	0.00442	1228.	312.9308	-0.00140	3706.	6958137.	-66.5015	3009.	0.00
3.2000	0.00414	1289.	299.6213	-0.00136	3891.	6958137.	-66.5934	3214.	0.00
3.4000	0.00387	1348.	286.3025	-0.00133	4068.	6958137.	-66.5946	3437.	0.00
3.6000	0.00361	1404.	272.9927	-0.00129	4236.	6958137.	-66.5034	3681.	0.00
3.8000	0.00336	1457.	259.7105	-0.00125	4397.	6958137.	-66.3181	3948.	0.00
4.0000	0.00311	1508.	246.4750	-0.00120	4550.	6958137.	-66.0372	4240.	0.00
4.2000	0.00288	1556.	233.3054	-0.00116	4695.	6958137.	-65.6592	4562.	0.00
4.4000	0.00265	1601.	220.2212	-0.00111	4832.	6958137.	-65.1826	4917.	0.00
4.6000	0.00243	1644.	207.2423	-0.00107	4961.	6958137.	-64.6062	5311.	0.00
4.8000	0.00222	1684.	172.7965	-0.00102	5082.	6958137.	-279.8517	25166.	0.00
5.0000	0.00202	1713.	118.2699	-9.71E-04	5169.	6958137.	-265.4142	26215.	0.00
5.2000	0.00184	1731.	66.7054	-9.21E-04	5225.	6958137.	-250.2311	27263.	0.00
5.4000	0.00166	1739.	18.2351	-8.72E-04	5250.	6958137.	-234.4721	28312.	0.00
5.6000	0.00149	1738.	-27.0422	-8.22E-04	5247.	6958137.	-218.3008	29361.	0.00
5.8000	0.00133	1729.	-69.0597	-7.72E-04	5217.	6958137.	-201.8736	30409.	0.00
6.0000	0.00118	1711.	-107.7809	-7.22E-04	5163.	6958137.	-185.3388	31458.	0.00
6.2000	0.00104	1686.	-143.1984	-6.74E-04	5087.	6958137.	-168.8360	32506.	0.00
6.4000	9.09E-04	1653.	-175.3316	-6.26E-04	4990.	6958137.	-152.4957	33555.	0.00
6.6000	7.89E-04	1615.	-204.2250	-5.79E-04	4875.	6958137.	-136.4382	34604.	0.00
6.8000	6.78E-04	1572.	-229.9462	-5.33E-04	4744.	6958137.	-120.7741	35652.	0.00
7.0000	5.75E-04	1523.	-252.2695	-4.88E-04	4598.	6958137.	-102.4595	35608.	0.00
7.2000	4.82E-04	1471.	-271.6171	-4.45E-04	4439.	6958137.	-91.0159	37749.	0.00
7.4000	3.97E-04	1415.	-288.4278	-4.04E-04	4270.	6958137.	-77.0907	38798.	0.00
7.6000	3.21E-04	1356.	-302.5265	-3.64E-04	4091.	6958137.	-63.8963	39847.	0.00
7.8000	2.52E-04	1294.	-314.0652	-3.26E-04	3905.	6958137.	-51.4913	40895.	0.00
8.0000	1.90E-04	1230.	-323.2067	-2.90E-04	3712.	6958137.	-39.9236	41944.	0.00
8.2000	1.36E-04	1164.	-330.1222	-2.55E-04	3514.	6958137.	-29.2313	42992.	0.00
8.4000	8.83E-05	1098.	-334.9896	-2.23E-04	3313.	6958137.	-19.4428	44041.	0.00
8.6000	4.69E-05	1030.	-337.9916	-1.92E-04	3110.	6958137.	-10.5770	45090.	0.00
8.8000	1.15E-05	962.6465	-339.3137	-1.63E-04	2905.	6958137.	-2.6440	46138.	0.00
9.0000	-1.85E-05	894.7309	-339.1425	-1.37E-04	2700.	6958137.	4.3552	47187.	0.00
9.2000	-4.32E-05	826.9895	-337.6642	-1.12E-04	2496.	6958137.	10.4277	48235.	0.00
9.4000	-6.33E-05	759.6652	-335.0626	-8.92E-05	2293.	6958137.	15.5885	49284.	0.00

9.6000	-7.89E-05	692.9644	-331.5178	-6.83E-05	2091.	6958137.	19.8602	50332.	0.00
9.8000	-9.06E-05	627.0581	-327.2045	-4.94E-05	1892.	6958137.	23.2726	51381.	0.00
10.0000	-9.87E-05	562.0827	-322.2910	-3.23E-05	1696.	6958137.	25.8625	52430.	0.00
10.2000	-1.03E-04	498.1417	-316.9374	-1.70E-05	1503.	6958137.	27.6730	53478.	0.00
10.4000	-1.05E-04	435.3077	-311.2948	-3.61E-06	1314.	6958137.	28.7534	54527.	0.00
10.6000	-1.05E-04	373.6238	-305.5035	8.02E-06	1128.	6958137.	29.1592	55575.	0.00
10.8000	-1.02E-04	313.1063	-299.6925	1.79E-05	944.9702	6958137.	28.9513	56624.	0.00
11.0000	-9.78E-05	253.7468	-293.9777	2.60E-05	765.8204	6958137.	28.1964	57673.	0.00
11.2000	-9.18E-05	195.5152	-288.4614	3.25E-05	590.0745	6958137.	26.9661	58721.	0.00
11.4000	-8.48E-05	138.3622	-283.2311	3.73E-05	417.5840	6958137.	25.3378	59770.	0.00
11.6000	-7.69E-05	82.2228	-278.3579	4.05E-05	248.1524	6958137.	23.3935	60818.	0.00
11.8000	-6.86E-05	27.0191	-254.1362	4.20E-05	81.5449	6958137.	218.8240	637963.	0.00
12.0000	-6.01E-05	-19.4317	-210.8707	4.21E-05	58.6458	6958137.	213.8311	711378.	0.00
12.2000	-5.17E-05	-57.3292	-168.6879	4.10E-05	173.0224	6958137.	207.9966	803919.	0.00
12.4000	-4.37E-05	-86.9069	-127.7536	3.90E-05	262.2892	6958137.	201.3463	921420.	0.00
12.6000	-3.62E-05	-108.4307	-88.2297	3.62E-05	327.2491	6958137.	193.8928	1072390.	0.00
12.8000	-2.92E-05	-122.1987	-50.6368	3.28E-05	368.8018	6958137.	182.0361	1245049.	0.00
13.0000	-2.30E-05	-128.6854	-17.9639	2.92E-05	388.3788	6958137.	144.6935	1256849.	0.00
13.2000	-1.75E-05	-129.3843	7.6365	2.55E-05	390.4881	6958137.	111.3099	1268649.	0.00
13.4000	-1.28E-05	-125.6308	26.9717	2.19E-05	379.1599	6958137.	82.0419	1280449.	0.00
13.6000	-8.80E-06	-118.5956	40.8640	1.84E-05	357.9274	6958137.	56.8818	1292249.	0.00
13.8000	-5.47E-06	-109.2852	50.1216	1.51E-05	329.8280	6958137.	35.6937	1304049.	0.00
14.0000	-2.77E-06	-98.5470	55.5156	1.21E-05	297.4197	6958137.	18.2460	1315849.	0.00
14.2000	-6.39E-07	-87.0790	57.7642	9.42E-06	262.8086	6958137.	4.2403	1327649.	0.00
14.4000	9.95E-07	-75.4413	57.5218	7.09E-06	227.6856	6958137.	-6.6647	1339449.	0.00
14.6000	2.20E-06	-64.0703	55.3734	5.08E-06	193.3672	6958137.	-14.8187	1350000.	0.00
14.8000	3.03E-06	-53.2919	51.8481	3.39E-06	160.8377	6958137.	-20.4340	1350000.	0.00
15.0000	3.55E-06	-43.3310	47.4066	2.00E-06	130.7751	6958137.	-23.9815	1350000.	0.00
15.2000	3.83E-06	-34.3293	42.4237	8.89E-07	103.6075	6958137.	-25.8475	1350000.	0.00
15.4000	3.91E-06	-26.3615	37.2008	1.67E-08	79.5604	6958137.	-26.3815	1350000.	0.00
15.6000	3.84E-06	-19.4490	31.9734	-6.42E-07	58.6980	6958137.	-25.8925	1350000.	0.00
15.8000	3.65E-06	-13.5722	26.9192	-1.12E-06	40.9615	6958137.	-24.6489	1350000.	0.00
16.0000	3.39E-06	-8.6813	22.1665	-1.44E-06	26.2006	6958137.	-22.8786	1350000.	0.00
16.2000	3.08E-06	-4.7056	17.8015	-1.63E-06	14.2016	6958137.	-20.7714	1350000.	0.00
16.4000	2.74E-06	-1.5607	13.8762	-1.72E-06	4.7103	6958137.	-18.4817	1350000.	0.00
16.6000	2.39E-06	0.8449	10.4149	-1.73E-06	2.5500	6958137.	-16.1313	1350000.	0.00
16.8000	2.05E-06	2.6053	7.4204	-1.68E-06	7.8628	6958137.	-13.8138	1350000.	0.00
17.0000	1.72E-06	3.8131	4.8793	-1.59E-06	11.5080	6958137.	-11.5974	1350000.	0.00
17.2000	1.41E-06	4.5570	2.7666	-1.47E-06	13.7531	6958137.	-9.5289	1350000.	0.00
17.4000	1.13E-06	4.9197	1.0500	-1.33E-06	14.8479	6958137.	-7.6372	1350000.	0.00
17.6000	8.79E-07	4.9770	-0.3073	-1.19E-06	15.0208	6958137.	-5.9365	1350000.	0.00
17.8000	6.56E-07	4.7968	-1.3439	-1.05E-06	14.4769	6958137.	-4.4288	1350000.	0.00
18.0000	4.60E-07	4.4394	-2.0975	-9.15E-07	13.3984	6958137.	-3.1073	1350000.	0.00
18.2000	2.90E-07	3.9578	-2.6040	-7.94E-07	11.9448	6958137.	-1.9581	1350000.	0.00

18.4000	1.43E-07	3.3978	-2.8961	-6.89E-07	10.2548	6958137.	-0.9625	1350000.	0.00
18.6000	1.46E-08	2.7993	-3.0022	-6.00E-07	8.4486	6958137.	-0.09864	1350000.	0.00
18.8000	-9.73E-08	2.1969	-2.9464	-5.28E-07	6.6305	6958137.	0.6565	1350000.	0.00
19.0000	-1.97E-07	1.6208	-2.7481	-4.73E-07	4.8916	6958137.	1.3265	1350000.	0.00
19.2000	-2.86E-07	1.0977	-2.4221	-4.34E-07	3.3129	6958137.	1.9335	1350000.	0.00
19.4000	-3.70E-07	0.6519	-1.9790	-4.09E-07	1.9676	6958137.	2.4980	1350000.	0.00
19.6000	-4.50E-07	0.3061	-1.4254	-3.95E-07	0.9239	6958137.	3.0371	1350000.	0.00
19.8000	-5.28E-07	0.08177	-0.7653	-3.89E-07	0.2468	6958137.	3.5644	1350000.	0.00
20.0000	-6.06E-07	0.00	0.00	-3.88E-07	0.00	6958137.	4.0885	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 5:

Pile-head deflection = 0.00918448 meters
Computed slope at pile head = -0.00168578 radians
Maximum bending moment = 1739. kN-m
Maximum shear force = 500.00000000 kN
Depth of maximum bending moment = 5.40000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 11
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 6

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 700.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.01544	5.43E-09	700.0000	-0.00268	1.64E-08	6958137.	-65.7983	426.2281	0.00
0.2000	0.01490	138.6840	686.6863	-0.00268	418.5553	6958137.	-67.3391	903.8304	0.00
0.4000	0.01437	274.6745	673.0717	-0.00267	828.9812	6958137.	-68.8063	957.9637	0.00

0.6000	0.01383	407.9127	659.1713	-0.00266	1231.	6958137.	-70.1980	1015.	0.00
0.8000	0.01330	538.3430	645.0002	-0.00265	1625.	6958137.	-71.5126	1075.	0.00
1.0000	0.01277	665.9128	630.5741	-0.00263	2010.	6958137.	-72.7483	1139.	0.00
1.2000	0.01225	790.5727	615.9090	-0.00261	2386.	6958137.	-73.9034	1207.	0.00
1.4000	0.01173	912.2764	601.0210	-0.00259	2753.	6958137.	-74.9760	1279.	0.00
1.6000	0.01121	1031.	585.9270	-0.00256	3112.	6958137.	-75.9645	1355.	0.00
1.8000	0.01070	1147.	570.6438	-0.00253	3461.	6958137.	-76.8670	1437.	0.00
2.0000	0.01020	1259.	555.1889	-0.00249	3800.	6958137.	-77.6819	1523.	0.00
2.2000	0.00970	1369.	539.5800	-0.00246	4131.	6958137.	-78.4074	1616.	0.00
2.4000	0.00922	1475.	523.8351	-0.00242	4452.	6958137.	-79.0417	1715.	0.00
2.6000	0.00874	1578.	507.9726	-0.00237	4763.	6958137.	-79.5831	1822.	0.00
2.8000	0.00827	1678.	492.0113	-0.00233	5065.	6958137.	-80.0298	1936.	0.00
3.0000	0.00781	1775.	475.9704	-0.00228	5357.	6958137.	-80.3800	2059.	0.00
3.2000	0.00736	1869.	459.8691	-0.00222	5640.	6958137.	-80.6321	2192.	0.00
3.4000	0.00692	1959.	443.7275	-0.00217	5912.	6958137.	-80.7842	2336.	0.00
3.6000	0.00649	2046.	427.5656	-0.00211	6175.	6958137.	-80.8348	2491.	0.00
3.8000	0.00607	2130.	411.4039	-0.00205	6429.	6958137.	-80.7822	2660.	0.00
4.0000	0.00567	2211.	395.2632	-0.00199	6672.	6958137.	-80.6247	2844.	0.00
4.2000	0.00528	2288.	379.1647	-0.00192	6906.	6958137.	-80.3610	3045.	0.00
4.4000	0.00490	2362.	363.1296	-0.00186	7130.	6958137.	-79.9895	3265.	0.00
4.6000	0.00453	2433.	347.1798	-0.00179	7344.	6958137.	-79.5092	3507.	0.00
4.8000	0.00418	2501.	304.1247	-0.00172	7549.	6958137.	-351.0416	16780.	0.00
5.0000	0.00385	2555.	234.6779	-0.00164	7711.	6958137.	-343.4267	17850.	0.00
5.2000	0.00353	2595.	167.1019	-0.00157	7832.	6958137.	-332.3330	18849.	0.00
5.4000	0.00322	2622.	102.0891	-0.00150	7913.	6958137.	-317.7944	19740.	0.00
5.6000	0.00293	2636.	40.0507	-0.00142	7955.	6958137.	-302.5905	20667.	0.00
5.8000	0.00265	2638.	-19.0810	-0.00134	7961.	6958137.	-288.7261	21776.	0.00
6.0000	0.00239	2628.	-75.1790	-0.00127	7932.	6958137.	-272.2540	22777.	0.00
6.2000	0.00214	2608.	-127.7454	-0.00119	7871.	6958137.	-253.4095	23634.	0.00
6.4000	0.00191	2577.	-176.3364	-0.00112	7778.	6958137.	-232.5014	24304.	0.00
6.6000	0.00170	2537.	-220.5781	-0.00105	7658.	6958137.	-209.9147	24740.	0.00
6.8000	0.00150	2489.	-260.1805	-9.73E-04	7512.	6958137.	-186.1098	24893.	0.00
7.0000	0.00131	2433.	-294.9532	-9.02E-04	7344.	6958137.	-161.6172	24715.	0.00
7.2000	0.00113	2371.	-326.2716	-8.33E-04	7156.	6958137.	-151.5670	26722.	0.00
7.4000	9.75E-04	2303.	-355.6836	-7.66E-04	6950.	6958137.	-142.5533	29254.	0.00
7.6000	8.28E-04	2229.	-383.2118	-7.01E-04	6726.	6958137.	-132.7285	32059.	0.00
7.8000	6.94E-04	2149.	-408.7013	-6.38E-04	6487.	6958137.	-122.1666	35193.	0.00
8.0000	5.73E-04	2065.	-432.0125	-5.77E-04	6233.	6958137.	-110.9453	38733.	0.00
8.2000	4.63E-04	1977.	-453.0213	-5.19E-04	5966.	6958137.	-99.1426	42794.	0.00
8.4000	3.65E-04	1884.	-470.9772	-4.64E-04	5686.	6958137.	-80.4163	44041.	0.00
8.6000	2.78E-04	1788.	-485.2831	-4.11E-04	5397.	6958137.	-62.6422	45090.	0.00
8.8000	2.01E-04	1690.	-496.1797	-3.61E-04	5100.	6958137.	-46.3239	46138.	0.00
9.0000	1.33E-04	1590.	-503.9610	-3.14E-04	4798.	6958137.	-31.4896	47187.	0.00
9.2000	7.53E-05	1488.	-508.9253	-2.70E-04	4492.	6958137.	-18.1534	48235.	0.00

9.4000	2.56E-05	1386.	-511.3722	-2.28E-04	4184.	6958137.	-6.3153	49284.	0.00
9.6000	-1.60E-05	1284.	-511.5999	-1.90E-04	3875.	6958137.	4.0379	50332.	0.00
9.8000	-5.03E-05	1182.	-509.9029	-1.54E-04	3566.	6958137.	12.9321	51381.	0.00
10.0000	-7.78E-05	1080.	-506.5692	-1.22E-04	3259.	6958137.	20.4053	52430.	0.00
10.2000	-9.91E-05	978.9260	-501.8779	-9.24E-05	2954.	6958137.	26.5070	53478.	0.00
10.4000	-1.15E-04	879.0805	-496.0975	-6.57E-05	2653.	6958137.	31.2978	54527.	0.00
10.6000	-1.25E-04	780.4870	-489.4828	-4.18E-05	2356.	6958137.	34.8485	55575.	0.00
10.8000	-1.32E-04	683.2874	-482.2740	-2.08E-05	2062.	6958137.	37.2403	56624.	0.00
11.0000	-1.34E-04	587.5774	-474.6936	-2.54E-06	1773.	6958137.	38.5635	57673.	0.00
11.2000	-1.33E-04	493.4100	-466.9454	1.30E-05	1489.	6958137.	38.9181	58721.	0.00
11.4000	-1.29E-04	400.7993	-459.2123	2.58E-05	1210.	6958137.	38.4127	59770.	0.00
11.6000	-1.22E-04	309.7250	-451.6546	3.61E-05	934.7654	6958137.	37.1644	60818.	0.00
11.8000	-1.14E-04	220.1374	-423.0929	4.37E-05	664.3855	6958137.	248.4527	435451.	0.00
12.0000	-1.05E-04	140.4879	-373.6867	4.89E-05	423.9993	6958137.	245.6093	468962.	0.00
12.2000	-9.46E-05	70.6627	-324.9484	5.19E-05	213.2636	6958137.	241.7735	511303.	0.00
12.4000	-8.40E-05	10.5085	-277.0713	5.31E-05	31.7152	6958137.	236.9973	564341.	0.00
12.6000	-7.33E-05	-40.1658	-230.2397	5.26E-05	121.2224	6958137.	231.3189	630730.	0.00
12.8000	-6.29E-05	-81.5874	-184.6313	5.09E-05	246.2347	6958137.	224.7651	714228.	0.00
13.0000	-5.30E-05	-114.0183	-140.4197	4.81E-05	344.1130	6958137.	217.3507	820221.	0.00
13.2000	-4.37E-05	-137.7553	-97.7770	4.44E-05	415.7522	6958137.	209.0770	956606.	0.00
13.4000	-3.52E-05	-153.1291	-56.8766	4.03E-05	462.1513	6958137.	199.9263	1135352.	0.00
13.6000	-2.76E-05	-160.5059	-19.0479	3.58E-05	484.4148	6958137.	178.3612	1292249.	0.00
13.8000	-2.09E-05	-160.7483	12.4246	3.11E-05	485.1462	6958137.	136.3636	1304049.	0.00
14.0000	-1.51E-05	-155.5361	36.0266	2.66E-05	469.4156	6958137.	99.6562	1315849.	0.00
14.2000	-1.03E-05	-146.3376	52.8126	2.23E-05	441.6542	6958137.	68.2038	1327649.	0.00
14.4000	-6.24E-06	-134.4111	63.8140	1.82E-05	405.6592	6958137.	41.8105	1339449.	0.00
14.6000	-2.98E-06	-120.8120	70.0094	1.46E-05	364.6167	6958137.	20.1432	1350000.	0.00
14.8000	-4.20E-07	-106.4073	72.3072	1.13E-05	321.1425	6958137.	2.8345	1350000.	0.00
15.0000	1.53E-06	-91.8892	71.5561	8.44E-06	277.3261	6958137.	-10.3452	1350000.	0.00
15.2000	2.96E-06	-77.7849	68.5256	6.00E-06	234.7585	6958137.	-19.9593	1350000.	0.00
15.4000	3.93E-06	-64.4789	63.8742	3.96E-06	194.6006	6958137.	-26.5551	1350000.	0.00
15.6000	4.54E-06	-52.2352	58.1538	2.28E-06	157.6483	6958137.	-30.6488	1350000.	0.00
15.8000	4.85E-06	-41.2174	51.8174	9.39E-07	124.3961	6958137.	-32.7157	1350000.	0.00
16.0000	4.92E-06	-31.5082	45.2275	-1.07E-07	95.0934	6958137.	-33.1831	1350000.	0.00
16.2000	4.80E-06	-23.1264	38.6664	-8.92E-07	69.7966	6958137.	-32.4280	1350000.	0.00
16.4000	4.56E-06	-16.0417	32.3460	-1.45E-06	48.4146	6958137.	-30.7754	1350000.	0.00
16.6000	4.22E-06	-10.1880	26.4185	-1.83E-06	30.7478	6958137.	-28.5004	1350000.	0.00
16.8000	3.83E-06	-5.4743	20.9854	-2.06E-06	16.5217	6958137.	-25.8301	1350000.	0.00
17.0000	3.40E-06	-1.7938	16.1077	-2.16E-06	5.4138	6958137.	-22.9473	1350000.	0.00
17.2000	2.96E-06	0.9688	11.8134	-2.17E-06	2.9238	6958137.	-19.9950	1350000.	0.00
17.4000	2.53E-06	2.9316	8.1059	-2.12E-06	8.8476	6958137.	-17.0802	1350000.	0.00
17.6000	2.12E-06	4.2111	4.9700	-2.01E-06	12.7094	6958137.	-14.2792	1350000.	0.00
17.8000	1.72E-06	4.9195	2.3779	-1.88E-06	14.8474	6958137.	-11.6415	1350000.	0.00
18.0000	1.36E-06	5.1623	0.2943	-1.74E-06	15.5801	6958137.	-9.1948	1350000.	0.00

18.2000	1.03E-06	5.0373	-1.3200	-1.59E-06	15.2027	6958137.	-6.9484	1350000.	0.00
18.4000	7.26E-07	4.6343	-2.5046	-1.45E-06	13.9865	6958137.	-4.8975	1350000.	0.00
18.6000	4.48E-07	4.0354	-3.2970	-1.33E-06	12.1790	6958137.	-3.0263	1350000.	0.00
18.8000	1.94E-07	3.3155	-3.7308	-1.22E-06	10.0063	6958137.	-1.3118	1350000.	0.00
19.0000	-4.06E-08	2.5431	-3.8346	-1.14E-06	7.6751	6958137.	0.2741	1350000.	0.00
19.2000	-2.61E-07	1.7816	-3.6311	-1.08E-06	5.3770	6958137.	1.7613	1350000.	0.00
19.4000	-4.71E-07	1.0906	-3.1370	-1.03E-06	3.2916	6958137.	3.1793	1350000.	0.00
19.6000	-6.75E-07	0.5268	-2.3636	-1.01E-06	1.5900	6958137.	4.5551	1350000.	0.00
19.8000	-8.76E-07	0.1452	-1.3170	-1.00E-06	0.4382	6958137.	5.9104	1350000.	0.00
20.0000	-1.08E-06	0.00	0.00	-1.00E-06	0.00	6958137.	7.2600	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 6:

Pile-head deflection = 0.01543734 meters
Computed slope at pile head = -0.00268257 radians
Maximum bending moment = 2638. kN-m
Maximum shear force = 700.00000000 kN
Depth of maximum bending moment = 5.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 17
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 7

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 1000.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.02692	-4.22E-09	1000.0000	-0.00440	1.28E-08	6958137.	-79.1999	294.1852	0.00
0.2000	0.02604	198.4160	983.9687	-0.00439	598.8293	6958137.	-81.1129	622.9318	0.00

0.4000	0.02516	393.5875	967.5630	-0.00439	1188.	6958137.	-82.9439	659.2272	0.00
0.6000	0.02429	585.4412	950.7995	-0.00437	1767.	6958137.	-84.6910	697.3919	0.00
0.8000	0.02342	773.9073	933.6952	-0.00435	2336.	6958137.	-86.3523	737.5737	0.00
1.0000	0.02255	958.9193	916.2674	-0.00433	2894.	6958137.	-87.9258	779.9348	0.00
1.2000	0.02168	1140.	898.5338	-0.00430	3442.	6958137.	-89.4098	824.6530	0.00
1.4000	0.02083	1318.	880.5126	-0.00426	3979.	6958137.	-90.8023	871.9240	0.00
1.6000	0.01998	1493.	862.2222	-0.00422	4505.	6958137.	-92.1015	921.9634	0.00
1.8000	0.01914	1663.	843.6815	-0.00418	5020.	6958137.	-93.3055	975.0094	0.00
2.0000	0.01831	1830.	824.9097	-0.00413	5523.	6958137.	-94.4124	1031.	0.00
2.2000	0.01749	1993.	805.9265	-0.00407	6016.	6958137.	-95.4203	1091.	0.00
2.4000	0.01668	2152.	786.7517	-0.00401	6496.	6958137.	-96.3274	1155.	0.00
2.6000	0.01588	2308.	767.4058	-0.00395	6965.	6958137.	-97.1317	1223.	0.00
2.8000	0.01510	2459.	747.9095	-0.00388	7423.	6958137.	-97.8315	1296.	0.00
3.0000	0.01433	2607.	728.2838	-0.00381	7868.	6958137.	-98.4249	1373.	0.00
3.2000	0.01358	2751.	708.5503	-0.00373	8302.	6958137.	-98.9101	1457.	0.00
3.4000	0.01284	2890.	688.7308	-0.00365	8724.	6958137.	-99.2852	1546.	0.00
3.6000	0.01212	3026.	668.8474	-0.00356	9133.	6958137.	-99.5486	1643.	0.00
3.8000	0.01142	3158.	648.9227	-0.00347	9531.	6958137.	-99.6985	1747.	0.00
4.0000	0.01073	3286.	628.9795	-0.00338	9917.	6958137.	-99.7333	1859.	0.00
4.2000	0.01006	3410.	609.0410	-0.00329	10290.	6958137.	-99.6515	1980.	0.00
4.4000	0.00942	3529.	589.1307	-0.00319	10652.	6958137.	-99.4517	2112.	0.00
4.6000	0.00879	3645.	569.2723	-0.00308	11002.	6958137.	-99.1326	2256.	0.00
4.8000	0.00818	3757.	515.0931	-0.00298	11339.	6958137.	-442.6591	10819.	0.00
5.0000	0.00760	3851.	427.0279	-0.00287	11623.	6958137.	-437.9927	11528.	0.00
5.2000	0.00704	3928.	340.3042	-0.00275	11855.	6958137.	-429.2444	12200.	0.00
5.4000	0.00650	3987.	255.7453	-0.00264	12034.	6958137.	-416.3443	12817.	0.00
5.6000	0.00598	4030.	173.8265	-0.00253	12163.	6958137.	-402.8444	13473.	0.00
5.8000	0.00549	4057.	94.4116	-0.00241	12244.	6958137.	-391.3043	14264.	0.00
6.0000	0.00502	4068.	17.6486	-0.00229	12277.	6958137.	-376.3254	15004.	0.00
6.2000	0.00457	4064.	-55.7865	-0.00218	12265.	6958137.	-358.0262	15671.	0.00
6.4000	0.00415	4046.	-125.2496	-0.00206	12210.	6958137.	-336.6043	16238.	0.00
6.6000	0.00375	4014.	-190.1444	-0.00194	12114.	6958137.	-312.3440	16678.	0.00
6.8000	0.00337	3970.	-249.9411	-0.00183	11981.	6958137.	-285.6231	16959.	0.00
7.0000	0.00301	3914.	-304.1952	-0.00172	11812.	6958137.	-256.9174	17048.	0.00
7.2000	0.00268	3848.	-354.5131	-0.00160	11613.	6958137.	-246.2620	18363.	0.00
7.4000	0.00237	3772.	-402.8181	-0.00149	11384.	6958137.	-236.7882	19962.	0.00
7.6000	0.00208	3687.	-449.1038	-0.00139	11127.	6958137.	-226.0684	21692.	0.00
7.8000	0.00182	3592.	-493.1288	-0.00128	10842.	6958137.	-214.1817	23570.	0.00
8.0000	0.00157	3490.	-534.6689	-0.00118	10532.	6958137.	-201.2194	25613.	0.00
8.2000	0.00135	3379.	-573.5193	-0.00108	10197.	6958137.	-187.2842	27848.	0.00
8.4000	0.00114	3260.	-609.4965	-9.87E-04	9839.	6958137.	-172.4883	30306.	0.00
8.6000	9.50E-04	3135.	-642.6297	-8.95E-04	9461.	6958137.	-158.8429	33429.	0.00
8.8000	7.80E-04	3003.	-673.2445	-8.07E-04	9064.	6958137.	-147.3058	37754.	0.00
9.0000	6.28E-04	2866.	-701.4518	-7.22E-04	8648.	6958137.	-134.7666	42944.	0.00

9.2000	4.91E-04	2723.	-726.7799	-6.42E-04	8217.	6958137.	-118.5147	48235.	0.00
9.4000	3.71E-04	2575.	-747.7690	-5.66E-04	7771.	6958137.	-91.3758	49284.	0.00
9.6000	2.65E-04	2423.	-763.5763	-4.94E-04	7314.	6958137.	-66.6975	50332.	0.00
9.8000	1.73E-04	2269.	-774.6949	-4.27E-04	6849.	6958137.	-44.4890	51381.	0.00
10.0000	9.44E-05	2114.	-781.6176	-3.64E-04	6379.	6958137.	-24.7372	52430.	0.00
10.2000	2.77E-05	1957.	-784.8321	-3.05E-04	5905.	6958137.	-7.4079	53478.	0.00
10.4000	-2.77E-05	1800.	-784.8175	-2.51E-04	5431.	6958137.	7.5537	54527.	0.00
10.6000	-7.28E-05	1643.	-782.0400	-2.02E-04	4958.	6958137.	20.2215	55575.	0.00
10.8000	-1.08E-04	1487.	-776.9490	-1.57E-04	4487.	6958137.	30.6882	56624.	0.00
11.0000	-1.35E-04	1332.	-769.9738	-1.16E-04	4020.	6958137.	39.0637	57673.	0.00
11.2000	-1.55E-04	1179.	-761.5200	-8.01E-05	3558.	6958137.	45.4749	58721.	0.00
11.4000	-1.68E-04	1027.	-751.9660	-4.84E-05	3101.	6958137.	50.0645	59770.	0.00
11.6000	-1.74E-04	878.0192	-741.6605	-2.11E-05	2650.	6958137.	52.9906	60818.	0.00
11.8000	-1.76E-04	730.7469	-708.6755	2.07E-06	2205.	6958137.	276.8596	314711.	0.00
12.0000	-1.73E-04	594.5490	-653.1284	2.11E-05	1794.	6958137.	278.6109	321293.	0.00
12.2000	-1.67E-04	469.4955	-597.3754	3.64E-05	1417.	6958137.	278.9192	333040.	0.00
12.4000	-1.59E-04	355.5988	-541.6894	4.83E-05	1073.	6958137.	277.9407	349902.	0.00
12.6000	-1.48E-04	252.8197	-486.3165	5.70E-05	763.0224	6958137.	275.7890	372203.	0.00
12.8000	-1.36E-04	161.0722	-431.4827	6.30E-05	486.1239	6958137.	272.5483	400618.	0.00
13.0000	-1.23E-04	80.2266	-377.3998	6.64E-05	242.1279	6958137.	268.2815	436196.	0.00
13.2000	-1.09E-04	10.1123	-324.2681	6.77E-05	30.5194	6958137.	263.0351	480457.	0.00
13.4000	-9.59E-05	-49.4806	-272.2804	6.72E-05	149.3350	6958137.	256.8422	535535.	0.00
13.6000	-8.26E-05	-98.7999	-221.6237	6.50E-05	298.1828	6958137.	249.7241	604436.	0.00
13.8000	-6.99E-05	-138.1301	-172.4823	6.16E-05	416.8835	6958137.	241.6902	691442.	0.00
14.0000	-5.80E-05	-167.7928	-125.0397	5.72E-05	506.4069	6958137.	232.7359	802791.	0.00
14.2000	-4.70E-05	-188.1460	-79.4823	5.21E-05	567.8339	6958137.	222.8380	947867.	0.00
14.4000	-3.71E-05	-199.5857	-36.0041	4.65E-05	602.3595	6958137.	211.9443	1141399.	0.00
14.6000	-2.84E-05	-202.5476	4.3629	4.08E-05	611.2987	6958137.	191.7255	1350000.	0.00
14.8000	-2.08E-05	-197.8405	37.5986	3.50E-05	597.0925	6958137.	140.6315	1350000.	0.00
15.0000	-1.44E-05	-187.5082	61.3832	2.95E-05	565.9089	6958137.	97.2144	1350000.	0.00
15.2000	-9.05E-06	-173.2872	77.2120	2.43E-05	522.9894	6958137.	61.0732	1350000.	0.00
15.4000	-4.69E-06	-156.6234	86.4849	1.95E-05	472.6971	6958137.	31.6562	1350000.	0.00
15.6000	-1.23E-06	-138.6933	90.4822	1.53E-05	418.5832	6958137.	8.3167	1350000.	0.00
15.8000	1.43E-06	-120.4305	90.3498	1.16E-05	363.4652	6958137.	-9.6410	1350000.	0.00
16.0000	3.40E-06	-102.5534	87.0931	8.37E-06	309.5111	6958137.	-22.9255	1350000.	0.00
16.2000	4.77E-06	-85.5933	81.5775	5.66E-06	258.3247	6958137.	-32.2307	1350000.	0.00
16.4000	5.66E-06	-69.9224	74.5330	3.43E-06	211.0292	6958137.	-38.2145	1350000.	0.00
16.6000	6.15E-06	-55.7801	66.5630	1.62E-06	168.3470	6958137.	-41.4850	1350000.	0.00
16.8000	6.31E-06	-43.2972	58.1554	1.97E-07	130.6729	6958137.	-42.5912	1350000.	0.00
17.0000	6.22E-06	-32.5179	49.6946	-8.92E-07	98.1406	6958137.	-42.0172	1350000.	0.00
17.2000	5.95E-06	-23.4193	41.4747	-1.70E-06	70.6807	6958137.	-40.1814	1350000.	0.00
17.4000	5.55E-06	-15.9280	33.7129	-2.26E-06	48.0715	6958137.	-37.4369	1350000.	0.00
17.6000	5.05E-06	-9.9342	26.5618	-2.63E-06	29.9818	6958137.	-34.0743	1350000.	0.00
17.8000	4.49E-06	-5.3033	20.1217	-2.85E-06	16.0056	6958137.	-30.3263	1350000.	0.00

18.0000	3.91E-06	-1.8855	14.4518	-2.96E-06	5.6905	6958137.	-26.3724	1350000.	0.00
18.2000	3.31E-06	0.4774	9.5800	-2.98E-06	1.4409	6958137.	-22.3454	1350000.	0.00
18.4000	2.72E-06	1.9465	5.5118	-2.94E-06	5.8747	6958137.	-18.3369	1350000.	0.00
18.6000	2.13E-06	2.6821	2.2377	-2.87E-06	8.0948	6958137.	-14.4040	1350000.	0.00
18.8000	1.57E-06	2.8416	-0.2602	-2.80E-06	8.5761	6958137.	-10.5751	1350000.	0.00
19.0000	1.02E-06	2.5781	-2.0034	-2.72E-06	7.7807	6958137.	-6.8565	1350000.	0.00
19.2000	4.80E-07	2.0403	-3.0128	-2.65E-06	6.1576	6958137.	-3.2379	1350000.	0.00
19.4000	-4.47E-08	1.3729	-3.3064	-2.60E-06	4.1436	6958137.	0.3015	1350000.	0.00
19.6000	-5.61E-07	0.7177	-2.8975	-2.57E-06	2.1660	6958137.	3.7876	1350000.	0.00
19.8000	-1.07E-06	0.2139	-1.7942	-2.56E-06	0.6456	6958137.	7.2459	1350000.	0.00
20.0000	-1.58E-06	0.00	0.00	-2.56E-06	0.00	6958137.	10.6959	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 7:

Pile-head deflection = 0.02692179 meters
Computed slope at pile head = -0.00439735 radians
Maximum bending moment = 4068. kN-m
Maximum shear force = 1000.00000000 kN
Depth of maximum bending moment = 6.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 17
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 8

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 1200.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.03561	-2.41E-09	1200.	-0.00565	7.29E-09	6958137.	-86.9388	244.1401	0.00

0.2000	0.03448	238.2612	1182.	-0.00564	719.0841	6958137.	-89.0681	516.6208	0.00
0.4000	0.03335	472.9597	1164.	-0.00563	1427.	6958137.	-91.1107	546.3376	0.00
0.6000	0.03223	704.0138	1146.	-0.00562	2125.	6958137.	-93.0645	577.5349	0.00
0.8000	0.03111	931.3453	1127.	-0.00559	2811.	6958137.	-94.9277	610.3265	0.00
1.0000	0.02999	1155.	1108.	-0.00556	3485.	6958137.	-96.6982	644.8367	0.00
1.2000	0.02888	1375.	1088.	-0.00553	4148.	6958137.	-98.3740	681.2016	0.00
1.4000	0.02778	1590.	1069.	-0.00548	4800.	6958137.	-99.9533	719.5704	0.00
1.6000	0.02669	1802.	1049.	-0.00543	5439.	6958137.	-101.4341	760.1071	0.00
1.8000	0.02561	2010.	1028.	-0.00538	6065.	6958137.	-102.8143	802.9921	0.00
2.0000	0.02454	2213.	1007.	-0.00532	6680.	6958137.	-104.0921	848.4245	0.00
2.2000	0.02348	2413.	986.4722	-0.00525	7281.	6958137.	-105.2654	896.6242	0.00
2.4000	0.02244	2608.	965.3124	-0.00518	7871.	6958137.	-106.3325	947.8346	0.00
2.6000	0.02141	2799.	943.9500	-0.00510	8447.	6958137.	-107.2912	1002.	0.00
2.8000	0.02040	2985.	922.4069	-0.00502	9010.	6958137.	-108.1397	1060.	0.00
3.0000	0.01940	3168.	900.7054	-0.00493	9560.	6958137.	-108.8760	1122.	0.00
3.2000	0.01842	3346.	878.8679	-0.00484	10097.	6958137.	-109.4984	1189.	0.00
3.4000	0.01747	3519.	856.9176	-0.00474	10621.	6958137.	-110.0048	1260.	0.00
3.6000	0.01653	3688.	834.8778	-0.00463	11132.	6958137.	-110.3936	1336.	0.00
3.8000	0.01561	3853.	812.7721	-0.00453	11629.	6958137.	-110.6629	1418.	0.00
4.0000	0.01472	4014.	790.6248	-0.00441	12113.	6958137.	-110.8110	1506.	0.00
4.2000	0.01385	4169.	768.4600	-0.00430	12584.	6958137.	-110.8364	1601.	0.00
4.4000	0.01300	4321.	746.3026	-0.00417	13041.	6958137.	-110.7375	1704.	0.00
4.6000	0.01218	4468.	724.1776	-0.00405	13485.	6958137.	-110.5131	1815.	0.00
4.8000	0.01138	4611.	663.5142	-0.00392	13915.	6958137.	-496.1203	8719.	0.00
5.0000	0.01061	4733.	564.5518	-0.00378	14286.	6958137.	-493.5042	9302.	0.00
5.2000	0.00987	4836.	466.5499	-0.00365	14597.	6958137.	-486.5145	9861.	0.00
5.4000	0.00915	4920.	370.3960	-0.00350	14849.	6958137.	-475.0245	10380.	0.00
5.6000	0.00847	4985.	276.5881	-0.00336	15044.	6958137.	-463.0542	10940.	0.00
5.8000	0.00781	5031.	184.9328	-0.00322	15183.	6958137.	-453.4994	11617.	0.00
6.0000	0.00718	5059.	95.5739	-0.00307	15267.	6958137.	-440.0894	12262.	0.00
6.2000	0.00658	5069.	9.2781	-0.00293	15298.	6958137.	-422.8681	12857.	0.00
6.4000	0.00601	5062.	-73.2043	-0.00278	15278.	6958137.	-401.9568	13383.	0.00
6.6000	0.00547	5040.	-151.1565	-0.00264	15210.	6958137.	-377.5648	13817.	0.00
6.8000	0.00495	5002.	-223.9129	-0.00249	15096.	6958137.	-349.9993	14135.	0.00
7.0000	0.00447	4950.	-290.8803	-0.00235	14939.	6958137.	-319.6746	14310.	0.00
7.2000	0.00401	4885.	-353.7541	-0.00221	14745.	6958137.	-309.0636	15406.	0.00
7.4000	0.00358	4809.	-414.6246	-0.00207	14512.	6958137.	-299.6413	16719.	0.00
7.6000	0.00318	4720.	-473.4574	-0.00193	14244.	6958137.	-288.6861	18131.	0.00
7.8000	0.00281	4619.	-529.9531	-0.00180	13941.	6958137.	-276.2711	19652.	0.00
8.0000	0.00247	4508.	-583.8287	-0.00167	13604.	6958137.	-262.4847	21295.	0.00
8.2000	0.00214	4386.	-634.8201	-0.00154	13236.	6958137.	-247.4302	23072.	0.00
8.4000	0.00185	4254.	-682.6856	-0.00141	12838.	6958137.	-231.2245	25002.	0.00
8.6000	0.00158	4113.	-727.4358	-0.00129	12412.	6958137.	-216.2775	27396.	0.00
8.8000	0.00133	3963.	-769.4505	-0.00118	11960.	6958137.	-203.8692	30617.	0.00

9.0000	0.00111	3805.	-808.8705	-0.00107	11483.	6958137.	-190.3307	34374.	0.00
9.2000	9.05E-04	3639.	-845.4690	-9.60E-04	10983.	6958137.	-175.6549	38821.	0.00
9.4000	7.23E-04	3467.	-879.0160	-8.58E-04	10462.	6958137.	-159.8144	44184.	0.00
9.6000	5.62E-04	3288.	-909.1354	-7.61E-04	9922.	6958137.	-141.3800	50332.	0.00
9.8000	4.19E-04	3103.	-934.0394	-6.69E-04	9365.	6958137.	-107.6601	51381.	0.00
10.0000	2.94E-04	2914.	-952.5174	-5.83E-04	8795.	6958137.	-77.1199	52430.	0.00
10.2000	1.86E-04	2722.	-965.2043	-5.02E-04	8215.	6958137.	-49.7493	53478.	0.00
10.4000	9.36E-05	2528.	-972.7304	-4.26E-04	7629.	6958137.	-25.5109	54527.	0.00
10.6000	1.56E-05	2333.	-975.7155	-3.56E-04	7041.	6958137.	-4.3409	55575.	0.00
10.8000	-4.89E-05	2138.	-974.7647	-2.92E-04	6451.	6958137.	13.8496	56624.	0.00
11.0000	-1.01E-04	1943.	-970.4624	-2.33E-04	5864.	6958137.	29.1734	57673.	0.00
11.2000	-1.42E-04	1749.	-963.3685	-1.80E-04	5280.	6958137.	41.7657	58721.	0.00
11.4000	-1.73E-04	1558.	-954.0136	-1.33E-04	4701.	6958137.	51.7833	59770.	0.00
11.6000	-1.95E-04	1368.	-942.8949	-9.07E-05	4128.	6958137.	59.4034	60818.	0.00
11.8000	-2.10E-04	1180.	-908.0311	-5.41E-05	3563.	6958137.	289.2342	276047.	0.00
12.0000	-2.17E-04	1005.	-849.6412	-2.27E-05	3032.	6958137.	294.6651	271610.	0.00
12.2000	-2.19E-04	840.5716	-790.3616	3.85E-06	2537.	6958137.	298.1314	272735.	0.00
12.4000	-2.15E-04	688.4619	-730.5547	2.58E-05	2078.	6958137.	299.9376	278444.	0.00
12.6000	-2.08E-04	548.3498	-670.5315	4.36E-05	1655.	6958137.	300.2939	288335.	0.00
12.8000	-1.98E-04	420.2493	-610.5671	5.75E-05	1268.	6958137.	299.3503	302375.	0.00
13.0000	-1.85E-04	304.1229	-550.9104	6.79E-05	917.8580	6958137.	297.2169	320816.	0.00
13.2000	-1.71E-04	199.8852	-491.7911	7.52E-05	603.2633	6958137.	293.9758	344176.	0.00
13.4000	-1.55E-04	107.4065	-433.4247	7.96E-05	324.1581	6958137.	289.6882	373261.	0.00
13.6000	-1.39E-04	26.5153	-376.0160	8.15E-05	80.0245	6958137.	284.3993	409225.	0.00
13.8000	-1.23E-04	-42.9999	-319.7619	8.13E-05	129.7758	6958137.	278.1414	453680.	0.00
14.0000	-1.06E-04	-101.3894	-264.8543	7.92E-05	305.9984	6958137.	270.9349	508873.	0.00
14.2000	-9.09E-05	-148.9416	-211.4819	7.56E-05	449.5131	6958137.	262.7890	577966.	0.00
14.4000	-7.62E-05	-185.9822	-159.8330	7.08E-05	561.3034	6958137.	253.6998	665498.	0.00
14.6000	-6.26E-05	-212.8748	-110.1208	6.51E-05	642.4666	6958137.	243.4218	777450.	0.00
14.8000	-5.02E-05	-230.0305	-62.7427	5.87E-05	694.2435	6958137.	230.3595	917379.	0.00
15.0000	-3.91E-05	-237.9719	-18.0618	5.20E-05	718.2109	6958137.	216.4494	1105906.	0.00
15.2000	-2.94E-05	-237.2552	23.4520	4.51E-05	716.0480	6958137.	198.6883	1350000.	0.00
15.4000	-2.11E-05	-228.5911	57.5567	3.84E-05	689.8992	6958137.	142.3593	1350000.	0.00
15.6000	-1.41E-05	-214.2326	81.2827	3.21E-05	646.5644	6958137.	94.9004	1350000.	0.00
15.8000	-8.26E-06	-196.0780	96.3482	2.62E-05	591.7731	6958137.	55.7545	1350000.	0.00
16.0000	-3.59E-06	-175.6933	104.3453	2.08E-05	530.2510	6958137.	24.2170	1350000.	0.00
16.2000	7.45E-08	-154.3399	106.7168	1.61E-05	465.8053	6958137.	-0.5029	1350000.	0.00
16.4000	2.85E-06	-133.0066	104.7431	1.20E-05	401.4204	6958137.	-19.2339	1350000.	0.00
16.6000	4.86E-06	-112.4426	99.5393	8.44E-06	339.3574	6958137.	-32.8037	1350000.	0.00
16.8000	6.22E-06	-93.1908	92.0579	5.48E-06	281.2546	6958137.	-42.0105	1350000.	0.00
17.0000	7.05E-06	-75.6195	83.0968	3.05E-06	228.2233	6958137.	-47.6010	1350000.	0.00
17.2000	7.45E-06	-59.9521	73.3109	1.11E-06	180.9385	6958137.	-50.2573	1350000.	0.00
17.4000	7.49E-06	-46.2951	63.2265	-4.21E-07	139.7209	6958137.	-50.5872	1350000.	0.00
17.6000	7.28E-06	-34.6616	53.2557	-1.58E-06	104.6103	6958137.	-49.1207	1350000.	0.00

17.8000	6.86E-06	-24.9928	43.7127	-2.44E-06	75.4296	6958137.	-46.3093	1350000.	0.00
18.0000	6.30E-06	-17.1765	34.8290	-3.05E-06	51.8395	6958137.	-42.5280	1350000.	0.00
18.2000	5.64E-06	-11.0613	26.7681	-3.45E-06	33.3834	6958137.	-38.0802	1350000.	0.00
18.4000	4.92E-06	-6.4692	19.6398	-3.71E-06	19.5244	6958137.	-33.2032	1350000.	0.00
18.6000	4.16E-06	-3.2053	13.5120	-3.84E-06	9.6738	6958137.	-28.0751	1350000.	0.00
18.8000	3.38E-06	-1.0644	8.4222	-3.91E-06	3.2125	6958137.	-22.8227	1350000.	0.00
19.0000	2.60E-06	0.1636	4.3870	-3.92E-06	0.4936	6958137.	-17.5290	1350000.	0.00
19.2000	1.81E-06	0.6904	1.4100	-3.91E-06	2.0836	6958137.	-12.2416	1350000.	0.00
19.4000	1.03E-06	0.7275	-0.5123	-3.89E-06	2.1957	6958137.	-6.9810	1350000.	0.00
19.6000	2.59E-07	0.4855	-1.3853	-3.87E-06	1.4651	6958137.	-1.7487	1350000.	0.00
19.8000	-5.13E-07	0.1734	-1.2136	-3.86E-06	0.5234	6958137.	3.4648	1350000.	0.00
20.0000	-1.28E-06	0.00	0.00	-3.86E-06	0.00	6958137.	8.6716	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 8:

Pile-head deflection = 0.03561018 meters
Computed slope at pile head = -0.00564574 radians
Maximum bending moment = 5069. kN-m
Maximum shear force = 1200. kN
Depth of maximum bending moment = 6.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 18
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 9

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 1500.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
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0.00	0.04993	0.00	1500.	-0.00765	0.00	6958137.	-97.3063	194.8878	0.00
0.2000	0.04840	298.0539	1480.	-0.00764	899.5413	6958137.	-99.7268	412.0913	0.00
0.4000	0.04687	592.1187	1460.	-0.00763	1787.	6958137.	-102.0542	435.4501	0.00
0.6000	0.04535	882.1013	1439.	-0.00761	2662.	6958137.	-104.2866	459.9285	0.00
0.8000	0.04383	1168.	1418.	-0.00758	3525.	6958137.	-106.4218	485.6098	0.00
1.0000	0.04232	1449.	1397.	-0.00754	4375.	6958137.	-108.4578	512.5845	0.00
1.2000	0.04081	1727.	1375.	-0.00749	5211.	6958137.	-110.3925	540.9515	0.00
1.4000	0.03932	1999.	1353.	-0.00744	6035.	6958137.	-112.2238	570.8189	0.00
1.6000	0.03784	2268.	1330.	-0.00738	6844.	6958137.	-113.9497	602.3050	0.00
1.8000	0.03637	2532.	1307.	-0.00731	7640.	6958137.	-115.5681	635.5395	0.00
2.0000	0.03491	2791.	1284.	-0.00723	8422.	6958137.	-117.0770	670.6652	0.00
2.2000	0.03347	3045.	1260.	-0.00715	9190.	6958137.	-118.4743	707.8389	0.00
2.4000	0.03205	3295.	1237.	-0.00706	9944.	6958137.	-119.7579	747.2338	0.00
2.6000	0.03065	3540.	1212.	-0.00696	10683.	6958137.	-120.9258	789.0410	0.00
2.8000	0.02927	3780.	1188.	-0.00686	11408.	6958137.	-121.9759	833.4720	0.00
3.0000	0.02791	4015.	1164.	-0.00674	12118.	6958137.	-122.9063	880.7616	0.00
3.2000	0.02657	4245.	1139.	-0.00662	12813.	6958137.	-123.7150	931.1704	0.00
3.4000	0.02526	4471.	1114.	-0.00650	13493.	6958137.	-124.3999	984.9882	0.00
3.6000	0.02397	4691.	1089.	-0.00637	14158.	6958137.	-124.9593	1043.	0.00
3.8000	0.02271	4906.	1064.	-0.00623	14808.	6958137.	-125.3911	1104.	0.00
4.0000	0.02148	5117.	1039.	-0.00609	15443.	6958137.	-125.6936	1170.	0.00
4.2000	0.02028	5322.	1014.	-0.00594	16062.	6958137.	-125.8650	1241.	0.00
4.4000	0.01911	5522.	988.8346	-0.00578	16667.	6958137.	-125.9039	1318.	0.00
4.6000	0.01797	5718.	963.6633	-0.00562	17256.	6958137.	-125.8088	1401.	0.00
4.8000	0.01686	5908.	894.2520	-0.00545	17830.	6958137.	-568.3043	6742.	0.00
5.0000	0.01579	6075.	780.5424	-0.00528	18336.	6958137.	-568.7916	7207.	0.00
5.2000	0.01475	6220.	667.2056	-0.00510	18772.	6958137.	-564.5768	7657.	0.00
5.4000	0.01374	6342.	555.2017	-0.00492	19141.	6958137.	-555.4621	8083.	0.00
5.6000	0.01278	6442.	445.0435	-0.00474	19443.	6958137.	-546.1196	8548.	0.00
5.8000	0.01185	6520.	336.4400	-0.00455	19678.	6958137.	-539.9155	9113.	0.00
6.0000	0.01096	6577.	229.5106	-0.00436	19849.	6958137.	-529.3788	9663.	0.00
6.2000	0.01010	6612.	125.1277	-0.00417	19955.	6958137.	-514.4500	10184.	0.00
6.4000	0.00929	6627.	24.1686	-0.00398	20000.	6958137.	-495.1405	10663.	0.00
6.6000	0.00851	6622.	-72.5000	-0.00379	19984.	6958137.	-471.5460	11083.	0.00
6.8000	0.00777	6598.	-164.0406	-0.00360	19912.	6958137.	-443.8600	11425.	0.00
7.0000	0.00707	6556.	-249.6653	-0.00341	19786.	6958137.	-412.3872	11669.	0.00
7.2000	0.00640	6498.	-331.1385	-0.00323	19611.	6958137.	-402.3446	12565.	0.00
7.4000	0.00578	6424.	-410.7147	-0.00304	19387.	6958137.	-393.4177	13619.	0.00
7.6000	0.00519	6334.	-488.3114	-0.00286	19115.	6958137.	-382.5486	14748.	0.00
7.8000	0.00463	6228.	-563.5458	-0.00268	18797.	6958137.	-369.7956	15959.	0.00
8.0000	0.00412	6108.	-636.0489	-0.00250	18435.	6958137.	-355.2358	17258.	0.00
8.2000	0.00363	5974.	-705.4690	-0.00233	18029.	6958137.	-338.9648	18653.	0.00
8.4000	0.00319	5826.	-771.4751	-0.00216	17583.	6958137.	-321.0967	20155.	0.00
8.6000	0.00277	5665.	-834.0361	-0.00199	17098.	6958137.	-304.5126	21973.	0.00

8.8000	0.00239	5492.	-893.5764	-0.00183	16576.	6958137.	-290.8903	24346.	0.00
9.0000	0.00204	5308.	-950.2532	-0.00168	16019.	6958137.	-275.8782	27058.	0.00
9.2000	0.00172	5112.	-1004.	-0.00153	15429.	6958137.	-259.4868	30186.	0.00
9.4000	0.00143	4906.	-1054.	-0.00138	14807.	6958137.	-241.7180	33838.	0.00
9.6000	0.00117	4691.	-1100.	-0.00124	14157.	6958137.	-222.5578	38164.	0.00
9.8000	9.31E-04	4466.	-1143.	-0.00111	13479.	6958137.	-201.9629	43390.	0.00
10.0000	7.21E-04	4234.	-1181.	-9.88E-04	12777.	6958137.	-179.8388	49873.	0.00
10.2000	5.36E-04	3994.	-1213.	-8.70E-04	12053.	6958137.	-143.2683	53478.	0.00
10.4000	3.73E-04	3748.	-1238.	-7.58E-04	11312.	6958137.	-101.7942	54527.	0.00
10.6000	2.32E-04	3499.	-1254.	-6.54E-04	10559.	6958137.	-64.6044	55575.	0.00
10.8000	1.12E-04	3246.	-1264.	-5.57E-04	9798.	6958137.	-31.6316	56624.	0.00
11.0000	9.62E-06	2993.	-1267.	-4.68E-04	9033.	6958137.	-2.7742	57673.	0.00
11.2000	-7.53E-05	2739.	-1266.	-3.85E-04	8268.	6958137.	22.1021	58721.	0.00
11.4000	-1.44E-04	2487.	-1259.	-3.10E-04	7505.	6958137.	43.1622	59770.	0.00
11.6000	-1.99E-04	2236.	-1249.	-2.42E-04	6748.	6958137.	60.6001	60818.	0.00
11.8000	-2.41E-04	1987.	-1213.	-1.81E-04	5998.	6958137.	299.6427	248375.	0.00
12.0000	-2.72E-04	1751.	-1151.	-1.28E-04	5284.	6958137.	311.7835	229371.	0.00
12.2000	-2.92E-04	1527.	-1088.	-8.06E-05	4608.	6958137.	320.6312	219332.	0.00
12.4000	-3.04E-04	1316.	-1023.	-3.98E-05	3970.	6958137.	326.9592	215031.	0.00
12.6000	-3.08E-04	1117.	-957.6678	-4.80E-06	3372.	6958137.	331.2445	214901.	0.00
12.8000	-3.06E-04	932.4614	-891.1631	2.47E-05	2814.	6958137.	333.8025	218154.	0.00
13.0000	-2.98E-04	760.9049	-824.2976	4.90E-05	2296.	6958137.	334.8523	224422.	0.00
13.2000	-2.86E-04	602.7424	-757.3572	6.86E-05	1819.	6958137.	334.5515	233604.	0.00
13.4000	-2.71E-04	457.9620	-690.6004	8.38E-05	1382.	6958137.	333.0165	245791.	0.00
13.6000	-2.53E-04	326.5022	-624.2653	9.51E-05	985.3998	6958137.	330.3348	261246.	0.00
13.8000	-2.33E-04	208.2559	-558.5746	1.03E-04	628.5265	6958137.	326.5722	280403.	0.00
14.0000	-2.12E-04	103.0724	-493.7395	1.07E-04	311.0776	6958137.	321.7784	303890.	0.00
14.2000	-1.90E-04	10.7601	-429.9627	1.09E-04	32.4744	6958137.	315.9899	332582.	0.00
14.4000	-1.68E-04	-68.9127	-367.4405	1.08E-04	207.9818	6958137.	309.2318	367673.	0.00
14.6000	-1.47E-04	-136.2161	-306.3933	1.05E-04	411.1070	6958137.	301.2404	410426.	0.00
14.8000	-1.26E-04	-191.4700	-247.2640	1.00E-04	577.8658	6958137.	290.0519	459813.	0.00
15.0000	-1.07E-04	-235.1217	-190.4475	9.43E-05	709.6090	6958137.	278.1139	521650.	0.00
15.2000	-8.84E-05	-267.6490	-136.0938	8.71E-05	807.7778	6958137.	265.4226	600180.	0.00
15.4000	-7.18E-05	-289.5593	-84.3562	7.90E-05	873.9042	6958137.	251.9532	701765.	0.00
15.6000	-5.68E-05	-301.3915	-35.3959	7.06E-05	909.6143	6958137.	237.6503	836385.	0.00
15.8000	-4.36E-05	-303.7176	10.6099	6.19E-05	916.6348	6958137.	222.4075	1020617.	0.00
16.0000	-3.21E-05	-297.1475	53.4533	5.32E-05	896.8058	6958137.	206.0263	1284296.	0.00
16.2000	-2.23E-05	-282.3363	89.1038	4.49E-05	852.1049	6958137.	150.4786	1350000.	0.00
16.4000	-1.41E-05	-261.5060	113.6863	3.71E-05	789.2379	6958137.	95.3463	1350000.	0.00
16.6000	-7.46E-06	-236.8618	128.2570	2.99E-05	714.8606	6958137.	50.3613	1350000.	0.00
16.8000	-2.16E-06	-210.2032	134.7499	2.35E-05	634.4035	6958137.	14.5674	1350000.	0.00
17.0000	1.94E-06	-182.9618	134.8996	1.78E-05	552.1878	6958137.	-13.0700	1350000.	0.00
17.2000	4.98E-06	-156.2433	130.2319	1.30E-05	471.5500	6958137.	-33.6077	1350000.	0.00
17.4000	7.12E-06	-130.8691	122.0628	8.84E-06	394.9693	6958137.	-48.0827	1350000.	0.00

17.6000	8.52E-06	-107.4182	111.5066	5.42E-06	324.1933	6958137.	-57.4795	1350000.	0.00
17.8000	9.29E-06	-86.2664	99.4879	2.63E-06	260.3563	6958137.	-62.7081	1350000.	0.00
18.0000	9.57E-06	-67.6230	86.7581	4.22E-07	204.0896	6958137.	-64.5893	1350000.	0.00
18.2000	9.46E-06	-51.5632	73.9145	-1.29E-06	155.6202	6958137.	-63.8464	1350000.	0.00
18.4000	9.05E-06	-38.0572	61.4196	-2.58E-06	114.8585	6958137.	-61.1027	1350000.	0.00
18.6000	8.43E-06	-26.9953	49.6211	-3.51E-06	81.4733	6958137.	-56.8823	1350000.	0.00
18.8000	7.65E-06	-18.2088	38.7715	-4.16E-06	54.9549	6958137.	-51.6144	1350000.	0.00
19.0000	6.76E-06	-11.4868	29.0460	-4.59E-06	34.6676	6958137.	-45.6399	1350000.	0.00
19.2000	5.81E-06	-6.5903	20.5601	-4.85E-06	19.8900	6958137.	-39.2196	1350000.	0.00
19.4000	4.82E-06	-3.2627	13.3838	-4.99E-06	9.8471	6958137.	-32.5437	1350000.	0.00
19.6000	3.81E-06	-1.2368	7.5553	-5.06E-06	3.7329	6958137.	-25.7411	1350000.	0.00
19.8000	2.80E-06	-0.2406	3.0921	-5.08E-06	0.7262	6958137.	-18.8905	1350000.	0.00
20.0000	1.78E-06	0.00	0.00	-5.08E-06	0.00	6958137.	-12.0306	675000.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 9:

Pile-head deflection = 0.04992938 meters
Computed slope at pile head = -0.00764530 radians
Maximum bending moment = 6627. kN-m
Maximum shear force = 1500. kN
Depth of maximum bending moment = 6.40000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 18
Number of zero deflection points = 2

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 10

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 8400.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth	Deflect.	Bending	Shear	Slope	Total	Bending	Soil Res.	Soil Spr.	Distrib.
X	y	Moment	Force	S	Stress	Stiffness	p	Es*h	Lat. Load
meters	meters	kN-m	kN	radians	kPa*	kN-m^2	kN/m	kN/m	kN/m

0.00	1.0686	-1.55E-07	8400.	-0.1087	4.66E-07	6958137.	-202.5000	18.9496	0.00
0.2000	1.0469	1676.	8359.	-0.1086	5058.	6958137.	-209.7000	40.0615	0.00
0.4000	1.0252	3344.	8316.	-0.1086	10091.	6958137.	-216.9000	42.3151	0.00
0.6000	1.0035	5002.	8272.	-0.1085	15097.	6958137.	-224.1001	44.6654	0.00
0.8000	0.9818	6652.	8226.	-0.1083	20077.	6958137.	-231.3001	47.1182	0.00
1.0000	0.9601	8293.	8179.	-0.1081	25029.	6958137.	-238.5001	49.6798	0.00
1.2000	0.9386	9924.	8131.	-0.1078	29951.	6958137.	-245.7001	52.3569	0.00
1.4000	0.9170	11545.	8081.	-0.1075	34845.	6958137.	-252.9001	55.1566	0.00
1.6000	0.8956	13157.	8030.	-0.1071	39707.	6958137.	-260.1001	58.0867	0.00
1.8000	0.8742	14757.	7977.	-0.1067	44539.	6958137.	-267.3001	61.1553	0.00
2.0000	0.8529	16347.	7923.	-0.1063	49338.	6958137.	-274.5001	64.3715	0.00
2.2000	0.8316	17927.	7867.	-0.1058	54103.	6958137.	-281.7001	67.7449	0.00
2.4000	0.8105	19494.	7810.	-0.1053	58835.	6958137.	-288.9001	71.2858	0.00
2.6000	0.7895	21051.	7752.	-0.1047	63532.	6958137.	-296.1001	75.0054	0.00
2.8000	0.7687	22595.	7692.	-0.1041	68193.	6958137.	-303.3001	78.9158	0.00
3.0000	0.7479	24127.	7630.	-0.1034	72818.	6958137.	-310.5001	83.0301	0.00
3.2000	0.7273	25647.	7568.	-0.1027	77405.	6958137.	-317.7001	87.3626	0.00
3.4000	0.7069	27155.	7503.	-0.1019	81954.	6958137.	-324.9001	91.9285	0.00
3.6000	0.6866	28649.	7438.	-0.1011	86463.	6958137.	-332.1001	96.7446	0.00
3.8000	0.6664	30130.	7371.	-0.1003	90933.	6958137.	-339.3001	101.8291	0.00
4.0000	0.6464	31597.	7302.	-0.09938	95361.	6958137.	-346.5001	107.2017	0.00
4.2000	0.6267	33050.	7232.	-0.09845	99748.	6958137.	-353.7001	112.8840	0.00
4.4000	0.6071	34490.	7161.	-0.09748	104092.	6958137.	-360.9001	118.8997	0.00
4.6000	0.5877	35915.	7088.	-0.09646	108392.	6958137.	-368.1001	125.2743	0.00
4.8000	0.5685	37325.	6958.	-0.09541	112648.	6958137.	-932.6566	328.1224	0.00
5.0000	0.5495	38698.	6767.	-0.09432	116791.	6958137.	-969.9333	353.0201	0.00
5.2000	0.5308	40032.	6570.	-0.09319	120818.	6958137.	-1004.	378.4546	0.00
5.4000	0.5122	41326.	6366.	-0.09202	124723.	6958137.	-1036.	404.3216	0.00
5.6000	0.4939	42578.	6155.	-0.09081	128503.	6958137.	-1073.	434.3321	0.00
5.8000	0.4759	43788.	5935.	-0.08957	132153.	6958137.	-1123.	472.0903	0.00
6.0000	0.4581	44952.	5706.	-0.08830	135668.	6958137.	-1173.	512.2618	0.00
6.2000	0.4406	46070.	5466.	-0.08699	139041.	6958137.	-1223.	554.9935	0.00
6.4000	0.4233	47139.	5217.	-0.08565	142267.	6958137.	-1271.	600.4457	0.00
6.6000	0.4063	48157.	4958.	-0.08428	145339.	6958137.	-1318.	648.7929	0.00
6.8000	0.3896	49122.	4690.	-0.08288	148252.	6958137.	-1364.	700.2256	0.00
7.0000	0.3732	50033.	4412.	-0.08146	151001.	6958137.	-1409.	754.9529	0.00
7.2000	0.3570	50887.	4124.	-0.08001	153579.	6958137.	-1479.	828.4825	0.00
7.4000	0.3412	51682.	3820.	-0.07853	155979.	6958137.	-1554.	911.0868	0.00
7.6000	0.3256	52415.	3502.	-0.07703	158191.	6958137.	-1631.	1002.	0.00
7.8000	0.3104	53083.	3168.	-0.07552	160206.	6958137.	-1709.	1102.	0.00
8.0000	0.2954	53682.	2818.	-0.07398	162015.	6958137.	-1789.	1212.	0.00
8.2000	0.2808	54210.	2452.	-0.07243	163608.	6958137.	-1871.	1333.	0.00
8.4000	0.2664	54663.	2069.	-0.07087	164975.	6958137.	-1954.	1467.	0.00

8.6000	0.2524	55038.	1670.	-0.06929	166106.	6958137.	-2041.	1617.	0.00
8.8000	0.2387	55331.	1252.	-0.06771	166991.	6958137.	-2134.	1788.	0.00
9.0000	0.2253	55539.	816.0375	-0.06611	167618.	6958137.	-2229.	1978.	0.00
9.2000	0.2123	55657.	360.6440	-0.06451	167976.	6958137.	-2325.	2191.	0.00
9.4000	0.1995	55683.	-114.3139	-0.06291	168053.	6958137.	-2424.	2430.	0.00
9.6000	0.1871	55611.	-609.2473	-0.06132	167838.	6958137.	-2525.	2699.	0.00
9.8000	0.1750	55439.	-1125.	-0.05972	167318.	6958137.	-2628.	3003.	0.00
10.0000	0.1632	55162.	-1661.	-0.05813	166480.	6958137.	-2733.	3349.	0.00
10.2000	0.1518	54775.	-2218.	-0.05655	165313.	6958137.	-2840.	3743.	0.00
10.4000	0.1406	54274.	-2797.	-0.05498	163803.	6958137.	-2949.	4195.	0.00
10.6000	0.1298	53656.	-3398.	-0.05343	161937.	6958137.	-3060.	4717.	0.00
10.8000	0.1192	52915.	-4021.	-0.05190	159701.	6958137.	-3174.	5324.	0.00
11.0000	0.1090	52047.	-4668.	-0.05039	157082.	6958137.	-3289.	6035.	0.00
11.2000	0.09907	51048.	-5337.	-0.04891	154066.	6958137.	-3406.	6877.	0.00
11.4000	0.08944	49913.	-6030.	-0.04746	150639.	6958137.	-3526.	7884.	0.00
11.6000	0.08009	48636.	-6748.	-0.04604	146786.	6958137.	-3647.	9108.	0.00
11.8000	0.07102	47214.	-7236.	-0.04466	142493.	6958137.	-1241.	3495.	0.00
12.0000	0.06222	45741.	-7482.	-0.04333	138050.	6958137.	-1213.	3898.	0.00
12.2000	0.05369	44221.	-7721.	-0.04204	133461.	6958137.	-1180.	4396.	0.00
12.4000	0.04541	42653.	-7953.	-0.04079	128729.	6958137.	-1143.	5034.	0.00
12.6000	0.03737	41039.	-8178.	-0.03958	123859.	6958137.	-1099.	5881.	0.00
12.8000	0.02957	39382.	-8392.	-0.03843	118857.	6958137.	-1046.	7077.	0.00
13.0000	0.02200	37683.	-8595.	-0.03732	113728.	6958137.	-981.0743	8919.	0.00
13.2000	0.01464	35944.	-8782.	-0.03626	108481.	6958137.	-894.4803	12216.	0.00
13.4000	0.00750	34170.	-8948.	-0.03526	103126.	6958137.	-763.6034	20376.	0.00
13.6000	5.42E-04	32365.	-9065.	-0.03430	97678.	6958137.	-399.6660	147439.	0.00
13.8000	-0.00622	30544.	-9030.	-0.03340	92183.	6958137.	742.3929	23853.	0.00
14.0000	-0.01282	28753.	-8866.	-0.03254	86777.	6958137.	897.3350	14003.	0.00
14.2000	-0.01924	26997.	-8676.	-0.03174	81479.	6958137.	1002.	10417.	0.00
14.4000	-0.02551	25282.	-8468.	-0.03099	76302.	6958137.	1085.	8505.	0.00
14.6000	-0.03164	23610.	-8244.	-0.03029	71257.	6958137.	1154.	7295.	0.00
14.8000	-0.03763	21985.	-8008.	-0.02963	66350.	6958137.	1205.	6405.	0.00
15.0000	-0.04349	20407.	-7762.	-0.02902	61590.	6958137.	1250.	5746.	0.00
15.2000	-0.04924	18880.	-7509.	-0.02846	56980.	6958137.	1289.	5235.	0.00
15.4000	-0.05487	17404.	-7247.	-0.02794	52525.	6958137.	1324.	4827.	0.00
15.6000	-0.06041	15981.	-6979.	-0.02746	48231.	6958137.	1357.	4491.	0.00
15.8000	-0.06586	14612.	-6705.	-0.02702	44100.	6958137.	1386.	4209.	0.00
16.0000	-0.07122	13299.	-6425.	-0.02662	40136.	6958137.	1413.	3969.	0.00
16.2000	-0.07650	12042.	-6140.	-0.02625	36344.	6958137.	1439.	3762.	0.00
16.4000	-0.08172	10843.	-5849.	-0.02592	32724.	6958137.	1463.	3580.	0.00
16.6000	-0.08687	9702.	-5555.	-0.02563	29282.	6958137.	1485.	3420.	0.00
16.8000	-0.09197	8621.	-5255.	-0.02537	26019.	6958137.	1507.	3277.	0.00
17.0000	-0.09702	7600.	-4952.	-0.02513	22938.	6958137.	1527.	3148.	0.00
17.2000	-0.1020	6640.	-4645.	-0.02493	20041.	6958137.	1546.	3031.	0.00

17.4000	-0.1070	5742.	-4334.	-0.02475	17330.	6958137.	1565.	2925.	0.00
17.6000	-0.1119	4907.	-4019.	-0.02460	14809.	6958137.	1583.	2828.	0.00
17.8000	-0.1168	4135.	-3701.	-0.02447	12479.	6958137.	1600.	2738.	0.00
18.0000	-0.1217	3427.	-3379.	-0.02436	10342.	6958137.	1616.	2656.	0.00
18.2000	-0.1266	2783.	-3054.	-0.02427	8400.	6958137.	1632.	2579.	0.00
18.4000	-0.1314	2205.	-2726.	-0.02420	6655.	6958137.	1647.	2507.	0.00
18.6000	-0.1363	1693.	-2395.	-0.02414	5109.	6958137.	1662.	2440.	0.00
18.8000	-0.1411	1247.	-2061.	-0.02410	3763.	6958137.	1677.	2377.	0.00
19.0000	-0.1459	868.1619	-1724.	-0.02407	2620.	6958137.	1691.	2318.	0.00
19.2000	-0.1507	557.0826	-1385.	-0.02405	1681.	6958137.	1705.	2262.	0.00
19.4000	-0.1555	314.1954	-1043.	-0.02404	948.2572	6958137.	1718.	2210.	0.00
19.6000	-0.1603	140.0379	-697.6510	-0.02403	422.6412	6958137.	1731.	2160.	0.00
19.8000	-0.1651	35.1350	-350.0947	-0.02403	106.0392	6958137.	1744.	2113.	0.00
20.0000	-0.1699	0.00	0.00	-0.02403	0.00	6958137.	1757.	1034.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 10:

Pile-head deflection = 1.06862368 meters
Computed slope at pile head = -0.10866750 radians
Maximum bending moment = 55683. kN-m
Maximum shear force = -9065. kN
Depth of maximum bending moment = 9.40000000 meters below pile head
Depth of maximum shear force = 13.60000000 meters below pile head
Number of iterations = 150
Number of zero deflection points = 1

Summary of Pile-head Responses for Conventional Analyses

Definitions of Pile-head Loading Conditions:

Load Type 1: Load 1 = Shear, V, kN, and Load 2 = Moment, M, kN-m
Load Type 2: Load 1 = Shear, V, kN, and Load 2 = Slope, S, radians
Load Type 3: Load 1 = Shear, V, kN, and Load 2 = Rot. Stiffness, R, kN-m/rad.
Load Type 4: Load 1 = Top Deflection, y, m, and Load 2 = Moment, M, kN-m
Load Type 5: Load 1 = Top Deflection, y, m, and Load 2 = Slope, S, radians

Load Load Load Axial Pile-head Pile-head Max Shear Max Moment

Case No.	Type 1	Pile-head Load 1	Type 2	Pile-head Load 2	Loading kN	Deflection meters	Rotation radians	in Pile kN	in Pile kN-m
1	V, kN	100.0000	M, kN-m	0.00	0.00	7.33E-04	-1.70E-04	100.0000	194.8129
2	V, kN	200.0000	M, kN-m	0.00	0.00	0.00244	-4.88E-04	200.0000	505.4619
3	V, kN	300.0000	M, kN-m	0.00	0.00	0.00453	-8.63E-04	300.0000	888.3543
4	V, kN	400.0000	M, kN-m	0.00	0.00	0.00680	-0.00127	400.0000	1305.
5	V, kN	500.0000	M, kN-m	0.00	0.00	0.00918	-0.00169	500.0000	1739.
6	V, kN	700.0000	M, kN-m	0.00	0.00	0.01544	-0.00268	700.0000	2638.
7	V, kN	1000.0000	M, kN-m	0.00	0.00	0.02692	-0.00440	1000.0000	4068.
8	V, kN	1200.	M, kN-m	0.00	0.00	0.03561	-0.00565	1200.	5069.
9	V, kN	1500.	M, kN-m	0.00	0.00	0.04993	-0.00765	1500.	6627.
10	V, kN	8400.	M, kN-m	0.00	0.00	1.0686	-0.1087	-9065.	55683.

Maximum pile-head deflection = 1.0686236818 meters

Maximum pile-head rotation = -0.1086675019 radians = -6.226189 deg.

The analysis ended normally.

Opera IV01 (Sp. A) – D800

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LPile for Windows, Version 2016-09.009

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method
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Files Used for Analysis

Path to file locations:
\m9159\Work\07_Pali\IV01\LPILE\

Name of input data file:
IV01_SpA_D800.lp9d

Name of output report file:
IV01_SpA_D800.lp9o

Name of plot output file:
IV01_SpA_D800.lp9p

Name of runtime message file:
IV01_SpA_D800.lp9r

Date and Time of Analysis

Date: June 10, 2019 Time: 15:26:59

Problem Title

Project Name: VI02 - Spalle e pila
Job Number:
Client:
Engineer:
Description:

Program Options and Settings

Computational Options:
- Use unfactored loads in computations (conventional analysis)

Engineering Units Used for Data Input and Computations:
- International System Units (kilonewtons, meters, millimeters)

Analysis Control Options:
- Maximum number of iterations allowed = 500
- Deflection tolerance for convergence = 2.5400E-07 m
- Maximum allowable deflection = 2.5400 m
- Number of pile increments = 100

Loading Type and Number of Cycles of Loading:
- Static loading specified

- Use of p-y modification factors for p-y curves not selected
- No distributed lateral loads are entered
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected

- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:
- Output files use decimal points to denote decimal symbols.
- Values of pile-head deflection, bending moment, shear force, and soil reaction are printed for full length of pile.
- Printing Increment (nodal spacing of output points) = 1
- p-y curves computed and reported at user-specified depths
- Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined = 1
Total length of pile = 20.000 m
Depth of ground surface below top of pile = 0.0000 m

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point	Depth Below Pile Head meters	Pile Diameter millimeters
1	0.000	800.00
2	20.000	800.00

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is an elastic pile
Cross-sectional Shape = Circular Pile
Length of section = 20.000000 m

Width of top of section = 0.800000 m
Width of bottom of section = 0.800000 m
Top Area = 0.502655 sq. m
Bottom Area = 0.502655 sq. m
Moment of Inertia at Top = 0.020106 m^4
Moment of Inertia at Bottom = 0.020106 m^4
Elastic Modulus = 28000000. kPa

Ground Slope and Pile Batter Angles

Ground Slope Angle = 0.000 degrees
= 0.000 radians

Pile Batter Angle = 0.000 degrees
= 0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 4 layers

Layer 1 is stiff clay with water-induced erosion

Distance from top of pile to top of layer = 0.0000 m
Distance from top of pile to bottom of layer = 2.500000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 80.000000 kPa
Undrained cohesion at bottom of layer = 80.000000 kPa
Epsilon-50 at top of layer = 0.007000
Epsilon-50 at bottom of layer = 0.007000
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 2 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 2.500000 m
Distance from top of pile to bottom of layer = 8.900000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 45.000000 kPa
Undrained cohesion at bottom of layer = 45.000000 kPa
Epsilon-50 at top of layer = 0.015000
Epsilon-50 at bottom of layer = 0.015000

Layer 3 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer = 8.900000 m
Distance from top of pile to bottom of layer = 15.800000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Friction angle at top of layer = 36.000000 deg.
Friction angle at bottom of layer = 36.000000 deg.
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 4 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 15.800000 m
Distance from top of pile to bottom of layer = 20.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 150.000000 kPa
Undrained cohesion at bottom of layer = 150.000000 kPa
Epsilon-50 at top of layer = 0.005000
Epsilon-50 at bottom of layer = 0.005000

(Depth of the lowest soil layer extends 0.000 m below the pile tip)

Summary of Input Soil Properties

Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth m	Effective Unit Wt. kN/m3	Undrained Cohesion kPa	Angle of Friction deg.	E50 or krm	kpy kN/m3
1	Stiff Clay	0.00	9.0000	80.0000	--	0.00700	default
	with Free Water	2.5000	9.0000	80.0000	--	0.00700	default
2	Soft	2.5000	9.0000	45.0000	--	0.01500	--
	Clay	8.9000	9.0000	45.0000	--	0.01500	--
3	Sand	8.9000	9.0000	--	36.0000	--	default
	(Reese, et al.)	15.8000	9.0000	--	36.0000	--	default
4	Soft	15.8000	9.0000	150.0000	--	0.00500	--
	Clay	20.0000	9.0000	150.0000	--	0.00500	--

Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 11

Load No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, kN	Compute Top y vs. Pile Length
1	1	V = 50.000000 kN	M = 0.0000 m-kN	0.0000000	No
2	1	V = 75.000000 kN	M = 0.0000 m-kN	0.0000000	No
3	1	V = 100.000000 kN	M = 0.0000 m-kN	0.0000000	No
4	1	V = 125.000000 kN	M = 0.0000 m-kN	0.0000000	No
5	1	V = 150.000000 kN	M = 0.0000 m-kN	0.0000000	No
6	1	V = 200.000000 kN	M = 0.0000 m-kN	0.0000000	No
7	1	V = 300.000000 kN	M = 0.0000 m-kN	0.0000000	No
8	1	V = 400.000000 kN	M = 0.0000 m-kN	0.0000000	No
9	1	V = 450.000000 kN	M = 0.0000 m-kN	0.0000000	No
10	1	V = 470.000000 kN	M = 0.0000 m-kN	0.0000000	No
11	1	V = 1500. kN	M = 0.0000 m-kN	0.0000000	No

V = shear force applied normal to pile axis

M = bending moment applied to pile head

y = lateral deflection normal to pile axis

S = pile slope relative to original pile batter angle

R = rotational stiffness applied to pile head

Values of top y vs. pile lengths can be computed only for load types with specified shear loading (Load Types 1, 2, and 3).

Thrust force is assumed to be acting axially for all pile batter angles.

Specified Depths for Output of p-y Curves

Lateral load-transfer (p-y) curves are computed and output at 8 depths.
(Note that load-transfer values are computeded at the specified depths and may differ from values computed at nodal points)

Depth No.	Depth Below Pile Head m	Depth Below Ground Surface m
1	0.200	0.200
2	2.300	2.300
3	2.700	2.700
4	8.700	8.700
5	9.100	9.100
6	15.600	15.600
7	16.000	16.000
8	19.800	19.800

Depth of ground surface below top of pile = 0.0000 m

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

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Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Moment-curvature properties were derived from elastic section properties

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Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head meters	Equivalent Top Depth Below Grnd Surf meters	Same Layer Type As Layer Above	Layer is Rock or is Below Rock Layer	F0 Integral for Layer kN	F1 Integral for Layer kN
1	0.00	0.00	N.A.	No	0.00	84.0915
2	2.5000	0.7094	No	No	84.0915	1517.
3	8.9000	5.1544	No	No	1601.	21480.
4	15.8000	15.8000	No	No	23081.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals for Layer n. Layering correction equivalent depths are computed only for soil types with both shallow-depth and deep-depth expressions for peak lateral load transfer. These soil types are soft and stiff clays, non-liquefied sands, and cemented c-phi soil.

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p-y Curves Reported for Specified Depths

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p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 0.200 m
Depth of p-y curve below ground surface = 0.200 m
Equivalent depth of p-y curve = 0.200 m
Pile diameter = 800.000 mm
Undrained cohesion at curve depth = 80.000 kPa

Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.006 m
As = 0.30366
Ac (not used) = 0.23383
pct = 174.720 kN/m
pcd = 704.000 kN/m
pc = 174.720 kN/m
pu = 6.317 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00085026	23.08008
0.00170	46.16015
0.00255	54.91936
0.00340	58.47120
0.00425	60.16449
0.00510	60.52600
0.00595	59.85385
0.00680	58.33995
0.00765	56.11775
0.00850	53.28508
0.00935	49.91658
0.01020	46.07088
0.01701	32.84541
0.02381	19.58135
0.03061	6.31728
0.03231	6.31728

p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 2.300 m

Depth of p-y curve below ground surface = 2.300 m
Equivalent depth of p-y curve = 2.300 m
Pile diameter = 800.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.006 m
As = 0.59931
Ac (not used) = 0.30000
pct = 665.280 kN/m
pcd = 704.000 kN/m
pc = 665.280 kN/m
pu = 58.315 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00168	182.08936
0.00336	257.51324
0.00503	300.00366
0.00671	327.58832
0.00839	346.42329
0.01007	358.99889
0.01175	366.73818
0.01342	370.55946
0.01510	371.10111
0.01678	368.83056
0.01846	364.10352
0.02014	357.19900
0.03356	257.66903
0.04699	157.99210
0.06041	58.31517
0.06377	58.31517

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 2.500 m
Depth of p-y curve below pile head = 2.700 m
Depth of p-y curve below ground surface = 2.700 m
Equiv. depth of p-y curve below ground surface = 0.909 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 7.273 m
Static pu_s for flat ground = 147.902 kN/m
Static pu_d for flat ground = 324.000 kN/m
y_50 = 0.03000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 147.902 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00007111	9.86013
0.00056889	19.72027
0.00192	29.58040
0.00455	39.44054
0.00889	49.30067
0.01536	59.16080
0.02439	69.02094
0.03641	78.88107
0.05184	88.74121
0.07111	98.60134
0.09465	108.46147
0.12288	118.32161
0.15623	128.18174

0.19513	138.04188
0.24000	147.90201
0.25500	147.90201

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 2.500 m
Depth of p-y curve below pile head = 8.700 m
Depth of p-y curve below ground surface = 8.700 m
Equiv. depth of p-y curve below ground surface = 8.700 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 7.273 m
Static pu_s for flat ground = 366.390 kN/m
Static pu_d for flat ground = 324.000 kN/m
y_50 = 0.03000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 324.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00007111	21.60000
0.00056889	43.20000
0.00192	64.80000
0.00455	86.40000
0.00889	108.00000
0.01536	129.60000
0.02439	151.20000
0.03641	172.80000
0.05184	194.40000
0.07111	216.00000

0.09465	237.60000
0.12288	259.20000
0.15623	280.80000
0.19513	302.40000
0.24000	324.00000
0.25500	324.00000

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 8.900 m
Depth of p-y curve below pile head = 9.100 m
Depth of p-y curve below ground surface = 9.100 m
Equiv. depth of p-y curve below ground surface = 5.354 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 800.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3
K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 1657.845 kN/m
Psd = 4009.867 kN/m
Ps = Pst (shallow controls) = 1657.845 kN/m
A (static) = 0.8800
B (static) = 0.5000
C = Pm/(Ym^(1/n)) = 11443.2962
n = Pm/(m Ym) = 1.6447
m = (Pu-Pm)/(Yu-Ym) = 37798.8626
Yk = [c/(kx)]^(n/(n-1)) = 0.0004 m
Pk = 102.967 kN/m
Ym = b/60 = 0.0133 m
Pm = B ps = 828.922 kN/m
Yu = 3b/80 = 0.0300 m
Pu = A Ps = 1458.903 kN/m
Maximum Es value = 238554.961 kN/m/m
p-multiplier = 1.00000

y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters	p, kN/m
0.00000	0.00000
0.00043163	102.96683
0.00160	228.77011
0.00278	319.36149
0.00395	395.64029
0.00512	463.39359
0.00630	525.27185
0.00747	582.76296
0.00864	636.80522
0.00981	688.03733
0.01099	736.91825
0.01216	783.79149
0.01333	828.92243
0.02167	1143.91295
0.03000	1458.90347
0.03600	1458.90347
0.04200	1458.90347

The above p-y curve was computed using internal default values of k.

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 8.900 m
Depth of p-y curve below pile head = 15.600 m
Depth of p-y curve below ground surface = 15.600 m
Equiv. depth of p-y curve below ground surface = 11.854 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 800.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3

K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 5802.278 kN/m
Psd = 6874.058 kN/m
Ps = Pst (shallow controls) = 5802.278 kN/m
A (static) = 0.8800
B (static) = 0.5000
C = Pm/(Ym^(1/n)) = 40050.3004
n = Pm/(m Ym) = 1.6447
m = (Pu-Pm)/(Yu-Ym) = 132291.9361
Yk = [c/(kx)]^(n/(n-1)) = 0.0027 m
Pk = 1090.245 kN/m
Ym = b/60 = 0.0133 m
Pm = B ps = 2901.139 kN/m
Yu = 3b/80 = 0.0300 m
Pu = A Ps = 5106.005 kN/m
Maximum Es value = 408951.362 kN/m/m
p-multiplier = 1.00000
y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters	p, kN/m
0.00000	0.00000
0.00267	1090.24475
0.00364	1316.57113
0.00461	1520.11585
0.00558	1707.39469
0.00654	1882.25664
0.00751	2047.20922
0.00848	2203.99841
0.00945	2353.90016
0.01042	2497.88189
0.01139	2636.69868
0.01236	2770.95386
0.01333	2901.13895
0.02167	4003.57175
0.03000	5106.00455
0.03600	5106.00455
0.04200	5106.00455

The above p-y curve was computed using internal default values of k.

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 4
Depth of top of Layer 4 below pile head = 15.800 m
Depth of p-y curve below pile head = 16.000 m
Depth of p-y curve below ground surface = 16.000 m
Equiv. depth of p-y curve below ground surface = 16.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 150.000 kPa
Epsilon_50 = 0.0050
J (default value) = 0.5000
Transition depth Xr = 8.759 m
Static pu_s for flat ground = 1675.200 kN/m
Static pu_d for flat ground = 1080.000 kN/m
y_50 = 0.01000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 1080.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00002370	72.00000
0.00018963	144.00000
0.00064000	216.00000
0.00152	288.00000
0.00296	360.00000
0.00512	432.00000
0.00813	504.00000

0.01214	576.00000
0.01728	648.00000
0.02370	720.00000
0.03155	792.00000
0.04096	864.00000
0.05208	936.00000
0.06504	1008.00000
0.08000	1080.00000
0.08500	1080.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 4
Depth of top of Layer 4 below pile head = 15.800 m
Depth of p-y curve below pile head = 19.800 m
Depth of p-y curve below ground surface = 19.800 m
Equiv. depth of p-y curve below ground surface = 19.800 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 150.000 kPa
Epsilon_50 = 0.0050
J (default value) = 0.5000
Transition depth Xr = 8.759 m
Static pu_s for flat ground = 1987.560 kN/m
Static pu_d for flat ground = 1080.000 kN/m
y_50 = 0.01000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 1080.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00002370	72.00000
0.00018963	144.00000
0.00064000	216.00000
0.00152	288.00000

0.00296	360.00000
0.00512	432.00000
0.00813	504.00000
0.01214	576.00000
0.01728	648.00000
0.02370	720.00000
0.03155	792.00000
0.04096	864.00000
0.05208	936.00000
0.06504	1008.00000
0.08000	1080.00000
0.08500	1080.00000

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 1

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 50.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	5.10E-04	-4.58E-12	50.0000	-2.55E-04	9.11E-11	562973.	0.00	0.00	0.00
0.2000	4.59E-04	10.0000	48.7537	-2.54E-04	198.9437	562973.	-12.4626	5429.	0.00
0.4000	4.09E-04	19.5015	45.2883	-2.48E-04	387.9699	562973.	-22.1917	10858.	0.00
0.6000	3.60E-04	28.1153	40.1391	-2.40E-04	559.3366	562973.	-29.3001	16287.	0.00
0.8000	3.13E-04	35.5571	33.8124	-2.29E-04	707.3870	562973.	-33.9672	21716.	0.00
1.0000	2.68E-04	41.6403	26.7730	-2.15E-04	828.4072	562973.	-36.4273	27145.	0.00
1.2000	2.27E-04	46.2663	19.4346	-1.99E-04	920.4395	562973.	-36.9566	32574.	0.00
1.4000	1.89E-04	49.4141	12.1531	-1.82E-04	983.0627	562973.	-35.8584	38003.	0.00
1.6000	1.54E-04	51.1276	5.2223	-1.64E-04	1017.	562973.	-33.4491	43432.	0.00
1.8000	1.23E-04	51.5031	-1.1270	-1.46E-04	1025.	562973.	-30.0443	48860.	0.00
2.0000	9.56E-05	50.6768	-6.7262	-1.28E-04	1008.	562973.	-25.9471	54289.	0.00
2.2000	7.18E-05	48.8126	-11.4646	-1.10E-04	971.0956	562973.	-21.4378	59718.	0.00

2.4000	5.15E-05	46.0909	-15.2851	-9.34E-05	916.9494	562973.	-16.7667	65147.	0.00
2.6000	3.44E-05	42.6985	-17.7205	-7.77E-05	849.4606	562973.	-7.5875	44082.	0.00
2.8000	2.04E-05	39.0027	-19.1431	-6.31E-05	775.9339	562973.	-6.6383	65049.	0.00
3.0000	9.17E-06	35.0413	-20.3362	-5.00E-05	697.1245	562973.	-5.2921	115464.	0.00
3.2000	4.13E-07	30.8682	-21.0751	-3.83E-05	614.1039	562973.	-2.0971	1015499.	0.00
3.4000	-6.15E-06	26.6113	-20.7906	-2.81E-05	529.4144	562973.	4.9418	160776.	0.00
3.6000	-1.08E-05	22.5520	-19.6777	-1.93E-05	448.6575	562973.	6.1868	114388.	0.00
3.8000	-1.39E-05	18.7402	-18.3637	-1.20E-05	372.8239	562973.	6.9540	100168.	0.00
4.0000	-1.56E-05	15.2065	-16.9213	-5.98E-06	302.5241	562973.	7.4691	95632.	0.00
4.2000	-1.63E-05	11.9716	-15.3934	-1.15E-06	238.1681	562973.	7.8103	95974.	0.00
4.4000	-1.61E-05	9.0492	-13.8109	2.58E-06	180.0273	562973.	8.0147	99681.	0.00
4.6000	-1.52E-05	6.4473	-12.1991	5.34E-06	128.2644	562973.	8.1032	106324.	0.00
4.8000	-1.39E-05	4.1695	-10.5799	7.22E-06	82.9499	562973.	8.0888	115999.	0.00
5.0000	-1.24E-05	2.2153	-8.9730	8.36E-06	44.0722	562973.	7.9803	129195.	0.00
5.2000	-1.06E-05	0.5803	-7.3966	8.85E-06	11.5450	562973.	7.7841	146814.	0.00
5.4000	-8.81E-06	-0.7433	-5.8676	8.82E-06	14.7878	562973.	7.5052	170324.	0.00
5.6000	-7.07E-06	-1.7667	-4.4023	8.38E-06	35.1481	562973.	7.1479	202073.	0.00
5.8000	-5.46E-06	-2.5042	-3.0159	7.62E-06	49.8203	562973.	6.7158	245917.	0.00
6.0000	-4.03E-06	-2.9731	-1.7231	6.65E-06	59.1483	562973.	6.2123	308534.	0.00
6.2000	-2.80E-06	-3.1935	-0.5378	5.55E-06	63.5326	562973.	5.6409	402429.	0.00
6.4000	-1.81E-06	-3.1882	0.5267	4.42E-06	63.4281	562973.	5.0047	554005.	0.00
6.6000	-1.04E-06	-2.9828	1.4580	3.32E-06	59.3410	562973.	4.3079	831188.	0.00
6.8000	-4.78E-07	-2.6050	2.2458	2.33E-06	51.8257	562973.	3.5698	1492588.	0.00
7.0000	-1.05E-07	-2.0845	2.6088	1.50E-06	41.4697	562973.	0.06078	115542.	0.00
7.2000	1.20E-07	-1.5615	2.6078	8.48E-07	31.0653	562973.	-0.07071	118033.	0.00
7.4000	2.34E-07	-1.0414	2.3521	3.85E-07	20.7172	562973.	-2.4865	2126103.	0.00
7.6000	2.74E-07	-0.6207	1.8389	9.02E-08	12.3477	562973.	-2.6453	1930985.	0.00
7.8000	2.70E-07	-0.3058	1.3130	-7.44E-08	6.0833	562973.	-2.6141	1936489.	0.00
8.0000	2.44E-07	-0.09546	0.7999	-1.46E-07	1.8992	562973.	-2.5170	2061087.	0.00
8.2000	2.12E-07	0.01418	0.3057	-1.60E-07	0.2820	562973.	-2.4248	2290511.	0.00
8.4000	1.80E-07	0.02682	0.05098	-1.53E-07	0.5336	562973.	-0.1224	135828.	0.00
8.6000	1.51E-07	0.03457	0.02852	-1.42E-07	0.6877	562973.	-0.1023	135828.	0.00
8.8000	1.23E-07	0.03823	0.00990	-1.29E-07	0.7605	562973.	-0.08385	135828.	0.00
9.0000	9.90E-08	0.03853	-8.18E-04	-1.15E-07	0.7665	562973.	-0.02336	47187.	0.00
9.2000	7.73E-08	0.03790	-0.00502	-1.02E-07	0.7540	562973.	-0.01865	48235.	0.00
9.4000	5.83E-08	0.03652	-0.00832	-8.85E-08	0.7266	562973.	-0.01437	49284.	0.00
9.6000	4.19E-08	0.03457	-0.01081	-7.59E-08	0.6878	562973.	-0.01055	50332.	0.00
9.8000	2.80E-08	0.03220	-0.01259	-6.40E-08	0.6405	562973.	-0.00719	51381.	0.00
10.0000	1.63E-08	0.02953	-0.01373	-5.31E-08	0.5876	562973.	-0.00428	52430.	0.00
10.2000	6.74E-09	0.02670	-0.01434	-4.31E-08	0.5312	562973.	-0.00180	53478.	0.00
10.4000	-9.23E-10	0.02380	-0.01450	-3.41E-08	0.4734	562973.	2.52E-04	54527.	0.00
10.6000	-6.90E-09	0.02090	-0.01428	-2.62E-08	0.4159	562973.	0.00192	55575.	0.00
10.8000	-1.14E-08	0.01809	-0.01377	-1.92E-08	0.3598	562973.	0.00323	56624.	0.00
11.0000	-1.46E-08	0.01540	-0.01302	-1.33E-08	0.3063	562973.	0.00421	57673.	0.00

11.2000	-1.67E-08	0.01288	-0.01211	-8.28E-09	0.2562	562973.	0.00491	58721.	0.00
11.4000	-1.79E-08	0.01055	-0.01109	-4.11E-09	0.2099	562973.	0.00535	59770.	0.00
11.6000	-1.84E-08	0.00844	-0.00999	-7.41E-10	0.1680	562973.	0.00558	60818.	0.00
11.8000	-1.82E-08	0.00656	-0.00887	1.92E-09	0.1304	562973.	0.00563	61867.	0.00
12.0000	-1.76E-08	0.00489	-0.00775	3.96E-09	0.09737	562973.	0.00553	62916.	0.00
12.2000	-1.66E-08	0.00345	-0.00667	5.44E-09	0.06872	562973.	0.00532	63964.	0.00
12.4000	-1.54E-08	0.00223	-0.00564	6.45E-09	0.04430	562973.	0.00501	65013.	0.00
12.6000	-1.40E-08	0.00120	-0.00467	7.06E-09	0.02386	562973.	0.00464	66061.	0.00
12.8000	-1.26E-08	3.58E-04	-0.00379	7.33E-09	0.00712	562973.	0.00422	67110.	0.00
13.0000	-1.11E-08	-3.15E-04	-0.00298	7.34E-09	0.00626	562973.	0.00379	68159.	0.00
13.2000	-9.65E-09	-8.36E-04	-0.00227	7.14E-09	0.01663	562973.	0.00334	69207.	0.00
13.4000	-8.25E-09	-0.00122	-0.00165	6.77E-09	0.02434	562973.	0.00290	70256.	0.00
13.6000	-6.94E-09	-0.00149	-0.00111	6.29E-09	0.02974	562973.	0.00248	71304.	0.00
13.8000	-5.74E-09	-0.00167	-6.55E-04	5.73E-09	0.03317	562973.	0.00208	72353.	0.00
14.0000	-4.65E-09	-0.00176	-2.77E-04	5.12E-09	0.03495	562973.	0.00171	73402.	0.00
14.2000	-3.69E-09	-0.00178	3.16E-05	4.49E-09	0.03537	562973.	0.00137	74450.	0.00
14.4000	-2.86E-09	-0.00174	2.77E-04	3.87E-09	0.03470	562973.	0.00108	75499.	0.00
14.6000	-2.15E-09	-0.00167	4.67E-04	3.26E-09	0.03317	562973.	8.21E-04	76547.	0.00
14.8000	-1.55E-09	-0.00156	6.09E-04	2.69E-09	0.03098	562973.	6.02E-04	77596.	0.00
15.0000	-1.07E-09	-0.00142	7.12E-04	2.16E-09	0.02832	562973.	4.21E-04	78644.	0.00
15.2000	-6.90E-10	-0.00127	7.81E-04	1.68E-09	0.02532	562973.	2.75E-04	79693.	0.00
15.4000	-3.99E-10	-0.00111	8.25E-04	1.25E-09	0.02210	562973.	1.61E-04	80742.	0.00
15.6000	-1.88E-10	-9.43E-04	8.49E-04	8.90E-10	0.01876	562973.	7.68E-05	81790.	0.00
15.8000	-4.34E-11	-7.72E-04	8.86E-04	5.85E-10	0.01535	562973.	2.95E-04	1358277.	0.00
16.0000	4.63E-11	-5.89E-04	8.84E-04	3.44E-10	0.01171	562973.	-3.14E-04	1358277.	0.00
16.2000	9.41E-11	-4.18E-04	7.88E-04	1.65E-10	0.00832	562973.	-6.39E-04	1358277.	0.00
16.4000	1.12E-10	-2.73E-04	6.48E-04	4.21E-11	0.00544	562973.	-7.62E-04	1358277.	0.00
16.6000	1.11E-10	-1.59E-04	4.97E-04	-3.47E-11	0.00316	562973.	-7.53E-04	1358277.	0.00
16.8000	9.84E-11	-7.47E-05	3.54E-04	-7.62E-11	0.00149	562973.	-6.68E-04	1358277.	0.00
17.0000	8.05E-11	-1.71E-05	2.33E-04	-9.25E-11	3.41E-04	562973.	-5.46E-04	1358277.	0.00
17.2000	6.14E-11	1.85E-05	1.37E-04	-9.23E-11	3.69E-04	562973.	-4.17E-04	1358277.	0.00
17.4000	4.36E-11	3.76E-05	6.55E-05	-8.23E-11	7.47E-04	562973.	-2.96E-04	1358277.	0.00
17.6000	2.84E-11	4.47E-05	1.66E-05	-6.77E-11	8.90E-04	562973.	-1.93E-04	1358277.	0.00
17.8000	1.65E-11	4.42E-05	-1.39E-05	-5.19E-11	8.79E-04	562973.	-1.12E-04	1358277.	0.00
18.0000	7.68E-12	3.92E-05	-3.04E-05	-3.71E-11	7.79E-04	562973.	-5.22E-05	1358277.	0.00
18.2000	1.66E-12	3.20E-05	-3.67E-05	-2.44E-11	6.37E-04	562973.	-1.12E-05	1358277.	0.00
18.4000	-2.09E-12	2.45E-05	-3.64E-05	-1.44E-11	4.87E-04	562973.	1.42E-05	1358277.	0.00
18.6000	-4.10E-12	1.75E-05	-3.22E-05	-6.95E-12	3.48E-04	562973.	2.79E-05	1358277.	0.00
18.8000	-4.87E-12	1.16E-05	-2.61E-05	-1.78E-12	2.31E-04	562973.	3.31E-05	1358277.	0.00
19.0000	-4.82E-12	7.04E-06	-1.95E-05	1.53E-12	1.40E-04	562973.	3.27E-05	1358277.	0.00
19.2000	-4.26E-12	3.79E-06	-1.33E-05	3.45E-12	7.55E-05	562973.	2.89E-05	1358277.	0.00
19.4000	-3.44E-12	1.70E-06	-8.11E-06	4.43E-12	3.39E-05	562973.	2.33E-05	1358277.	0.00
19.6000	-2.49E-12	5.49E-07	-4.09E-06	4.83E-12	1.09E-05	562973.	1.69E-05	1358277.	0.00
19.8000	-1.51E-12	7.00E-08	-1.37E-06	4.94E-12	1.39E-06	562973.	1.02E-05	1358277.	0.00

20.0000	0.00	0.00	0.00	4.95E-12	0.00	562973.	3.50E-06	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 1:

Pile-head deflection = 0.00051018 meters
Computed slope at pile head = -0.00025531 radians
Maximum bending moment = 51.50305100 kN-m
Maximum shear force = 50.00000000 kN
Depth of maximum bending moment = 1.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 6
Number of zero deflection points = 6

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 2

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 75.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	8.03E-04	4.58E-12	75.0000	-3.96E-04	9.11E-11	562973.	0.00	0.00	0.00
0.2000	7.24E-04	15.0000	73.0353	-3.94E-04	298.4155	562973.	-19.6472	5429.	0.00
0.4000	6.46E-04	29.2141	67.5657	-3.86E-04	581.1963	562973.	-35.0492	10858.	0.00
0.6000	5.69E-04	42.0263	59.7846	-3.73E-04	836.0859	562973.	-42.7611	15018.	0.00
0.8000	4.96E-04	53.1280	50.8208	-3.56E-04	1057.	562973.	-46.8769	18889.	0.00
1.0000	4.27E-04	62.3546	41.1401	-3.36E-04	1241.	562973.	-49.9302	23387.	0.00
1.2000	3.62E-04	69.5840	30.9552	-3.12E-04	1384.	562973.	-51.9190	28680.	0.00
1.4000	3.02E-04	74.7367	20.4782	-2.87E-04	1487.	562973.	-52.8510	34992.	0.00
1.6000	2.47E-04	77.7753	9.9189	-2.60E-04	1547.	562973.	-52.7420	42636.	0.00
1.8000	1.98E-04	78.7042	-0.1987	-2.32E-04	1566.	562973.	-48.4345	48860.	0.00
2.0000	1.55E-04	77.6958	-9.2415	-2.04E-04	1546.	562973.	-41.9932	54289.	0.00

2.2000	1.17E-04	75.0076	-16.9244	-1.77E-04	1492.	562973.	-34.8355	59718.	0.00
2.4000	8.40E-05	70.9261	-23.1428	-1.51E-04	1411.	562973.	-27.3490	65147.	0.00
2.6000	5.63E-05	65.7505	-26.7724	-1.27E-04	1308.	562973.	-8.9470	31787.	0.00
2.8000	3.33E-05	60.2171	-28.4495	-1.04E-04	1198.	562973.	-7.8235	46989.	0.00
3.0000	1.46E-05	54.3707	-29.8506	-8.39E-05	1082.	562973.	-6.1879	84862.	0.00
3.2000	-2.69E-07	48.2768	-30.3271	-6.57E-05	960.4369	562973.	1.4229	1056503.	0.00
3.4000	-1.17E-05	42.2399	-29.5715	-4.96E-05	840.3352	562973.	6.1338	104922.	0.00
3.6000	-2.01E-05	36.4482	-28.1958	-3.56E-05	725.1146	562973.	7.6230	75799.	0.00
3.8000	-2.59E-05	30.9615	-26.5749	-2.37E-05	615.9603	562973.	8.5858	66183.	0.00
4.0000	-2.96E-05	25.8183	-24.7896	-1.36E-05	513.6383	562973.	9.2669	62661.	0.00
4.2000	-3.14E-05	21.0457	-22.8876	-5.25E-06	418.6906	562973.	9.7535	62172.	0.00
4.4000	-3.17E-05	16.6632	-20.9035	1.45E-06	331.5045	562973.	10.0875	63688.	0.00
4.6000	-3.08E-05	12.6843	-18.8655	6.66E-06	252.3458	562973.	10.2927	66844.	0.00
4.8000	-2.90E-05	9.1170	-16.7978	1.05E-05	181.3778	562973.	10.3836	71578.	0.00
5.0000	-2.66E-05	5.9651	-14.7225	1.32E-05	118.6728	562973.	10.3699	78019.	0.00
5.2000	-2.37E-05	3.2280	-12.6597	1.48E-05	64.2199	562973.	10.2585	86466.	0.00
5.4000	-2.06E-05	0.9013	-10.6284	1.56E-05	17.9304	562973.	10.0546	97407.	0.00
5.6000	-1.75E-05	-1.0233	-8.6467	1.56E-05	20.3580	562973.	9.7621	111588.	0.00
5.8000	-1.44E-05	-2.5574	-6.7321	1.49E-05	50.8779	562973.	9.3842	130142.	0.00
6.0000	-1.15E-05	-3.7161	-4.9013	1.38E-05	73.9301	562973.	8.9235	154813.	0.00
6.2000	-8.90E-06	-4.5179	-3.1708	1.23E-05	89.8813	562973.	8.3818	188383.	0.00
6.4000	-6.59E-06	-4.9844	-1.5566	1.07E-05	99.1624	562973.	7.7602	235506.	0.00
6.6000	-4.64E-06	-5.1406	-0.07472	8.86E-06	102.2682	562973.	7.0583	304499.	0.00
6.8000	-3.05E-06	-5.0143	1.2583	7.05E-06	99.7571	562973.	6.2723	411700.	0.00
7.0000	-1.81E-06	-4.6372	2.4246	5.34E-06	92.2546	562973.	5.3903	594200.	0.00
7.2000	-9.11E-07	-4.0445	3.4012	3.80E-06	80.4627	562973.	4.3758	960579.	0.00
7.4000	-2.95E-07	-3.2767	3.8588	2.50E-06	65.1886	562973.	0.2005	135828.	0.00
7.6000	8.79E-08	-2.5010	3.8729	1.47E-06	49.7550	562973.	-0.05967	135828.	0.00
7.8000	2.93E-07	-1.7276	3.5315	7.20E-07	34.3689	562973.	-3.3544	2287867.	0.00
8.0000	3.76E-07	-1.0884	2.8357	2.20E-07	21.6521	562973.	-3.6040	1917777.	0.00
8.2000	3.81E-07	-0.5933	2.1209	-7.89E-08	11.8032	562973.	-3.5440	1859733.	0.00
8.4000	3.44E-07	-0.2400	1.4357	-2.27E-07	4.7746	562973.	-3.3077	1921560.	0.00
8.6000	2.90E-07	-0.01901	0.8085	-2.73E-07	0.3781	562973.	-2.9647	2042183.	0.00
8.8000	2.35E-07	0.08339	0.2544	-2.62E-07	1.6591	562973.	-2.5762	2191736.	0.00
9.0000	1.86E-07	0.08275	-0.00762	-2.32E-07	1.6462	562973.	-0.04382	47187.	0.00
9.2000	1.42E-07	0.08035	-0.01543	-2.03E-07	1.5984	562973.	-0.03431	48235.	0.00
9.4000	1.05E-07	0.07657	-0.02144	-1.75E-07	1.5234	562973.	-0.02576	49284.	0.00
9.6000	7.22E-08	0.07177	-0.02583	-1.49E-07	1.4278	562973.	-0.01817	50332.	0.00
9.8000	4.50E-08	0.06624	-0.02880	-1.24E-07	1.3178	562973.	-0.01156	51381.	0.00
10.0000	2.25E-08	0.06025	-0.03055	-1.02E-07	1.1986	562973.	-0.00589	52430.	0.00
10.2000	4.25E-09	0.05402	-0.03125	-8.15E-08	1.0747	562973.	-0.00114	53478.	0.00
10.4000	-1.01E-08	0.04775	-0.03109	-6.35E-08	0.9499	562973.	0.00276	54527.	0.00
10.6000	-2.11E-08	0.04158	-0.03023	-4.76E-08	0.8273	562973.	0.00587	55575.	0.00
10.8000	-2.92E-08	0.03566	-0.02881	-3.39E-08	0.7094	562973.	0.00826	56624.	0.00

11.0000	-3.47E-08	0.03006	-0.02699	-2.22E-08	0.5980	562973.	0.01000	57673.	0.00
11.2000	-3.81E-08	0.02486	-0.02487	-1.25E-08	0.4946	562973.	0.01118	58721.	0.00
11.4000	-3.97E-08	0.02011	-0.02256	-4.46E-09	0.4001	562973.	0.01186	59770.	0.00
11.6000	-3.99E-08	0.01584	-0.02017	1.92E-09	0.3151	562973.	0.01212	60818.	0.00
11.8000	-3.89E-08	0.01205	-0.01775	6.88E-09	0.2397	562973.	0.01203	61867.	0.00
12.0000	-3.71E-08	0.00874	-0.01538	1.06E-08	0.1738	562973.	0.01167	62916.	0.00
12.2000	-3.47E-08	0.00589	-0.01311	1.32E-08	0.1173	562973.	0.01109	63964.	0.00
12.4000	-3.18E-08	0.00349	-0.01096	1.48E-08	0.06953	562973.	0.01035	65013.	0.00
12.6000	-2.87E-08	0.00151	-0.00898	1.57E-08	0.03003	562973.	0.00949	66061.	0.00
12.8000	-2.55E-08	-9.60E-05	-0.00717	1.60E-08	0.00191	562973.	0.00857	67110.	0.00
13.0000	-2.24E-08	-0.00136	-0.00555	1.57E-08	0.02703	562973.	0.00762	68159.	0.00
13.2000	-1.93E-08	-0.00232	-0.00412	1.51E-08	0.04609	562973.	0.00666	69207.	0.00
13.4000	-1.63E-08	-0.00301	-0.00288	1.41E-08	0.05984	562973.	0.00574	70256.	0.00
13.6000	-1.36E-08	-0.00347	-0.00182	1.30E-08	0.06903	562973.	0.00485	71304.	0.00
13.8000	-1.11E-08	-0.00374	-9.36E-04	1.17E-08	0.07436	562973.	0.00403	72353.	0.00
14.0000	-8.94E-09	-0.00384	-2.05E-04	1.03E-08	0.07648	562973.	0.00328	73402.	0.00
14.2000	-7.01E-09	-0.00382	3.84E-04	8.98E-09	0.07600	562973.	0.00261	74450.	0.00
14.4000	-5.35E-09	-0.00369	8.46E-04	7.64E-09	0.07343	562973.	0.00202	75499.	0.00
14.6000	-3.95E-09	-0.00348	0.00120	6.37E-09	0.06926	562973.	0.00151	76547.	0.00
14.8000	-2.80E-09	-0.00321	0.00146	5.18E-09	0.06389	562973.	0.00109	77596.	0.00
15.0000	-1.88E-09	-0.00290	0.00164	4.10E-09	0.05765	562973.	7.38E-04	78644.	0.00
15.2000	-1.16E-09	-0.00255	0.00176	3.13E-09	0.05083	562973.	4.63E-04	79693.	0.00
15.4000	-6.26E-10	-0.00219	0.00183	2.28E-09	0.04364	562973.	2.53E-04	80742.	0.00
15.6000	-2.48E-10	-0.00182	0.00187	1.57E-09	0.03624	562973.	1.01E-04	81790.	0.00
15.8000	1.73E-12	-0.00145	0.00188	9.89E-10	0.02877	562973.	-1.17E-05	1358277.	0.00
16.0000	1.48E-10	-0.00107	0.00178	5.42E-10	0.02130	562973.	-0.00101	1358277.	0.00
16.2000	2.19E-10	-7.36E-04	0.00153	2.21E-10	0.01464	562973.	-0.00149	1358277.	0.00
16.4000	2.37E-10	-4.60E-04	0.00122	8.96E-12	0.00916	562973.	-0.00161	1358277.	0.00
16.6000	2.22E-10	-2.49E-04	9.05E-04	-1.17E-10	0.00496	562973.	-0.00151	1358277.	0.00
16.8000	1.90E-10	-9.83E-05	6.25E-04	-1.79E-10	0.00195	562973.	-0.00129	1358277.	0.00
17.0000	1.51E-10	9.60E-07	3.94E-04	-1.96E-10	1.91E-05	562973.	-0.00102	1358277.	0.00
17.2000	1.12E-10	5.92E-05	2.16E-04	-1.85E-10	0.00118	562973.	-7.58E-04	1358277.	0.00
17.4000	7.66E-11	8.72E-05	8.78E-05	-1.59E-10	0.00173	562973.	-5.20E-04	1358277.	0.00
17.6000	4.78E-11	9.43E-05	3.25E-06	-1.27E-10	0.00188	562973.	-3.25E-04	1358277.	0.00
17.8000	2.58E-11	8.85E-05	-4.68E-05	-9.46E-11	0.00176	562973.	-1.75E-04	1358277.	0.00
18.0000	1.00E-11	7.56E-05	-7.10E-05	-6.55E-11	0.00150	562973.	-6.79E-05	1358277.	0.00
18.2000	0.00	6.01E-05	-7.76E-05	-4.14E-11	0.00120	562973.	2.75E-06	1358277.	0.00
18.4000	-6.54E-12	4.46E-05	-7.28E-05	-2.28E-11	8.88E-04	562973.	4.44E-05	1358277.	0.00
18.6000	-9.51E-12	3.09E-05	-6.19E-05	-9.34E-12	6.15E-04	562973.	6.46E-05	1358277.	0.00
18.8000	-1.03E-11	1.98E-05	-4.85E-05	0.00	3.95E-04	562973.	6.98E-05	1358277.	0.00
19.0000	-9.63E-12	1.15E-05	-3.50E-05	5.25E-12	2.29E-04	562973.	6.54E-05	1358277.	0.00
19.2000	-8.18E-12	5.84E-06	-2.29E-05	8.34E-12	1.16E-04	562973.	5.55E-05	1358277.	0.00
19.4000	-6.30E-12	2.37E-06	-1.31E-05	9.79E-12	4.71E-05	562973.	4.28E-05	1358277.	0.00
19.6000	-4.26E-12	6.12E-07	-5.90E-06	1.03E-11	1.22E-05	562973.	2.89E-05	1358277.	0.00

19.8000	-2.17E-12	1.13E-08	-1.53E-06	1.04E-11	2.24E-07	562973.	1.47E-05	1358277.	0.00
20.0000	0.00	0.00	0.00	1.04E-11	0.00	562973.	5.64E-07	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 2:

Pile-head deflection = 0.00080305 meters
Computed slope at pile head = -0.00039630 radians
Maximum bending moment = 78.70424116 kN-m
Maximum shear force = 75.00000000 kN
Depth of maximum bending moment = 1.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 6
Number of zero deflection points = 6

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 3

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 100.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00118	-3.05E-12	100.0000	-5.66E-04	6.07E-11	562973.	0.00	0.00	0.00
0.2000	0.00107	20.0000	97.0942	-5.62E-04	397.8874	562973.	-29.0580	5429.	0.00
0.4000	9.59E-04	38.8377	89.6070	-5.52E-04	772.6511	562973.	-45.8144	9558.	0.00
0.6000	8.50E-04	55.8428	79.8024	-5.35E-04	1111.	562973.	-52.2308	12294.	0.00
0.8000	7.45E-04	70.7587	68.8379	-5.13E-04	1408.	562973.	-57.4143	15421.	0.00
1.0000	6.45E-04	83.3780	56.9620	-4.85E-04	1659.	562973.	-61.3450	19034.	0.00
1.2000	5.50E-04	93.5434	44.4259	-4.54E-04	1861.	562973.	-64.0154	23258.	0.00
1.4000	4.63E-04	101.1483	31.4816	-4.19E-04	2012.	562973.	-65.4283	28262.	0.00
1.6000	3.83E-04	106.1361	18.3792	-3.83E-04	2112.	562973.	-65.5952	34277.	0.00
1.8000	3.10E-04	108.5000	5.3665	-3.44E-04	2159.	562973.	-64.5322	41633.	0.00

2.0000	2.45E-04	108.2827	-7.3122	-3.06E-04	2154.	562973.	-62.2542	50824.	0.00
2.2000	1.88E-04	105.5752	-19.1406	-2.68E-04	2100.	562973.	-56.0298	59718.	0.00
2.4000	1.38E-04	100.6265	-29.2327	-2.31E-04	2002.	562973.	-44.8921	65147.	0.00
2.6000	9.51E-05	93.8821	-34.7870	-1.97E-04	1868.	562973.	-10.6507	22390.	0.00
2.8000	5.91E-05	86.7116	-36.7984	-1.65E-04	1725.	562973.	-9.4633	32010.	0.00
3.0000	2.93E-05	79.1627	-38.5232	-1.35E-04	1575.	562973.	-7.7848	53177.	0.00
3.2000	5.05E-06	71.3024	-39.7533	-1.08E-04	1419.	562973.	-4.5160	178681.	0.00
3.4000	-1.41E-05	63.2614	-39.5500	-8.46E-05	1259.	562973.	6.5493	92878.	0.00
3.6000	-2.88E-05	55.4824	-38.0345	-6.35E-05	1104.	562973.	8.6058	59832.	0.00
3.8000	-3.95E-05	48.0476	-36.1847	-4.51E-05	955.8765	562973.	9.8920	50102.	0.00
4.0000	-4.68E-05	41.0085	-34.1141	-2.93E-05	815.8382	562973.	10.8139	46219.	0.00
4.2000	-5.12E-05	34.4020	-31.8829	-1.59E-05	684.4053	562973.	11.4982	44926.	0.00
4.4000	-5.31E-05	28.2554	-29.5328	-4.73E-06	562.1224	562973.	12.0027	45176.	0.00
4.6000	-5.31E-05	22.5888	-27.0967	4.30E-06	449.3909	562973.	12.3585	46567.	0.00
4.8000	-5.14E-05	17.4167	-24.6023	1.14E-05	346.4940	562973.	12.5846	48953.	0.00
5.0000	-4.85E-05	12.7479	-22.0746	1.68E-05	253.6116	562973.	12.6932	52328.	0.00
5.2000	-4.47E-05	8.5869	-19.5360	2.06E-05	170.8302	562973.	12.6928	56781.	0.00
5.4000	-4.03E-05	4.9335	-17.0077	2.30E-05	98.1493	562973.	12.5896	62493.	0.00
5.6000	-3.55E-05	1.7838	-14.5099	2.42E-05	35.4869	562973.	12.3883	69747.	0.00
5.8000	-3.06E-05	-0.8705	-12.0619	2.43E-05	17.3172	562973.	12.0926	78960.	0.00
6.0000	-2.58E-05	-3.0410	-9.6821	2.36E-05	60.4983	562973.	11.7053	90748.	0.00
6.2000	-2.12E-05	-4.7433	-7.3886	2.22E-05	94.3646	562973.	11.2289	106026.	0.00
6.4000	-1.69E-05	-5.9964	-5.1992	2.03E-05	119.2952	562973.	10.6651	126197.	0.00
6.6000	-1.30E-05	-6.8230	-3.1313	1.81E-05	135.7389	562973.	10.0147	153490.	0.00
6.8000	-9.68E-06	-7.2489	-1.2021	1.56E-05	144.2131	562973.	9.2773	191659.	0.00
7.0000	-6.83E-06	-7.3038	0.5706	1.30E-05	145.3047	562973.	8.4496	247504.	0.00
7.2000	-4.49E-06	-7.0207	2.1678	1.04E-05	139.6723	562973.	7.5222	334799.	0.00
7.4000	-2.66E-06	-6.4367	3.6492	8.03E-06	128.0539	562973.	7.2920	548652.	0.00
7.6000	-1.28E-06	-5.5610	4.9549	5.90E-06	110.6327	562973.	5.7650	900740.	0.00
7.8000	-2.97E-07	-4.4547	5.5516	4.12E-06	88.6238	562973.	0.2018	135828.	0.00
8.0000	3.69E-07	-3.3404	5.2146	2.74E-06	66.4543	562973.	-3.5721	1934195.	0.00
8.2000	7.98E-07	-2.3689	4.3825	1.72E-06	47.1275	562973.	-4.7485	1189375.	0.00
8.4000	1.06E-06	-1.5874	3.3823	1.02E-06	31.5794	562973.	-5.2537	991931.	0.00
8.6000	1.21E-06	-1.0160	2.3063	5.60E-07	20.2120	562973.	-5.5064	912168.	0.00
8.8000	1.28E-06	-0.6648	1.1925	2.61E-07	13.2266	562973.	-5.6315	877747.	0.00
9.0000	1.31E-06	-0.5390	0.5984	4.73E-08	10.7225	562973.	-0.3095	47187.	0.00
9.2000	1.30E-06	-0.4255	0.5361	-1.24E-07	8.4646	562973.	-0.3140	48235.	0.00
9.4000	1.26E-06	-0.3245	0.4735	-2.57E-07	6.4567	562973.	-0.3110	49284.	0.00
9.6000	1.20E-06	-0.2361	0.4123	-3.57E-07	4.6963	562973.	-0.3018	50332.	0.00
9.8000	1.12E-06	-0.1596	0.3533	-4.27E-07	3.1760	562973.	-0.2876	51381.	0.00
10.0000	1.03E-06	-0.09473	0.2976	-4.72E-07	1.8846	562973.	-0.2696	52430.	0.00
10.2000	9.30E-07	-0.04060	0.2458	-4.96E-07	0.8077	562973.	-0.2488	53478.	0.00
10.4000	8.30E-07	0.00358	0.1983	-5.03E-07	0.07123	562973.	-0.2262	54527.	0.00
10.6000	7.29E-07	0.03871	0.1554	-4.95E-07	0.7701	562973.	-0.2027	55575.	0.00

10.8000	6.32E-07	0.06573	0.1172	-4.77E-07	1.3077	562973.	-0.1788	56624.	0.00
11.0000	5.39E-07	0.08561	0.08382	-4.50E-07	1.7031	562973.	-0.1553	57673.	0.00
11.2000	4.52E-07	0.09926	0.05503	-4.17E-07	1.9748	562973.	-0.1326	58721.	0.00
11.4000	3.72E-07	0.1076	0.03067	-3.80E-07	2.1410	562973.	-0.1111	59770.	0.00
11.6000	2.99E-07	0.1115	0.01045	-3.41E-07	2.2188	562973.	-0.09106	60818.	0.00
11.8000	2.35E-07	0.1118	-0.00593	-3.02E-07	2.2242	562973.	-0.07273	61867.	0.00
12.0000	1.79E-07	0.1092	-0.01882	-2.63E-07	2.1717	562973.	-0.05622	62916.	0.00
12.2000	1.30E-07	0.1043	-0.02861	-2.25E-07	2.0744	562973.	-0.04161	63964.	0.00
12.4000	8.89E-08	0.09772	-0.03566	-1.89E-07	1.9440	562973.	-0.02889	65013.	0.00
12.6000	5.46E-08	0.09001	-0.04035	-1.55E-07	1.7907	562973.	-0.01803	66061.	0.00
12.8000	2.67E-08	0.08158	-0.04305	-1.25E-07	1.6230	562973.	-0.00896	67110.	0.00
13.0000	4.62E-09	0.07279	-0.04410	-9.75E-08	1.4481	562973.	-0.00157	68159.	0.00
13.2000	-1.23E-08	0.06394	-0.04383	-7.32E-08	1.2720	562973.	0.00426	69207.	0.00
13.4000	-2.47E-08	0.05526	-0.04254	-5.21E-08	1.0993	562973.	0.00867	70256.	0.00
13.6000	-3.31E-08	0.04692	-0.04049	-3.39E-08	0.9335	562973.	0.01181	71304.	0.00
13.8000	-3.82E-08	0.03906	-0.03793	-1.86E-08	0.7771	562973.	0.01383	72353.	0.00
14.0000	-4.06E-08	0.03175	-0.03506	-6.06E-09	0.6317	562973.	0.01489	73402.	0.00
14.2000	-4.07E-08	0.02504	-0.03205	4.03E-09	0.4981	562973.	0.01513	74450.	0.00
14.4000	-3.90E-08	0.01893	-0.02907	1.18E-08	0.3766	562973.	0.01471	75499.	0.00
14.6000	-3.59E-08	0.01341	-0.02622	1.76E-08	0.2668	562973.	0.01375	76547.	0.00
14.8000	-3.19E-08	0.00844	-0.02361	2.15E-08	0.1679	562973.	0.01239	77596.	0.00
15.0000	-2.73E-08	0.00397	-0.02130	2.37E-08	0.07890	562973.	0.01075	78644.	0.00
15.2000	-2.25E-08	-7.86E-05	-0.01933	2.44E-08	0.00156	562973.	0.00895	79693.	0.00
15.4000	-1.76E-08	-0.00377	-0.01772	2.37E-08	0.07490	562973.	0.00710	80742.	0.00
15.6000	-1.30E-08	-0.00717	-0.01648	2.17E-08	0.1426	562973.	0.00531	81790.	0.00
15.8000	-8.90E-09	-0.01036	-0.00991	1.86E-08	0.2061	562973.	0.06041	1358277.	0.00
16.0000	-5.54E-09	-0.01113	-1.05E-04	1.48E-08	0.2214	562973.	0.03762	1358277.	0.00
16.2000	-2.97E-09	-0.01040	0.00568	1.10E-08	0.2069	562973.	0.02019	1358277.	0.00
16.4000	-1.15E-09	-0.00886	0.00847	7.56E-09	0.1763	562973.	0.00778	1358277.	0.00
16.6000	5.15E-11	-0.00701	0.00922	4.74E-09	0.1395	562973.	-3.50E-04	1358277.	0.00
16.8000	7.51E-10	-0.00517	0.00867	2.58E-09	0.1029	562973.	-0.00510	1358277.	0.00
17.0000	1.08E-09	-0.00354	0.00743	1.03E-09	0.07045	562973.	-0.00735	1358277.	0.00
17.2000	1.16E-09	-0.00220	0.00590	9.80E-12	0.04383	562973.	-0.00790	1358277.	0.00
17.4000	1.09E-09	-0.00118	0.00437	-5.91E-10	0.02349	562973.	-0.00738	1358277.	0.00
17.6000	9.26E-10	-4.54E-04	0.00301	-8.82E-10	0.00903	562973.	-0.00629	1358277.	0.00
17.8000	7.34E-10	2.18E-05	0.00188	-9.58E-10	4.33E-04	562973.	-0.00499	1358277.	0.00
18.0000	5.43E-10	2.98E-04	0.00101	-9.02E-10	0.00592	562973.	-0.00369	1358277.	0.00
18.2000	3.73E-10	4.26E-04	3.89E-04	-7.73E-10	0.00848	562973.	-0.00254	1358277.	0.00
18.4000	2.34E-10	4.53E-04	-2.38E-05	-6.17E-10	0.00902	562973.	-0.00159	1358277.	0.00
18.6000	1.27E-10	4.17E-04	-2.69E-04	-4.62E-10	0.00829	562973.	-8.61E-04	1358277.	0.00
18.8000	4.91E-11	3.46E-04	-3.88E-04	-3.27E-10	0.00688	562973.	-3.33E-04	1358277.	0.00
19.0000	-3.96E-12	2.61E-04	-4.19E-04	-2.19E-10	0.00520	562973.	2.69E-05	1358277.	0.00
19.2000	-3.84E-11	1.78E-04	-3.90E-04	-1.41E-10	0.00355	562973.	2.61E-04	1358277.	0.00
19.4000	-6.03E-11	1.05E-04	-3.23E-04	-9.03E-11	0.00210	562973.	4.09E-04	1358277.	0.00

19.6000	-7.46E-11	4.91E-05	-2.31E-04	-6.29E-11	9.77E-04	562973.	5.06E-04	1358277.	0.00
19.8000	-8.54E-11	1.29E-05	-1.23E-04	-5.19E-11	2.58E-04	562973.	5.80E-04	1358277.	0.00
20.0000	-9.53E-11	0.00	0.00	-4.96E-11	0.00	562973.	6.47E-04	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 3:

Pile-head deflection = 0.00118369 meters
Computed slope at pile head = -0.00056604 radians
Maximum bending moment = 108.50002156 kN-m
Maximum shear force = 100.00000000 kN
Depth of maximum bending moment = 1.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 9
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 4

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 125.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00163	-6.10E-12	125.0000	-7.51E-04	1.21E-10	562973.	0.00	0.00	0.00
0.2000	0.00148	25.0000	120.9869	-7.47E-04	497.3592	562973.	-40.1311	5429.	0.00
0.4000	0.00133	48.3948	111.5778	-7.34E-04	962.7830	562973.	-53.9596	8115.	0.00
0.6000	0.00118	69.6311	100.0140	-7.13E-04	1385.	562973.	-61.6781	10411.	0.00
0.8000	0.00104	88.4004	87.0454	-6.85E-04	1759.	562973.	-68.0079	13019.	0.00
1.0000	9.11E-04	104.4493	72.9520	-6.51E-04	2078.	562973.	-72.9260	16011.	0.00
1.2000	7.85E-04	117.5812	58.0172	-6.11E-04	2339.	562973.	-76.4226	19482.	0.00
1.4000	6.67E-04	127.6562	42.5250	-5.68E-04	2540.	562973.	-78.4995	23556.	0.00
1.6000	5.58E-04	134.5912	26.7582	-5.21E-04	2678.	562973.	-79.1683	28400.	0.00

1.8000	4.58E-04	138.3595	10.9966	-4.72E-04	2753.	562973.	-78.4474	34248.	0.00
2.0000	3.69E-04	138.9898	-4.4837	-4.23E-04	2765.	562973.	-76.3558	41438.	0.00
2.2000	2.89E-04	136.5660	-19.4097	-3.74E-04	2717.	562973.	-72.9046	50484.	0.00
2.4000	2.19E-04	131.2259	-33.5081	-3.27E-04	2611.	562973.	-68.0793	62224.	0.00
2.6000	1.58E-04	123.1627	-41.5777	-2.82E-04	2450.	562973.	-12.6170	15957.	0.00
2.8000	1.06E-04	114.5948	-43.9899	-2.39E-04	2280.	562973.	-11.5041	21663.	0.00
3.0000	6.24E-05	105.5668	-46.1422	-2.00E-04	2100.	562973.	-10.0195	32102.	0.00
3.2000	2.61E-05	96.1379	-47.9231	-1.64E-04	1913.	562973.	-7.7892	59603.	0.00
3.4000	-3.32E-06	86.3975	-48.3035	-1.32E-04	1719.	562973.	3.9847	240107.	0.00
3.6000	-2.66E-05	76.8165	-47.0674	-1.03E-04	1528.	562973.	8.3764	62894.	0.00
3.8000	-4.45E-05	67.5706	-45.2012	-7.73E-05	1344.	562973.	10.2856	46232.	0.00
4.0000	-5.76E-05	58.7360	-43.0148	-5.49E-05	1169.	562973.	11.5790	40237.	0.00
4.2000	-6.64E-05	50.3647	-40.6033	-3.55E-05	1002.	562973.	12.5354	37735.	0.00
4.4000	-7.17E-05	42.4947	-38.0239	-1.90E-05	845.4053	562973.	13.2589	36961.	0.00
4.6000	-7.40E-05	35.1551	-35.3180	-5.19E-06	699.3885	562973.	13.8004	37282.	0.00
4.8000	-7.38E-05	28.3675	-32.5190	6.09E-06	564.3537	562973.	14.1889	38440.	0.00
5.0000	-7.16E-05	22.1475	-29.6559	1.51E-05	440.6101	562973.	14.4422	40343.	0.00
5.2000	-6.78E-05	16.5051	-26.7545	2.19E-05	328.3592	562973.	14.5722	42988.	0.00
5.4000	-6.28E-05	11.4457	-23.8386	2.69E-05	227.7045	562973.	14.5872	46438.	0.00
5.6000	-5.70E-05	6.9697	-20.9305	3.02E-05	138.6579	562973.	14.4933	50819.	0.00
5.8000	-5.08E-05	3.0735	-18.0517	3.19E-05	61.1447	562973.	14.2949	56325.	0.00
6.0000	-4.43E-05	-0.2510	-15.2227	3.25E-05	4.9929	562973.	13.9954	63243.	0.00
6.2000	-3.78E-05	-3.0156	-12.4634	3.19E-05	59.9934	562973.	13.5973	71985.	0.00
6.4000	-3.15E-05	-5.2363	-9.7935	3.04E-05	104.1735	562973.	13.1022	83160.	0.00
6.6000	-2.56E-05	-6.9330	-7.2321	2.82E-05	137.9272	562973.	12.5109	97681.	0.00
6.8000	-2.02E-05	-8.1292	-4.7988	2.56E-05	161.7250	562973.	11.8229	116980.	0.00
7.0000	-1.54E-05	-8.8525	-2.5130	2.26E-05	176.1145	562973.	11.0351	143419.	0.00
7.2000	-1.12E-05	-9.1344	-0.3954	1.94E-05	181.7225	562973.	10.1404	181196.	0.00
7.4000	-7.65E-06	-9.0106	1.6468	1.61E-05	179.2611	562973.	10.2813	268935.	0.00
7.6000	-4.74E-06	-8.4757	3.5522	1.30E-05	168.6180	562973.	8.7727	370210.	0.00
7.8000	-2.43E-06	-7.5898	5.1333	1.02E-05	150.9938	562973.	7.0390	578168.	0.00
8.0000	-6.70E-07	-6.4223	6.2994	7.68E-06	127.7682	562973.	4.6219	1380144.	0.00
8.2000	6.39E-07	-5.0700	6.3185	5.64E-06	100.8646	562973.	-4.4315	1386878.	0.00
8.4000	1.59E-06	-3.8949	5.2702	4.05E-06	77.4875	562973.	-6.0508	762223.	0.00
8.6000	2.26E-06	-2.9619	3.9834	2.83E-06	58.9255	562973.	-6.8179	603481.	0.00
8.8000	2.72E-06	-2.3016	2.5756	1.90E-06	45.7889	562973.	-7.2593	533585.	0.00
9.0000	3.02E-06	-1.9317	1.7785	1.15E-06	38.4292	562973.	-0.7122	47187.	0.00
9.2000	3.18E-06	-1.5902	1.6306	5.21E-07	31.6362	562973.	-0.7668	48235.	0.00
9.4000	3.23E-06	-1.2794	1.4744	1.10E-08	25.4534	562973.	-0.7952	49284.	0.00
9.6000	3.18E-06	-1.0005	1.3147	-3.94E-07	19.9034	562973.	-0.8013	50332.	0.00
9.8000	3.07E-06	-0.7535	1.1558	-7.06E-07	14.9910	562973.	-0.7886	51381.	0.00
10.0000	2.90E-06	-0.5382	1.0008	-9.35E-07	10.7062	562973.	-0.7607	52430.	0.00
10.2000	2.70E-06	-0.3532	0.8527	-1.09E-06	7.0267	562973.	-0.7208	53478.	0.00
10.4000	2.46E-06	-0.1971	0.7134	-1.19E-06	3.9207	562973.	-0.6719	54527.	0.00

10.6000	2.22E-06	-0.06783	0.5846	-1.24E-06	1.3494	562973.	-0.6166	55575.	0.00
10.8000	1.97E-06	0.03676	0.4672	-1.24E-06	0.7313	562973.	-0.5575	56624.	0.00
11.0000	1.72E-06	0.1190	0.3618	-1.22E-06	2.3683	562973.	-0.4965	57673.	0.00
11.2000	1.48E-06	0.1815	0.2686	-1.16E-06	3.6102	562973.	-0.4353	58721.	0.00
11.4000	1.26E-06	0.2265	0.1875	-1.09E-06	4.5057	562973.	-0.3755	59770.	0.00
11.6000	1.05E-06	0.2565	0.1181	-1.00E-06	5.1024	562973.	-0.3183	60818.	0.00
11.8000	8.55E-07	0.2737	0.05986	-9.10E-07	5.4458	562973.	-0.2644	61867.	0.00
12.0000	6.83E-07	0.2804	0.01195	-8.12E-07	5.5788	562973.	-0.2147	62916.	0.00
12.2000	5.30E-07	0.2785	-0.02648	-7.12E-07	5.5409	562973.	-0.1696	63964.	0.00
12.4000	3.98E-07	0.2698	-0.05636	-6.15E-07	5.3681	562973.	-0.1292	65013.	0.00
12.6000	2.84E-07	0.2560	-0.07867	-5.22E-07	5.0924	562973.	-0.09386	66061.	0.00
12.8000	1.89E-07	0.2384	-0.09439	-4.34E-07	4.7421	562973.	-0.06339	67110.	0.00
13.0000	1.11E-07	0.2182	-0.1045	-3.53E-07	4.3413	562973.	-0.03770	68159.	0.00
13.2000	4.78E-08	0.1966	-0.1099	-2.79E-07	3.9105	562973.	-0.01655	69207.	0.00
13.4000	-9.99E-10	0.1742	-0.1115	-2.13E-07	3.4665	562973.	3.51E-04	70256.	0.00
13.6000	-3.74E-08	0.1519	-0.1102	-1.55E-07	3.0228	562973.	0.01335	71304.	0.00
13.8000	-6.31E-08	0.1302	-0.1066	-1.05E-07	2.5897	562973.	0.02283	72353.	0.00
14.0000	-7.95E-08	0.1093	-0.1014	-6.26E-08	2.1748	562973.	0.02918	73402.	0.00
14.2000	-8.81E-08	0.08963	-0.09516	-2.73E-08	1.7831	562973.	0.03281	74450.	0.00
14.4000	-9.04E-08	0.07125	-0.08847	1.32E-09	1.4176	562973.	0.03413	75499.	0.00
14.6000	-8.76E-08	0.05424	-0.08170	2.36E-08	1.0792	562973.	0.03353	76547.	0.00
14.8000	-8.10E-08	0.03857	-0.07521	4.01E-08	0.7674	562973.	0.03141	77596.	0.00
15.0000	-7.16E-08	0.02416	-0.06925	5.12E-08	0.4807	562973.	0.02814	78644.	0.00
15.2000	-6.05E-08	0.01087	-0.06403	5.75E-08	0.2163	562973.	0.02409	79693.	0.00
15.4000	-4.86E-08	-0.00145	-0.05966	5.91E-08	0.02882	562973.	0.01961	80742.	0.00
15.6000	-3.68E-08	-0.01299	-0.05619	5.66E-08	0.2584	562973.	0.01505	81790.	0.00
15.8000	-2.60E-08	-0.02392	-0.03706	5.00E-08	0.4760	562973.	0.1763	1358277.	0.00
16.0000	-1.68E-08	-0.02781	-0.00802	4.08E-08	0.5533	562973.	0.1141	1358277.	0.00
16.2000	-9.62E-09	-0.02713	0.00992	3.11E-08	0.5398	562973.	0.06535	1358277.	0.00
16.4000	-4.37E-09	-0.02384	0.01943	2.20E-08	0.4743	562973.	0.02969	1358277.	0.00
16.6000	-8.16E-10	-0.01936	0.02295	1.43E-08	0.3852	562973.	0.00554	1358277.	0.00
16.8000	1.36E-09	-0.01466	0.02258	8.30E-09	0.2917	562973.	-0.00927	1358277.	0.00
17.0000	2.50E-09	-0.01033	0.01995	3.86E-09	0.2056	562973.	-0.01700	1358277.	0.00
17.2000	2.91E-09	-0.00668	0.01628	8.34E-10	0.1330	562973.	-0.01974	1358277.	0.00
17.4000	2.84E-09	-0.00382	0.01237	-1.03E-09	0.07605	562973.	-0.01926	1358277.	0.00
17.6000	2.49E-09	-0.00173	0.00875	-2.02E-09	0.03448	562973.	-0.01694	1358277.	0.00
17.8000	2.03E-09	-3.21E-04	0.00568	-2.38E-09	0.00639	562973.	-0.01378	1358277.	0.00
18.0000	1.54E-09	5.40E-04	0.00326	-2.35E-09	0.01074	562973.	-0.01046	1358277.	0.00
18.2000	1.09E-09	9.82E-04	0.00147	-2.07E-09	0.01954	562973.	-0.00741	1358277.	0.00
18.4000	7.11E-10	0.00113	2.47E-04	-1.70E-09	0.02244	562973.	-0.00483	1358277.	0.00
18.6000	4.11E-10	0.00108	-5.15E-04	-1.31E-09	0.02151	562973.	-0.00279	1358277.	0.00
18.8000	1.88E-10	9.22E-04	-9.21E-04	-9.52E-10	0.01835	562973.	-0.00128	1358277.	0.00
19.0000	3.03E-11	7.13E-04	-0.00107	-6.61E-10	0.01418	562973.	-2.06E-04	1358277.	0.00
19.2000	-7.66E-11	4.95E-04	-0.00104	-4.47E-10	0.00984	562973.	5.20E-04	1358277.	0.00

19.4000	-1.48E-10	2.97E-04	-8.85E-04	-3.06E-10	0.00592	562973.	0.00101	1358277.	0.00
19.6000	-1.99E-10	1.41E-04	-6.49E-04	-2.28E-10	0.00280	562973.	0.00135	1358277.	0.00
19.8000	-2.40E-10	3.77E-05	-3.51E-04	-1.97E-10	7.50E-04	562973.	0.00163	1358277.	0.00
20.0000	-2.78E-10	0.00	0.00	-1.90E-10	0.00	562973.	0.00189	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 4:

Pile-head deflection = 0.00162868 meters
Computed slope at pile head = -0.00075133 radians
Maximum bending moment = 138.98982756 kN-m
Maximum shear force = 125.00000000 kN
Depth of maximum bending moment = 2.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 11
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 5

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 150.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00213	1.83E-11	150.0000	-9.51E-04	3.64E-10	562973.	0.00	0.00	0.00
0.2000	0.00194	30.0000	144.9378	-9.46E-04	596.8310	562973.	-50.6217	5210.	0.00
0.4000	0.00176	57.9751	133.6769	-9.30E-04	1153.	562973.	-61.9879	7064.	0.00
0.6000	0.00157	83.4707	120.3758	-9.05E-04	1661.	562973.	-71.0231	9041.	0.00
0.8000	0.00139	106.1254	105.4205	-8.71E-04	2111.	562973.	-78.5297	11275.	0.00
1.0000	0.00122	125.6389	89.1192	-8.30E-04	2500.	562973.	-84.4827	13821.	0.00
1.2000	0.00106	141.7731	71.7839	-7.83E-04	2820.	562973.	-88.8710	16753.	0.00
1.4000	9.09E-04	154.3525	53.7271	-7.30E-04	3071.	562973.	-91.6963	20166.	0.00

1.6000	7.69E-04	163.2640	35.2604	-6.74E-04	3248.	562973.	-92.9714	24184.	0.00
1.8000	6.40E-04	168.4566	16.6915	-6.15E-04	3351.	562973.	-92.7170	28978.	0.00
2.0000	5.23E-04	169.9406	-1.6759	-5.55E-04	3381.	562973.	-90.9570	34787.	0.00
2.2000	4.18E-04	167.7863	-19.5426	-4.95E-04	3338.	562973.	-87.7101	41963.	0.00
2.4000	3.25E-04	162.1236	-36.6112	-4.36E-04	3225.	562973.	-82.9758	51054.	0.00
2.6000	2.44E-04	153.1418	-46.3659	-3.80E-04	3047.	562973.	-14.5712	11964.	0.00
2.8000	1.73E-04	143.5772	-49.1765	-3.27E-04	2856.	562973.	-13.5354	15648.	0.00
3.0000	1.13E-04	133.4712	-51.7497	-2.78E-04	2655.	562973.	-12.1960	21658.	0.00
3.2000	6.17E-05	122.8774	-54.0058	-2.33E-04	2445.	562973.	-10.3651	33586.	0.00
3.4000	1.96E-05	111.8689	-55.7768	-1.91E-04	2226.	562973.	-7.3455	75123.	0.00
3.6000	-1.47E-05	100.5666	-55.8273	-1.53E-04	2001.	562973.	6.8405	93300.	0.00
3.8000	-4.17E-05	89.5380	-54.1372	-1.19E-04	1781.	562973.	10.0609	48211.	0.00
4.0000	-6.24E-05	78.9117	-51.9417	-8.95E-05	1570.	562973.	11.8939	38091.	0.00
4.2000	-7.76E-05	68.7613	-49.4328	-6.33E-05	1368.	562973.	13.1955	34029.	0.00
4.4000	-8.78E-05	59.1386	-46.6954	-4.06E-05	1177.	562973.	14.1781	32306.	0.00
4.6000	-9.38E-05	50.0831	-43.7846	-2.12E-05	996.3719	562973.	14.9305	31837.	0.00
4.8000	-9.63E-05	41.6248	-40.7416	-4.90E-06	828.0993	562973.	15.4988	32205.	0.00
5.0000	-9.58E-05	33.7865	-37.6008	8.49E-06	672.1602	562973.	15.9100	33231.	0.00
5.2000	-9.29E-05	26.5845	-34.3916	1.92E-05	528.8819	562973.	16.1812	34853.	0.00
5.4000	-8.81E-05	20.0298	-31.1411	2.75E-05	398.4802	562973.	16.3240	37072.	0.00
5.6000	-8.19E-05	14.1281	-27.8741	3.36E-05	281.0688	562973.	16.3464	39939.	0.00
5.8000	-7.46E-05	8.8802	-24.6140	3.76E-05	176.6653	562973.	16.2543	43553.	0.00
6.0000	-6.68E-05	4.2825	-21.3834	4.00E-05	85.1967	562973.	16.0521	48062.	0.00
6.2000	-5.86E-05	0.3268	-18.2039	4.08E-05	6.5018	562973.	15.7428	53687.	0.00
6.4000	-5.05E-05	-2.9991	-15.0967	4.03E-05	59.6652	562973.	15.3288	60739.	0.00
6.6000	-4.25E-05	-5.7119	-12.0827	3.88E-05	113.6340	562973.	14.8113	69677.	0.00
6.8000	-3.50E-05	-7.8322	-9.1825	3.64E-05	155.8164	562973.	14.1903	81179.	0.00
7.0000	-2.80E-05	-9.3849	-6.4171	3.33E-05	186.7064	562973.	13.4644	96302.	0.00
7.2000	-2.16E-05	-10.3990	-3.8077	2.98E-05	206.8819	562973.	12.6292	116764.	0.00
7.4000	-1.60E-05	-10.9080	-1.2290	2.60E-05	217.0073	562973.	13.1584	164067.	0.00
7.6000	-1.12E-05	-10.8906	1.2557	2.21E-05	216.6616	562973.	11.6878	208275.	0.00
7.8000	-7.18E-06	-10.4057	3.4325	1.84E-05	207.0151	562973.	10.0805	280779.	0.00
8.0000	-3.88E-06	-9.5176	5.2632	1.48E-05	189.3468	562973.	8.2263	424397.	0.00
8.2000	-1.25E-06	-8.3004	6.6554	1.17E-05	165.1322	562973.	5.6958	911888.	0.00
8.4000	7.88E-07	-6.8555	6.7539	8.97E-06	136.3850	562973.	-4.7106	1194883.	0.00
8.6000	2.34E-06	-5.5989	5.5959	6.76E-06	111.3864	562973.	-6.8692	587347.	0.00
8.8000	3.49E-06	-4.6171	4.1218	4.94E-06	91.8542	562973.	-7.8715	450845.	0.00
9.0000	4.32E-06	-3.9502	3.2329	3.42E-06	78.5858	562973.	-1.0184	47187.	0.00
9.2000	4.86E-06	-3.3240	3.0138	2.13E-06	66.1280	562973.	-1.1723	48235.	0.00
9.4000	5.17E-06	-2.7446	2.7692	1.05E-06	54.6030	562973.	-1.2737	49284.	0.00
9.6000	5.28E-06	-2.2163	2.5089	1.71E-07	44.0915	562973.	-1.3292	50332.	0.00
9.8000	5.24E-06	-1.7411	2.2414	-5.32E-07	34.6378	562973.	-1.3454	51381.	0.00
10.0000	5.07E-06	-1.3197	1.9740	-1.08E-06	26.2546	562973.	-1.3288	52430.	0.00
10.2000	4.81E-06	-0.9515	1.7126	-1.48E-06	18.9289	562973.	-1.2853	53478.	0.00

10.4000	4.48E-06	-0.6347	1.4620	-1.76E-06	12.6260	562973.	-1.2206	54527.	0.00
10.6000	4.10E-06	-0.3667	1.2260	-1.94E-06	7.2943	562973.	-1.1399	55575.	0.00
10.8000	3.70E-06	-0.1443	1.0072	-2.03E-06	2.8698	562973.	-1.0480	56624.	0.00
11.0000	3.29E-06	0.03623	0.8075	-2.05E-06	0.7207	562973.	-0.9488	57673.	0.00
11.2000	2.88E-06	0.1788	0.6280	-2.01E-06	3.5562	562973.	-0.8462	58721.	0.00
11.4000	2.49E-06	0.2874	0.4691	-1.93E-06	5.7183	562973.	-0.7430	59770.	0.00
11.6000	2.11E-06	0.3664	0.3306	-1.81E-06	7.2892	562973.	-0.6419	60818.	0.00
11.8000	1.76E-06	0.4197	0.2119	-1.67E-06	8.3492	562973.	-0.5449	61867.	0.00
12.0000	1.44E-06	0.4512	0.1121	-1.52E-06	8.9756	562973.	-0.4537	62916.	0.00
12.2000	1.15E-06	0.4645	0.02977	-1.35E-06	9.2410	562973.	-0.3693	63964.	0.00
12.4000	9.00E-07	0.4631	-0.03642	-1.19E-06	9.2125	562973.	-0.2926	65013.	0.00
12.6000	6.79E-07	0.4499	-0.08811	-1.03E-06	8.9512	562973.	-0.2242	66061.	0.00
12.8000	4.89E-07	0.4278	-0.1269	-8.72E-07	8.5114	562973.	-0.1641	67110.	0.00
13.0000	3.30E-07	0.3992	-0.1546	-7.25E-07	7.9410	562973.	-0.1125	68159.	0.00
13.2000	1.99E-07	0.3660	-0.1727	-5.89E-07	7.2811	562973.	-0.06894	69207.	0.00
13.4000	9.44E-08	0.3301	-0.1830	-4.65E-07	6.5664	562973.	-0.03317	70256.	0.00
13.6000	1.31E-08	0.2928	-0.1867	-3.55E-07	5.8252	562973.	-0.00467	71304.	0.00
13.8000	-4.74E-08	0.2554	-0.1855	-2.57E-07	5.0803	562973.	0.01716	72353.	0.00
14.0000	-8.98E-08	0.2186	-0.1805	-1.73E-07	4.3491	562973.	0.03297	73402.	0.00
14.2000	-1.17E-07	0.1832	-0.1728	-1.02E-07	3.6442	562973.	0.04344	74450.	0.00
14.4000	-1.31E-07	0.1495	-0.1636	-4.27E-08	2.9738	562973.	0.04928	75499.	0.00
14.6000	-1.34E-07	0.1178	-0.1535	4.79E-09	2.3426	562973.	0.05120	76547.	0.00
14.8000	-1.29E-07	0.08807	-0.1434	4.13E-08	1.7521	562973.	0.04991	77596.	0.00
15.0000	-1.17E-07	0.06039	-0.1338	6.77E-08	1.2014	562973.	0.04610	78644.	0.00
15.2000	-1.02E-07	0.03455	-0.1251	8.46E-08	0.6873	562973.	0.04046	79693.	0.00
15.4000	-8.34E-08	0.01033	-0.1177	9.26E-08	0.2055	562973.	0.03367	80742.	0.00
15.6000	-6.45E-08	-0.01254	-0.1117	9.22E-08	0.2496	562973.	0.02639	81790.	0.00
15.8000	-4.65E-08	-0.03436	-0.07749	8.38E-08	0.6836	562973.	0.3160	1358277.	0.00
16.0000	-3.10E-08	-0.04354	-0.02484	7.00E-08	0.8662	562973.	0.2104	1358277.	0.00
16.2000	-1.85E-08	-0.04430	0.00879	5.44E-08	0.8813	562973.	0.1259	1358277.	0.00
16.4000	-9.23E-09	-0.04002	0.02765	3.94E-08	0.7963	562973.	0.06270	1358277.	0.00
16.6000	-2.77E-09	-0.03324	0.03580	2.64E-08	0.6613	562973.	0.01883	1358277.	0.00
16.8000	1.33E-09	-0.02570	0.03678	1.59E-08	0.5114	562973.	-0.00901	1358277.	0.00
17.0000	3.60E-09	-0.01853	0.03344	8.07E-09	0.3686	562973.	-0.02443	1358277.	0.00
17.2000	4.55E-09	-0.01233	0.02790	2.59E-09	0.2453	562973.	-0.03092	1358277.	0.00
17.4000	4.63E-09	-0.00737	0.02166	-9.11E-10	0.1465	562973.	-0.03146	1358277.	0.00
17.6000	4.19E-09	-0.00366	0.01567	-2.87E-09	0.07287	562973.	-0.02845	1358277.	0.00
17.8000	3.48E-09	-0.00110	0.01046	-3.72E-09	0.02183	562973.	-0.02367	1358277.	0.00
18.0000	2.70E-09	5.22E-04	0.00626	-3.82E-09	0.01038	562973.	-0.01836	1358277.	0.00
18.2000	1.96E-09	0.00141	0.00309	-3.48E-09	0.02798	562973.	-0.01330	1358277.	0.00
18.4000	1.31E-09	0.00176	8.73E-04	-2.91E-09	0.03500	562973.	-0.00892	1358277.	0.00
18.6000	7.93E-10	0.00176	-5.57E-04	-2.29E-09	0.03493	562973.	-0.00538	1358277.	0.00
18.8000	3.97E-10	0.00154	-0.00137	-1.70E-09	0.03057	562973.	-0.00270	1358277.	0.00
19.0000	1.11E-10	0.00121	-0.00171	-1.22E-09	0.02406	562973.	-7.55E-04	1358277.	0.00

19.2000	-8.91E-11	8.52E-04	-0.00173	-8.50E-10	0.01695	562973.	6.05E-04	1358277.	0.00
19.4000	-2.29E-10	5.19E-04	-0.00151	-6.06E-10	0.01033	562973.	0.00155	1358277.	0.00
19.6000	-3.32E-10	2.48E-04	-0.00113	-4.70E-10	0.00494	562973.	0.00225	1358277.	0.00
19.8000	-4.17E-10	6.75E-05	-6.21E-04	-4.14E-10	0.00134	562973.	0.00283	1358277.	0.00
20.0000	-4.97E-10	0.00	0.00	-4.02E-10	0.00	562973.	0.00338	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 5:

Pile-head deflection = 0.00213341 meters
Computed slope at pile head = -0.00095118 radians
Maximum bending moment = 169.94060096 kN-m
Maximum shear force = 150.00000000 kN
Depth of maximum bending moment = 2.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 12
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 6

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 200.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00338	7.32E-11	200.0000	-0.00141	1.46E-09	562973.	0.00	0.00	0.00
0.2000	0.00309	40.0000	194.2558	-0.00141	795.7747	562973.	-57.4420	3714.	0.00
0.4000	0.00281	77.7023	181.0288	-0.00139	1546.	562973.	-74.8281	5319.	0.00
0.6000	0.00254	112.4115	164.5925	-0.00135	2236.	562973.	-89.5349	7053.	0.00
0.8000	0.00227	143.5393	145.6091	-0.00131	2856.	562973.	-100.2987	8827.	0.00
1.0000	0.00202	170.6552	124.7298	-0.00125	3395.	562973.	-108.4948	10761.	0.00
1.2000	0.00177	193.4312	102.3943	-0.00119	3848.	562973.	-114.8600	12961.	0.00

1.4000	0.00154	211.6129	78.9686	-0.00111	4210.	562973.	-119.3969	15485.	0.00
1.6000	0.00133	225.0187	54.8168	-0.00104	4477.	562973.	-122.1212	18408.	0.00
1.8000	0.00113	233.5396	30.2987	-9.55E-04	4646.	562973.	-123.0598	21829.	0.00
2.0000	9.45E-04	237.1381	5.7681	-8.71E-04	4718.	562973.	-122.2460	25877.	0.00
2.2000	7.79E-04	235.8468	-18.4278	-7.87E-04	4692.	562973.	-119.7135	30736.	0.00
2.4000	6.30E-04	229.7670	-41.9478	-7.05E-04	4571.	562973.	-115.4858	36669.	0.00
2.6000	4.97E-04	219.0677	-55.3440	-6.25E-04	4358.	562973.	-18.4770	7434.	0.00
2.8000	3.80E-04	207.6294	-58.9503	-5.49E-04	4131.	562973.	-17.5860	9258.	0.00
3.0000	2.77E-04	195.4876	-62.3551	-4.77E-04	3889.	562973.	-16.4614	11865.	0.00
3.2000	1.89E-04	182.6874	-65.5043	-4.10E-04	3634.	562973.	-15.0313	15913.	0.00
3.4000	1.13E-04	169.2859	-68.3217	-3.48E-04	3368.	562973.	-13.1423	23190.	0.00
3.6000	4.98E-05	155.3587	-70.6707	-2.90E-04	3091.	562973.	-10.3477	41557.	0.00
3.8000	-2.71E-06	141.0176	-71.3064	-2.37E-04	2805.	562973.	3.9911	294634.	0.00
4.0000	-4.52E-05	126.8361	-69.8390	-1.90E-04	2523.	562973.	10.6820	47267.	0.00
4.2000	-7.87E-05	113.0820	-67.4444	-1.47E-04	2250.	562973.	13.2641	33718.	0.00
4.4000	-1.04E-04	99.8584	-64.6166	-1.09E-04	1987.	562973.	15.0141	28841.	0.00
4.6000	-1.22E-04	87.2353	-61.4828	-7.62E-05	1735.	562973.	16.3245	26660.	0.00
4.8000	-1.35E-04	75.2652	-58.1165	-4.74E-05	1497.	562973.	17.3379	25759.	0.00
5.0000	-1.41E-04	63.9887	-54.5704	-2.26E-05	1273.	562973.	18.1236	25632.	0.00
5.2000	-1.44E-04	53.4371	-50.8860	-1.78E-06	1063.	562973.	18.7205	26060.	0.00
5.4000	-1.42E-04	43.6343	-47.0987	1.55E-05	868.0773	562973.	19.1525	26951.	0.00
5.6000	-1.37E-04	34.5976	-43.2399	2.94E-05	688.2982	562973.	19.4353	28272.	0.00
5.8000	-1.30E-04	26.3384	-39.3384	4.02E-05	523.9852	562973.	19.5799	30033.	0.00
6.0000	-1.21E-04	18.8623	-35.4210	4.82E-05	375.2534	562973.	19.5937	32275.	0.00
6.2000	-1.11E-04	12.1700	-31.5134	5.37E-05	242.1138	562973.	19.4825	35071.	0.00
6.4000	-9.99E-05	6.2569	-27.6401	5.70E-05	124.4778	562973.	19.2500	38528.	0.00
6.6000	-8.83E-05	1.1139	-23.8252	5.83E-05	22.1605	562973.	18.8990	42803.	0.00
6.8000	-7.66E-05	-3.2732	-20.0922	5.79E-05	65.1173	562973.	18.4312	48119.	0.00
7.0000	-6.51E-05	-6.9230	-16.4644	5.61E-05	137.7282	562973.	17.8468	54796.	0.00
7.2000	-5.42E-05	-9.8589	-12.9653	5.31E-05	196.1370	562973.	17.1448	63308.	0.00
7.4000	-4.39E-05	-12.1091	-9.4113	4.92E-05	240.9025	562973.	18.3950	83828.	0.00
7.6000	-3.45E-05	-13.6234	-5.8744	4.47E-05	271.0296	562973.	16.9743	98479.	0.00
7.8000	-2.60E-05	-14.4588	-2.6311	3.97E-05	287.6491	562973.	15.4586	118793.	0.00
8.0000	-1.86E-05	-14.6759	0.2974	3.45E-05	291.9670	562973.	13.8259	148615.	0.00
8.2000	-1.22E-05	-14.3399	2.8826	2.93E-05	285.2826	562973.	12.0263	196676.	0.00
8.4000	-6.87E-06	-13.5228	5.0786	2.44E-05	269.0280	562973.	9.9332	289111.	0.00
8.6000	-2.47E-06	-12.3084	6.7812	1.98E-05	244.8687	562973.	7.0934	573337.	0.00
8.8000	1.05E-06	-10.8103	6.9679	1.57E-05	215.0648	562973.	-5.2265	997236.	0.00
9.0000	3.80E-06	-9.5213	6.3555	1.21E-05	189.4199	562973.	-0.8972	47187.	0.00
9.2000	5.88E-06	-8.2681	6.1240	8.92E-06	164.4890	562973.	-1.4183	48235.	0.00
9.4000	7.37E-06	-7.0717	5.8005	6.20E-06	140.6867	562973.	-1.8164	49284.	0.00
9.6000	8.36E-06	-5.9479	5.4085	3.88E-06	118.3300	562973.	-2.1038	50332.	0.00
9.8000	8.92E-06	-4.9083	4.9688	1.96E-06	97.6473	562973.	-2.2929	51381.	0.00
10.0000	9.14E-06	-3.9604	4.4999	3.80E-07	78.7893	562973.	-2.3965	52430.	0.00

10.2000	9.08E-06	-3.1083	4.0175	-8.75E-07	61.8383	562973.	-2.4271	53478.	0.00
10.4000	8.79E-06	-2.3534	3.5351	-1.85E-06	46.8188	562973.	-2.3969	54527.	0.00
10.6000	8.34E-06	-1.6943	3.0637	-2.56E-06	33.7067	562973.	-2.3172	55575.	0.00
10.8000	7.77E-06	-1.1279	2.6121	-3.07E-06	22.4386	562973.	-2.1987	56624.	0.00
11.0000	7.11E-06	-0.6494	2.1871	-3.38E-06	12.9201	562973.	-2.0511	57673.	0.00
11.2000	6.41E-06	-0.2530	1.7937	-3.54E-06	5.0338	562973.	-1.8830	58721.	0.00
11.4000	5.70E-06	0.06806	1.4352	-3.57E-06	1.3540	562973.	-1.7023	59770.	0.00
11.6000	4.98E-06	0.3211	1.1134	-3.51E-06	6.3872	562973.	-1.5155	60818.	0.00
11.8000	4.29E-06	0.5134	0.8291	-3.36E-06	10.2144	562973.	-1.3283	61867.	0.00
12.0000	3.64E-06	0.6527	0.5817	-3.15E-06	12.9846	562973.	-1.1453	62916.	0.00
12.2000	3.03E-06	0.7461	0.3701	-2.90E-06	14.8434	562973.	-0.9703	63964.	0.00
12.4000	2.48E-06	0.8007	0.1925	-2.63E-06	15.9300	562973.	-0.8062	65013.	0.00
12.6000	1.98E-06	0.8231	0.04636	-2.34E-06	16.3751	562973.	-0.6551	66061.	0.00
12.8000	1.54E-06	0.8193	-0.07099	-2.05E-06	16.2989	562973.	-0.5184	67110.	0.00
13.0000	1.16E-06	0.7947	-0.1625	-1.76E-06	15.8102	562973.	-0.3969	68159.	0.00
13.2000	8.41E-07	0.7543	-0.2313	-1.48E-06	15.0057	562973.	-0.2910	69207.	0.00
13.4000	5.71E-07	0.7022	-0.2804	-1.23E-06	13.9697	562973.	-0.2005	70256.	0.00
13.6000	3.50E-07	0.6421	-0.3130	-9.87E-07	12.7741	562973.	-0.1249	71304.	0.00
13.8000	1.76E-07	0.5770	-0.3318	-7.71E-07	11.4791	562973.	-0.06358	72353.	0.00
14.0000	4.21E-08	0.5094	-0.3397	-5.78E-07	10.1335	562973.	-0.01545	73402.	0.00
14.2000	-5.54E-08	0.4411	-0.3392	-4.09E-07	8.7756	562973.	0.02061	74450.	0.00
14.4000	-1.21E-07	0.3737	-0.3326	-2.64E-07	7.4341	562973.	0.04586	75499.	0.00
14.6000	-1.61E-07	0.3081	-0.3218	-1.43E-07	6.1291	562973.	0.06164	76547.	0.00
14.8000	-1.79E-07	0.2450	-0.3087	-4.49E-08	4.8732	562973.	0.06934	77596.	0.00
15.0000	-1.79E-07	0.1846	-0.2947	3.14E-08	3.6724	562973.	0.07038	78644.	0.00
15.2000	-1.66E-07	0.1271	-0.2811	8.68E-08	2.5276	562973.	0.06621	79693.	0.00
15.4000	-1.44E-07	0.07216	-0.2686	1.22E-07	1.4356	562973.	0.05825	80742.	0.00
15.6000	-1.17E-07	0.01959	-0.2580	1.38E-07	0.3898	562973.	0.04796	81790.	0.00
15.8000	-8.89E-08	-0.03105	-0.1929	1.36E-07	0.6177	562973.	0.6037	1358277.	0.00
16.0000	-6.27E-08	-0.05755	-0.08988	1.21E-07	1.1448	562973.	0.4259	1358277.	0.00
16.2000	-4.06E-08	-0.06700	-0.01970	9.86E-08	1.3330	562973.	0.2759	1358277.	0.00
16.4000	-2.33E-08	-0.06543	0.02371	7.50E-08	1.3016	562973.	0.1582	1358277.	0.00
16.6000	-1.06E-08	-0.05752	0.04673	5.32E-08	1.1444	562973.	0.07204	1358277.	0.00
16.8000	-2.01E-09	-0.04674	0.05530	3.47E-08	0.9298	562973.	0.01365	1358277.	0.00
17.0000	3.27E-09	-0.03540	0.05444	2.01E-08	0.7043	562973.	-0.02219	1358277.	0.00
17.2000	6.03E-09	-0.02496	0.04813	9.37E-09	0.4965	562973.	-0.04094	1358277.	0.00
17.4000	7.02E-09	-0.01615	0.03927	2.07E-09	0.3213	562973.	-0.04764	1358277.	0.00
17.6000	6.86E-09	-0.00925	0.02985	-2.44E-09	0.1840	562973.	-0.04656	1358277.	0.00
17.8000	6.04E-09	-0.00421	0.02109	-4.83E-09	0.08377	562973.	-0.04101	1358277.	0.00
18.0000	4.92E-09	-8.12E-04	0.01365	-5.73E-09	0.01615	562973.	-0.03343	1358277.	0.00
18.2000	3.75E-09	0.00125	0.00776	-5.65E-09	0.02486	562973.	-0.02546	1358277.	0.00
18.4000	2.66E-09	0.00229	0.00341	-5.02E-09	0.04562	562973.	-0.01809	1358277.	0.00
18.6000	1.74E-09	0.00261	4.17E-04	-4.15E-09	0.05198	562973.	-0.01182	1358277.	0.00
18.8000	1.00E-09	0.00246	-0.00145	-3.25E-09	0.04894	562973.	-0.00682	1358277.	0.00

19.0000	4.43E-10	0.00203	-0.00243	-2.45E-09	0.04046	562973.	-0.00301	1358277.	0.00
19.2000	2.53E-11	0.00149	-0.00275	-1.82E-09	0.02960	562973.	-1.72E-04	1358277.	0.00
19.4000	-2.86E-10	9.35E-04	-0.00257	-1.39E-09	0.01860	562973.	0.00194	1358277.	0.00
19.6000	-5.32E-10	4.60E-04	-0.00202	-1.14E-09	0.00914	562973.	0.00361	1358277.	0.00
19.8000	-7.44E-10	1.29E-04	-0.00115	-1.04E-09	0.00256	562973.	0.00505	1358277.	0.00
20.0000	-9.47E-10	0.00	0.00	-1.02E-09	0.00	562973.	0.00643	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 6:

Pile-head deflection = 0.00337596 meters
Computed slope at pile head = -0.00141364 radians
Maximum bending moment = 237.13813618 kN-m
Maximum shear force = 200.00000000 kN
Depth of maximum bending moment = 2.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 15
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 7

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 300.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00689	8.55E-11	300.0000	-0.00259	1.70E-09	562973.	0.00	0.00	0.00
0.2000	0.00637	60.0000	294.0793	-0.00258	1194.	562973.	-59.2072	1859.	0.00
0.4000	0.00586	117.6317	279.5093	-0.00255	2340.	562973.	-86.4928	2954.	0.00
0.6000	0.00535	171.8037	259.8042	-0.00250	3418.	562973.	-110.5585	4132.	0.00
0.8000	0.00486	221.5534	235.5837	-0.00243	4408.	562973.	-131.6458	5419.	0.00
1.0000	0.00438	266.0372	207.4348	-0.00234	5293.	562973.	-149.8437	6841.	0.00

1.2000	0.00392	304.5273	175.9351	-0.00224	6058.	562973.	-165.1531	8420.	0.00
1.4000	0.00349	336.4112	141.6729	-0.00212	6693.	562973.	-177.4683	10182.	0.00
1.6000	0.00307	361.1965	105.3407	-0.00200	7186.	562973.	-185.8538	12096.	0.00
1.8000	0.00269	378.5475	67.7622	-0.00187	7531.	562973.	-189.9312	14143.	0.00
2.0000	0.00233	388.3014	29.5902	-0.00173	7725.	562973.	-191.7896	16493.	0.00
2.2000	0.00199	390.3836	-8.7368	-0.00159	7766.	562973.	-191.4795	19216.	0.00
2.4000	0.00169	384.8067	-46.7896	-0.00146	7655.	562973.	-189.0490	22399.	0.00
2.6000	0.00141	371.6678	-68.3101	-0.00132	7394.	562973.	-26.1559	3709.	0.00
2.8000	0.00116	357.4826	-73.4762	-0.00119	7112.	562973.	-25.5049	4400.	0.00
3.0000	9.33E-04	342.2773	-78.4929	-0.00107	6809.	562973.	-24.6625	5284.	0.00
3.2000	7.32E-04	326.0854	-83.3196	-9.49E-04	6487.	562973.	-23.6043	6450.	0.00
3.4000	5.54E-04	308.9494	-87.9093	-8.37E-04	6146.	562973.	-22.2922	8053.	0.00
3.6000	3.97E-04	290.9217	-92.2046	-7.30E-04	5788.	562973.	-20.6612	10402.	0.00
3.8000	2.62E-04	272.0676	-96.1295	-6.30E-04	5413.	562973.	-18.5875	14213.	0.00
4.0000	1.45E-04	252.4699	-99.5664	-5.37E-04	5023.	562973.	-15.7819	21737.	0.00
4.2000	4.68E-05	232.2410	-102.2619	-4.51E-04	4620.	562973.	-11.1736	47767.	0.00
4.4000	-3.51E-05	211.5652	-102.3354	-3.72E-04	4209.	562973.	10.4387	59418.	0.00
4.6000	-1.02E-04	191.3069	-99.7560	-3.00E-04	3806.	562973.	15.3555	30102.	0.00
4.8000	-1.55E-04	171.6628	-96.4023	-2.36E-04	3415.	562973.	18.1819	23412.	0.00
5.0000	-1.96E-04	152.7459	-92.5622	-1.78E-04	3039.	562973.	20.2191	20588.	0.00
5.2000	-2.27E-04	134.6379	-88.3611	-1.27E-04	2679.	562973.	21.7914	19228.	0.00
5.4000	-2.47E-04	117.4015	-83.8784	-8.25E-05	2336.	562973.	23.0355	18626.	0.00
5.6000	-2.60E-04	101.0865	-79.1726	-4.37E-05	2011.	562973.	24.0225	18501.	0.00
5.8000	-2.65E-04	85.7325	-74.2909	-1.06E-05	1706.	562973.	24.7945	18724.	0.00
6.0000	-2.64E-04	71.3702	-69.2736	1.74E-05	1420.	562973.	25.3786	19233.	0.00
6.2000	-2.58E-04	58.0230	-64.1565	4.03E-05	1154.	562973.	25.7931	20003.	0.00
6.4000	-2.48E-04	45.7076	-58.9720	5.88E-05	909.3233	562973.	26.0513	21029.	0.00
6.6000	-2.34E-04	34.4342	-53.7506	7.30E-05	685.0466	562973.	26.1631	22324.	0.00
6.8000	-2.19E-04	24.2073	-48.5206	8.34E-05	481.5898	562973.	26.1364	23916.	0.00
7.0000	-2.01E-04	15.0259	-43.3092	9.04E-05	298.9317	562973.	25.9774	25845.	0.00
7.2000	-1.82E-04	6.8836	-38.1423	9.43E-05	136.9458	562973.	25.6917	28169.	0.00
7.4000	-1.63E-04	-0.2310	-32.7237	9.55E-05	4.5953	562973.	28.4950	34896.	0.00
7.6000	-1.44E-04	-6.2058	-27.1403	9.43E-05	123.4607	562973.	27.3388	37910.	0.00
7.8000	-1.26E-04	-11.0871	-21.7958	9.12E-05	220.5707	562973.	26.1062	41574.	0.00
8.0000	-1.08E-04	-14.9241	-16.7046	8.66E-05	296.9059	562973.	24.8052	46049.	0.00
8.2000	-9.09E-05	-17.7689	-11.8798	8.08E-05	353.5018	562973.	23.4428	51557.	0.00
8.4000	-7.54E-05	-19.6760	-7.3331	7.42E-05	391.4425	562973.	22.0240	58413.	0.00
8.6000	-6.13E-05	-20.7022	-3.0756	6.70E-05	411.8570	562973.	20.5517	67081.	0.00
8.8000	-4.86E-05	-20.9063	0.8821	5.96E-05	415.9170	562973.	19.0253	78276.	0.00
9.0000	-3.74E-05	-20.3493	3.6678	5.23E-05	404.8372	562973.	8.8318	47187.	0.00
9.2000	-2.77E-05	-19.4391	5.2191	4.52E-05	386.7292	562973.	6.6810	48235.	0.00
9.4000	-1.94E-05	-18.2617	6.3641	3.85E-05	363.3047	562973.	4.7685	49284.	0.00
9.6000	-1.23E-05	-16.8935	7.1504	3.23E-05	336.0855	562973.	3.0950	50332.	0.00
9.8000	-6.45E-06	-15.4015	7.6255	2.65E-05	306.4034	562973.	1.6559	51381.	0.00

10.0000	-1.69E-06	-13.8433	7.8353	2.13E-05	275.4035	562973.	0.4423	52430.	0.00
10.2000	2.09E-06	-12.2674	7.8237	1.67E-05	244.0517	562973.	-0.5582	53478.	0.00
10.4000	4.99E-06	-10.7138	7.6319	1.26E-05	213.1442	562973.	-1.3607	54527.	0.00
10.6000	7.13E-06	-9.2146	7.2976	9.07E-06	183.3194	562973.	-1.9820	55575.	0.00
10.8000	8.62E-06	-7.7948	6.8553	6.05E-06	155.0719	562973.	-2.4405	56624.	0.00
11.0000	9.55E-06	-6.4725	6.3358	3.52E-06	128.7665	562973.	-2.7549	57673.	0.00
11.2000	1.00E-05	-5.2604	5.7659	1.43E-06	104.6533	562973.	-2.9440	58721.	0.00
11.4000	1.01E-05	-4.1661	5.1689	-2.41E-07	82.8829	562973.	-3.0264	59770.	0.00
11.6000	9.93E-06	-3.1929	4.5642	-1.55E-06	63.5208	562973.	-3.0198	60818.	0.00
11.8000	9.51E-06	-2.3405	3.9682	-2.53E-06	46.5619	562973.	-2.9410	61867.	0.00
12.0000	8.92E-06	-1.6056	3.3935	-3.23E-06	31.9432	562973.	-2.8054	62916.	0.00
12.2000	8.21E-06	-0.9830	2.8503	-3.69E-06	19.5571	562973.	-2.6272	63964.	0.00
12.4000	7.44E-06	-0.4655	2.3456	-3.95E-06	9.2617	562973.	-2.4189	65013.	0.00
12.6000	6.63E-06	-0.04479	1.8846	-4.04E-06	0.8911	562973.	-2.1916	66061.	0.00
12.8000	5.83E-06	0.2883	1.4700	-4.00E-06	5.7355	562973.	-1.9547	67110.	0.00
13.0000	5.04E-06	0.5432	1.1029	-3.85E-06	10.8065	562973.	-1.7163	68159.	0.00
13.2000	4.29E-06	0.7294	0.7829	-3.62E-06	14.5118	562973.	-1.4830	69207.	0.00
13.4000	3.59E-06	0.8564	0.5086	-3.34E-06	17.0369	562973.	-1.2601	70256.	0.00
13.6000	2.95E-06	0.9329	0.2775	-3.02E-06	18.5593	562973.	-1.0515	71304.	0.00
13.8000	2.38E-06	0.9674	0.08630	-2.69E-06	19.2449	562973.	-0.8602	72353.	0.00
14.0000	1.87E-06	0.9674	-0.06853	-2.34E-06	19.2461	562973.	-0.6881	73402.	0.00
14.2000	1.44E-06	0.9399	-0.1910	-2.00E-06	18.6996	562973.	-0.5364	74450.	0.00
14.4000	1.07E-06	0.8910	-0.2851	-1.68E-06	17.7263	562973.	-0.4053	75499.	0.00
14.6000	7.70E-07	0.8259	-0.3551	-1.37E-06	16.4305	562973.	-0.2946	76547.	0.00
14.8000	5.24E-07	0.7490	-0.4049	-1.09E-06	14.9004	562973.	-0.2034	77596.	0.00
15.0000	3.32E-07	0.6639	-0.4383	-8.42E-07	13.2083	562973.	-0.1306	78644.	0.00
15.2000	1.87E-07	0.5736	-0.4588	-6.23E-07	11.4123	562973.	-0.07463	79693.	0.00
15.4000	8.32E-08	0.4804	-0.4697	-4.35E-07	9.5569	562973.	-0.03357	80742.	0.00
15.6000	1.31E-08	0.3858	-0.4736	-2.82E-07	7.6748	562973.	-0.00537	81790.	0.00
15.8000	-2.95E-08	0.2910	-0.4541	-1.61E-07	5.7884	562973.	0.2002	1358277.	0.00
16.0000	-5.14E-08	0.2041	-0.3992	-7.34E-08	4.0613	562973.	0.3491	1358277.	0.00
16.2000	-5.88E-08	0.1313	-0.3243	-1.38E-08	2.6121	562973.	0.3996	1358277.	0.00
16.4000	-5.69E-08	0.07443	-0.2456	2.27E-08	1.4808	562973.	0.3867	1358277.	0.00
16.6000	-4.98E-08	0.03304	-0.1732	4.18E-08	0.6572	562973.	0.3379	1358277.	0.00
16.8000	-4.02E-08	0.00516	-0.1121	4.86E-08	0.1026	562973.	0.2732	1358277.	0.00
17.0000	-3.03E-08	-0.01179	-0.06417	4.74E-08	0.2346	562973.	0.2059	1358277.	0.00
17.2000	-2.13E-08	-0.02051	-0.02913	4.17E-08	0.4080	562973.	0.1444	1358277.	0.00
17.4000	-1.37E-08	-0.02345	-0.00542	3.39E-08	0.4665	562973.	0.09275	1358277.	0.00
17.6000	-7.72E-09	-0.02268	0.00910	2.57E-08	0.4511	562973.	0.05242	1358277.	0.00
17.8000	-3.39E-09	-0.01981	0.01664	1.81E-08	0.3940	562973.	0.02303	1358277.	0.00
18.0000	-4.70E-10	-0.01602	0.01927	1.18E-08	0.3187	562973.	0.00319	1358277.	0.00
18.2000	1.31E-09	-0.01210	0.01869	6.76E-09	0.2407	562973.	-0.00891	1358277.	0.00
18.4000	2.23E-09	-0.00854	0.01629	3.10E-09	0.1699	562973.	-0.01517	1358277.	0.00
18.6000	2.55E-09	-0.00559	0.01304	5.86E-10	0.1111	562973.	-0.01732	1358277.	0.00

18.8000	2.47E-09	-0.00332	0.00963	-9.97E-10	0.06615	562973.	-0.01677	1358277.	0.00
19.0000	2.15E-09	-0.00173	0.00649	-1.90E-09	0.03451	562973.	-0.01461	1358277.	0.00
19.2000	1.71E-09	-7.29E-04	0.00387	-2.33E-09	0.01449	562973.	-0.01162	1358277.	0.00
19.4000	1.22E-09	-1.87E-04	0.00188	-2.50E-09	0.00373	562973.	-0.00827	1358277.	0.00
19.6000	7.12E-10	2.30E-05	5.68E-04	-2.52E-09	4.58E-04	562973.	-0.00484	1358277.	0.00
19.8000	2.08E-10	3.98E-05	-5.75E-05	-2.51E-09	7.92E-04	562973.	-0.00141	1358277.	0.00
20.0000	-2.93E-10	0.00	0.00	-2.51E-09	0.00	562973.	0.00199	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 7:

Pile-head deflection = 0.00688799 meters
Computed slope at pile head = -0.00258923 radians
Maximum bending moment = 390.38359829 kN-m
Maximum shear force = 300.00000000 kN
Depth of maximum bending moment = 2.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 19
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 8

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 400.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.01318	-7.32E-11	400.0000	-0.00437	1.46E-09	562973.	0.00	0.00	0.00
0.2000	0.01231	80.0000	395.7997	-0.00436	1592.	562973.	-42.0025	682.4209	0.00
0.4000	0.01144	158.3199	384.0190	-0.00431	3150.	562973.	-75.8055	1325.	0.00
0.6000	0.01058	233.6076	365.2000	-0.00424	4647.	562973.	-112.3838	2124.	0.00
0.8000	0.00974	304.3999	339.4484	-0.00415	6056.	562973.	-145.1325	2979.	0.00

1.0000	0.00892	369.3869	307.4985	-0.00403	7349.	562973.	-174.3662	3908.	0.00
1.2000	0.00813	427.3993	270.0359	-0.00389	8503.	562973.	-200.2604	4925.	0.00
1.4000	0.00737	477.4013	227.7176	-0.00373	9498.	562973.	-222.9221	6050.	0.00
1.6000	0.00664	518.4864	181.1832	-0.00355	10315.	562973.	-242.4220	7301.	0.00
1.8000	0.00595	549.8746	131.0602	-0.00336	10939.	562973.	-258.8078	8700.	0.00
2.0000	0.00530	570.9105	77.9689	-0.00316	11358.	562973.	-272.1059	10274.	0.00
2.2000	0.00469	581.0621	22.5272	-0.00296	11560.	562973.	-282.3107	12051.	0.00
2.4000	0.00411	579.9213	-34.6328	-0.00275	11537.	562973.	-289.2894	14062.	0.00
2.6000	0.00359	567.2090	-67.1312	-0.00255	11284.	562973.	-35.6944	1991.	0.00
2.8000	0.00310	553.0688	-74.2391	-0.00235	11003.	562973.	-35.3841	2286.	0.00
3.0000	0.00265	537.5133	-81.2677	-0.00215	10693.	562973.	-34.9019	2638.	0.00
3.2000	0.00223	520.5618	-88.1817	-0.00197	10356.	562973.	-34.2386	3065.	0.00
3.4000	0.00186	502.2407	-94.9438	-0.00178	9992.	562973.	-33.3820	3590.	0.00
3.6000	0.00152	482.5843	-101.5135	-0.00161	9601.	562973.	-32.3154	4250.	0.00
3.8000	0.00122	461.6352	-107.8465	-0.00144	9184.	562973.	-31.0144	5102.	0.00
4.0000	9.44E-04	439.4457	-113.8922	-0.00128	8742.	562973.	-29.4428	6238.	0.00
4.2000	7.03E-04	416.0783	-119.5907	-0.00113	8278.	562973.	-27.5416	7832.	0.00
4.4000	4.92E-04	391.6094	-124.8656	-9.86E-04	7791.	562973.	-25.2071	10244.	0.00
4.6000	3.09E-04	366.1321	-129.6091	-8.51E-04	7284.	562973.	-22.2279	14394.	0.00
4.8000	1.52E-04	339.7658	-133.6362	-7.26E-04	6759.	562973.	-18.0439	23812.	0.00
5.0000	1.84E-05	312.6776	-136.3607	-6.10E-04	6221.	562973.	-9.2008	100009.	0.00
5.2000	-9.25E-05	285.2215	-135.6644	-5.04E-04	5674.	562973.	16.1640	34936.	0.00
5.4000	-1.83E-04	258.4119	-131.9637	-4.07E-04	5141.	562973.	20.8429	22754.	0.00
5.6000	-2.56E-04	232.4360	-127.4899	-3.20E-04	4624.	562973.	23.8949	18703.	0.00
5.8000	-3.11E-04	207.4159	-122.4835	-2.42E-04	4126.	562973.	26.1693	16812.	0.00
6.0000	-3.52E-04	183.4426	-117.0718	-1.73E-04	3649.	562973.	27.9481	15863.	0.00
6.2000	-3.80E-04	160.5872	-111.3407	-1.12E-04	3195.	562973.	29.3630	15438.	0.00
6.4000	-3.97E-04	138.9063	-105.3557	-5.84E-05	2763.	562973.	30.4871	15359.	0.00
6.6000	-4.04E-04	118.4449	-99.1704	-1.27E-05	2356.	562973.	31.3653	15537.	0.00
6.8000	-4.02E-04	99.2381	-92.8311	2.60E-05	1974.	562973.	32.0276	15931.	0.00
7.0000	-3.93E-04	81.3125	-86.3789	5.81E-05	1618.	562973.	32.4947	16522.	0.00
7.2000	-3.79E-04	64.6866	-79.8512	8.40E-05	1287.	562973.	32.7822	17306.	0.00
7.4000	-3.60E-04	49.3720	-72.8650	1.04E-04	982.2243	562973.	37.0799	20614.	0.00
7.6000	-3.37E-04	35.5406	-65.5284	1.19E-04	707.0573	562973.	36.2865	21525.	0.00
7.8000	-3.12E-04	23.1606	-58.3635	1.30E-04	460.7662	562973.	35.3618	22666.	0.00
8.0000	-2.85E-04	12.1952	-51.3954	1.36E-04	242.6151	562973.	34.3200	24063.	0.00
8.2000	-2.58E-04	2.6025	-44.6460	1.39E-04	51.7750	562973.	33.1737	25755.	0.00
8.4000	-2.30E-04	-5.6632	-38.1353	1.38E-04	112.6664	562973.	31.9336	27794.	0.00
8.6000	-2.02E-04	-12.6516	-31.8810	1.35E-04	251.6958	562973.	30.6091	30252.	0.00
8.8000	-1.76E-04	-18.4156	-25.8992	1.29E-04	366.3673	562973.	29.2087	33223.	0.00
9.0000	-1.51E-04	-23.0113	-19.4247	1.22E-04	457.7952	562973.	35.5362	47187.	0.00
9.2000	-1.27E-04	-26.1855	-12.8072	1.13E-04	520.9442	562973.	30.6386	48235.	0.00
9.4000	-1.05E-04	-28.1342	-7.1481	1.04E-04	559.7119	562973.	25.9523	49284.	0.00
9.6000	-8.56E-05	-29.0448	-2.3988	9.34E-05	577.8274	562973.	21.5412	50332.	0.00

9.8000	-6.79E-05	-29.0937	1.5007	8.31E-05	578.8009	562973.	17.4535	51381.	0.00
10.0000	-5.23E-05	-28.4445	4.6183	7.29E-05	565.8854	562973.	13.7226	52430.	0.00
10.2000	-3.88E-05	-27.2464	7.0274	6.30E-05	542.0498	562973.	10.3685	53478.	0.00
10.4000	-2.71E-05	-25.6335	8.8042	5.36E-05	509.9632	562973.	7.4000	54527.	0.00
10.6000	-1.73E-05	-23.7247	10.0258	4.48E-05	471.9879	562973.	4.8155	55575.	0.00
10.8000	-9.20E-06	-21.6232	10.7679	3.68E-05	430.1806	562973.	2.6054	56624.	0.00
11.0000	-2.61E-06	-19.4175	11.1037	2.95E-05	386.2998	562973.	0.7532	57673.	0.00
11.2000	2.60E-06	-17.1817	11.1027	2.30E-05	341.8198	562973.	-0.7632	58721.	0.00
11.4000	6.59E-06	-14.9765	10.8295	1.73E-05	297.9471	562973.	-1.9693	59770.	0.00
11.6000	9.52E-06	-12.8499	10.3432	1.23E-05	255.6414	562973.	-2.8937	60818.	0.00
11.8000	1.15E-05	-10.8392	9.6972	8.14E-06	215.6385	562973.	-3.5663	61867.	0.00
12.0000	1.28E-05	-8.9711	8.9388	4.62E-06	178.4737	562973.	-4.0178	62916.	0.00
12.2000	1.34E-05	-7.2637	8.1091	1.74E-06	144.5061	562973.	-4.2785	63964.	0.00
12.4000	1.35E-05	-5.7274	7.2435	-5.69E-07	113.9432	562973.	-4.3778	65013.	0.00
12.6000	1.32E-05	-4.3663	6.3714	-2.36E-06	86.8640	562973.	-4.3436	66061.	0.00
12.8000	1.25E-05	-3.1789	5.5168	-3.70E-06	63.2414	562973.	-4.2019	67110.	0.00
13.0000	1.17E-05	-2.1595	4.6990	-4.65E-06	42.9625	562973.	-3.9767	68159.	0.00
13.2000	1.07E-05	-1.2993	3.9323	-5.27E-06	25.8482	562973.	-3.6895	69207.	0.00
13.4000	9.56E-06	-0.5866	3.2275	-5.60E-06	11.6699	562973.	-3.3593	70256.	0.00
13.6000	8.42E-06	-0.00828	2.5913	-5.71E-06	0.1648	562973.	-3.0027	71304.	0.00
13.8000	7.28E-06	0.4499	2.0276	-5.63E-06	8.9509	562973.	-2.6339	72353.	0.00
14.0000	6.17E-06	0.8028	1.5378	-5.40E-06	15.9706	562973.	-2.2648	73402.	0.00
14.2000	5.12E-06	1.0650	1.1207	-5.07E-06	21.1880	562973.	-1.9054	74450.	0.00
14.4000	4.14E-06	1.2511	0.7738	-4.66E-06	24.8891	562973.	-1.5635	75499.	0.00
14.6000	3.25E-06	1.3746	0.4929	-4.20E-06	27.3460	562973.	-1.2454	76547.	0.00
14.8000	2.46E-06	1.4482	0.2728	-3.69E-06	28.8118	562973.	-0.9559	77596.	0.00
15.0000	1.78E-06	1.4837	0.1074	-3.17E-06	29.5169	562973.	-0.6985	78644.	0.00
15.2000	1.19E-06	1.4912	-0.01008	-2.64E-06	29.6662	562973.	-0.4760	79693.	0.00
15.4000	7.19E-07	1.4797	-0.08668	-2.12E-06	29.4367	562973.	-0.2901	80742.	0.00
15.6000	3.48E-07	1.4565	-0.1299	-1.60E-06	28.9764	562973.	-0.1422	81790.	0.00
15.8000	8.04E-08	1.4277	-0.9185	-1.08E-06	28.4029	562973.	-7.7438	1.93E+07	0.00
16.0000	-8.56E-08	1.0891	-1.6348	-6.36E-07	21.6671	562973.	0.5811	1358277.	0.00
16.2000	-1.74E-07	0.7738	-1.4585	-3.05E-07	15.3937	562973.	1.1823	1358277.	0.00
16.4000	-2.08E-07	0.5057	-1.1992	-7.79E-08	10.0610	562973.	1.4101	1358277.	0.00
16.6000	-2.05E-07	0.2941	-0.9188	6.42E-08	5.8505	562973.	1.3939	1358277.	0.00
16.8000	-1.82E-07	0.1382	-0.6559	1.41E-07	2.7492	562973.	1.2358	1358277.	0.00
17.0000	-1.49E-07	0.03174	-0.4312	1.71E-07	0.6314	562973.	1.0110	1358277.	0.00
17.2000	-1.14E-07	-0.03428	-0.2530	1.71E-07	0.6820	562973.	0.7709	1358277.	0.00
17.4000	-8.06E-08	-0.06946	-0.1212	1.52E-07	1.3818	562973.	0.5474	1358277.	0.00
17.6000	-5.26E-08	-0.08274	-0.03069	1.25E-07	1.6461	562973.	0.3573	1358277.	0.00
17.8000	-3.05E-08	-0.08173	0.02577	9.60E-08	1.6260	562973.	0.2072	1358277.	0.00
18.0000	-1.42E-08	-0.07243	0.05615	6.86E-08	1.4410	562973.	0.09655	1358277.	0.00
18.2000	-3.07E-09	-0.05927	0.06788	4.52E-08	1.1792	562973.	0.02083	1358277.	0.00
18.4000	3.87E-09	-0.04528	0.06734	2.66E-08	0.9008	562973.	-0.02629	1358277.	0.00

18.6000	7.59E-09	-0.03234	0.05955	1.29E-08	0.6434	562973.	-0.05156	1358277.	0.00
18.8000	9.02E-09	-0.02146	0.04827	3.30E-09	0.4269	562973.	-0.06123	1358277.	0.00
19.0000	8.91E-09	-0.01303	0.03610	-2.82E-09	0.2592	562973.	-0.06054	1358277.	0.00
19.2000	7.89E-09	-0.00702	0.02469	-6.38E-09	0.1397	562973.	-0.05356	1358277.	0.00
19.4000	6.36E-09	-0.00315	0.01501	-8.19E-09	0.06277	562973.	-0.04319	1358277.	0.00
19.6000	4.61E-09	-0.00102	0.00756	-8.93E-09	0.02022	562973.	-0.03130	1358277.	0.00
19.8000	2.79E-09	-1.30E-04	0.00254	-9.14E-09	0.00258	562973.	-0.01892	1358277.	0.00
20.0000	9.54E-10	0.00	0.00	-9.16E-09	0.00	562973.	-0.00648	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 8:

Pile-head deflection = 0.01318397 meters
Computed slope at pile head = -0.00437059 radians
Maximum bending moment = 581.06210410 kN-m
Maximum shear force = 400.00000000 kN
Depth of maximum bending moment = 2.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 30
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 9

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 450.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.01946	-8.30E-10	450.0000	-0.00586	1.65E-08	562973.	0.00	0.00	0.00
0.2000	0.01829	90.0000	446.9653	-0.00584	1790.	562973.	-30.3466	331.8918	0.00
0.4000	0.01712	178.7861	437.8887	-0.00580	3557.	562973.	-60.4194	705.7717	0.00
0.6000	0.01597	265.1555	422.3129	-0.00572	5275.	562973.	-95.3390	1194.	0.00

0.8000	0.01483	347.7113	399.3800	-0.00561	6917.	562973.	-133.9896	1806.	0.00
1.0000	0.01373	424.9075	368.7557	-0.00547	8453.	562973.	-172.2535	2510.	0.00
1.2000	0.01265	495.2136	330.8525	-0.00531	9852.	562973.	-206.7783	3270.	0.00
1.4000	0.01160	557.2485	286.3981	-0.00512	11086.	562973.	-237.7665	4099.	0.00
1.6000	0.01060	609.7728	236.0852	-0.00491	12131.	562973.	-265.3620	5008.	0.00
1.8000	0.00964	651.6826	180.5814	-0.00469	12965.	562973.	-289.6763	6012.	0.00
2.0000	0.00872	682.0054	120.5336	-0.00445	13568.	562973.	-310.8016	7126.	0.00
2.2000	0.00786	699.8960	56.5720	-0.00421	13924.	562973.	-328.8145	8371.	0.00
2.4000	0.00704	704.6341	-10.6719	-0.00396	14018.	562973.	-343.6239	9762.	0.00
2.6000	0.00627	695.6273	-49.3355	-0.00371	13839.	562973.	-43.0128	1371.	0.00
2.8000	0.00556	684.8999	-57.9368	-0.00346	13626.	562973.	-43.0003	1548.	0.00
3.0000	0.00489	672.4526	-66.5193	-0.00322	13378.	562973.	-42.8242	1752.	0.00
3.2000	0.00427	658.2922	-75.0497	-0.00299	13096.	562973.	-42.4797	1991.	0.00
3.4000	0.00369	642.4327	-83.4938	-0.00275	12781.	562973.	-41.9610	2272.	0.00
3.6000	0.00317	624.8947	-91.8159	-0.00253	12432.	562973.	-41.2608	2607.	0.00
3.8000	0.00268	605.7063	-99.9790	-0.00231	12050.	562973.	-40.3697	3011.	0.00
4.0000	0.00224	584.9031	-107.9435	-0.00210	11636.	562973.	-39.2755	3505.	0.00
4.2000	0.00184	562.5289	-115.6672	-0.00190	11191.	562973.	-37.9613	4122.	0.00
4.4000	0.00148	538.6362	-123.1037	-0.00170	10716.	562973.	-36.4032	4911.	0.00
4.6000	0.00116	513.2874	-130.2005	-0.00151	10212.	562973.	-34.5654	5951.	0.00
4.8000	8.77E-04	486.5560	-136.8962	-0.00134	9680.	562973.	-32.3915	7385.	0.00
5.0000	6.27E-04	458.5289	-143.1139	-0.00117	9122.	562973.	-29.7852	9496.	0.00
5.2000	4.10E-04	429.3105	-148.7484	-0.00101	8541.	562973.	-26.5596	12954.	0.00
5.4000	2.23E-04	399.0296	-153.6312	-8.63E-04	7938.	562973.	-22.2684	19948.	0.00
5.6000	6.48E-05	367.8580	-157.3712	-7.27E-04	7318.	562973.	-15.1324	46693.	0.00
5.8000	-6.75E-05	336.0811	-157.3127	-6.02E-04	6686.	562973.	15.7175	46578.	0.00
6.0000	-1.76E-04	304.9329	-153.5240	-4.88E-04	6066.	562973.	22.1703	25206.	0.00
6.2000	-2.63E-04	274.6715	-148.7116	-3.85E-04	5464.	562973.	25.9533	19761.	0.00
6.4000	-3.30E-04	245.4483	-143.2500	-2.93E-04	4883.	562973.	28.6630	17376.	0.00
6.6000	-3.80E-04	217.3715	-137.3106	-2.10E-04	4324.	562973.	30.7307	16186.	0.00
6.8000	-4.14E-04	190.5240	-131.0032	-1.38E-04	3790.	562973.	32.3436	15622.	0.00
7.0000	-4.35E-04	164.9703	-124.4087	-7.48E-05	3282.	562973.	33.6013	15452.	0.00
7.2000	-4.44E-04	140.7606	-117.5922	-2.05E-05	2800.	562973.	34.5634	15569.	0.00
7.4000	-4.43E-04	117.9334	-110.1611	2.54E-05	2346.	562973.	39.7476	17940.	0.00
7.6000	-4.34E-04	96.6961	-102.2395	6.36E-05	1924.	562973.	39.4684	18195.	0.00
7.8000	-4.18E-04	77.0376	-94.3954	9.44E-05	1533.	562973.	38.9726	18661.	0.00
8.0000	-3.96E-04	58.9380	-86.6693	1.19E-04	1173.	562973.	38.2883	19334.	0.00
8.2000	-3.70E-04	42.3699	-79.0967	1.37E-04	842.9217	562973.	37.4380	20223.	0.00
8.4000	-3.41E-04	27.2993	-71.7088	1.49E-04	543.1021	562973.	36.4404	21345.	0.00
8.6000	-3.11E-04	13.6863	-64.5337	1.56E-04	272.2808	562973.	35.3116	22732.	0.00
8.8000	-2.79E-04	1.4858	-57.5959	1.59E-04	29.5596	562973.	34.0660	24425.	0.00
9.0000	-2.47E-04	-9.3520	-48.3591	1.58E-04	186.0527	562973.	58.3018	47187.	0.00
9.2000	-2.16E-04	-17.8578	-37.3210	1.53E-04	355.2699	562973.	52.0793	48235.	0.00
9.4000	-1.86E-04	-24.2804	-27.5288	1.45E-04	483.0438	562973.	45.8424	49284.	0.00

9.6000	-1.58E-04	-28.8693	-18.9720	1.36E-04	574.3374	562973.	39.7262	50332.	0.00
9.8000	-1.32E-04	-31.8692	-11.6152	1.25E-04	634.0178	562973.	33.8415	51381.	0.00
10.0000	-1.08E-04	-33.5154	-5.4034	1.13E-04	666.7681	562973.	28.2764	52430.	0.00
10.2000	-8.64E-05	-34.0306	-0.2660	1.01E-04	677.0167	562973.	23.0978	53478.	0.00
10.4000	-6.73E-05	-33.6218	3.8791	8.93E-05	668.8847	562973.	18.3531	54527.	0.00
10.6000	-5.06E-05	-32.4789	7.1217	7.76E-05	646.1478	562973.	14.0724	55575.	0.00
10.8000	-3.63E-05	-30.7732	9.5559	6.64E-05	612.2124	562973.	10.2701	56624.	0.00
11.0000	-2.41E-05	-28.6566	11.2777	5.58E-05	570.1043	562973.	6.9477	57673.	0.00
11.2000	-1.39E-05	-26.2621	12.3820	4.61E-05	522.4674	562973.	4.0954	58721.	0.00
11.4000	-5.67E-06	-23.7038	12.9610	3.72E-05	471.5715	562973.	1.6943	59770.	0.00
11.6000	9.26E-07	-21.0777	13.1022	2.92E-05	419.3273	562973.	-0.2815	60818.	0.00
11.8000	6.02E-06	-18.4629	12.8878	2.22E-05	367.3071	562973.	-1.8631	61867.	0.00
12.0000	9.81E-06	-15.9226	12.3929	1.61E-05	316.7696	562973.	-3.0855	62916.	0.00
12.2000	1.25E-05	-13.5057	11.6858	1.09E-05	268.6874	562973.	-3.9858	63964.	0.00
12.4000	1.42E-05	-11.2483	10.8270	6.48E-06	223.7771	562973.	-4.6020	65013.	0.00
12.6000	1.51E-05	-9.1749	9.8696	2.85E-06	182.5289	562973.	-4.9720	66061.	0.00
12.8000	1.53E-05	-7.3004	8.8591	-7.91E-08	145.2374	562973.	-5.1327	67110.	0.00
13.0000	1.50E-05	-5.6313	7.8339	-2.38E-06	112.0303	562973.	-5.1191	68159.	0.00
13.2000	1.43E-05	-4.1668	6.8256	-4.12E-06	82.8968	562973.	-4.9642	69207.	0.00
13.4000	1.34E-05	-2.9010	5.8594	-5.37E-06	57.7138	562973.	-4.6982	70256.	0.00
13.6000	1.22E-05	-1.8231	4.9547	-6.21E-06	36.2694	562973.	-4.3485	71304.	0.00
13.8000	1.09E-05	-0.9191	4.1259	-6.70E-06	18.2854	562973.	-3.9396	72353.	0.00
14.0000	9.52E-06	-0.1727	3.3826	-6.89E-06	3.4366	562973.	-3.4931	73402.	0.00
14.2000	8.13E-06	0.4339	2.7306	-6.85E-06	8.6326	562973.	-3.0276	74450.	0.00
14.4000	6.78E-06	0.9195	2.1719	-6.61E-06	18.2925	562973.	-2.5592	75499.	0.00
14.6000	5.49E-06	1.3027	1.7058	-6.21E-06	25.9158	562973.	-2.1016	76547.	0.00
14.8000	4.30E-06	1.6018	1.3290	-5.69E-06	31.8667	562973.	-1.6664	77596.	0.00
15.0000	3.21E-06	1.8343	1.0360	-5.08E-06	36.4915	562973.	-1.2635	78644.	0.00
15.2000	2.26E-06	2.0162	0.8195	-4.40E-06	40.1109	562973.	-0.9011	79693.	0.00
15.4000	1.45E-06	2.1621	0.6708	-3.66E-06	43.0132	562973.	-0.5866	80742.	0.00
15.6000	7.98E-07	2.2845	0.5795	-2.87E-06	45.4487	562973.	-0.3264	81790.	0.00
15.8000	3.06E-07	2.3939	-0.9799	-2.04E-06	47.6244	562973.	-15.2674	9992015.	0.00
16.0000	-1.68E-08	1.8925	-2.4952	-1.28E-06	37.6508	562973.	0.1144	1358277.	0.00
16.2000	-2.05E-07	1.3958	-2.3447	-6.92E-07	27.7683	562973.	1.3910	1358277.	0.00
16.4000	-2.94E-07	0.9547	-2.0061	-2.74E-07	18.9926	562973.	1.9941	1358277.	0.00
16.6000	-3.15E-07	0.5933	-1.5931	5.38E-10	11.8039	562973.	2.1365	1358277.	0.00
16.8000	-2.93E-07	0.3174	-1.1802	1.62E-07	6.3154	562973.	1.9927	1358277.	0.00
17.0000	-2.50E-07	0.1213	-0.8113	2.40E-07	2.4126	562973.	1.6956	1358277.	0.00
17.2000	-1.97E-07	-0.00708	-0.5078	2.61E-07	0.1409	562973.	1.3400	1358277.	0.00
17.4000	-1.45E-07	-0.08184	-0.2750	2.45E-07	1.6281	562973.	0.9879	1358277.	0.00
17.6000	-9.94E-08	-0.1171	-0.1087	2.09E-07	2.3291	562973.	0.6752	1358277.	0.00
17.8000	-6.17E-08	-0.1253	7.54E-04	1.66E-07	2.4928	562973.	0.4190	1358277.	0.00
18.0000	-3.29E-08	-0.1168	0.06499	1.23E-07	2.3231	562973.	0.2233	1358277.	0.00
18.2000	-1.24E-08	-0.09931	0.09571	8.50E-08	1.9757	562973.	0.08394	1358277.	0.00

18.4000	1.11E-09	-0.07849	0.1034	5.34E-08	1.5615	562973.	-0.00751	1358277.	0.00
18.6000	8.99E-09	-0.05797	0.09650	2.91E-08	1.1532	562973.	-0.06108	1358277.	0.00
18.8000	1.28E-08	-0.03989	0.08172	1.18E-08	0.7936	562973.	-0.08668	1358277.	0.00
19.0000	1.37E-08	-0.02528	0.06375	1.86E-10	0.5029	562973.	-0.09303	1358277.	0.00
19.2000	1.28E-08	-0.01439	0.04573	-6.86E-09	0.2863	562973.	-0.08718	1358277.	0.00
19.4000	1.10E-08	-0.00699	0.02957	-1.07E-08	0.1390	562973.	-0.07439	1358277.	0.00
19.6000	8.57E-09	-0.00256	0.01631	-1.24E-08	0.05096	562973.	-0.05823	1358277.	0.00
19.8000	6.01E-09	-4.64E-04	0.00640	-1.29E-08	0.00923	562973.	-0.04083	1358277.	0.00
20.0000	3.42E-09	0.00	0.00	-1.30E-08	0.00	562973.	-0.02321	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 9:

Pile-head deflection = 0.01945897 meters
Computed slope at pile head = -0.00585963 radians
Maximum bending moment = 704.63414260 kN-m
Maximum shear force = 450.00000000 kN
Depth of maximum bending moment = 2.40000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 48
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 10

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 470.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.02451	0.00	470.0000	-0.00692	0.00	562973.	0.00	0.00	0.00
0.2000	0.02313	94.0000	467.9093	-0.00690	1870.	562973.	-20.9067	180.7918	0.00
0.4000	0.02175	187.1637	460.9209	-0.00685	3724.	562973.	-48.9777	450.3480	0.00

0.6000	0.02039	278.3684	447.8117	-0.00677	5538.	562973.	-82.1140	805.5366	0.00
0.8000	0.01904	366.2884	427.7003	-0.00665	7287.	562973.	-119.0006	1250.	0.00
1.0000	0.01773	449.4485	399.9450	-0.00651	8941.	562973.	-158.5524	1789.	0.00
1.2000	0.01644	526.2664	364.2163	-0.00634	10470.	562973.	-198.7345	2418.	0.00
1.4000	0.01519	595.1350	320.7865	-0.00614	11840.	562973.	-235.5634	3101.	0.00
1.6000	0.01399	654.5810	270.3454	-0.00591	13022.	562973.	-268.8470	3845.	0.00
1.8000	0.01283	703.2731	213.5864	-0.00567	13991.	562973.	-298.7431	4659.	0.00
2.0000	0.01172	740.0156	151.1738	-0.00542	14722.	562973.	-325.3835	5555.	0.00
2.2000	0.01066	763.7426	83.7472	-0.00515	15194.	562973.	-348.8821	6546.	0.00
2.4000	0.00966	773.5145	11.9489	-0.00488	15389.	562973.	-369.1010	7645.	0.00
2.6000	0.00871	768.5222	-29.7593	-0.00460	15289.	562973.	-47.9809	1102.	0.00
2.8000	0.00781	761.6107	-39.3751	-0.00433	15152.	562973.	-48.1774	1233.	0.00
3.0000	0.00698	752.7722	-49.0142	-0.00406	14976.	562973.	-48.2135	1382.	0.00
3.2000	0.00619	742.0051	-58.6441	-0.00380	14762.	562973.	-48.0856	1554.	0.00
3.4000	0.00546	729.3145	-68.2317	-0.00354	14509.	562973.	-47.7900	1752.	0.00
3.6000	0.00478	714.7124	-77.7429	-0.00328	14219.	562973.	-47.3220	1982.	0.00
3.8000	0.00415	698.2174	-87.1427	-0.00303	13891.	562973.	-46.6762	2252.	0.00
4.0000	0.00356	679.8553	-96.3949	-0.00278	13525.	562973.	-45.8457	2573.	0.00
4.2000	0.00303	659.6594	-105.4616	-0.00255	13124.	562973.	-44.8220	2957.	0.00
4.4000	0.00255	637.6707	-114.3032	-0.00231	12686.	562973.	-43.5936	3424.	0.00
4.6000	0.00211	613.9381	-122.8771	-0.00209	12214.	562973.	-42.1454	4003.	0.00
4.8000	0.00171	588.5198	-131.1372	-0.00188	11708.	562973.	-40.4559	4734.	0.00
5.0000	0.00135	561.4832	-139.0322	-0.00167	11170.	562973.	-38.4939	5685.	0.00
5.2000	0.00104	532.9069	-146.5027	-0.00148	10602.	562973.	-36.2112	6968.	0.00
5.4000	7.62E-04	502.8822	-153.4767	-0.00130	10005.	562973.	-33.5285	8798.	0.00
5.6000	5.21E-04	471.5163	-159.8596	-0.00112	9381.	562973.	-30.3011	11635.	0.00
5.8000	3.13E-04	438.9383	-165.5116	-9.61E-04	8732.	562973.	-26.2189	16755.	0.00
6.0000	1.36E-04	405.3116	-170.1701	-8.11E-04	8063.	562973.	-20.3656	29889.	0.00
6.2000	-1.16E-05	370.8703	-171.2898	-6.74E-04	7378.	562973.	9.1684	157829.	0.00
6.4000	-1.33E-04	336.7957	-168.2548	-5.48E-04	6700.	562973.	21.1814	31813.	0.00
6.6000	-2.31E-04	303.5683	-163.5337	-4.34E-04	6039.	562973.	26.0297	22559.	0.00
6.8000	-3.07E-04	271.3822	-158.0040	-3.32E-04	5399.	562973.	29.2672	19078.	0.00
7.0000	-3.64E-04	240.3667	-151.9120	-2.41E-04	4782.	562973.	31.6533	17412.	0.00
7.2000	-4.03E-04	210.6174	-145.3995	-1.61E-04	4190.	562973.	33.4717	16600.	0.00
7.4000	-4.28E-04	182.2070	-138.1233	-9.12E-05	3625.	562973.	39.2896	18360.	0.00
7.6000	-4.40E-04	155.3681	-130.2297	-3.13E-05	3091.	562973.	39.6467	18031.	0.00
7.8000	-4.40E-04	130.1151	-122.2981	1.94E-05	2589.	562973.	39.6688	18011.	0.00
8.0000	-4.32E-04	106.4488	-114.3901	6.15E-05	2118.	562973.	39.4117	18247.	0.00
8.2000	-4.16E-04	84.3590	-106.5572	9.54E-05	1678.	562973.	38.9167	18714.	0.00
8.4000	-3.94E-04	63.8259	-98.8440	1.22E-04	1270.	562973.	38.2158	19407.	0.00
8.6000	-3.67E-04	44.8214	-91.2889	1.41E-04	891.6943	562973.	37.3352	20333.	0.00
8.8000	-3.37E-04	27.3104	-83.9257	1.54E-04	543.3225	562973.	36.2971	21513.	0.00
9.0000	-3.06E-04	11.2512	-73.0831	1.61E-04	223.8351	562973.	72.1282	47187.	0.00
9.2000	-2.73E-04	-1.9229	-59.2817	1.62E-04	38.2546	562973.	65.8861	48235.	0.00

9.4000	-2.41E-04	-12.4615	-46.7594	1.60E-04	247.9137	562973.	59.3366	49284.	0.00
9.6000	-2.09E-04	-20.6267	-35.5587	1.54E-04	410.3543	562973.	52.6703	50332.	0.00
9.8000	-1.79E-04	-26.6850	-25.6867	1.45E-04	530.8813	562973.	46.0501	51381.	0.00
10.0000	-1.51E-04	-30.9013	-17.1205	1.35E-04	614.7627	562973.	39.6119	52430.	0.00
10.2000	-1.25E-04	-33.5332	-9.8127	1.24E-04	667.1219	562973.	33.4658	53478.	0.00
10.4000	-1.02E-04	-34.8264	-3.6965	1.12E-04	692.8500	562973.	27.6970	54527.	0.00
10.6000	-8.05E-05	-35.0118	1.3101	9.92E-05	696.5374	562973.	22.3688	55575.	0.00
10.8000	-6.19E-05	-34.3024	5.2994	8.69E-05	682.4244	562973.	17.5237	56624.	0.00
11.0000	-4.57E-05	-32.8920	8.3704	7.50E-05	654.3663	562973.	13.1864	57673.	0.00
11.2000	-3.19E-05	-30.9542	10.6256	6.36E-05	615.8149	562973.	9.3656	58721.	0.00
11.4000	-2.03E-05	-28.6418	12.1679	5.31E-05	569.8106	562973.	6.0572	59770.	0.00
11.6000	-1.07E-05	-26.0871	13.0981	4.33E-05	518.9861	562973.	3.2456	60818.	0.00
11.8000	-2.93E-06	-23.4025	13.5134	3.46E-05	465.5789	562973.	0.9067	61867.	0.00
12.0000	3.15E-06	-20.6817	13.5050	2.67E-05	411.4501	562973.	-0.9902	62916.	0.00
12.2000	7.76E-06	-18.0005	13.1579	1.99E-05	358.1092	562973.	-2.4809	63964.	0.00
12.4000	1.11E-05	-15.4186	12.5494	1.39E-05	306.7427	562973.	-3.6042	65013.	0.00
12.6000	1.33E-05	-12.9808	11.7489	8.87E-06	258.2442	562973.	-4.4006	66061.	0.00
12.8000	1.46E-05	-10.7190	10.8178	4.66E-06	213.2477	562973.	-4.9110	67110.	0.00
13.0000	1.52E-05	-8.6537	9.8091	1.22E-06	172.1592	562973.	-5.1755	68159.	0.00
13.2000	1.51E-05	-6.7954	8.7683	-1.53E-06	135.1893	562973.	-5.2331	69207.	0.00
13.4000	1.46E-05	-5.1464	7.7329	-3.65E-06	102.3837	562973.	-5.1204	70256.	0.00
13.6000	1.37E-05	-3.7022	6.7337	-5.22E-06	73.6528	562973.	-4.8716	71304.	0.00
13.8000	1.25E-05	-2.4529	5.7947	-6.31E-06	48.7986	562973.	-4.5181	72353.	0.00
14.0000	1.11E-05	-1.3843	4.9341	-6.99E-06	27.5399	562973.	-4.0883	73402.	0.00
14.2000	9.69E-06	-0.4793	4.1645	-7.32E-06	9.5344	562973.	-3.6077	74450.	0.00
14.4000	8.21E-06	0.2815	3.4938	-7.36E-06	5.6000	562973.	-3.0991	75499.	0.00
14.6000	6.75E-06	0.9183	2.9256	-7.15E-06	18.2683	562973.	-2.5827	76547.	0.00
14.8000	5.35E-06	1.4517	2.4597	-6.73E-06	28.8813	562973.	-2.0762	77596.	0.00
15.0000	4.06E-06	1.9022	2.0926	-6.13E-06	37.8422	562973.	-1.5956	78644.	0.00
15.2000	2.90E-06	2.2888	1.8175	-5.39E-06	45.5333	562973.	-1.1553	79693.	0.00
15.4000	1.90E-06	2.6291	1.6251	-4.51E-06	52.3052	562973.	-0.7685	80742.	0.00
15.6000	1.09E-06	2.9388	1.5035	-3.52E-06	58.4655	562973.	-0.4476	81790.	0.00
15.8000	4.94E-07	3.2305	-0.4536	-2.43E-06	64.2696	562973.	-19.1233	7735387.	0.00
16.0000	1.24E-07	2.7574	-3.5860	-1.36E-06	54.8558	562973.	-12.2009	1.97E+07	0.00
16.2000	-5.09E-08	1.7961	-4.7716	-5.54E-07	35.7329	562973.	0.3455	1358277.	0.00
16.4000	-9.80E-08	0.8487	-3.8577	-8.46E-08	16.8849	562973.	8.7931	1.80E+07	0.00
16.6000	-8.47E-08	0.2530	-2.2209	1.11E-07	5.0342	562973.	7.5755	1.79E+07	0.00
16.8000	-5.35E-08	-0.03961	-0.9487	1.49E-07	0.7881	562973.	5.1458	1.92E+07	0.00
17.0000	-2.51E-08	-0.1264	-0.1595	1.19E-07	2.5155	562973.	2.7460	2.18E+07	0.00
17.2000	-5.74E-09	-0.1034	0.1190	7.86E-08	2.0577	562973.	0.03900	1358277.	0.00
17.4000	6.31E-09	-0.07886	0.1186	4.63E-08	1.5688	562973.	-0.04287	1358277.	0.00
17.6000	1.28E-08	-0.05600	0.1056	2.23E-08	1.1140	562973.	-0.08668	1358277.	0.00
17.8000	1.52E-08	-0.03661	0.08661	5.86E-09	0.7283	562973.	-0.1035	1358277.	0.00
18.0000	1.51E-08	-0.02135	0.06600	-4.44E-09	0.4248	562973.	-0.1026	1358277.	0.00

18.2000	1.35E-08	-0.01021	0.04660	-1.00E-08	0.2030	562973.	-0.09142	1358277.	0.00
18.4000	1.11E-08	-0.00271	0.02993	-1.23E-08	0.05399	562973.	-0.07532	1358277.	0.00
18.6000	8.53E-09	0.00177	0.01660	-1.25E-08	0.03512	562973.	-0.05791	1358277.	0.00
18.8000	6.09E-09	0.00393	0.00668	-1.15E-08	0.07815	562973.	-0.04135	1358277.	0.00
19.0000	3.93E-09	0.00444	-1.24E-04	-1.00E-08	0.08827	562973.	-0.02668	1358277.	0.00
19.2000	2.09E-09	0.00388	-0.00421	-8.53E-09	0.07716	562973.	-0.01416	1358277.	0.00
19.4000	5.17E-10	0.00275	-0.00598	-7.35E-09	0.05479	562973.	-0.00351	1358277.	0.00
19.6000	-8.56E-10	0.00149	-0.00574	-6.60E-09	0.02962	562973.	0.00581	1358277.	0.00
19.8000	-2.12E-09	4.56E-04	-0.00372	-6.25E-09	0.00907	562973.	0.01442	1358277.	0.00
20.0000	-3.36E-09	0.00	0.00	-6.17E-09	0.00	562973.	0.02280	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 10:

Pile-head deflection = 0.02451153 meters
Computed slope at pile head = -0.00691796 radians
Maximum bending moment = 773.51445059 kN-m
Maximum shear force = 470.00000000 kN
Depth of maximum bending moment = 2.40000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 79
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 11

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 1500.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.8947	-2.66E-08	1500.	-0.1261	5.28E-07	562973.	0.00	0.00	0.00
0.2000	0.8694	300.0000	1499.	-0.1261	5968.	562973.	-6.3173	1.4532	0.00

0.4000	0.8442	599.7473	1498.	-0.1259	11932.	562973.	-12.1405	2.8761	0.00
0.6000	0.8191	899.0090	1495.	-0.1256	17885.	562973.	-17.9016	4.3712	0.00
0.8000	0.7940	1198.	1490.	-0.1253	23825.	562973.	-23.4452	5.9058	0.00
1.0000	0.7690	1495.	1485.	-0.1248	29745.	562973.	-28.7232	7.4706	0.00
1.2000	0.7441	1792.	1479.	-0.1242	35643.	562973.	-33.7419	9.0697	0.00
1.4000	0.7193	2087.	1472.	-0.1235	41514.	562973.	-38.5335	10.7145	0.00
1.6000	0.6946	2380.	1464.	-0.1227	47355.	562973.	-43.1391	12.4204	0.00
1.8000	0.6702	2672.	1454.	-0.1218	53161.	562973.	-47.5986	14.2046	0.00
2.0000	0.6459	2962.	1444.	-0.1208	58929.	562973.	-51.9464	16.0846	0.00
2.2000	0.6219	3250.	1434.	-0.1197	64655.	562973.	-56.2092	18.0780	0.00
2.4000	0.5980	3536.	1422.	-0.1185	70338.	562973.	-60.3822	20.1939	0.00
2.6000	0.5744	3819.	1401.	-0.1172	75972.	562973.	-144.9320	50.4599	0.00
2.8000	0.5511	4096.	1372.	-0.1158	81490.	562973.	-150.8720	54.7494	0.00
3.0000	0.5281	4368.	1341.	-0.1143	86889.	562973.	-156.8120	59.3849	0.00
3.2000	0.5054	4633.	1309.	-0.1127	92163.	562973.	-162.7520	64.4034	0.00
3.4000	0.4830	4891.	1276.	-0.1110	97307.	562973.	-168.6920	69.8463	0.00
3.6000	0.4610	5143.	1242.	-0.1092	102317.	562973.	-174.6320	75.7609	0.00
3.8000	0.4393	5388.	1206.	-0.1074	107188.	562973.	-180.5721	82.2007	0.00
4.0000	0.4181	5625.	1169.	-0.1054	111916.	562973.	-186.5121	89.2267	0.00
4.2000	0.3972	5856.	1132.	-0.1034	116495.	562973.	-192.4521	96.9088	0.00
4.4000	0.3767	6078.	1092.	-0.1012	120921.	562973.	-198.3921	105.3270	0.00
4.6000	0.3567	6293.	1052.	-0.09905	125189.	562973.	-204.3321	114.5735	0.00
4.8000	0.3371	6499.	1011.	-0.09678	129294.	562973.	-210.2721	124.7548	0.00
5.0000	0.3180	6697.	968.1181	-0.09443	133232.	562973.	-216.2121	135.9944	0.00
5.2000	0.2993	6886.	924.2817	-0.09202	136998.	562973.	-222.1521	148.4363	0.00
5.4000	0.2812	7067.	879.2573	-0.08954	140587.	562973.	-228.0921	162.2487	0.00
5.6000	0.2635	7238.	833.0449	-0.08700	143995.	562973.	-234.0321	177.6293	0.00
5.8000	0.2464	7400.	785.6445	-0.08440	147216.	562973.	-239.9721	194.8119	0.00
6.0000	0.2297	7552.	737.4114	-0.08175	150247.	562973.	-242.3586	210.9801	0.00
6.2000	0.2137	7695.	688.9475	-0.07904	153084.	562973.	-242.2810	226.7862	0.00
6.4000	0.1981	7828.	640.5360	-0.07628	155729.	562973.	-241.8334	244.1152	0.00
6.6000	0.1832	7951.	592.2519	-0.07348	158182.	562973.	-241.0073	263.1765	0.00
6.8000	0.1687	8065.	544.1718	-0.07063	160442.	562973.	-239.7938	284.2175	0.00
7.0000	0.1549	8169.	496.3741	-0.06775	162512.	562973.	-238.1833	307.5324	0.00
7.2000	0.1416	8263.	448.9392	-0.06483	164392.	562973.	-236.1658	333.4732	0.00
7.4000	0.1290	8348.	398.9815	-0.06188	166085.	562973.	-263.4116	408.4927	0.00
7.6000	0.1169	8423.	347.1486	-0.05890	167567.	562973.	-254.9168	436.1716	0.00
7.8000	0.1054	8487.	297.0288	-0.05590	168847.	562973.	-246.2815	467.2943	0.00
8.0000	0.09453	8542.	248.6506	-0.05287	169931.	562973.	-237.5002	502.4885	0.00
8.2000	0.08426	8587.	202.0439	-0.04983	170826.	562973.	-228.5667	542.5356	0.00
8.4000	0.07460	8622.	157.2399	-0.04677	171539.	562973.	-219.4742	588.4196	0.00
8.6000	0.06555	8650.	114.2709	-0.04370	172077.	562973.	-210.2156	641.3933	0.00
8.8000	0.05712	8668.	73.1710	-0.04063	172448.	562973.	-200.7832	703.0714	0.00
9.0000	0.04930	8679.	-88.8824	-0.03755	172659.	562973.	-1420.	5760.	0.00

9.2000	0.04210	8633.	-380.7146	-0.03447	171741.	562973.	-1499.	7120.	0.00
9.4000	0.03551	8527.	-688.5166	-0.03142	169630.	562973.	-1579.	8896.	0.00
9.6000	0.02953	8357.	-1011.	-0.02843	166262.	562973.	-1642.	11122.	0.00
9.8000	0.02414	8122.	-1323.	-0.02550	161587.	562973.	-1482.	12279.	0.00
10.0000	0.01933	7828.	-1604.	-0.02266	155733.	562973.	-1327.	13733.	0.00
10.2000	0.01507	7481.	-1855.	-0.01995	148823.	562973.	-1180.	15652.	0.00
10.4000	0.01135	7086.	-2076.	-0.01736	140974.	562973.	-1038.	18289.	0.00
10.6000	0.00813	6650.	-2269.	-0.01492	132299.	562973.	-886.5649	21809.	0.00
10.8000	0.00538	6179.	-2430.	-0.01264	122919.	562973.	-721.1435	26794.	0.00
11.0000	0.00307	5678.	-2555.	-0.01053	112965.	562973.	-535.6803	34846.	0.00
11.2000	0.00117	5156.	-2640.	-0.00861	102584.	562973.	-310.5069	53096.	0.00
11.4000	-3.69E-04	4622.	-2660.	-0.00687	91957.	562973.	110.2591	59770.	0.00
11.6000	-0.00158	4092.	-2609.	-0.00532	81417.	562973.	404.4978	51232.	0.00
11.8000	-0.00250	3579.	-2512.	-0.00396	71199.	562973.	556.3128	44533.	0.00
12.0000	-0.00316	3087.	-2390.	-0.00278	61424.	562973.	667.6480	42209.	0.00
12.2000	-0.00361	2623.	-2248.	-0.00176	52180.	562973.	751.5030	41643.	0.00
12.4000	-0.00387	2188.	-2092.	-9.08E-04	43534.	562973.	813.7991	42072.	0.00
12.6000	-0.00397	1786.	-1924.	-2.02E-04	35535.	562973.	857.9714	43196.	0.00
12.8000	-0.00395	1418.	-1750.	3.67E-04	28220.	562973.	886.3466	44885.	0.00
13.0000	-0.00383	1086.	-1571.	8.12E-04	21610.	562973.	900.6937	47088.	0.00
13.2000	-0.00362	789.9741	-1391.	0.00115	15716.	562973.	902.4826	49798.	0.00
13.4000	-0.00337	529.8340	-1211.	0.00138	10541.	562973.	893.0179	53038.	0.00
13.6000	-0.00307	305.4146	-1035.	0.00153	6076.	562973.	873.5121	56856.	0.00
13.8000	-0.00276	115.9357	-862.8819	0.00160	2306.	562973.	845.1252	61325.	0.00
14.0000	-0.00243	-39.7381	-697.4711	0.00162	790.5652	562973.	808.9829	66542.	0.00
14.2000	-0.00211	-163.0527	-539.9548	0.00158	3244.	562973.	766.1805	72637.	0.00
14.4000	-0.00180	-255.7200	-395.4136	0.00151	5087.	562973.	679.2313	75499.	0.00
14.6000	-0.00151	-321.2181	-269.8049	0.00140	6390.	562973.	576.8552	76547.	0.00
14.8000	-0.00124	-363.6420	-164.0923	0.00128	7234.	562973.	480.2706	77596.	0.00
15.0000	-9.94E-04	-386.8551	-76.9631	0.00115	7696.	562973.	391.0218	78644.	0.00
15.2000	-7.78E-04	-394.4273	-6.8437	0.00101	7847.	562973.	310.1725	79693.	0.00
15.4000	-5.90E-04	-389.5925	48.0108	8.71E-04	7751.	562973.	238.3721	80742.	0.00
15.6000	-4.30E-04	-375.2229	89.4401	7.35E-04	7465.	562973.	175.9209	81790.	0.00
15.8000	-2.97E-04	-353.8165	123.7468	6.05E-04	7039.	562973.	167.1464	112725.	0.00
16.0000	-1.88E-04	-325.7242	154.8220	4.85E-04	6480.	562973.	143.6058	152712.	0.00
16.2000	-1.03E-04	-291.8877	180.9218	3.75E-04	5807.	562973.	117.3920	228531.	0.00
16.4000	-3.81E-05	-253.3555	201.0980	2.78E-04	5040.	562973.	84.3696	442456.	0.00
16.6000	8.46E-06	-211.4485	204.4281	1.95E-04	4207.	562973.	-51.0686	1207169.	0.00
16.8000	4.00E-05	-171.5843	190.7469	1.27E-04	3414.	562973.	-85.7428	428339.	0.00
17.0000	5.94E-05	-135.1497	172.3922	7.29E-05	2689.	562973.	-97.8048	329210.	0.00
17.2000	6.92E-05	-102.6274	152.3216	3.07E-05	2042.	562973.	-102.9011	297410.	0.00
17.4000	7.17E-05	-74.2211	131.6194	-7.41E-07	1477.	562973.	-104.1202	290487.	0.00
17.6000	6.89E-05	-49.9796	110.9320	-2.28E-05	994.3132	562973.	-102.7540	298263.	0.00
17.8000	6.26E-05	-29.8483	90.7064	-3.70E-05	593.8133	562973.	-99.5025	318075.	0.00

18.0000	5.41E-05	-13.6971	71.2761	-4.47E-05	272.4949	562973.	-94.8005	350409.	0.00
18.2000	4.47E-05	-1.3379	52.9022	-4.74E-05	26.6164	562973.	-88.9380	398125.	0.00
18.4000	3.52E-05	7.4638	35.7978	-4.63E-05	148.4875	562973.	-82.1062	467133.	0.00
18.6000	2.62E-05	12.9812	20.1469	-4.27E-05	258.2534	562973.	-74.4029	568865.	0.00
18.8000	1.81E-05	15.5225	6.1275	-3.76E-05	308.8113	562973.	-65.7906	727538.	0.00
19.0000	1.11E-05	15.4322	-6.0452	-3.21E-05	307.0147	562973.	-55.9371	1006408.	0.00
19.2000	5.24E-06	13.1045	-15.9931	-2.70E-05	260.7049	562973.	-43.5411	1660913.	0.00
19.4000	3.01E-07	9.0350	-22.0258	-2.31E-05	179.7461	562973.	-16.7859	1.12E+07	0.00
19.6000	-4.00E-06	4.2942	-19.7257	-2.07E-05	85.4295	562973.	39.7861	1989735.	0.00
19.8000	-7.99E-06	1.1447	-10.7354	-1.98E-05	22.7736	562973.	50.1175	1253855.	0.00
20.0000	-1.19E-05	0.00	0.00	-1.96E-05	0.00	562973.	57.2364	480662.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 11:

Pile-head deflection = 0.89466041 meters
Computed slope at pile head = -0.12612493 radians
Maximum bending moment = 8679. kN-m
Maximum shear force = -2660. kN
Depth of maximum bending moment = 9.00000000 meters below pile head
Depth of maximum shear force = 11.40000000 meters below pile head
Number of iterations = 28
Number of zero deflection points = 3

Summary of Pile-head Responses for Conventional Analyses

Definitions of Pile-head Loading Conditions:

Load Type 1: Load 1 = Shear, V, kN, and Load 2 = Moment, M, kN-m
Load Type 2: Load 1 = Shear, V, kN, and Load 2 = Slope, S, radians
Load Type 3: Load 1 = Shear, V, kN, and Load 2 = Rot. Stiffness, R, kN-m/rad.
Load Type 4: Load 1 = Top Deflection, y, m, and Load 2 = Moment, M, kN-m
Load Type 5: Load 1 = Top Deflection, y, m, and Load 2 = Slope, S, radians

Load Case No.	Load Type	Pile-head Load 1	Load Type 2	Pile-head Load 2	Axial Loading kN	Pile-head Deflection meters	Pile-head Rotation radians	Max Shear in Pile kN	Max Moment in Pile kN-m
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1	V, kN	50.0000	M, kN-m	0.00	0.00	5.10E-04	-2.55E-04	50.0000	51.5031
2	V, kN	75.0000	M, kN-m	0.00	0.00	8.03E-04	-3.96E-04	75.0000	78.7042
3	V, kN	100.0000	M, kN-m	0.00	0.00	0.00118	-5.66E-04	100.0000	108.5000
4	V, kN	125.0000	M, kN-m	0.00	0.00	0.00163	-7.51E-04	125.0000	138.9898
5	V, kN	150.0000	M, kN-m	0.00	0.00	0.00213	-9.51E-04	150.0000	169.9406
6	V, kN	200.0000	M, kN-m	0.00	0.00	0.00338	-0.00141	200.0000	237.1381
7	V, kN	300.0000	M, kN-m	0.00	0.00	0.00689	-0.00259	300.0000	390.3836
8	V, kN	400.0000	M, kN-m	0.00	0.00	0.01318	-0.00437	400.0000	581.0621
9	V, kN	450.0000	M, kN-m	0.00	0.00	0.01946	-0.00586	450.0000	704.6341
10	V, kN	470.0000	M, kN-m	0.00	0.00	0.02451	-0.00692	470.0000	773.5145
11	V, kN	1500.	M, kN-m	0.00	0.00	0.8947	-0.1261	-2660.	8679.

Maximum pile-head deflection = 0.8946604148 meters
Maximum pile-head rotation = -0.1261249293 radians = -7.226426 deg.

Summary of Warning Messages

The following warning was reported 588 times

**** Warning ****

An unreasonable input value for shear strength has been specified for a soil defined using the soft clay criteria. The input value is greater than 59.85 kPa. Please check your input data for correctness.

The analysis ended normally.

Opera IV01 (Sp. A) – D1000

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LPile for Windows, Version 2016-09.009

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method
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Files Used for Analysis

Path to file locations:
\m9159\Work\07_Pali\IV01\LPILE\

Name of input data file:
IV01_SpA_D1000.lp9d

Name of output report file:
IV01_SpA_D1000.lp9o

Name of plot output file:
IV01_SpA_D1000.lp9p

Name of runtime message file:
IV01_SpA_D1000.lp9r

Date and Time of Analysis

Date: June 10, 2019 Time: 15:27:25

Problem Title

Project Name: VI02 - Spalle e pila
Job Number:
Client:
Engineer:
Description:

Program Options and Settings

Computational Options:
- Use unfactored loads in computations (conventional analysis)

Engineering Units Used for Data Input and Computations:
- International System Units (kilonewtons, meters, millimeters)

Analysis Control Options:
- Maximum number of iterations allowed = 500
- Deflection tolerance for convergence = 2.5400E-07 m
- Maximum allowable deflection = 2.5400 m
- Number of pile increments = 100

Loading Type and Number of Cycles of Loading:
- Static loading specified

- Use of p-y modification factors for p-y curves not selected
- No distributed lateral loads are entered
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected
- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:
- Output files use decimal points to denote decimal symbols.
- Values of pile-head deflection, bending moment, shear force, and soil reaction are printed for full length of pile.
- Printing Increment (nodal spacing of output points) = 1
- p-y curves computed and reported at user-specified depths
- Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined = 1
Total length of pile = 20.000 m
Depth of ground surface below top of pile = 0.0000 m

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point	Depth Below Pile Head meters	Pile Diameter millimeters
1	0.000	1000.00
2	20.000	1000.00

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is an elastic pile

Cross-sectional Shape = Circular Pile
Length of section = 20.000000 m
Width of top of section = 1.000000 m
Width of bottom of section = 1.000000 m
Top Area = 0.785398 sq. m
Bottom Area = 0.785398 sq. m
Moment of Inertia at Top = 0.049087 m^4
Moment of Inertia at Bottom = 0.049087 m^4
Elastic Modulus = 28000000. kPa

Ground Slope and Pile Batter Angles

Ground Slope Angle = 0.000 degrees
= 0.000 radians

Pile Batter Angle = 0.000 degrees
= 0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 4 layers

Layer 1 is stiff clay with water-induced erosion

Distance from top of pile to top of layer = 0.0000 m
Distance from top of pile to bottom of layer = 2.500000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 80.000000 kPa
Undrained cohesion at bottom of layer = 80.000000 kPa
Epsilon-50 at top of layer = 0.007000
Epsilon-50 at bottom of layer = 0.007000
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 2 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 2.500000 m
Distance from top of pile to bottom of layer = 8.900000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 45.000000 kPa
Undrained cohesion at bottom of layer = 45.000000 kPa
Epsilon-50 at top of layer = 0.015000
Epsilon-50 at bottom of layer = 0.015000

Layer 3 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer = 8.900000 m
Distance from top of pile to bottom of layer = 15.800000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Friction angle at top of layer = 36.000000 deg.
Friction angle at bottom of layer = 36.000000 deg.
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 4 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 15.800000 m
Distance from top of pile to bottom of layer = 20.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 150.000000 kPa
Undrained cohesion at bottom of layer = 150.000000 kPa
Epsilon-50 at top of layer = 0.005000
Epsilon-50 at bottom of layer = 0.005000

(Depth of the lowest soil layer extends 0.000 m below the pile tip)

Summary of Input Soil Properties

Layer Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth m	Effective Unit Wt. kN/m3	Undrained Cohesion kPa	Angle of Friction deg.	E50 or krm	kpy kN/m3
1	Stiff Clay	0.00	9.0000	80.0000	--	0.00700	default
	with Free Water	2.5000	9.0000	80.0000	--	0.00700	default
2	Soft	2.5000	9.0000	45.0000	--	0.01500	--
	Clay	8.9000	9.0000	45.0000	--	0.01500	--
3	Sand	8.9000	9.0000	--	36.0000	--	default
	(Reese, et al.)	15.8000	9.0000	--	36.0000	--	default
4	Soft	15.8000	9.0000	150.0000	--	0.00500	--
	Clay	20.0000	9.0000	150.0000	--	0.00500	--

Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 13

Load No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, kN	Compute Top y vs. Pile Length
1	1	V = 50.000000 kN	M = 0.0000 m-kN	0.0000000	No
2	1	V = 75.000000 kN	M = 0.0000 m-kN	0.0000000	No
3	1	V = 100.000000 kN	M = 0.0000 m-kN	0.0000000	No
4	1	V = 125.000000 kN	M = 0.0000 m-kN	0.0000000	No
5	1	V = 150.000000 kN	M = 0.0000 m-kN	0.0000000	No
6	1	V = 200.000000 kN	M = 0.0000 m-kN	0.0000000	No
7	1	V = 300.000000 kN	M = 0.0000 m-kN	0.0000000	No
8	1	V = 400.000000 kN	M = 0.0000 m-kN	0.0000000	No
9	1	V = 450.000000 kN	M = 0.0000 m-kN	0.0000000	No

10	1	V =	500.000000 kN	M =	0.0000 m-kN	0.0000000	No
11	1	V =	550.000000 kN	M =	0.0000 m-kN	0.0000000	No
12	1	V =	600.000000 kN	M =	0.0000 m-kN	0.0000000	No
13	1	V =	2500. kN	M =	0.0000 m-kN	0.0000000	No

V = shear force applied normal to pile axis
M = bending moment applied to pile head
y = lateral deflection normal to pile axis
S = pile slope relative to original pile batter angle
R = rotational stiffness applied to pile head
Values of top y vs. pile lengths can be computed only for load types with specified shear loading (Load Types 1, 2, and 3).
Thrust force is assumed to be acting axially for all pile batter angles.

Specified Depths for Output of p-y Curves

Lateral load-transfer (p-y) curves are computed and output at 8 depths.
(Note that load-transfer values are computeded at the specified depths and may differ from values computed at nodal points)

Depth No.	Depth Below Pile Head m	Depth Below Ground Surface m
1	0.200	0.200
2	4.100	4.100
3	4.500	4.500
4	9.000	9.000
5	11.800	11.800
6	12.200	12.200
7	16.000	16.000
8	19.800	19.800

Depth of ground surface below top of pile = 0.0000 m

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

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Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Moment-curvature properties were derived from elastic section properties

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Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head meters	Equivalent Top Depth Below Grnd Surf meters	Same Layer Type As Layer Above	Layer is Rock or is Below Rock Layer	F0 Integral for Layer kN	F1 Integral for Layer kN
1	0.00	0.00	N.A.	No	0.00	87.2078
2	2.5000	0.6035	No	No	87.2078	1741.
3	8.9000	5.1930	No	No	1828.	22049.
4	15.8000	15.8000	No	No	23878.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals for Layer n. Layering correction equivalent depths are computed only for soil types with both shallow-depth and deep-depth expressions for peak lateral load transfer. These soil types are soft and stiff clays, non-liquefied sands, and cemented c-phi soil.

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p-y Curves Reported for Specified Depths

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p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1

Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 0.200 m
Depth of p-y curve below ground surface = 0.200 m
Equivalent depth of p-y curve = 0.200 m
Pile diameter = 1000.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.007 m
As = 0.29059
Ac (not used) = 0.22776
pct = 207.080 kN/m
pcd = 880.000 kN/m
pc = 207.080 kN/m
pu = 6.476 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00102	27.60762
0.00203	55.21523
0.00305	63.56971
0.00407	67.54403
0.00509	69.34360
0.00610	69.58461
0.00712	68.61559
0.00814	66.66085
0.00915	63.87638
0.01017	60.37654
0.01119	56.24858
0.01220	51.60684
0.02034	36.56317
0.02848	21.51949
0.03661	6.47582
0.03865	6.47582

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 2.500 m
Depth of p-y curve below pile head = 4.100 m
Depth of p-y curve below ground surface = 4.100 m
Equiv. depth of p-y curve below ground surface = 2.203 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1000.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 8.571 m
Static pu_s for flat ground = 221.479 kN/m
Static pu_d for flat ground = 405.000 kN/m
y_50 = 0.03750 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 221.479 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00008889	14.76524
0.00071111	29.53047
0.00240	44.29571
0.00569	59.06095
0.01111	73.82618
0.01920	88.59142
0.03049	103.35666
0.04551	118.12189
0.06480	132.88713
0.08889	147.65237
0.11831	162.41760

0.15360	177.18284
0.19529	191.94808
0.24391	206.71331
0.30000	221.47855
0.31875	221.47855

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 2.500 m
Depth of p-y curve below pile head = 4.500 m
Depth of p-y curve below ground surface = 4.500 m
Equiv. depth of p-y curve below ground surface = 2.603 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1000.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 8.571 m
Static pu_s for flat ground = 234.079 kN/m
Static pu_d for flat ground = 405.000 kN/m
y_50 = 0.03750 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 234.079 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00008889	15.60524
0.00071111	31.21047
0.00240	46.81571
0.00569	62.42095
0.01111	78.02618
0.01920	93.63142
0.03049	109.23666
0.04551	124.84189

0.06480	140.44713
0.08889	156.05237
0.11831	171.65760
0.15360	187.26284
0.19529	202.86808
0.24391	218.47331
0.30000	234.07855
0.31875	234.07855

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 8.900 m
Depth of p-y curve below pile head = 9.000 m
Depth of p-y curve below ground surface = 9.000 m
Equiv. depth of p-y curve below ground surface = 5.293 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 1000.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3
K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 1681.674 kN/m
Psd = 4957.253 kN/m
Ps = Pst (shallow controls) = 1681.674 kN/m
A (static) = 0.8800
B (static) = 0.5000
C = Pm/(Ym^(1/n)) = 10135.0961
n = Pm/(m Ym) = 1.6447
m = (Pu-Pm)/(Yu-Ym) = 30673.7406
Yk = [c/(kx)]^(n/(n-1)) = 0.0003 m
Pk = 76.850 kN/m
Ym = b/60 = 0.0167 m
Pm = B ps = 840.837 kN/m
Yu = 3b/80 = 0.0375 m
Pu = A Ps = 1479.873 kN/m

Maximum Es value = 235933.478 kN/m/m
p-multiplier = 1.00000
y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters	p, kN/m
0.00000	0.00000
0.00032573	76.84974
0.00181	218.11278
0.00330	313.92701
0.00478	393.59504
0.00627	463.95676
0.00775	528.00742
0.00924	587.39047
0.01072	643.12780
0.01221	695.90828
0.01370	746.22346
0.01518	794.43927
0.01667	840.83719
0.02708	1160.35532
0.03750	1479.87345
0.04500	1479.87345
0.05250	1479.87345

The above p-y curve was computed using internal default values of k.

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 8.900 m
Depth of p-y curve below pile head = 11.800 m
Depth of p-y curve below ground surface = 11.800 m
Equiv. depth of p-y curve below ground surface = 8.093 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 1000.000 mm
Angle of Friction = 36.000 degrees

Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3
K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 3169.427 kN/m
Psd = 6499.510 kN/m
Ps = Pst (shallow controls) = 3169.427 kN/m
A (static) = 0.8800
B (static) = 0.5000
C = Pm/(Ym^(1/n)) = 19101.4688
n = Pm/(m Ym) = 1.6447
m = (Pu-Pm)/(Yu-Ym) = 57810.3546
Yk = [c/(kx)]^(n/(n-1)) = 0.0008 m
Pk = 254.285 kN/m
Ym = b/60 = 0.0167 m
Pm = B ps = 1584.714 kN/m
Yu = 3b/80 = 0.0375 m
Pu = A Ps = 2789.096 kN/m
Maximum Es value = 309335.005 kN/m/m
p-multiplier = 1.00000
y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters	p, kN/m
0.00000	0.00000
0.00082204	254.28524
0.00226	470.59992
0.00370	634.94902
0.00514	775.35724
0.00658	900.94318
0.00802	1016.11092
0.00946	1123.40384
0.01090	1224.45485
0.01235	1320.38931
0.01379	1412.02337
0.01523	1499.97220
0.01667	1584.71367
0.02708	2186.90486
0.03750	2789.09605

0.04500	2789.09605
0.05250	2789.09605

The above p-y curve was computed using internal default values of k.

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 8.900 m
Depth of p-y curve below pile head = 12.200 m
Depth of p-y curve below ground surface = 12.200 m
Equiv. depth of p-y curve below ground surface = 8.493 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 1000.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3
K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 3419.332 kN/m
Psd = 6719.832 kN/m
Ps = Pst (shallow controls) = 3419.332 kN/m
A (static) = 0.8800
B (static) = 0.5000
C = Pm/(Ym^(1/n)) = 20607.5891
n = Pm/(m Ym) = 1.6447
m = (Pu-Pm)/(Yu-Ym) = 62368.6088
Yk = [c/(kx)]^(n/(n-1)) = 0.0009 m
Pk = 293.055 kN/m
Ym = b/60 = 0.0167 m
Pm = B ps = 1709.666 kN/m
Yu = 3b/80 = 0.0375 m
Pu = A Ps = 3009.012 kN/m
Maximum Es value = 319820.937 kN/m/m
p-multiplier = 1.00000
y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters	p, kN/m
0.00000	0.00000
0.00091631	293.05455
0.00235	519.31337
0.00378	693.65398
0.00521	843.25476
0.00664	977.35632
0.00808	1100.49538
0.00951	1215.31567
0.01094	1323.52438
0.01237	1426.30285
0.01380	1524.51043
0.01523	1618.79633
0.01667	1709.66581
0.02708	2359.33882
0.03750	3009.01183
0.04500	3009.01183
0.05250	3009.01183

The above p-y curve was computed using internal default values of k.

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 4
Depth of top of Layer 4 below pile head = 15.800 m
Depth of p-y curve below pile head = 16.000 m
Depth of p-y curve below ground surface = 16.000 m
Equiv. depth of p-y curve below ground surface = 16.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1000.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 150.000 kPa
Epsilon_50 = 0.0050
J (default value) = 0.5000

Transition depth Xr = 10.714 m
Static pu_s for flat ground = 1794.000 kN/m
Static pu_d for flat ground = 1350.000 kN/m
y_50 = 0.01250 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 1350.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00002963	90.00000
0.00023704	180.00000
0.00080000	270.00000
0.00190	360.00000
0.00370	450.00000
0.00640	540.00000
0.01016	630.00000
0.01517	720.00000
0.02160	810.00000
0.02963	900.00000
0.03944	990.00000
0.05120	1080.00000
0.06510	1170.00000
0.08130	1260.00000
0.10000	1350.00000
0.10625	1350.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 4
Depth of top of Layer 4 below pile head = 15.800 m
Depth of p-y curve below pile head = 19.800 m
Depth of p-y curve below ground surface = 19.800 m
Equiv. depth of p-y curve below ground surface = 19.800 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1000.000 mm
Average effective unit weight = 9.00000 kN/m3

Undrained cohesion = 150.000 kPa
Epsilon_50 = 0.0050
J (default value) = 0.5000
Transition depth Xr = 10.714 m
Static pu_s for flat ground = 2113.200 kN/m
Static pu_d for flat ground = 1350.000 kN/m
y_50 = 0.01250 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 1350.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00002963	90.00000
0.00023704	180.00000
0.00080000	270.00000
0.00190	360.00000
0.00370	450.00000
0.00640	540.00000
0.01016	630.00000
0.01517	720.00000
0.02160	810.00000
0.02963	900.00000
0.03944	990.00000
0.05120	1080.00000
0.06510	1170.00000
0.08130	1260.00000
0.10000	1350.00000
0.10625	1350.00000

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 1

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 50.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	3.58E-04	-2.05E-11	50.0000	-1.49E-04	2.09E-10	1374447.	0.00	0.00	0.00
0.2000	3.29E-04	10.0000	49.1082	-1.48E-04	101.8592	1374447.	-8.9175	5429.	0.00
0.4000	2.99E-04	19.6433	46.5927	-1.46E-04	200.0850	1374447.	-16.2380	10858.	0.00
0.6000	2.70E-04	28.6371	42.7681	-1.42E-04	291.6949	1374447.	-22.0080	16287.	0.00
0.8000	2.42E-04	36.7505	37.9371	-1.37E-04	374.3379	1374447.	-26.3024	21716.	0.00
1.0000	2.15E-04	43.8119	32.3847	-1.32E-04	446.2644	1374447.	-29.2213	27145.	0.00
1.2000	1.90E-04	49.7044	26.3741	-1.25E-04	506.2850	1374447.	-30.8851	32574.	0.00
1.4000	1.65E-04	54.3615	20.1425	-1.17E-04	553.7219	1374447.	-31.4303	38003.	0.00
1.6000	1.43E-04	57.7614	13.8991	-1.09E-04	588.3530	1374447.	-31.0041	43432.	0.00
1.8000	1.22E-04	59.9212	7.8227	-1.00E-04	610.3519	1374447.	-29.7595	48860.	0.00
2.0000	1.03E-04	60.8905	2.0617	-9.16E-05	620.2256	1374447.	-27.8505	54289.	0.00
2.2000	8.52E-05	60.7458	-3.2661	-8.28E-05	618.7521	1374447.	-25.4274	59718.	0.00
2.4000	6.95E-05	59.5841	-8.0721	-7.40E-05	606.9185	1374447.	-22.6333	65147.	0.00
2.6000	5.55E-05	57.5170	-11.3300	-6.55E-05	585.8632	1374447.	-9.9451	35810.	0.00
2.8000	4.33E-05	55.0521	-13.2733	-5.73E-05	560.7560	1374447.	-9.4884	43849.	0.00
3.0000	3.26E-05	52.2077	-15.1166	-4.95E-05	531.7828	1374447.	-8.9446	54853.	0.00
3.2000	2.35E-05	49.0054	-16.8410	-4.22E-05	499.1653	1374447.	-8.2990	70725.	0.00
3.4000	1.57E-05	45.4713	-18.4233	-3.53E-05	463.1664	1374447.	-7.5244	95550.	0.00
3.6000	9.35E-06	41.6361	-19.8322	-2.89E-05	424.1019	1374447.	-6.5646	140354.	0.00
3.8000	4.17E-06	37.5384	-21.0156	-2.32E-05	382.3626	1374447.	-5.2693	252670.	0.00
4.0000	7.98E-08	33.2299	-21.5455	-1.80E-05	338.4765	1374447.	-0.02922	73222.	0.00
4.2000	-3.04E-06	28.9202	-21.0843	-1.35E-05	294.5784	1374447.	4.6409	304904.	0.00
4.4000	-5.33E-06	24.7961	-20.0345	-9.61E-06	252.5713	1374447.	5.8572	219926.	0.00
4.6000	-6.89E-06	20.9064	-18.7896	-6.28E-06	212.9505	1374447.	6.5921	191430.	0.00
4.8000	-7.84E-06	17.2803	-17.4222	-3.50E-06	176.0156	1374447.	7.0820	180675.	0.00
5.0000	-8.29E-06	13.9375	-15.9732	-1.23E-06	141.9662	1374447.	7.4081	178750.	0.00
5.2000	-8.33E-06	10.8910	-14.4714	5.74E-07	110.9351	1374447.	7.6095	182645.	0.00
5.4000	-8.06E-06	8.1489	-12.9397	1.96E-06	83.0044	1374447.	7.7080	191282.	0.00
5.6000	-7.55E-06	5.7152	-11.3971	2.97E-06	58.2142	1374447.	7.7178	204473.	0.00
5.8000	-6.87E-06	3.5901	-9.8604	3.64E-06	36.5686	1374447.	7.6486	222591.	0.00
6.0000	-6.09E-06	1.7710	-8.3448	4.03E-06	18.0392	1374447.	7.5076	246511.	0.00
6.2000	-5.26E-06	0.2522	-6.8639	4.18E-06	2.5688	1374447.	7.3011	277691.	0.00
6.4000	-4.42E-06	-0.9746	-5.4304	4.13E-06	9.9270	1374447.	7.0343	318413.	0.00
6.6000	-3.61E-06	-1.9200	-4.0557	3.92E-06	19.5567	1374447.	6.7127	372239.	0.00
6.8000	-2.85E-06	-2.5969	-2.7502	3.59E-06	26.4514	1374447.	6.3421	444932.	0.00

7.0000	-2.17E-06	-3.0201	-1.5230	3.18E-06	30.7621	1374447.	5.9298	546377.	0.00
7.2000	-1.58E-06	-3.2061	-0.3815	2.73E-06	32.6568	1374447.	5.4857	695163.	0.00
7.4000	-1.08E-06	-3.1727	0.6698	2.26E-06	32.3164	1374447.	5.0268	931566.	0.00
7.6000	-6.72E-07	-2.9382	1.6319	1.82E-06	29.9280	1374447.	4.5949	1366513.	0.00
7.8000	-3.51E-07	-2.5199	2.1113	1.42E-06	25.6674	1374447.	0.1991	113367.	0.00
8.0000	-1.03E-07	-2.0936	2.1372	1.09E-06	21.3256	1374447.	0.05972	115480.	0.00
8.2000	8.35E-08	-1.6650	2.1383	8.14E-07	16.9596	1374447.	-0.04910	117593.	0.00
8.4000	2.22E-07	-1.2383	1.9172	6.02E-07	12.6135	1374447.	-2.1612	1947152.	0.00
8.6000	3.24E-07	-0.8981	1.3980	4.47E-07	9.1480	1374447.	-3.0308	1868356.	0.00
8.8000	4.01E-07	-0.6791	0.7552	3.32E-07	6.9174	1374447.	-3.3974	1695582.	0.00
9.0000	4.57E-07	-0.5960	0.4047	2.39E-07	6.0710	1374447.	-0.1079	47187.	0.00
9.2000	4.96E-07	-0.5172	0.3819	1.58E-07	5.2686	1374447.	-0.1197	48235.	0.00
9.4000	5.21E-07	-0.4432	0.3571	8.85E-08	4.5149	1374447.	-0.1283	49284.	0.00
9.6000	5.32E-07	-0.3744	0.3309	2.90E-08	3.8135	1374447.	-0.1338	50332.	0.00
9.8000	5.32E-07	-0.3109	0.3039	-2.09E-08	3.1666	1374447.	-0.1367	51381.	0.00
10.0000	5.23E-07	-0.2528	0.2765	-6.19E-08	2.5755	1374447.	-0.1372	52430.	0.00
10.2000	5.07E-07	-0.2003	0.2492	-9.49E-08	2.0402	1374447.	-0.1357	53478.	0.00
10.4000	4.86E-07	-0.1532	0.2224	-1.21E-07	1.5603	1374447.	-0.1324	54527.	0.00
10.6000	4.59E-07	-0.1114	0.1964	-1.40E-07	1.1343	1374447.	-0.1276	55575.	0.00
10.8000	4.30E-07	-0.07463	0.1714	-1.53E-07	0.7602	1374447.	-0.1216	56624.	0.00
11.0000	3.98E-07	-0.04278	0.1478	-1.62E-07	0.4357	1374447.	-0.1147	57673.	0.00
11.2000	3.65E-07	-0.01551	0.1256	-1.66E-07	0.1580	1374447.	-0.1071	58721.	0.00
11.4000	3.31E-07	0.00747	0.1050	-1.67E-07	0.07607	1374447.	-0.09904	59770.	0.00
11.6000	2.98E-07	0.02649	0.08603	-1.64E-07	0.2698	1374447.	-0.09067	60818.	0.00
11.8000	2.66E-07	0.04188	0.06875	-1.59E-07	0.4266	1374447.	-0.08219	61867.	0.00
12.0000	2.34E-07	0.05399	0.05315	-1.52E-07	0.5499	1374447.	-0.07375	62916.	0.00
12.2000	2.05E-07	0.06314	0.03923	-1.44E-07	0.6432	1374447.	-0.06549	63964.	0.00
12.4000	1.77E-07	0.06968	0.02693	-1.34E-07	0.7097	1374447.	-0.05751	65013.	0.00
12.6000	1.51E-07	0.07391	0.01619	-1.24E-07	0.7529	1374447.	-0.04991	66061.	0.00
12.8000	1.27E-07	0.07615	0.00692	-1.13E-07	0.7757	1374447.	-0.04276	67110.	0.00
13.0000	1.06E-07	0.07668	-9.68E-04	-1.02E-07	0.7811	1374447.	-0.03612	68159.	0.00
13.2000	8.68E-08	0.07577	-0.00758	-9.06E-08	0.7718	1374447.	-0.03003	69207.	0.00
13.4000	6.98E-08	0.07365	-0.01304	-7.97E-08	0.7502	1374447.	-0.02451	70256.	0.00
13.6000	5.49E-08	0.07055	-0.01745	-6.92E-08	0.7186	1374447.	-0.01958	71304.	0.00
13.8000	4.21E-08	0.06667	-0.02093	-5.92E-08	0.6791	1374447.	-0.01523	72353.	0.00
14.0000	3.12E-08	0.06218	-0.02360	-4.98E-08	0.6334	1374447.	-0.01146	73402.	0.00
14.2000	2.22E-08	0.05723	-0.02557	-4.11E-08	0.5830	1374447.	-0.00825	74450.	0.00
14.4000	1.48E-08	0.05195	-0.02695	-3.32E-08	0.5292	1374447.	-0.00558	75499.	0.00
14.6000	8.88E-09	0.04645	-0.02785	-2.60E-08	0.4732	1374447.	-0.00340	76547.	0.00
14.8000	4.35E-09	0.04082	-0.02836	-1.97E-08	0.4157	1374447.	-0.00169	77596.	0.00
15.0000	1.01E-09	0.03511	-0.02856	-1.42E-08	0.3576	1374447.	-3.96E-04	78644.	0.00
15.2000	-1.32E-09	0.02939	-0.02855	-9.48E-09	0.2994	1374447.	5.24E-04	79693.	0.00
15.4000	-2.78E-09	0.02369	-0.02839	-5.61E-09	0.2413	1374447.	0.00112	80742.	0.00
15.6000	-3.56E-09	0.01803	-0.02813	-2.58E-09	0.1837	1374447.	0.00146	81790.	0.00

15.8000	-3.82E-09	0.01244	-0.02539	-3.62E-10	0.1267	1374447.	0.02591	1358277.	0.00
16.0000	-3.71E-09	0.00788	-0.02028	1.12E-09	0.08024	1374447.	0.02518	1358277.	0.00
16.2000	-3.37E-09	0.00432	-0.01548	2.00E-09	0.04405	1374447.	0.02288	1358277.	0.00
16.4000	-2.91E-09	0.00169	-0.01122	2.44E-09	0.01718	1374447.	0.01973	1358277.	0.00
16.6000	-2.39E-09	-1.62E-04	-0.00762	2.55E-09	0.00165	1374447.	0.01625	1358277.	0.00
16.8000	-1.88E-09	-0.00136	-0.00471	2.44E-09	0.01386	1374447.	0.01280	1358277.	0.00
17.0000	-1.42E-09	-0.00205	-0.00247	2.19E-09	0.02085	1374447.	0.00962	1358277.	0.00
17.2000	-1.01E-09	-0.00235	-8.24E-04	1.87E-09	0.02392	1374447.	0.00684	1358277.	0.00
17.4000	-6.67E-10	-0.00238	3.13E-04	1.53E-09	0.02421	1374447.	0.00453	1358277.	0.00
17.6000	-3.96E-10	-0.00222	0.00103	1.19E-09	0.02265	1374447.	0.00269	1358277.	0.00
17.8000	-1.89E-10	-0.00196	0.00143	8.90E-10	0.01999	1374447.	0.00128	1358277.	0.00
18.0000	-3.96E-11	-0.00165	0.00159	6.27E-10	0.01681	1374447.	2.69E-04	1358277.	0.00
18.2000	6.19E-11	-0.00133	0.00157	4.11E-10	0.01353	1374447.	-4.20E-04	1358277.	0.00
18.4000	1.25E-10	-0.00102	0.00145	2.40E-10	0.01041	1374447.	-8.47E-04	1358277.	0.00
18.6000	1.58E-10	-7.50E-04	0.00125	1.11E-10	0.00764	1374447.	-0.00107	1358277.	0.00
18.8000	1.69E-10	-5.21E-04	0.00103	1.84E-11	0.00530	1374447.	-0.00115	1358277.	0.00
19.0000	1.65E-10	-3.37E-04	8.04E-04	-4.40E-11	0.00344	1374447.	-0.00112	1358277.	0.00
19.2000	1.51E-10	-1.99E-04	5.89E-04	-8.31E-11	0.00203	1374447.	-0.00103	1358277.	0.00
19.4000	1.32E-10	-1.02E-04	3.97E-04	-1.05E-10	0.00103	1374447.	-8.96E-04	1358277.	0.00
19.6000	1.09E-10	-4.01E-05	2.33E-04	-1.15E-10	4.09E-04	1374447.	-7.43E-04	1358277.	0.00
19.8000	8.58E-11	-8.41E-06	1.00E-04	-1.19E-10	8.57E-05	1374447.	-5.83E-04	1358277.	0.00
20.0000	6.19E-11	0.00	0.00	-1.19E-10	0.00	1374447.	-4.21E-04	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 1:

Pile-head deflection = 0.00035823 meters
Computed slope at pile head = -0.00014854 radians
Maximum bending moment = 60.89050857 kN-m
Maximum shear force = 50.00000000 kN
Depth of maximum bending moment = 2.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 6
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 2

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 75.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	5.47E-04	7.45E-12	75.0000	-2.25E-04	7.59E-11	1374447.	0.00	0.00	0.00
0.2000	5.02E-04	15.0000	73.6380	-2.24E-04	152.7887	1374447.	-13.6201	5429.	0.00
0.4000	4.57E-04	29.4552	69.7937	-2.20E-04	300.0282	1374447.	-24.8230	10858.	0.00
0.6000	4.14E-04	42.9175	63.9435	-2.15E-04	437.1538	1374447.	-33.6787	16287.	0.00
0.8000	3.71E-04	55.0326	56.5653	-2.08E-04	560.5575	1374447.	-40.1038	21610.	0.00
1.0000	3.30E-04	65.5436	48.2600	-1.99E-04	667.6215	1374447.	-42.9491	26003.	0.00
1.2000	2.91E-04	74.3366	39.4506	-1.89E-04	757.1864	1374447.	-45.1448	30981.	0.00
1.4000	2.55E-04	81.3238	30.2667	-1.78E-04	828.3577	1374447.	-46.6946	36668.	0.00
1.6000	2.20E-04	86.4433	20.8365	-1.66E-04	880.5038	1374447.	-47.6072	43218.	0.00
1.8000	1.88E-04	89.6584	11.4719	-1.53E-04	913.2531	1374447.	-46.0386	48860.	0.00
2.0000	1.59E-04	91.0320	2.5467	-1.40E-04	927.2445	1374447.	-43.2137	54289.	0.00
2.2000	1.33E-04	90.6771	-5.7339	-1.26E-04	923.6291	1374447.	-39.5917	59718.	0.00
2.4000	1.09E-04	88.7385	-13.2315	-1.13E-04	903.8826	1374447.	-35.3850	65147.	0.00
2.6000	8.72E-05	85.3845	-17.9252	-1.01E-04	869.7190	1374447.	-11.5518	26480.	0.00
2.8000	6.84E-05	81.5684	-20.1841	-8.85E-05	830.8487	1374447.	-11.0373	32295.	0.00
3.0000	5.18E-05	77.3108	-22.3299	-7.70E-05	787.4815	1374447.	-10.4205	40210.	0.00
3.2000	3.76E-05	72.6364	-24.3401	-6.61E-05	739.8686	1374447.	-9.6819	51557.	0.00
3.4000	2.54E-05	67.5748	-26.1869	-5.59E-05	688.3109	1374447.	-8.7862	69184.	0.00
3.6000	1.52E-05	62.1617	-27.8314	-4.64E-05	633.1734	1374447.	-7.6586	100723.	0.00
3.8000	6.82E-06	56.4422	-29.2063	-3.78E-05	574.9155	1374447.	-6.0908	178501.	0.00
4.0000	8.40E-08	50.4791	-29.8185	-3.00E-05	514.1760	1374447.	-0.03074	73222.	0.00
4.2000	-5.19E-06	44.5148	-29.2516	-2.31E-05	453.4240	1374447.	5.6999	219760.	0.00
4.4000	-9.16E-06	38.7785	-27.9677	-1.71E-05	394.9943	1374447.	7.1393	155827.	0.00
4.6000	-1.20E-05	33.3277	-26.4491	-1.18E-05	339.4735	1374447.	8.0460	133983.	0.00
4.8000	-1.39E-05	28.1988	-24.7767	-7.33E-06	287.2308	1374447.	8.6785	124981.	0.00
5.0000	-1.49E-05	23.4171	-22.9961	-3.58E-06	238.5242	1374447.	9.1278	122157.	0.00
5.2000	-1.53E-05	19.0004	-21.1395	-4.93E-07	193.5365	1374447.	9.4373	123206.	0.00
5.4000	-1.51E-05	14.9612	-19.2327	1.98E-06	152.3939	1374447.	9.6315	127218.	0.00
5.6000	-1.45E-05	11.3073	-17.2969	3.89E-06	115.1756	1374447.	9.7258	133886.	0.00
5.8000	-1.36E-05	8.0425	-15.3513	5.30E-06	81.9199	1374447.	9.7305	143239.	0.00
6.0000	-1.24E-05	5.1668	-13.4130	6.26E-06	52.6288	1374447.	9.6526	155561.	0.00
6.2000	-1.11E-05	2.6773	-11.4980	6.83E-06	27.2705	1374447.	9.4973	171381.	0.00
6.4000	-9.68E-06	0.5676	-9.6214	7.06E-06	5.7817	1374447.	9.2684	191523.	0.00
6.6000	-8.26E-06	-1.1713	-7.7977	7.02E-06	11.9307	1374447.	8.9685	217221.	0.00

6.8000	-6.87E-06	-2.5515	-6.0410	6.75E-06	25.9891	1374447.	8.5989	250316.	0.00
7.0000	-5.56E-06	-3.5877	-4.3651	6.30E-06	36.5439	1374447.	8.1596	293634.	0.00
7.2000	-4.35E-06	-4.2975	-2.7844	5.73E-06	43.7742	1374447.	7.6482	351698.	0.00
7.4000	-3.27E-06	-4.7014	-1.3137	5.07E-06	47.8884	1374447.	7.0584	432240.	0.00
7.6000	-2.32E-06	-4.8230	0.02980	4.38E-06	49.1267	1374447.	6.3764	549812.	0.00
7.8000	-1.51E-06	-4.6895	1.2245	3.69E-06	47.7670	1374447.	5.5704	736161.	0.00
8.0000	-8.44E-07	-4.3332	2.2373	3.03E-06	44.1377	1374447.	4.5576	1080357.	0.00
8.2000	-3.00E-07	-3.7946	2.9947	2.44E-06	38.6515	1374447.	3.0172	2010291.	0.00
8.4000	1.33E-07	-3.1353	3.2885	1.94E-06	31.9360	1374447.	-0.07957	119706.	0.00
8.6000	4.75E-07	-2.4792	2.7720	1.53E-06	25.2529	1374447.	-5.0858	2142274.	0.00
8.8000	7.45E-07	-2.0265	1.6957	1.20E-06	20.6420	1374447.	-5.6774	1525140.	0.00
9.0000	9.55E-07	-1.8009	1.1054	9.23E-07	18.3442	1374447.	-0.2254	47187.	0.00
9.2000	1.11E-06	-1.5844	1.0560	6.76E-07	16.1383	1374447.	-0.2686	48235.	0.00
9.4000	1.23E-06	-1.3785	0.9989	4.61E-07	14.0418	1374447.	-0.3021	49284.	0.00
9.6000	1.30E-06	-1.1848	0.9361	2.74E-07	12.0683	1374447.	-0.3266	50332.	0.00
9.8000	1.34E-06	-1.0041	0.8691	1.15E-07	10.2280	1374447.	-0.3431	51381.	0.00
10.0000	1.34E-06	-0.8372	0.7995	-1.90E-08	8.5274	1374447.	-0.3523	52430.	0.00
10.2000	1.33E-06	-0.6843	0.7288	-1.30E-07	6.9703	1374447.	-0.3551	53478.	0.00
10.4000	1.29E-06	-0.5457	0.6581	-2.19E-07	5.5580	1374447.	-0.3522	54527.	0.00
10.6000	1.24E-06	-0.4211	0.5884	-2.89E-07	4.2891	1374447.	-0.3446	55575.	0.00
10.8000	1.18E-06	-0.3103	0.5206	-3.43E-07	3.1607	1374447.	-0.3330	56624.	0.00
11.0000	1.10E-06	-0.2128	0.4555	-3.81E-07	2.1679	1374447.	-0.3181	57673.	0.00
11.2000	1.02E-06	-0.1281	0.3936	-4.06E-07	1.3048	1374447.	-0.3006	58721.	0.00
11.4000	9.41E-07	-0.05538	0.3354	-4.19E-07	0.5641	1374447.	-0.2812	59770.	0.00
11.6000	8.56E-07	0.00608	0.2813	-4.22E-07	0.06195	1374447.	-0.2604	60818.	0.00
11.8000	7.72E-07	0.05713	0.2314	-4.18E-07	0.5819	1374447.	-0.2388	61867.	0.00
12.0000	6.89E-07	0.09863	0.1858	-4.07E-07	1.0046	1374447.	-0.2168	62916.	0.00
12.2000	6.09E-07	0.1315	0.1446	-3.90E-07	1.3390	1374447.	-0.1949	63964.	0.00
12.4000	5.33E-07	0.1565	0.1078	-3.69E-07	1.5939	1374447.	-0.1733	65013.	0.00
12.6000	4.62E-07	0.1746	0.07523	-3.45E-07	1.7782	1374447.	-0.1525	66061.	0.00
12.8000	3.95E-07	0.1866	0.04671	-3.19E-07	1.9004	1374447.	-0.1327	67110.	0.00
13.0000	3.34E-07	0.1933	0.02205	-2.91E-07	1.9686	1374447.	-0.1140	68159.	0.00
13.2000	2.79E-07	0.1954	9.98E-04	-2.63E-07	1.9903	1374447.	-0.09655	69207.	0.00
13.4000	2.29E-07	0.1937	-0.01671	-2.34E-07	1.9726	1374447.	-0.08056	70256.	0.00
13.6000	1.85E-07	0.1887	-0.03137	-2.06E-07	1.9222	1374447.	-0.06606	71304.	0.00
13.8000	1.47E-07	0.1811	-0.04329	-1.80E-07	1.8448	1374447.	-0.05309	72353.	0.00
14.0000	1.13E-07	0.1714	-0.05276	-1.54E-07	1.7458	1374447.	-0.04164	73402.	0.00
14.2000	8.52E-08	0.1600	-0.06010	-1.30E-07	1.6298	1374447.	-0.03171	74450.	0.00
14.4000	6.15E-08	0.1474	-0.06559	-1.07E-07	1.5009	1374447.	-0.02323	75499.	0.00
14.6000	4.22E-08	0.1338	-0.06953	-8.70E-08	1.3626	1374447.	-0.01615	76547.	0.00
14.8000	2.67E-08	0.1195	-0.07218	-6.86E-08	1.2176	1374447.	-0.01037	77596.	0.00
15.0000	1.48E-08	0.1049	-0.07380	-5.22E-08	1.0685	1374447.	-0.00581	78644.	0.00
15.2000	5.85E-09	0.09002	-0.07461	-3.81E-08	0.9170	1374447.	-0.00233	79693.	0.00
15.4000	-4.53E-10	0.07505	-0.07483	-2.60E-08	0.7645	1374447.	1.83E-04	80742.	0.00

15.6000	-4.57E-09	0.06009	-0.07462	-1.62E-08	0.6121	1374447.	0.00187	81790.	0.00
15.8000	-6.94E-09	0.04521	-0.06972	-8.55E-09	0.4605	1374447.	0.04710	1358277.	0.00
16.0000	-7.99E-09	0.03220	-0.05959	-2.91E-09	0.3280	1374447.	0.05424	1358277.	0.00
16.2000	-8.10E-09	0.02137	-0.04866	9.83E-10	0.2177	1374447.	0.05502	1358277.	0.00
16.4000	-7.59E-09	0.01274	-0.03800	3.46E-09	0.1297	1374447.	0.05157	1358277.	0.00
16.6000	-6.72E-09	0.00617	-0.02829	4.84E-09	0.06283	1374447.	0.04561	1358277.	0.00
16.8000	-5.66E-09	0.00142	-0.01988	5.39E-09	0.01450	1374447.	0.03843	1358277.	0.00
17.0000	-4.56E-09	-0.00178	-0.01294	5.37E-09	0.01818	1374447.	0.03096	1358277.	0.00
17.2000	-3.51E-09	-0.00375	-0.00746	4.96E-09	0.03824	1374447.	0.02385	1358277.	0.00
17.4000	-2.57E-09	-0.00477	-0.00333	4.34E-09	0.04858	1374447.	0.01748	1358277.	0.00
17.6000	-1.77E-09	-0.00509	-3.76E-04	3.63E-09	0.05180	1374447.	0.01205	1358277.	0.00
17.8000	-1.12E-09	-0.00492	0.00159	2.90E-09	0.05011	1374447.	0.00763	1358277.	0.00
18.0000	-6.15E-10	-0.00445	0.00277	2.22E-09	0.04531	1374447.	0.00418	1358277.	0.00
18.2000	-2.37E-10	-0.00381	0.00335	1.62E-09	0.03881	1374447.	0.00161	1358277.	0.00
18.4000	3.06E-11	-0.00311	0.00349	1.11E-09	0.03166	1374447.	-2.08E-04	1358277.	0.00
18.6000	2.08E-10	-0.00241	0.00333	7.10E-10	0.02459	1374447.	-0.00141	1358277.	0.00
18.8000	3.15E-10	-0.00178	0.00298	4.05E-10	0.01809	1374447.	-0.00214	1358277.	0.00
19.0000	3.70E-10	-0.00122	0.00251	1.87E-10	0.01246	1374447.	-0.00251	1358277.	0.00
19.2000	3.90E-10	-7.72E-04	0.00199	4.20E-11	0.00786	1374447.	-0.00265	1358277.	0.00
19.4000	3.87E-10	-4.26E-04	0.00147	-4.51E-11	0.00434	1374447.	-0.00263	1358277.	0.00
19.6000	3.72E-10	-1.85E-04	9.52E-04	-8.95E-11	0.00188	1374447.	-0.00252	1358277.	0.00
19.8000	3.51E-10	-4.47E-05	4.62E-04	-1.06E-10	4.55E-04	1374447.	-0.00238	1358277.	0.00
20.0000	3.29E-10	0.00	0.00	-1.09E-10	0.00	1374447.	-0.00223	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 2:

Pile-head deflection = 0.00054672 meters
Computed slope at pile head = -0.00022480 radians
Maximum bending moment = 91.03201725 kN-m
Maximum shear force = 75.00000000 kN
Depth of maximum bending moment = 2.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 7
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 3

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 100.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	7.99E-04	4.10E-11	100.0000	-3.17E-04	4.17E-10	1374447.	0.00	0.00	0.00
0.2000	7.35E-04	20.0000	98.0045	-3.16E-04	203.7183	1374447.	-19.9548	5429.	0.00
0.4000	6.72E-04	39.2018	92.3592	-3.11E-04	399.3063	1374447.	-36.4985	10858.	0.00
0.6000	6.11E-04	56.9437	84.2603	-3.04E-04	580.0235	1374447.	-44.4907	14573.	0.00
0.8000	5.51E-04	72.9059	74.9261	-2.95E-04	742.6136	1374447.	-48.8506	17745.	0.00
1.0000	4.93E-04	86.9141	64.7954	-2.83E-04	885.3001	1374447.	-52.4570	21295.	0.00
1.2000	4.37E-04	98.8241	54.0190	-2.70E-04	1007.	1374447.	-55.3065	25296.	0.00
1.4000	3.85E-04	108.5217	42.7482	-2.55E-04	1105.	1374447.	-57.4017	29837.	0.00
1.6000	3.35E-04	115.9233	31.1330	-2.38E-04	1181.	1374447.	-58.7508	35031.	0.00
1.8000	2.89E-04	120.9749	19.3212	-2.21E-04	1232.	1374447.	-59.3670	41020.	0.00
2.0000	2.47E-04	123.6518	7.4577	-2.03E-04	1260.	1374447.	-59.2675	47990.	0.00
2.2000	2.08E-04	123.9580	-4.3162	-1.85E-04	1263.	1374447.	-58.4715	56184.	0.00
2.4000	1.73E-04	121.9254	-15.7952	-1.67E-04	1242.	1374447.	-56.3188	65147.	0.00
2.6000	1.41E-04	117.6399	-22.7835	-1.50E-04	1198.	1374447.	-13.5644	19213.	0.00
2.8000	1.13E-04	112.8119	-25.4449	-1.33E-04	1149.	1374447.	-13.0491	23111.	0.00
3.0000	8.79E-05	107.4620	-27.9926	-1.17E-04	1095.	1374447.	-12.4281	28268.	0.00
3.2000	6.61E-05	101.6149	-30.4039	-1.02E-04	1035.	1374447.	-11.6851	35374.	0.00
3.4000	4.72E-05	95.3004	-32.6516	-8.76E-05	970.7221	1374447.	-10.7921	45769.	0.00
3.6000	3.10E-05	88.5543	-34.7005	-7.42E-05	902.0062	1374447.	-9.6962	62505.	0.00
3.8000	1.75E-05	81.4202	-36.4979	-6.19E-05	829.3397	1374447.	-8.2779	94773.	0.00
4.0000	6.28E-06	73.9551	-37.9397	-5.06E-05	753.3005	1374447.	-6.1401	195490.	0.00
4.2000	-2.75E-06	66.2444	-38.1033	-4.04E-05	674.7596	1374447.	4.5041	327207.	0.00
4.4000	-9.86E-06	58.7138	-36.9221	-3.13E-05	598.0538	1374447.	7.3081	148238.	0.00
4.6000	-1.53E-05	51.4755	-35.3190	-2.32E-05	524.3256	1374447.	8.7223	114330.	0.00
4.8000	-1.92E-05	44.5862	-33.4791	-1.63E-05	454.1512	1374447.	9.6765	101017.	0.00
5.0000	-2.18E-05	38.0839	-31.4748	-1.02E-05	387.9193	1374447.	10.3666	95278.	0.00
5.2000	-2.33E-05	31.9963	-29.3510	-5.14E-06	325.9112	1374447.	10.8715	93498.	0.00
5.4000	-2.38E-05	26.3435	-27.1407	-8.98E-07	268.3326	1374447.	11.2315	94311.	0.00
5.6000	-2.36E-05	21.1400	-24.8705	2.56E-06	215.3301	1374447.	11.4704	97147.	0.00
5.8000	-2.28E-05	16.3953	-22.5632	5.29E-06	167.0010	1374447.	11.6031	101802.	0.00
6.0000	-2.15E-05	12.1147	-20.2388	7.36E-06	123.3995	1374447.	11.6400	108281.	0.00
6.2000	-1.99E-05	8.2997	-17.9160	8.85E-06	84.5405	1374447.	11.5881	116751.	0.00
6.4000	-1.80E-05	4.9483	-15.6120	9.81E-06	50.4030	1374447.	11.4527	127530.	0.00

6.6000	-1.59E-05	2.0550	-13.3429	1.03E-05	20.9317	1374447.	11.2375	141115.	0.00
6.8000	-1.38E-05	-0.3889	-11.1247	1.04E-05	3.9610	1374447.	10.9449	158246.	0.00
7.0000	-1.18E-05	-2.3949	-8.9726	1.02E-05	24.3944	1374447.	10.5762	180018.	0.00
7.2000	-9.74E-06	-3.9779	-6.9018	9.78E-06	40.5186	1374447.	10.1312	208092.	0.00
7.4000	-7.84E-06	-5.1556	-4.9280	9.11E-06	52.5150	1374447.	9.6076	245088.	0.00
7.6000	-6.09E-06	-5.9491	-3.0672	8.30E-06	60.5969	1374447.	8.9995	295404.	0.00
7.8000	-4.52E-06	-6.3825	-1.3378	7.41E-06	65.0121	1374447.	8.2947	367100.	0.00
8.0000	-3.13E-06	-6.4842	0.2384	6.47E-06	66.0477	1374447.	7.4675	477032.	0.00
8.2000	-1.93E-06	-6.2872	1.6310	5.54E-06	64.0408	1374447.	6.4586	668842.	0.00
8.4000	-9.15E-07	-5.8318	2.7862	4.66E-06	59.4025	1374447.	5.0936	1113681.	0.00
8.6000	-6.79E-08	-5.1727	3.3002	3.86E-06	52.6888	1374447.	0.04612	135828.	0.00
8.8000	6.28E-07	-4.5117	2.7804	3.15E-06	45.9563	1374447.	-5.2443	1669187.	0.00
9.0000	1.19E-06	-4.0606	2.2278	2.53E-06	41.3605	1374447.	-0.2816	47187.	0.00
9.2000	1.64E-06	-3.6206	2.1601	1.97E-06	36.8794	1374447.	-0.3956	48235.	0.00
9.4000	1.98E-06	-3.1965	2.0717	1.47E-06	32.5596	1374447.	-0.4883	49284.	0.00
9.6000	2.23E-06	-2.7920	1.9667	1.04E-06	28.4386	1374447.	-0.5612	50332.	0.00
9.8000	2.40E-06	-2.4098	1.8490	6.60E-07	24.5464	1374447.	-0.6158	51381.	0.00
10.0000	2.49E-06	-2.0523	1.7221	3.36E-07	20.9050	1374447.	-0.6538	52430.	0.00
10.2000	2.53E-06	-1.7210	1.5890	6.13E-08	17.5301	1374447.	-0.6769	53478.	0.00
10.4000	2.52E-06	-1.4168	1.4526	-1.67E-07	14.4309	1374447.	-0.6867	54527.	0.00
10.6000	2.46E-06	-1.1400	1.3155	-3.53E-07	11.6115	1374447.	-0.6849	55575.	0.00
10.8000	2.38E-06	-0.8906	1.1797	-5.01E-07	9.0712	1374447.	-0.6731	56624.	0.00
11.0000	2.26E-06	-0.6681	1.0471	-6.14E-07	6.8051	1374447.	-0.6530	57673.	0.00
11.2000	2.13E-06	-0.4717	0.9192	-6.97E-07	4.8051	1374447.	-0.6259	58721.	0.00
11.4000	1.99E-06	-0.3004	0.7972	-7.53E-07	3.0601	1374447.	-0.5934	59770.	0.00
11.6000	1.83E-06	-0.1528	0.6822	-7.86E-07	1.5568	1374447.	-0.5566	60818.	0.00
11.8000	1.67E-06	-0.02752	0.5749	-7.99E-07	0.2803	1374447.	-0.5169	61867.	0.00
12.0000	1.51E-06	0.07712	0.4757	-7.96E-07	0.7855	1374447.	-0.4752	62916.	0.00
12.2000	1.35E-06	0.1627	0.3849	-7.78E-07	1.6577	1374447.	-0.4326	63964.	0.00
12.4000	1.20E-06	0.2311	0.3026	-7.50E-07	2.3537	1374447.	-0.3899	65013.	0.00
12.6000	1.05E-06	0.2838	0.2289	-7.12E-07	2.8908	1374447.	-0.3478	66061.	0.00
12.8000	9.15E-07	0.3226	0.1634	-6.68E-07	3.2862	1374447.	-0.3069	67110.	0.00
13.0000	7.86E-07	0.3492	0.1059	-6.19E-07	3.5566	1374447.	-0.2677	68159.	0.00
13.2000	6.67E-07	0.3650	0.05610	-5.67E-07	3.7179	1374447.	-0.2308	69207.	0.00
13.4000	5.59E-07	0.3716	0.01340	-5.14E-07	3.7852	1374447.	-0.1963	70256.	0.00
13.6000	4.61E-07	0.3704	-0.02268	-4.60E-07	3.7725	1374447.	-0.1645	71304.	0.00
13.8000	3.75E-07	0.3625	-0.05269	-4.06E-07	3.6928	1374447.	-0.1356	72353.	0.00
14.0000	2.99E-07	0.3493	-0.07721	-3.55E-07	3.5578	1374447.	-0.1097	73402.	0.00
14.2000	2.33E-07	0.3317	-0.09686	-3.05E-07	3.3782	1374447.	-0.08674	74450.	0.00
14.4000	1.77E-07	0.3105	-0.1122	-2.58E-07	3.1632	1374447.	-0.06675	75499.	0.00
14.6000	1.30E-07	0.2868	-0.1238	-2.15E-07	2.9210	1374447.	-0.04964	76547.	0.00
14.8000	9.09E-08	0.2610	-0.1323	-1.75E-07	2.6586	1374447.	-0.03527	77596.	0.00
15.0000	5.97E-08	0.2338	-0.1382	-1.39E-07	2.3818	1374447.	-0.02348	78644.	0.00
15.2000	3.53E-08	0.2057	-0.1420	-1.07E-07	2.0955	1374447.	-0.01407	79693.	0.00

15.4000	1.69E-08	0.1770	-0.1441	-7.91E-08	1.8034	1374447.	-0.00682	80742.	0.00
15.6000	3.65E-09	0.1481	-0.1449	-5.55E-08	1.5085	1374447.	-0.00149	81790.	0.00
15.8000	-5.29E-09	0.1191	-0.1414	-3.61E-08	1.2131	1374447.	0.03595	1358277.	0.00
16.0000	-1.08E-08	0.09152	-0.1305	-2.07E-08	0.9323	1374447.	0.07315	1358277.	0.00
16.2000	-1.36E-08	0.06688	-0.1140	-9.20E-09	0.6812	1374447.	0.09226	1358277.	0.00
16.4000	-1.45E-08	0.04593	-0.09495	-9.97E-10	0.4678	1374447.	0.09815	1358277.	0.00
16.6000	-1.40E-08	0.02890	-0.07564	4.45E-09	0.2944	1374447.	0.09497	1358277.	0.00
16.8000	-1.27E-08	0.01567	-0.05753	7.69E-09	0.1596	1374447.	0.08607	1358277.	0.00
17.0000	-1.09E-08	0.00589	-0.04152	9.26E-09	0.05996	1374447.	0.07408	1358277.	0.00
17.2000	-8.97E-09	-9.36E-04	-0.02802	9.62E-09	0.00954	1374447.	0.06092	1358277.	0.00
17.4000	-7.06E-09	-0.00532	-0.01713	9.16E-09	0.05421	1374447.	0.04795	1358277.	0.00
17.6000	-5.30E-09	-0.00779	-0.00874	8.21E-09	0.07934	1374447.	0.03603	1358277.	0.00
17.8000	-3.78E-09	-0.00882	-0.00257	7.00E-09	0.08980	1374447.	0.02565	1358277.	0.00
18.0000	-2.50E-09	-0.00882	0.00170	5.72E-09	0.08980	1374447.	0.01701	1358277.	0.00
18.2000	-1.49E-09	-0.00814	0.00441	4.48E-09	0.08288	1374447.	0.01011	1358277.	0.00
18.4000	-7.11E-10	-0.00705	0.00590	3.38E-09	0.07183	1374447.	0.00483	1358277.	0.00
18.6000	-1.37E-10	-0.00577	0.00648	2.45E-09	0.05882	1374447.	9.32E-04	1358277.	0.00
18.8000	2.68E-10	-0.00446	0.00639	1.70E-09	0.04543	1374447.	-0.00182	1358277.	0.00
19.0000	5.43E-10	-0.00322	0.00584	1.14E-09	0.03278	1374447.	-0.00369	1358277.	0.00
19.2000	7.25E-10	-0.00212	0.00498	7.54E-10	0.02164	1374447.	-0.00493	1358277.	0.00
19.4000	8.45E-10	-0.00123	0.00391	5.11E-10	0.01250	1374447.	-0.00574	1358277.	0.00
19.6000	9.29E-10	-5.59E-04	0.00271	3.81E-10	0.00570	1374447.	-0.00631	1358277.	0.00
19.8000	9.97E-10	-1.44E-04	0.00140	3.29E-10	0.00147	1374447.	-0.00677	1358277.	0.00
20.0000	1.06E-09	0.00	0.00	3.19E-10	0.00	1374447.	-0.00721	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 3:

Pile-head deflection = 0.00079854 meters
Computed slope at pile head = -0.00031707 radians
Maximum bending moment = 123.95801525 kN-m
Maximum shear force = 100.00000000 kN
Depth of maximum bending moment = 2.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 9
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 4

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 125.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00111	2.24E-11	125.0000	-4.22E-04	2.28E-10	1374447.	0.00	0.00	0.00
0.2000	0.00103	25.0000	122.2146	-4.20E-04	254.6479	1374447.	-27.8540	5429.	0.00
0.4000	9.42E-04	48.8858	114.7657	-4.15E-04	497.9471	1374447.	-46.6348	9896.	0.00
0.6000	8.60E-04	70.9063	104.8215	-4.06E-04	722.2455	1374447.	-52.8074	12277.	0.00
0.8000	7.80E-04	90.8144	93.7261	-3.94E-04	925.0283	1374447.	-58.1463	14908.	0.00
1.0000	7.03E-04	108.3967	81.6474	-3.80E-04	1104.	1374447.	-62.6406	17833.	0.00
1.2000	6.28E-04	123.4734	68.7548	-3.63E-04	1258.	1374447.	-66.2860	21105.	0.00
1.4000	5.57E-04	135.8987	55.2177	-3.44E-04	1384.	1374447.	-69.0849	24789.	0.00
1.6000	4.91E-04	145.5605	41.2046	-3.24E-04	1483.	1374447.	-71.0459	28965.	0.00
1.8000	4.28E-04	152.3805	26.8817	-3.02E-04	1552.	1374447.	-72.1829	33733.	0.00
2.0000	3.70E-04	156.3132	12.4120	-2.79E-04	1592.	1374447.	-72.5142	39216.	0.00
2.2000	3.16E-04	157.3453	-2.0455	-2.57E-04	1603.	1374447.	-72.0607	45578.	0.00
2.4000	2.67E-04	155.4950	-16.3359	-2.34E-04	1584.	1374447.	-70.8437	53030.	0.00
2.6000	2.23E-04	150.8110	-24.9987	-2.12E-04	1536.	1374447.	-15.7845	14176.	0.00
2.8000	1.83E-04	145.4955	-28.1081	-1.90E-04	1482.	1374447.	-15.3094	16771.	0.00
3.0000	1.47E-04	139.5677	-31.1122	-1.69E-04	1422.	1374447.	-14.7317	20085.	0.00
3.2000	1.15E-04	133.0506	-33.9894	-1.49E-04	1355.	1374447.	-14.0399	24443.	0.00
3.4000	8.69E-05	125.9720	-36.7150	-1.31E-04	1283.	1374447.	-13.2160	30404.	0.00
3.6000	6.27E-05	118.3647	-39.2596	-1.13E-04	1206.	1374447.	-12.2301	39037.	0.00
3.8000	4.18E-05	110.2681	-41.5852	-9.61E-05	1123.	1374447.	-11.0259	52722.	0.00
4.0000	2.42E-05	101.7306	-43.6358	-8.07E-05	1036.	1374447.	-9.4798	78334.	0.00
4.2000	9.54E-06	92.8138	-45.3040	-6.66E-05	945.3940	1374447.	-7.2029	150994.	0.00
4.4000	-2.42E-06	83.6090	-45.5811	-5.37E-05	851.6340	1374447.	4.4323	366137.	0.00
4.6000	-1.19E-05	74.5814	-44.3348	-4.22E-05	759.6800	1374447.	8.0302	134401.	0.00
4.8000	-1.93E-05	65.8751	-42.5610	-3.20E-05	670.9978	1374447.	9.7077	100558.	0.00
5.0000	-2.47E-05	57.5570	-40.5070	-2.30E-05	586.2708	1374447.	10.8325	87540.	0.00
5.2000	-2.85E-05	49.6723	-38.2587	-1.52E-05	505.9574	1374447.	11.6505	81717.	0.00
5.4000	-3.08E-05	42.2535	-35.8679	-8.53E-06	430.3908	1374447.	12.2573	79504.	0.00
5.6000	-3.19E-05	35.3251	-33.3721	-2.88E-06	359.8183	1374447.	12.7010	79568.	0.00
5.8000	-3.20E-05	28.9047	-30.8011	1.79E-06	294.4207	1374447.	13.0094	81340.	0.00
6.0000	-3.12E-05	23.0047	-28.1801	5.57E-06	234.3235	1374447.	13.1999	84591.	0.00
6.2000	-2.98E-05	17.6326	-25.5317	8.52E-06	179.6045	1374447.	13.2842	89274.	0.00

6.4000	-2.78E-05	12.7920	-22.8763	1.07E-05	130.2979	1374447.	13.2705	95474.	0.00
6.6000	-2.55E-05	8.4821	-20.2327	1.23E-05	86.3982	1374447.	13.1646	103391.	0.00
6.8000	-2.29E-05	4.6989	-17.6193	1.32E-05	47.8623	1374447.	12.9702	113351.	0.00
7.0000	-2.02E-05	1.4344	-15.0532	1.37E-05	14.6109	1374447.	12.6901	125845.	0.00
7.2000	-1.74E-05	-1.3224	-12.5517	1.37E-05	13.4701	1374447.	12.3252	141598.	0.00
7.4000	-1.47E-05	-3.5863	-10.1317	1.33E-05	36.5293	1374447.	11.8751	161696.	0.00
7.6000	-1.21E-05	-5.3751	-7.8104	1.27E-05	54.7502	1374447.	11.3372	187825.	0.00
7.8000	-9.61E-06	-6.7104	-5.6062	1.18E-05	68.3519	1374447.	10.7054	222742.	0.00
8.0000	-7.35E-06	-7.6176	-3.5388	1.08E-05	77.5918	1374447.	9.9679	271312.	0.00
8.2000	-5.31E-06	-8.1260	-1.6319	9.62E-06	82.7704	1374447.	9.1017	343125.	0.00
8.4000	-3.50E-06	-8.2703	0.08415	8.43E-06	84.2406	1374447.	8.0584	460620.	0.00
8.6000	-1.93E-06	-8.0923	1.6389	7.24E-06	82.4275	1374447.	7.4894	774743.	0.00
8.8000	-6.03E-07	-7.6147	2.8914	6.10E-06	77.5630	1374447.	5.0352	1669157.	0.00
9.0000	5.05E-07	-6.9357	3.3830	5.04E-06	70.6469	1374447.	-0.1192	47187.	0.00
9.2000	1.41E-06	-6.2615	3.3370	4.08E-06	63.7794	1374447.	-0.3405	48235.	0.00
9.4000	2.14E-06	-5.6009	3.2504	3.21E-06	57.0506	1374447.	-0.5264	49284.	0.00
9.6000	2.70E-06	-4.9614	3.1298	2.45E-06	50.5363	1374447.	-0.6789	50332.	0.00
9.8000	3.11E-06	-4.3490	2.9819	1.77E-06	44.2985	1374447.	-0.8001	51381.	0.00
10.0000	3.40E-06	-3.7686	2.8127	1.18E-06	38.3868	1374447.	-0.8926	52430.	0.00
10.2000	3.59E-06	-3.2239	2.6275	6.69E-07	32.8387	1374447.	-0.9588	53478.	0.00
10.4000	3.67E-06	-2.7176	2.4315	2.37E-07	27.6813	1374447.	-1.0013	54527.	0.00
10.6000	3.68E-06	-2.2513	2.2291	-1.25E-07	22.9318	1374447.	-1.0227	55575.	0.00
10.8000	3.62E-06	-1.8260	2.0243	-4.21E-07	18.5990	1374447.	-1.0256	56624.	0.00
11.0000	3.51E-06	-1.4416	1.8205	-6.59E-07	14.6841	1374447.	-1.0127	57673.	0.00
11.2000	3.36E-06	-1.0978	1.6206	-8.44E-07	11.1818	1374447.	-0.9862	58721.	0.00
11.4000	3.17E-06	-0.7934	1.4271	-9.81E-07	8.0813	1374447.	-0.9486	59770.	0.00
11.6000	2.97E-06	-0.5269	1.2420	-1.08E-06	5.3673	1374447.	-0.9021	60818.	0.00
11.8000	2.74E-06	-0.2966	1.0669	-1.14E-06	3.0209	1374447.	-0.8486	61867.	0.00
12.0000	2.51E-06	-0.1002	0.9031	-1.17E-06	1.0202	1374447.	-0.7901	62916.	0.00
12.2000	2.28E-06	0.06465	0.7512	-1.17E-06	0.6586	1374447.	-0.7282	63964.	0.00
12.4000	2.04E-06	0.2003	0.6120	-1.15E-06	2.0407	1374447.	-0.6644	65013.	0.00
12.6000	1.82E-06	0.3095	0.4855	-1.11E-06	3.1520	1374447.	-0.6002	66061.	0.00
12.8000	1.60E-06	0.3946	0.3719	-1.06E-06	4.0189	1374447.	-0.5365	67110.	0.00
13.0000	1.39E-06	0.4582	0.2707	-9.99E-07	4.6671	1374447.	-0.4746	68159.	0.00
13.2000	1.20E-06	0.5029	0.1818	-9.29E-07	5.1220	1374447.	-0.4150	69207.	0.00
13.4000	1.02E-06	0.5309	0.1044	-8.54E-07	5.4078	1374447.	-0.3586	70256.	0.00
13.6000	8.58E-07	0.5446	0.03799	-7.76E-07	5.5475	1374447.	-0.3058	71304.	0.00
13.8000	7.10E-07	0.5461	-0.01829	-6.96E-07	5.5626	1374447.	-0.2570	72353.	0.00
14.0000	5.79E-07	0.5373	-0.06525	-6.18E-07	5.4730	1374447.	-0.2125	73402.	0.00
14.2000	4.63E-07	0.5200	-0.1038	-5.41E-07	5.2968	1374447.	-0.1725	74450.	0.00
14.4000	3.63E-07	0.4958	-0.1347	-4.67E-07	5.0503	1374447.	-0.1370	75499.	0.00
14.6000	2.77E-07	0.4661	-0.1590	-3.97E-07	4.7479	1374447.	-0.1059	76547.	0.00
14.8000	2.04E-07	0.4322	-0.1775	-3.31E-07	4.4025	1374447.	-0.07920	77596.	0.00
15.0000	1.44E-07	0.3951	-0.1911	-2.71E-07	4.0247	1374447.	-0.05668	78644.	0.00

15.2000	9.56E-08	0.3558	-0.2006	-2.17E-07	3.6239	1374447.	-0.03811	79693.	0.00
15.4000	5.75E-08	0.3149	-0.2067	-1.68E-07	3.2076	1374447.	-0.02321	80742.	0.00
15.6000	2.85E-08	0.2731	-0.2102	-1.25E-07	2.7818	1374447.	-0.01166	81790.	0.00
15.8000	7.47E-09	0.2308	-0.2164	-8.84E-08	2.3512	1374447.	-0.05076	1358277.	0.00
16.0000	-6.84E-09	0.1865	-0.2169	-5.80E-08	1.9000	1374447.	0.04647	1358277.	0.00
16.2000	-1.57E-08	0.1441	-0.2015	-3.40E-08	1.4677	1374447.	0.1068	1358277.	0.00
16.4000	-2.04E-08	0.1059	-0.1770	-1.58E-08	1.0789	1374447.	0.1387	1358277.	0.00
16.6000	-2.20E-08	0.07330	-0.1481	-2.73E-09	0.7466	1374447.	0.1497	1358277.	0.00
16.8000	-2.15E-08	0.04666	-0.1186	6.00E-09	0.4753	1374447.	0.1461	1358277.	0.00
17.0000	-1.96E-08	0.02587	-0.09061	1.13E-08	0.2636	1374447.	0.1333	1358277.	0.00
17.2000	-1.70E-08	0.01042	-0.06573	1.39E-08	0.1061	1374447.	0.1155	1358277.	0.00
17.4000	-1.41E-08	-4.19E-04	-0.04463	1.46E-08	0.00427	1374447.	0.09553	1358277.	0.00
17.6000	-1.11E-08	-0.00743	-0.02751	1.41E-08	0.07573	1374447.	0.07567	1358277.	0.00
17.8000	-8.44E-09	-0.01142	-0.01422	1.27E-08	0.1164	1374447.	0.05729	1358277.	0.00
18.0000	-6.06E-09	-0.01312	-0.00437	1.09E-08	0.1336	1374447.	0.04116	1358277.	0.00
18.2000	-4.07E-09	-0.01317	0.00251	9.01E-09	0.1342	1374447.	0.02763	1358277.	0.00
18.4000	-2.46E-09	-0.01212	0.00694	7.17E-09	0.1234	1374447.	0.01670	1358277.	0.00
18.6000	-1.20E-09	-0.01040	0.00943	5.53E-09	0.1059	1374447.	0.00816	1358277.	0.00
18.8000	-2.47E-10	-0.00835	0.01041	4.16E-09	0.08502	1374447.	0.00168	1358277.	0.00
19.0000	4.64E-10	-0.00623	0.01026	3.10E-09	0.06347	1374447.	-0.00315	1358277.	0.00
19.2000	9.94E-10	-0.00424	0.00927	2.34E-09	0.04320	1374447.	-0.00675	1358277.	0.00
19.4000	1.40E-09	-0.00252	0.00765	1.85E-09	0.02569	1374447.	-0.00951	1358277.	0.00
19.6000	1.73E-09	-0.00118	0.00552	1.58E-09	0.01205	1374447.	-0.01178	1358277.	0.00
19.8000	2.03E-09	-3.15E-04	0.00296	1.47E-09	0.00321	1374447.	-0.01381	1358277.	0.00
20.0000	2.32E-09	0.00	0.00	1.45E-09	0.00	1374447.	-0.01577	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 4:

Pile-head deflection = 0.00111051 meters
Computed slope at pile head = -0.00042192 radians
Maximum bending moment = 157.34532261 kN-m
Maximum shear force = 125.00000000 kN
Depth of maximum bending moment = 2.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 11
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection

for Lateral Loading for Load Case Number 5

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 150.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00147	-7.45E-12	150.0000	-5.36E-04	7.59E-11	1374447.	0.00	0.00	0.00
0.2000	0.00136	30.0000	146.3118	-5.34E-04	305.5775	1374447.	-36.8823	5429.	0.00
0.4000	0.00125	58.5247	137.2477	-5.27E-04	596.1278	1374447.	-53.7584	8585.	0.00
0.6000	0.00115	84.8991	125.7720	-5.17E-04	864.7749	1374447.	-60.9984	10628.	0.00
0.8000	0.00105	108.8335	112.9400	-5.03E-04	1109.	1374447.	-67.3217	12876.	0.00
1.0000	9.47E-04	130.0751	98.9362	-4.85E-04	1325.	1374447.	-72.7163	15361.	0.00
1.2000	8.52E-04	148.4080	83.9468	-4.65E-04	1512.	1374447.	-77.1774	18125.	0.00
1.4000	7.61E-04	163.6538	68.1583	-4.42E-04	1667.	1374447.	-80.7072	21218.	0.00
1.6000	6.75E-04	175.6713	51.7562	-4.18E-04	1789.	1374447.	-83.3144	24698.	0.00
1.8000	5.94E-04	184.3563	34.9234	-3.91E-04	1878.	1374447.	-85.0133	28639.	0.00
2.0000	5.18E-04	189.6407	17.8398	-3.64E-04	1932.	1374447.	-85.8231	33131.	0.00
2.2000	4.48E-04	191.4922	0.6809	-3.37E-04	1951.	1374447.	-85.7659	38289.	0.00
2.4000	3.83E-04	189.9130	-16.3822	-3.09E-04	1934.	1374447.	-84.8645	44261.	0.00
2.6000	3.24E-04	184.9393	-26.6579	-2.81E-04	1884.	1374447.	-17.8925	11028.	0.00
2.8000	2.71E-04	179.2499	-30.1929	-2.55E-04	1826.	1374447.	-17.4579	12890.	0.00
3.0000	2.22E-04	172.8622	-33.6309	-2.29E-04	1761.	1374447.	-16.9218	15212.	0.00
3.2000	1.79E-04	165.7975	-36.9506	-2.05E-04	1689.	1374447.	-16.2753	18172.	0.00
3.4000	1.41E-04	158.0819	-40.1287	-1.81E-04	1610.	1374447.	-15.5056	22059.	0.00
3.6000	1.07E-04	149.7461	-43.1385	-1.59E-04	1525.	1374447.	-14.5925	27365.	0.00
3.8000	7.71E-05	140.8265	-45.9480	-1.38E-04	1434.	1374447.	-13.5024	35037.	0.00
4.0000	5.16E-05	131.3669	-48.5155	-1.18E-04	1338.	1374447.	-12.1724	47184.	0.00
4.2000	2.99E-05	121.4204	-50.7791	-9.94E-05	1237.	1374447.	-10.4640	69899.	0.00
4.4000	1.18E-05	111.0553	-52.6196	-8.25E-05	1131.	1374447.	-7.9412	134385.	0.00
4.6000	-3.07E-06	100.3725	-52.9179	-6.71E-05	1022.	1374447.	4.9587	322935.	0.00
4.8000	-1.50E-05	89.8881	-51.5309	-5.33E-05	915.5927	1374447.	8.9109	118499.	0.00
5.0000	-2.44E-05	79.7601	-49.5624	-4.10E-05	812.4301	1374447.	10.7738	88339.	0.00
5.2000	-3.14E-05	70.0631	-47.2818	-3.01E-05	713.6571	1374447.	12.0326	76584.	0.00
5.4000	-3.64E-05	60.8474	-44.7828	-2.05E-05	619.7867	1374447.	12.9574	71164.	0.00
5.6000	-3.96E-05	52.1500	-42.1217	-1.23E-05	531.1956	1374447.	13.6536	68893.	0.00
5.8000	-4.13E-05	43.9987	-39.3389	-5.32E-06	448.1675	1374447.	14.1743	68573.	0.00
6.0000	-4.18E-05	36.4144	-36.4664	5.33E-07	370.9145	1374447.	14.5505	69679.	0.00

6.2000	-4.11E-05	29.4122	-33.5312	5.32E-06	299.5899	1374447.	14.8019	71980.	0.00
6.4000	-3.96E-05	23.0020	-30.5568	9.14E-06	234.2962	1374447.	14.9419	75397.	0.00
6.6000	-3.75E-05	17.1895	-27.5646	1.21E-05	175.0904	1374447.	14.9801	79950.	0.00
6.8000	-3.48E-05	11.9761	-24.5742	1.42E-05	121.9880	1374447.	14.9236	85739.	0.00
7.0000	-3.18E-05	7.3598	-21.6041	1.56E-05	74.9660	1374447.	14.7779	92940.	0.00
7.2000	-2.86E-05	3.3345	-18.6715	1.64E-05	33.9652	1374447.	14.5474	101815.	0.00
7.4000	-2.53E-05	-0.1088	-15.7932	1.66E-05	1.1086	1374447.	14.2355	112737.	0.00
7.6000	-2.19E-05	-2.9828	-12.9852	1.64E-05	30.3822	1374447.	13.8446	126230.	0.00
7.8000	-1.87E-05	-5.3029	-10.2631	1.58E-05	54.0151	1374447.	13.3766	143037.	0.00
8.0000	-1.56E-05	-7.0880	-7.6422	1.49E-05	72.1979	1374447.	12.8321	164239.	0.00
8.2000	-1.28E-05	-8.3598	-5.1380	1.37E-05	85.1524	1374447.	12.2102	191460.	0.00
8.4000	-1.01E-05	-9.1432	-2.7662	1.25E-05	93.1320	1374447.	11.5075	227266.	0.00
8.6000	-7.76E-06	-9.4663	-0.4207	1.11E-05	96.4230	1374447.	11.9482	307746.	0.00
8.8000	-5.68E-06	-9.3115	1.8502	9.75E-06	94.8459	1374447.	10.7608	378995.	0.00
9.0000	-3.86E-06	-8.7262	3.0174	8.44E-06	88.8845	1374447.	0.9114	47187.	0.00
9.2000	-2.30E-06	-8.1045	3.1641	7.22E-06	82.5518	1374447.	0.5551	48235.	0.00
9.4000	-9.76E-07	-7.4606	3.2437	6.09E-06	75.9928	1374447.	0.2405	49284.	0.00
9.6000	1.32E-07	-6.8070	3.2644	5.05E-06	69.3359	1374447.	-0.03331	50332.	0.00
9.8000	1.04E-06	-6.1548	3.2343	4.10E-06	62.6925	1374447.	-0.2679	51381.	0.00
10.0000	1.77E-06	-5.5133	3.1610	3.26E-06	56.1583	1374447.	-0.4650	52430.	0.00
10.2000	2.34E-06	-4.8904	3.0518	2.50E-06	49.8135	1374447.	-0.6270	53478.	0.00
10.4000	2.77E-06	-4.2926	2.9135	1.83E-06	43.7242	1374447.	-0.7561	54527.	0.00
10.6000	3.08E-06	-3.7250	2.7524	1.25E-06	37.9430	1374447.	-0.8550	55575.	0.00
10.8000	3.27E-06	-3.1917	2.5742	7.43E-07	32.5101	1374447.	-0.9263	56624.	0.00
11.0000	3.37E-06	-2.6953	2.3843	3.15E-07	27.4546	1374447.	-0.9730	57673.	0.00
11.2000	3.40E-06	-2.2379	2.1872	-4.38E-08	22.7956	1374447.	-0.9977	58721.	0.00
11.4000	3.36E-06	-1.8205	1.9872	-3.39E-07	18.5430	1374447.	-1.0031	59770.	0.00
11.6000	3.26E-06	-1.4431	1.7876	-5.77E-07	14.6992	1374447.	-0.9921	60818.	0.00
11.8000	3.13E-06	-1.1054	1.5917	-7.62E-07	11.2595	1374447.	-0.9670	61867.	0.00
12.0000	2.96E-06	-0.8064	1.4020	-9.01E-07	8.2139	1374447.	-0.9304	62916.	0.00
12.2000	2.77E-06	-0.5446	1.2205	-9.99E-07	5.5473	1374447.	-0.8845	63964.	0.00
12.4000	2.56E-06	-0.3182	1.0489	-1.06E-06	3.2411	1374447.	-0.8315	65013.	0.00
12.6000	2.34E-06	-0.1250	0.8884	-1.09E-06	1.2737	1374447.	-0.7732	66061.	0.00
12.8000	2.12E-06	0.03718	0.7400	-1.10E-06	0.3787	1374447.	-0.7114	67110.	0.00
13.0000	1.90E-06	0.1709	0.6041	-1.09E-06	1.7412	1374447.	-0.6477	68159.	0.00
13.2000	1.69E-06	0.2788	0.4810	-1.05E-06	2.8399	1374447.	-0.5834	69207.	0.00
13.4000	1.48E-06	0.3633	0.3707	-1.01E-06	3.7008	1374447.	-0.5197	70256.	0.00
13.6000	1.28E-06	0.4271	0.2729	-9.49E-07	4.3500	1374447.	-0.4576	71304.	0.00
13.8000	1.10E-06	0.4725	0.1874	-8.83E-07	4.8128	1374447.	-0.3979	72353.	0.00
14.0000	9.30E-07	0.5020	0.1134	-8.12E-07	5.1135	1374447.	-0.3414	73402.	0.00
14.2000	7.75E-07	0.5179	0.05046	-7.38E-07	5.2751	1374447.	-0.2885	74450.	0.00
14.4000	6.35E-07	0.5222	-0.00236	-6.62E-07	5.3191	1374447.	-0.2397	75499.	0.00
14.6000	5.10E-07	0.5169	-0.04585	-5.87E-07	5.2655	1374447.	-0.1952	76547.	0.00
14.8000	4.00E-07	0.5039	-0.08090	-5.13E-07	5.1323	1374447.	-0.1553	77596.	0.00

15.0000	3.05E-07	0.4846	-0.1084	-4.41E-07	4.9359	1374447.	-0.1199	78644.	0.00
15.2000	2.24E-07	0.4605	-0.1293	-3.72E-07	4.6906	1374447.	-0.08924	79693.	0.00
15.4000	1.56E-07	0.4328	-0.1446	-3.07E-07	4.4089	1374447.	-0.06310	80742.	0.00
15.6000	1.01E-07	0.4027	-0.1550	-2.46E-07	4.1015	1374447.	-0.04139	81790.	0.00
15.8000	5.79E-08	0.3708	-0.1985	-1.90E-07	3.7773	1374447.	-0.3929	1358277.	0.00
16.0000	2.53E-08	0.3233	-0.2549	-1.39E-07	3.2930	1374447.	-0.1718	1358277.	0.00
16.2000	2.14E-09	0.2689	-0.2736	-9.62E-08	2.7387	1374447.	-0.01453	1358277.	0.00
16.4000	-1.32E-08	0.2139	-0.2660	-6.11E-08	2.1784	1374447.	0.08959	1358277.	0.00
16.6000	-2.23E-08	0.1624	-0.2419	-3.37E-08	1.6547	1374447.	0.1514	1358277.	0.00
16.8000	-2.67E-08	0.1171	-0.2087	-1.34E-08	1.1926	1374447.	0.1812	1358277.	0.00
17.0000	-2.76E-08	0.07897	-0.1718	8.89E-10	0.8044	1374447.	0.1878	1358277.	0.00
17.2000	-2.63E-08	0.04837	-0.1351	1.02E-08	0.4927	1374447.	0.1788	1358277.	0.00
17.4000	-2.36E-08	0.02492	-0.1012	1.55E-08	0.2538	1374447.	0.1602	1358277.	0.00
17.6000	-2.01E-08	0.00787	-0.07156	1.79E-08	0.08016	1374447.	0.1367	1358277.	0.00
17.8000	-1.64E-08	-0.00371	-0.04673	1.82E-08	0.03777	1374447.	0.1116	1358277.	0.00
18.0000	-1.29E-08	-0.01082	-0.02683	1.71E-08	0.1102	1374447.	0.08732	1358277.	0.00
18.2000	-9.59E-09	-0.01444	-0.01159	1.53E-08	0.1471	1374447.	0.06514	1358277.	0.00
18.4000	-6.75E-09	-0.01546	-4.93E-04	1.31E-08	0.1574	1374447.	0.04581	1358277.	0.00
18.6000	-4.35E-09	-0.01464	0.00704	1.09E-08	0.1491	1374447.	0.02954	1358277.	0.00
18.8000	-2.38E-09	-0.01264	0.01161	8.93E-09	0.1287	1374447.	0.01616	1358277.	0.00
19.0000	-7.77E-10	-0.00999	0.01376	7.28E-09	0.1018	1374447.	0.00528	1358277.	0.00
19.2000	5.34E-10	-0.00714	0.01392	6.04E-09	0.07269	1374447.	-0.00362	1358277.	0.00
19.4000	1.64E-09	-0.00442	0.01245	5.20E-09	0.04507	1374447.	-0.01112	1358277.	0.00
19.6000	2.61E-09	-0.00216	0.00956	4.72E-09	0.02198	1374447.	-0.01774	1358277.	0.00
19.8000	3.52E-09	-6.00E-04	0.00539	4.52E-09	0.00611	1374447.	-0.02393	1358277.	0.00
20.0000	4.42E-09	0.00	0.00	4.47E-09	0.00	1374447.	-0.03001	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 5:

Pile-head deflection = 0.00146590 meters
Computed slope at pile head = -0.00053584 radians
Maximum bending moment = 191.49218262 kN-m
Maximum shear force = 150.00000000 kN
Depth of maximum bending moment = 2.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 12
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 6

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 200.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00228	-2.09E-10	200.0000	-7.83E-04	2.13E-09	1374447.	0.00	0.00	0.00
0.2000	0.00212	40.0000	194.3202	-7.80E-04	407.4367	1374447.	-56.7984	5350.	0.00
0.4000	0.00197	77.7281	181.9022	-7.71E-04	791.7315	1374447.	-67.3810	6848.	0.00
0.6000	0.00181	112.7609	167.4949	-7.58E-04	1149.	1374447.	-76.6921	8453.	0.00
0.8000	0.00166	144.7260	151.3319	-7.39E-04	1474.	1374447.	-84.9377	10204.	0.00
1.0000	0.00152	173.2937	133.6277	-7.16E-04	1765.	1374447.	-92.1042	12126.	0.00
1.2000	0.00138	198.1771	114.5988	-6.89E-04	2019.	1374447.	-98.1856	14245.	0.00
1.4000	0.00124	219.1332	94.4619	-6.58E-04	2232.	1374447.	-103.1834	16594.	0.00
1.6000	0.00112	235.9619	73.4329	-6.25E-04	2403.	1374447.	-107.1063	19209.	0.00
1.8000	9.94E-04	248.5063	51.7254	-5.90E-04	2531.	1374447.	-109.9690	22136.	0.00
2.0000	8.79E-04	256.6520	29.5493	-5.53E-04	2614.	1374447.	-111.7915	25430.	0.00
2.2000	7.72E-04	260.3260	7.1105	-5.16E-04	2652.	1374447.	-112.5970	29158.	0.00
2.4000	6.73E-04	259.4962	-15.3902	-4.78E-04	2643.	1374447.	-112.4098	33405.	0.00
2.6000	5.81E-04	254.1700	-28.8037	-4.40E-04	2589.	1374447.	-21.7248	7475.	0.00
2.8000	4.97E-04	247.9747	-33.1126	-4.04E-04	2526.	1374447.	-21.3644	8600.	0.00
3.0000	4.20E-04	240.9249	-37.3392	-3.68E-04	2454.	1374447.	-20.9015	9960.	0.00
3.2000	3.50E-04	233.0391	-41.4623	-3.34E-04	2374.	1374447.	-20.3297	11631.	0.00
3.4000	2.86E-04	224.3400	-45.4593	-3.00E-04	2285.	1374447.	-19.6405	13725.	0.00
3.6000	2.29E-04	214.8553	-49.3056	-2.69E-04	2188.	1374447.	-18.8216	16412.	0.00
3.8000	1.79E-04	204.6178	-52.9732	-2.38E-04	2084.	1374447.	-17.8547	19973.	0.00
4.0000	1.34E-04	193.6660	-56.4297	-2.09E-04	1973.	1374447.	-16.7105	24910.	0.00
4.2000	9.52E-05	182.0459	-59.6346	-1.82E-04	1854.	1374447.	-15.3385	32232.	0.00
4.4000	6.15E-05	169.8122	-62.5324	-1.56E-04	1730.	1374447.	-13.6399	44369.	0.00
4.6000	3.27E-05	157.0329	-65.0338	-1.32E-04	1600.	1374447.	-11.3740	69491.	0.00
4.8000	8.56E-06	143.7987	-66.9247	-1.10E-04	1465.	1374447.	-7.5345	176118.	0.00
5.0000	-1.14E-05	130.2630	-66.8448	-9.05E-05	1327.	1374447.	8.3332	145712.	0.00
5.2000	-2.76E-05	117.0607	-64.8588	-7.25E-05	1192.	1374447.	11.5264	83401.	0.00
5.4000	-4.04E-05	104.3195	-62.3639	-5.64E-05	1063.	1374447.	13.4232	66390.	0.00
5.6000	-5.02E-05	92.1152	-59.5435	-4.21E-05	938.2776	1374447.	14.7806	58890.	0.00
5.8000	-5.73E-05	80.5021	-56.4842	-2.95E-05	819.9877	1374447.	15.8119	55212.	0.00

6.0000	-6.20E-05	69.5215	-53.2419	-1.86E-05	708.1401	1374447.	16.6113	53573.	0.00
6.2000	-6.47E-05	59.2053	-49.8578	-9.26E-06	603.0606	1374447.	17.2295	53237.	0.00
6.4000	-6.57E-05	49.5784	-46.3651	-1.35E-06	505.0010	1374447.	17.6977	53860.	0.00
6.6000	-6.53E-05	40.6593	-42.7917	5.22E-06	414.1521	1374447.	18.0365	55271.	0.00
6.8000	-6.36E-05	32.4617	-39.1620	1.05E-05	330.6520	1374447.	18.2606	57397.	0.00
7.0000	-6.10E-05	24.9945	-35.4978	1.47E-05	254.5919	1374447.	18.3811	60217.	0.00
7.2000	-5.77E-05	18.2626	-31.8190	1.79E-05	186.0209	1374447.	18.4067	63755.	0.00
7.4000	-5.39E-05	12.2669	-28.1439	2.01E-05	124.9495	1374447.	18.3447	68067.	0.00
7.6000	-4.97E-05	7.0050	-24.4893	2.15E-05	71.3524	1374447.	18.2015	73237.	0.00
7.8000	-4.53E-05	2.4712	-20.8708	2.22E-05	25.1712	1374447.	17.9829	79385.	0.00
8.0000	-4.08E-05	-1.3433	-17.3031	2.23E-05	13.6831	1374447.	17.6944	86666.	0.00
8.2000	-3.64E-05	-4.4501	-13.7996	2.18E-05	45.3280	1374447.	17.3409	95279.	0.00
8.4000	-3.21E-05	-6.8632	-10.3727	2.10E-05	69.9076	1374447.	16.9275	105477.	0.00
8.6000	-2.80E-05	-8.5992	-6.8449	1.99E-05	87.5903	1374447.	18.3510	131111.	0.00
8.8000	-2.41E-05	-9.6011	-3.2631	1.86E-05	97.7961	1374447.	17.4670	144717.	0.00
9.0000	-2.06E-05	-9.9044	-1.0312	1.71E-05	100.8852	1374447.	4.8521	47187.	0.00
9.2000	-1.73E-05	-10.0136	-0.1292	1.57E-05	101.9974	1374447.	4.1675	48235.	0.00
9.4000	-1.43E-05	-9.9561	0.6396	1.42E-05	101.4116	1374447.	3.5202	49284.	0.00
9.6000	-1.16E-05	-9.7577	1.2830	1.28E-05	99.3916	1374447.	2.9144	50332.	0.00
9.8000	-9.16E-06	-9.4429	1.8098	1.14E-05	96.1841	1374447.	2.3532	51381.	0.00
10.0000	-7.01E-06	-9.0338	2.2290	1.01E-05	92.0179	1374447.	1.8387	52430.	0.00
10.2000	-5.13E-06	-8.5513	2.5500	8.79E-06	87.1025	1374447.	1.3720	53478.	0.00
10.4000	-3.50E-06	-8.0138	2.7826	7.59E-06	81.6281	1374447.	0.9534	54527.	0.00
10.6000	-2.10E-06	-7.4382	2.9362	6.46E-06	75.7652	1374447.	0.5824	55575.	0.00
10.8000	-9.12E-07	-6.8394	3.0202	5.42E-06	69.6651	1374447.	0.2581	56624.	0.00
11.0000	7.38E-08	-6.2302	3.0439	4.47E-06	63.4598	1374447.	-0.02129	57673.	0.00
11.2000	8.78E-07	-5.6218	3.0160	3.61E-06	57.2632	1374447.	-0.2578	58721.	0.00
11.4000	1.52E-06	-5.0238	2.9448	2.84E-06	51.1716	1374447.	-0.4538	59770.	0.00
11.6000	2.01E-06	-4.4439	2.8383	2.15E-06	45.2648	1374447.	-0.6120	60818.	0.00
11.8000	2.38E-06	-3.8885	2.7035	1.54E-06	39.6075	1374447.	-0.7355	61867.	0.00
12.0000	2.63E-06	-3.3625	2.5473	1.01E-06	34.2497	1374447.	-0.8271	62916.	0.00
12.2000	2.78E-06	-2.8696	2.3755	5.61E-07	29.2290	1374447.	-0.8901	63964.	0.00
12.4000	2.85E-06	-2.4123	2.1938	1.76E-07	24.5710	1374447.	-0.9276	65013.	0.00
12.6000	2.85E-06	-1.9921	2.0067	-1.44E-07	20.2909	1374447.	-0.9426	66061.	0.00
12.8000	2.80E-06	-1.6096	1.8186	-4.06E-07	16.3948	1374447.	-0.9382	67110.	0.00
13.0000	2.69E-06	-1.2646	1.6331	-6.15E-07	12.8810	1374447.	-0.9172	68159.	0.00
13.2000	2.55E-06	-0.9563	1.4531	-7.77E-07	9.7410	1374447.	-0.8824	69207.	0.00
13.4000	2.38E-06	-0.6833	1.2813	-8.96E-07	6.9604	1374447.	-0.8363	70256.	0.00
13.6000	2.19E-06	-0.4438	1.1195	-9.78E-07	4.5206	1374447.	-0.7813	71304.	0.00
13.8000	1.99E-06	-0.2355	0.9694	-1.03E-06	2.3991	1374447.	-0.7197	72353.	0.00
14.0000	1.78E-06	-0.05605	0.8321	-1.05E-06	0.5709	1374447.	-0.6535	73402.	0.00
14.2000	1.57E-06	0.09730	0.7083	-1.05E-06	0.9911	1374447.	-0.5845	74450.	0.00
14.4000	1.36E-06	0.2273	0.5984	-1.02E-06	2.3149	1374447.	-0.5143	75499.	0.00
14.6000	1.16E-06	0.3367	0.5025	-9.81E-07	3.4292	1374447.	-0.4445	76547.	0.00

14.8000	9.70E-07	0.4283	0.4205	-9.25E-07	4.3625	1374447.	-0.3763	77596.	0.00
15.0000	7.91E-07	0.5048	0.3517	-8.57E-07	5.1423	1374447.	-0.3111	78644.	0.00
15.2000	6.27E-07	0.5690	0.2956	-7.79E-07	5.7955	1374447.	-0.2498	79693.	0.00
15.4000	4.79E-07	0.6231	0.2513	-6.93E-07	6.3469	1374447.	-0.1935	80742.	0.00
15.6000	3.50E-07	0.6695	0.2176	-5.99E-07	6.8194	1374447.	-0.1431	81790.	0.00
15.8000	2.40E-07	0.7102	0.04036	-4.98E-07	7.2336	1374447.	-1.6296	1358277.	0.00
16.0000	1.51E-07	0.6856	-0.2249	-3.97E-07	6.9838	1374447.	-1.0231	1358277.	0.00
16.2000	8.13E-08	0.6202	-0.3824	-3.02E-07	6.3172	1374447.	-0.5522	1358277.	0.00
16.4000	3.00E-08	0.5327	-0.4580	-2.18E-07	5.4256	1374447.	-0.2038	1358277.	0.00
16.6000	-5.79E-09	0.4370	-0.4745	-1.47E-07	4.4510	1374447.	0.03932	1358277.	0.00
16.8000	-2.89E-08	0.3429	-0.4509	-9.05E-08	3.4924	1374447.	0.1961	1358277.	0.00
17.0000	-4.20E-08	0.2566	-0.4028	-4.68E-08	2.6136	1374447.	0.2850	1358277.	0.00
17.2000	-4.76E-08	0.1817	-0.3420	-1.49E-08	1.8510	1374447.	0.3233	1358277.	0.00
17.4000	-4.80E-08	0.1198	-0.2771	6.99E-09	1.2202	1374447.	0.3257	1358277.	0.00
17.6000	-4.48E-08	0.07088	-0.2141	2.09E-08	0.7220	1374447.	0.3043	1358277.	0.00
17.8000	-3.96E-08	0.03415	-0.1568	2.85E-08	0.3478	1374447.	0.2690	1358277.	0.00
18.0000	-3.34E-08	0.00817	-0.1072	3.16E-08	0.08326	1374447.	0.2269	1358277.	0.00
18.2000	-2.70E-08	-0.00873	-0.06618	3.15E-08	0.08888	1374447.	0.1832	1358277.	0.00
18.4000	-2.08E-08	-0.01830	-0.03374	2.96E-08	0.1864	1374447.	0.1412	1358277.	0.00
18.6000	-1.51E-08	-0.02222	-0.00934	2.66E-08	0.2264	1374447.	0.1028	1358277.	0.00
18.8000	-1.01E-08	-0.02203	0.00784	2.34E-08	0.2244	1374447.	0.06887	1358277.	0.00
19.0000	-5.78E-09	-0.01909	0.01865	2.04E-08	0.1944	1374447.	0.03925	1358277.	0.00
19.2000	-1.97E-09	-0.01457	0.02391	1.80E-08	0.1484	1374447.	0.01341	1358277.	0.00
19.4000	1.41E-09	-0.00952	0.02430	1.62E-08	0.09700	1374447.	-0.00956	1358277.	0.00
19.6000	4.51E-09	-0.00485	0.02028	1.52E-08	0.04945	1374447.	-0.03064	1358277.	0.00
19.8000	7.47E-09	-0.00141	0.01214	1.47E-08	0.01438	1374447.	-0.05076	1358277.	0.00
20.0000	1.04E-08	0.00	0.00	1.46E-08	0.00	1374447.	-0.07061	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 6:

Pile-head deflection = 0.00227976 meters
Computed slope at pile head = -0.00078287 radians
Maximum bending moment = 260.32604774 kN-m
Maximum shear force = 200.00000000 kN
Depth of maximum bending moment = 2.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 14
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 7

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 300.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00450	-8.94E-11	300.0000	-0.00139	9.11E-10	1374447.	0.00	0.00	0.00
0.2000	0.00422	60.0000	293.2067	-0.00139	611.1550	1374447.	-67.9327	3220.	0.00
0.4000	0.00394	117.2827	277.6968	-0.00138	1195.	1374447.	-87.1670	4422.	0.00
0.6000	0.00367	171.0787	258.5385	-0.00136	1743.	1374447.	-104.4154	5692.	0.00
0.8000	0.00340	220.6981	236.1296	-0.00133	2248.	1374447.	-119.6740	7040.	0.00
1.0000	0.00314	265.5305	210.9262	-0.00129	2705.	1374447.	-132.3600	8438.	0.00
1.2000	0.00288	305.0686	183.4920	-0.00125	3107.	1374447.	-141.9817	9850.	0.00
1.4000	0.00264	338.9273	154.2695	-0.00120	3452.	1374447.	-150.2431	11395.	0.00
1.6000	0.00240	366.7764	123.5300	-0.00115	3736.	1374447.	-157.1524	13090.	0.00
1.8000	0.00218	388.3393	91.5423	-0.00110	3956.	1374447.	-162.7246	14958.	0.00
2.0000	0.00196	403.3933	58.5718	-0.00104	4109.	1374447.	-166.9806	17023.	0.00
2.2000	0.00176	411.7680	24.8792	-9.81E-04	4194.	1374447.	-169.9452	19316.	0.00
2.4000	0.00157	413.3450	-9.2798	-9.21E-04	4210.	1374447.	-171.6447	21873.	0.00
2.6000	0.00139	408.0561	-29.3500	-8.61E-04	4156.	1374447.	-29.0568	4177.	0.00
2.8000	0.00122	401.6050	-35.1413	-8.02E-04	4091.	1374447.	-28.8568	4712.	0.00
3.0000	0.00107	393.9996	-40.8821	-7.44E-04	4013.	1374447.	-28.5506	5335.	0.00
3.2000	9.27E-04	385.2521	-46.5506	-6.88E-04	3924.	1374447.	-28.1344	6069.	0.00
3.4000	7.95E-04	375.3793	-52.1243	-6.32E-04	3824.	1374447.	-27.6032	6943.	0.00
3.6000	6.74E-04	364.4024	-57.5797	-5.79E-04	3712.	1374447.	-26.9510	7995.	0.00
3.8000	5.64E-04	352.3474	-62.8918	-5.26E-04	3589.	1374447.	-26.1692	9284.	0.00
4.0000	4.64E-04	339.2457	-68.0333	-4.76E-04	3456.	1374447.	-25.2466	10892.	0.00
4.2000	3.73E-04	325.1341	-72.9747	-4.28E-04	3312.	1374447.	-24.1666	12948.	0.00
4.4000	2.92E-04	310.0559	-77.6818	-3.82E-04	3158.	1374447.	-22.9049	15664.	0.00
4.6000	2.21E-04	294.0614	-82.1145	-3.38E-04	2995.	1374447.	-21.4225	19418.	0.00
4.8000	1.57E-04	277.2100	-86.2220	-2.96E-04	2824.	1374447.	-19.6525	24972.	0.00
5.0000	1.02E-04	259.5726	-89.9337	-2.57E-04	2644.	1374447.	-17.4637	34170.	0.00
5.2000	5.46E-05	241.2366	-93.1336	-2.21E-04	2457.	1374447.	-14.5359	53256.	0.00
5.4000	1.40E-05	222.3191	-95.5370	-1.87E-04	2265.	1374447.	-9.4981	135861.	0.00
5.6000	-2.02E-05	203.0218	-95.3985	-1.56E-04	2068.	1374447.	10.8833	107996.	0.00

5.8000	-4.84E-05	184.1597	-92.8154	-1.28E-04	1876.	1374447.	14.9479	61789.	0.00
6.0000	-7.13E-05	165.8956	-89.5801	-1.02E-04	1690.	1374447.	17.4052	48855.	0.00
6.2000	-8.93E-05	148.3277	-85.9206	-7.94E-05	1511.	1374447.	19.1899	42982.	0.00
6.4000	-1.03E-04	131.5274	-81.9445	-5.91E-05	1340.	1374447.	20.5702	39935.	0.00
6.6000	-1.13E-04	115.5499	-77.7210	-4.11E-05	1177.	1374447.	21.6653	38375.	0.00
6.8000	-1.19E-04	100.4390	-73.3005	-2.54E-05	1023.	1374447.	22.5399	37740.	0.00
7.0000	-1.23E-04	86.2297	-68.7231	-1.18E-05	878.3284	1374447.	23.2336	37760.	0.00
7.2000	-1.24E-04	72.9497	-64.0225	-1.98E-07	743.0599	1374447.	23.7727	38294.	0.00
7.4000	-1.23E-04	60.6207	-59.2276	9.52E-06	617.4772	1374447.	24.1760	39266.	0.00
7.6000	-1.20E-04	49.2587	-54.3643	1.75E-05	501.7447	1374447.	24.4572	40643.	0.00
7.8000	-1.16E-04	38.8750	-49.4559	2.39E-05	395.9770	1374447.	24.6273	42412.	0.00
8.0000	-1.11E-04	29.4763	-44.5236	2.89E-05	300.2433	1374447.	24.6953	44584.	0.00
8.2000	-1.05E-04	21.0655	-39.5872	3.26E-05	214.5715	1374447.	24.6685	47180.	0.00
8.4000	-9.78E-05	13.6414	-34.6650	3.51E-05	138.9505	1374447.	24.5536	50237.	0.00
8.6000	-9.05E-05	7.1995	-29.4939	3.66E-05	73.3335	1374447.	27.1573	59995.	0.00
8.8000	-8.31E-05	1.8439	-24.1389	3.73E-05	18.7814	1374447.	26.3933	63519.	0.00
9.0000	-7.56E-05	-2.4560	-19.7154	3.72E-05	25.0171	1374447.	17.8417	47187.	0.00
9.2000	-6.82E-05	-6.0423	-16.2861	3.66E-05	61.5462	1374447.	16.4509	48235.	0.00
9.4000	-6.10E-05	-8.9705	-13.1384	3.55E-05	91.3726	1374447.	15.0258	49284.	0.00
9.6000	-5.40E-05	-11.2977	-10.2768	3.40E-05	115.0770	1374447.	13.5905	50332.	0.00
9.8000	-4.74E-05	-13.0812	-7.7011	3.23E-05	133.2441	1374447.	12.1665	51381.	0.00
10.0000	-4.11E-05	-14.3781	-5.4072	3.03E-05	146.4541	1374447.	10.7726	52430.	0.00
10.2000	-3.52E-05	-15.2441	-3.3874	2.81E-05	155.2750	1374447.	9.4250	53478.	0.00
10.4000	-2.98E-05	-15.7331	-1.6312	2.59E-05	160.2557	1374447.	8.1370	54527.	0.00
10.6000	-2.49E-05	-15.8966	-0.1256	2.36E-05	161.9212	1374447.	6.9196	55575.	0.00
10.8000	-2.04E-05	-15.7833	1.1445	2.13E-05	160.7674	1374447.	5.7813	56624.	0.00
11.0000	-1.64E-05	-15.4388	2.1955	1.90E-05	157.2580	1374447.	4.7285	57673.	0.00
11.2000	-1.28E-05	-14.9051	3.0449	1.68E-05	151.8221	1374447.	3.7654	58721.	0.00
11.4000	-9.69E-06	-14.2208	3.7109	1.47E-05	144.8520	1374447.	2.8945	59770.	0.00
11.6000	-6.96E-06	-13.4207	4.2120	1.27E-05	136.7025	1374447.	2.1166	60818.	0.00
11.8000	-4.63E-06	-12.5360	4.5668	1.08E-05	127.6907	1374447.	1.4309	61867.	0.00
12.0000	-2.66E-06	-11.5940	4.7934	9.01E-06	118.0959	1374447.	0.8354	62916.	0.00
12.2000	-1.02E-06	-10.6186	4.9097	7.39E-06	108.1607	1374447.	0.3272	63964.	0.00
12.4000	3.00E-07	-9.6302	4.9326	5.92E-06	98.0921	1374447.	-0.09759	65013.	0.00
12.6000	1.34E-06	-8.6456	4.8785	4.59E-06	88.0633	1374447.	-0.4437	66061.	0.00
12.8000	2.14E-06	-7.6788	4.7625	3.40E-06	78.2154	1374447.	-0.7164	67110.	0.00
13.0000	2.70E-06	-6.7406	4.5987	2.35E-06	68.6593	1374447.	-0.9212	68159.	0.00
13.2000	3.08E-06	-5.8393	4.4002	1.43E-06	59.4785	1374447.	-1.0641	69207.	0.00
13.4000	3.28E-06	-4.9805	4.1787	6.48E-07	50.7313	1374447.	-1.1512	70256.	0.00
13.6000	3.33E-06	-4.1678	3.9447	-1.80E-08	42.4531	1374447.	-1.1887	71304.	0.00
13.8000	3.27E-06	-3.4027	3.7075	-5.69E-07	34.6593	1374447.	-1.1829	72353.	0.00
14.0000	3.11E-06	-2.6848	3.4752	-1.01E-06	27.3474	1374447.	-1.1401	73402.	0.00
14.2000	2.87E-06	-2.0126	3.2545	-1.35E-06	20.5000	1374447.	-1.0666	74450.	0.00
14.4000	2.57E-06	-1.3830	3.0510	-1.60E-06	14.0872	1374447.	-0.9684	75499.	0.00

14.6000	2.23E-06	-0.7922	2.8690	-1.76E-06	8.0689	1374447.	-0.8516	76547.	0.00
14.8000	1.86E-06	-0.2354	2.7117	-1.83E-06	2.3976	1374447.	-0.7223	77596.	0.00
15.0000	1.49E-06	0.2925	2.5808	-1.83E-06	2.9794	1374447.	-0.5865	78644.	0.00
15.2000	1.13E-06	0.7969	2.4771	-1.75E-06	8.1174	1374447.	-0.4503	79693.	0.00
15.4000	7.92E-07	1.2833	2.4001	-1.60E-06	13.0719	1374447.	-0.3196	80742.	0.00
15.6000	4.90E-07	1.7570	2.3481	-1.38E-06	17.8963	1374447.	-0.2006	81790.	0.00
15.8000	2.41E-07	2.2226	0.7532	-1.09E-06	22.6390	1374447.	-15.7480	1.31E+07	0.00
16.0000	5.53E-08	2.0583	-1.4132	-7.77E-07	20.9653	1374447.	-5.9160	2.14E+07	0.00
16.2000	-7.01E-08	1.6573	-1.9572	-5.06E-07	16.8812	1374447.	0.4759	1358277.	0.00
16.4000	-1.47E-07	1.2754	-1.8096	-2.93E-07	12.9911	1374447.	0.9997	1358277.	0.00
16.6000	-1.87E-07	0.9335	-1.5825	-1.32E-07	9.5082	1374447.	1.2714	1358277.	0.00
16.8000	-2.00E-07	0.6424	-1.3195	-1.75E-08	6.5433	1374447.	1.3586	1358277.	0.00
17.0000	-1.94E-07	0.4057	-1.0518	5.88E-08	4.1319	1374447.	1.3188	1358277.	0.00
17.2000	-1.77E-07	0.2217	-0.8000	1.04E-07	2.2579	1374447.	1.1989	1358277.	0.00
17.4000	-1.52E-07	0.08565	-0.5766	1.27E-07	0.8724	1374447.	1.0352	1358277.	0.00
17.6000	-1.26E-07	-0.00897	-0.3876	1.32E-07	0.09138	1374447.	0.8545	1358277.	0.00
17.8000	-9.95E-08	-0.06941	-0.2346	1.27E-07	0.7070	1374447.	0.6756	1358277.	0.00
18.0000	-7.52E-08	-0.1028	-0.1160	1.14E-07	1.0473	1374447.	0.5104	1358277.	0.00
18.2000	-5.38E-08	-0.1158	-0.02842	9.82E-08	1.1797	1374447.	0.3656	1358277.	0.00
18.4000	-3.59E-08	-0.1142	0.03251	8.15E-08	1.1631	1374447.	0.2436	1358277.	0.00
18.6000	-2.12E-08	-0.1028	0.07129	6.57E-08	1.0473	1374447.	0.1442	1358277.	0.00
18.8000	-9.60E-09	-0.08567	0.09224	5.20E-08	0.8726	1374447.	0.06517	1358277.	0.00
19.0000	-4.47E-10	-0.06592	0.09906	4.10E-08	0.6715	1374447.	0.00303	1358277.	0.00
19.2000	6.78E-09	-0.04605	0.09475	3.28E-08	0.4690	1374447.	-0.04607	1358277.	0.00
19.4000	1.27E-08	-0.02802	0.08154	2.74E-08	0.2854	1374447.	-0.08608	1358277.	0.00
19.6000	1.78E-08	-0.01343	0.06087	2.44E-08	0.1368	1374447.	-0.1206	1358277.	0.00
19.8000	2.24E-08	-0.00367	0.03358	2.32E-08	0.03737	1374447.	-0.1524	1358277.	0.00
20.0000	2.70E-08	0.00	0.00	2.29E-08	0.00	1374447.	-0.1835	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 7:

Pile-head deflection = 0.00449857 meters
Computed slope at pile head = -0.00139475 radians
Maximum bending moment = 413.34495517 kN-m
Maximum shear force = 300.00000000 kN
Depth of maximum bending moment = 2.40000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 17
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 8

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 400.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00775	-2.98E-10	400.0000	-0.00219	3.04E-09	1374447.	0.00	0.00	0.00
0.2000	0.00731	80.0000	393.1677	-0.00219	814.8733	1374447.	-68.3230	1870.	0.00
0.4000	0.00687	157.2671	376.8238	-0.00217	1602.	1374447.	-95.1163	2768.	0.00
0.6000	0.00644	230.7295	355.3613	-0.00214	2350.	1374447.	-119.5089	3711.	0.00
0.8000	0.00602	299.4116	329.2401	-0.00210	3050.	1374447.	-141.7022	4711.	0.00
1.0000	0.00560	362.4256	298.8903	-0.00206	3692.	1374447.	-161.7964	5779.	0.00
1.2000	0.00519	418.9677	264.7268	-0.00200	4268.	1374447.	-179.8380	6925.	0.00
1.4000	0.00480	468.3163	227.1596	-0.00193	4770.	1374447.	-195.8344	8160.	0.00
1.6000	0.00442	509.8315	186.6015	-0.00186	5193.	1374447.	-209.7464	9491.	0.00
1.8000	0.00405	542.9569	143.4860	-0.00179	5531.	1374447.	-221.4093	10921.	0.00
2.0000	0.00371	567.2259	98.3976	-0.00171	5778.	1374447.	-229.4743	12386.	0.00
2.2000	0.00337	582.3160	51.9238	-0.00162	5931.	1374447.	-235.2637	13952.	0.00
2.4000	0.00306	587.9954	4.4446	-0.00154	5989.	1374447.	-239.5285	15674.	0.00
2.6000	0.00276	584.0938	-23.1581	-0.00145	5950.	1374447.	-36.4986	2647.	0.00
2.8000	0.00248	578.7322	-30.4564	-0.00137	5895.	1374447.	-36.4836	2947.	0.00
3.0000	0.00221	571.9112	-37.7406	-0.00128	5825.	1374447.	-36.3588	3289.	0.00
3.2000	0.00196	563.6359	-44.9886	-0.00120	5741.	1374447.	-36.1215	3681.	0.00
3.4000	0.00173	553.9158	-52.1776	-0.00112	5642.	1374447.	-35.7686	4134.	0.00
3.6000	0.00151	542.7649	-59.2841	-0.00104	5529.	1374447.	-35.2964	4660.	0.00
3.8000	0.00131	530.2021	-66.2838	-9.61E-04	5401.	1374447.	-34.7002	5279.	0.00
4.0000	0.00113	516.2514	-73.1513	-8.85E-04	5258.	1374447.	-33.9744	6012.	0.00
4.2000	9.61E-04	500.9416	-79.8598	-8.11E-04	5103.	1374447.	-33.1114	6894.	0.00
4.4000	8.06E-04	484.3074	-86.3811	-7.40E-04	4933.	1374447.	-32.1015	7969.	0.00
4.6000	6.65E-04	466.3892	-92.6844	-6.71E-04	4751.	1374447.	-30.9310	9306.	0.00
4.8000	5.37E-04	447.2337	-98.7355	-6.04E-04	4555.	1374447.	-29.5807	11008.	0.00
5.0000	4.23E-04	426.8950	-104.4958	-5.40E-04	4348.	1374447.	-28.0218	13245.	0.00
5.2000	3.21E-04	405.4354	-109.9189	-4.80E-04	4130.	1374447.	-26.2093	16317.	0.00
5.4000	2.31E-04	382.9274	-114.9464	-4.23E-04	3900.	1374447.	-24.0660	20820.	0.00

5.6000	1.52E-04	359.4568	-119.4974	-3.69E-04	3661.	1374447.	-21.4433	28168.	0.00
5.8000	8.38E-05	335.1285	-123.4406	-3.18E-04	3414.	1374447.	-17.9888	42941.	0.00
6.0000	2.51E-05	310.0806	-126.4718	-2.71E-04	3158.	1374447.	-12.3239	98326.	0.00
6.2000	-2.46E-05	284.5397	-126.4566	-2.28E-04	2898.	1374447.	12.4765	101332.	0.00
6.4000	-6.60E-05	259.4979	-123.4354	-1.88E-04	2643.	1374447.	17.7355	53714.	0.00
6.6000	-9.99E-05	235.1656	-119.5817	-1.52E-04	2395.	1374447.	20.8011	41646.	0.00
6.8000	-1.27E-04	211.6653	-115.2012	-1.20E-04	2156.	1374447.	23.0040	36252.	0.00
7.0000	-1.48E-04	189.0851	-110.4308	-9.05E-05	1926.	1374447.	24.6997	33431.	0.00
7.2000	-1.63E-04	167.4929	-105.3566	-6.46E-05	1706.	1374447.	26.0422	31930.	0.00
7.4000	-1.74E-04	146.9424	-100.0410	-4.17E-05	1497.	1374447.	27.1140	31238.	0.00
7.6000	-1.80E-04	127.4765	-94.5331	-2.17E-05	1298.	1374447.	27.9647	31107.	0.00
7.8000	-1.82E-04	109.1292	-88.8739	-4.52E-06	1112.	1374447.	28.6273	31408.	0.00
8.0000	-1.82E-04	91.9270	-83.0987	1.01E-05	936.3602	1374447.	29.1247	32074.	0.00
8.2000	-1.78E-04	75.8897	-77.2388	2.23E-05	773.0062	1374447.	29.4739	33071.	0.00
8.4000	-1.73E-04	61.0314	-71.3226	3.23E-05	621.6608	1374447.	29.6881	34385.	0.00
8.6000	-1.65E-04	47.3606	-65.0336	4.02E-05	482.4115	1374447.	33.2022	40163.	0.00
8.8000	-1.57E-04	35.0180	-58.4526	4.62E-05	356.6900	1374447.	32.6080	41641.	0.00
9.0000	-1.47E-04	23.9796	-51.7266	5.05E-05	244.2542	1374447.	34.6519	47187.	0.00
9.2000	-1.36E-04	14.3273	-44.9710	5.32E-05	145.9368	1374447.	32.9042	48235.	0.00
9.4000	-1.26E-04	5.9912	-38.5862	5.47E-05	61.0258	1374447.	30.9442	49284.	0.00
9.6000	-1.15E-04	-1.1072	-32.6091	5.51E-05	11.2774	1374447.	28.8266	50332.	0.00
9.8000	-1.04E-04	-7.0524	-27.0663	5.45E-05	71.8356	1374447.	26.6016	51381.	0.00
10.0000	-9.28E-05	-11.9337	-21.9746	5.31E-05	121.5553	1374447.	24.3150	52430.	0.00
10.2000	-8.23E-05	-15.8423	-17.3423	5.11E-05	161.3682	1374447.	22.0081	53478.	0.00
10.4000	-7.23E-05	-18.8706	-13.1698	4.86E-05	192.2142	1374447.	19.7174	54527.	0.00
10.6000	-6.29E-05	-21.1102	-9.4506	4.56E-05	215.0266	1374447.	17.4746	55575.	0.00
10.8000	-5.41E-05	-22.6508	-6.1724	4.25E-05	230.7193	1374447.	15.3068	56624.	0.00
11.0000	-4.59E-05	-23.5792	-3.3181	3.91E-05	240.1754	1374447.	13.2365	57673.	0.00
11.2000	-3.84E-05	-23.9781	-0.8662	3.56E-05	244.2384	1374447.	11.2822	58721.	0.00
11.4000	-3.16E-05	-23.9257	1.2078	3.22E-05	243.7047	1374447.	9.4580	59770.	0.00
11.6000	-2.56E-05	-23.4949	2.9310	2.87E-05	239.3175	1374447.	7.7745	60818.	0.00
11.8000	-2.02E-05	-22.7532	4.3323	2.53E-05	231.7626	1374447.	6.2387	61867.	0.00
12.0000	-1.54E-05	-21.7620	5.4417	2.21E-05	221.6660	1374447.	4.8546	62916.	0.00
12.2000	-1.13E-05	-20.5766	6.2895	1.90E-05	209.5913	1374447.	3.6234	63964.	0.00
12.4000	-7.83E-06	-19.2462	6.9062	1.61E-05	196.0404	1374447.	2.5438	65013.	0.00
12.6000	-4.88E-06	-17.8141	7.3218	1.34E-05	181.4531	1374447.	1.6125	66061.	0.00
12.8000	-2.46E-06	-16.3175	7.5655	1.09E-05	166.2087	1374447.	0.8243	67110.	0.00
13.0000	-5.06E-07	-14.7879	7.6652	8.68E-06	150.6285	1374447.	0.1725	68159.	0.00
13.2000	1.01E-06	-13.2514	7.6474	6.64E-06	134.9780	1374447.	-0.3508	69207.	0.00
13.4000	2.15E-06	-11.7290	7.5368	4.82E-06	119.4704	1374447.	-0.7546	70256.	0.00
13.6000	2.94E-06	-10.2367	7.3565	3.22E-06	104.2702	1374447.	-1.0486	71304.	0.00
13.8000	3.44E-06	-8.7864	7.1273	1.84E-06	89.4973	1374447.	-1.2431	72353.	0.00
14.0000	3.68E-06	-7.3858	6.8681	6.60E-07	75.2308	1374447.	-1.3490	73402.	0.00
14.2000	3.70E-06	-6.0391	6.5955	-3.17E-07	61.5140	1374447.	-1.3773	74450.	0.00

14.4000	3.55E-06	-4.7476	6.3238	-1.10E-06	48.3583	1374447.	-1.3396	75499.	0.00
14.6000	3.26E-06	-3.5096	6.0651	-1.70E-06	35.7484	1374447.	-1.2474	76547.	0.00
14.8000	2.87E-06	-2.3215	5.8291	-2.13E-06	23.6468	1374447.	-1.1126	77596.	0.00
15.0000	2.41E-06	-1.1779	5.6232	-2.38E-06	11.9984	1374447.	-0.9470	78644.	0.00
15.2000	1.91E-06	-0.07225	5.4522	-2.47E-06	0.7360	1374447.	-0.7630	79693.	0.00
15.4000	1.42E-06	1.0029	5.3186	-2.40E-06	10.2156	1374447.	-0.5730	80742.	0.00
15.6000	9.53E-07	2.0552	5.2223	-2.18E-06	20.9338	1374447.	-0.3897	81790.	0.00
15.8000	5.46E-07	3.0918	2.8193	-1.81E-06	31.4931	1374447.	-23.6401	8653211.	0.00
16.0000	2.30E-07	3.1829	-1.1366	-1.35E-06	32.4207	1374447.	-15.9190	1.39E+07	0.00
16.2000	5.84E-09	2.6372	-2.7325	-9.28E-07	26.8622	1374447.	-0.03966	1358277.	0.00
16.4000	-1.41E-07	2.0899	-2.6404	-5.84E-07	21.2876	1374447.	0.9601	1358277.	0.00
16.6000	-2.28E-07	1.5810	-2.3897	-3.17E-07	16.1042	1374447.	1.5468	1358277.	0.00
16.8000	-2.68E-07	1.1340	-2.0529	-1.19E-07	11.5510	1374447.	1.8210	1358277.	0.00
17.0000	-2.76E-07	0.7598	-1.6837	1.84E-08	7.7397	1374447.	1.8711	1358277.	0.00
17.2000	-2.61E-07	0.4605	-1.3195	1.07E-07	4.6908	1374447.	1.7710	1358277.	0.00
17.4000	-2.33E-07	0.2320	-0.9844	1.58E-07	2.3634	1374447.	1.5799	1358277.	0.00
17.6000	-1.98E-07	0.06674	-0.6922	1.79E-07	0.6798	1374447.	1.3429	1358277.	0.00
17.8000	-1.61E-07	-0.04484	-0.4486	1.81E-07	0.4567	1374447.	1.0927	1358277.	0.00
18.0000	-1.25E-07	-0.1127	-0.2542	1.69E-07	1.1480	1374447.	0.8514	1358277.	0.00
18.2000	-9.31E-08	-0.1465	-0.1058	1.51E-07	1.4924	1374447.	0.6324	1358277.	0.00
18.4000	-6.51E-08	-0.1550	0.00163	1.29E-07	1.5792	1374447.	0.4423	1358277.	0.00
18.6000	-4.16E-08	-0.1459	0.07415	1.07E-07	1.4858	1374447.	0.2828	1358277.	0.00
18.8000	-2.24E-08	-0.1254	0.1177	8.70E-08	1.2771	1374447.	0.1522	1358277.	0.00
19.0000	-6.84E-09	-0.09881	0.1375	7.07E-08	1.0064	1374447.	0.04642	1358277.	0.00
19.2000	5.87E-09	-0.07037	0.1382	5.84E-08	0.7168	1374447.	-0.03987	1358277.	0.00
19.4000	1.65E-08	-0.04353	0.1230	5.01E-08	0.4434	1374447.	-0.1123	1358277.	0.00
19.6000	2.59E-08	-0.02119	0.09413	4.54E-08	0.2158	1374447.	-0.1760	1358277.	0.00
19.8000	3.47E-08	-0.00588	0.05297	4.34E-08	0.05990	1374447.	-0.2356	1358277.	0.00
20.0000	4.33E-08	0.00	0.00	4.30E-08	0.00	1374447.	-0.2941	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 8:

Pile-head deflection = 0.00774784 meters
Computed slope at pile head = -0.00219364 radians
Maximum bending moment = 587.99543765 kN-m
Maximum shear force = 400.00000000 kN
Depth of maximum bending moment = 2.40000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 21
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 9

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 450.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.01007	3.58E-10	450.0000	-0.00271	3.64E-09	1374447.	0.00	0.00	0.00
0.2000	0.00952	90.0000	443.7316	-0.00270	916.7325	1374447.	-62.6843	1316.	0.00
0.4000	0.00898	177.4926	428.0544	-0.00269	1808.	1374447.	-94.0873	2095.	0.00
0.6000	0.00845	261.2218	406.3693	-0.00265	2661.	1374447.	-122.7640	2906.	0.00
0.8000	0.00792	340.0403	379.1923	-0.00261	3464.	1374447.	-149.0059	3762.	0.00
1.0000	0.00741	412.8987	346.9946	-0.00255	4206.	1374447.	-172.9714	4672.	0.00
1.2000	0.00690	478.8382	310.2222	-0.00249	4877.	1374447.	-194.7523	5645.	0.00
1.4000	0.00641	536.9876	269.3066	-0.00242	5470.	1374447.	-214.4040	6690.	0.00
1.6000	0.00593	586.5608	224.6703	-0.00233	5975.	1374447.	-231.9584	7818.	0.00
1.8000	0.00548	626.8557	176.7316	-0.00225	6385.	1374447.	-247.4286	9037.	0.00
2.0000	0.00504	657.2534	125.9085	-0.00215	6695.	1374447.	-260.8025	10358.	0.00
2.2000	0.00461	677.2191	72.6264	-0.00206	6898.	1374447.	-272.0185	11789.	0.00
2.4000	0.00421	686.3040	17.3412	-0.00196	6991.	1374447.	-280.8332	13330.	0.00
2.6000	0.00383	684.1556	-14.8150	-0.00186	6969.	1374447.	-40.7294	2126.	0.00
2.8000	0.00347	680.3780	-22.9711	-0.00176	6930.	1374447.	-40.8318	2353.	0.00
3.0000	0.00313	674.9671	-31.1366	-0.00166	6875.	1374447.	-40.8226	2609.	0.00
3.2000	0.00281	667.9234	-39.2888	-0.00156	6803.	1374447.	-40.6997	2899.	0.00
3.4000	0.00250	659.2516	-47.4048	-0.00146	6715.	1374447.	-40.4605	3230.	0.00
3.6000	0.00222	648.9614	-55.4611	-0.00137	6610.	1374447.	-40.1021	3610.	0.00
3.8000	0.00196	637.0672	-63.4334	-0.00128	6489.	1374447.	-39.6212	4048.	0.00
4.0000	0.00171	623.5881	-71.2969	-0.00118	6352.	1374447.	-39.0135	4559.	0.00
4.2000	0.00148	608.5484	-79.0256	-0.00109	6199.	1374447.	-38.2740	5159.	0.00
4.4000	0.00127	591.9778	-86.5927	-0.00101	6030.	1374447.	-37.3964	5872.	0.00
4.6000	0.00108	573.9113	-93.9695	-9.22E-04	5846.	1374447.	-36.3722	6729.	0.00
4.8000	9.05E-04	554.3900	-101.1258	-8.40E-04	5647.	1374447.	-35.1902	7777.	0.00
5.0000	7.45E-04	533.4610	-108.0283	-7.61E-04	5434.	1374447.	-33.8353	9082.	0.00
5.2000	6.01E-04	511.1787	-114.6404	-6.85E-04	5207.	1374447.	-32.2854	10750.	0.00

5.4000	4.71E-04	487.6049	-120.9197	-6.12E-04	4967.	1374447.	-30.5077	12950.	0.00
5.6000	3.56E-04	462.8108	-126.8155	-5.43E-04	4714.	1374447.	-28.4500	15990.	0.00
5.8000	2.54E-04	436.8787	-132.2627	-4.78E-04	4450.	1374447.	-26.0224	20492.	0.00
6.0000	1.65E-04	409.9057	-137.1698	-4.16E-04	4175.	1374447.	-23.0480	27965.	0.00
6.2000	8.76E-05	382.0108	-141.3837	-3.58E-04	3891.	1374447.	-19.0919	43580.	0.00
6.4000	2.15E-05	353.3522	-144.5163	-3.05E-04	3599.	1374447.	-12.2334	113699.	0.00
6.6000	-3.43E-05	324.2043	-144.2839	-2.55E-04	3302.	1374447.	14.5567	84889.	0.00
6.8000	-8.07E-05	295.6386	-140.8505	-2.10E-04	3011.	1374447.	19.7777	49030.	0.00
7.0000	-1.18E-04	267.8641	-136.5783	-1.69E-04	2728.	1374447.	22.9442	38740.	0.00
7.2000	-1.48E-04	241.0073	-131.7603	-1.32E-04	2455.	1374447.	25.2362	34004.	0.00
7.4000	-1.71E-04	215.1600	-126.5367	-9.92E-05	2192.	1374447.	26.9995	31505.	0.00
7.6000	-1.88E-04	190.3926	-120.9978	-6.97E-05	1939.	1374447.	28.3894	30185.	0.00
7.8000	-1.99E-04	166.7608	-115.2098	-4.37E-05	1699.	1374447.	29.4904	29599.	0.00
8.0000	-2.06E-04	144.3087	-109.2254	-2.11E-05	1470.	1374447.	30.3543	29531.	0.00
8.2000	-2.08E-04	123.0707	-103.0884	-1.60E-06	1254.	1374447.	31.0154	29867.	0.00
8.4000	-2.06E-04	103.0733	-96.8370	1.49E-05	1050.	1374447.	31.4982	30549.	0.00
8.6000	-2.02E-04	84.3359	-90.1391	2.85E-05	859.0384	1374447.	35.4806	35174.	0.00
8.8000	-1.95E-04	67.0177	-83.0841	3.95E-05	682.6365	1374447.	35.0702	36003.	0.00
9.0000	-1.86E-04	51.1023	-75.1900	4.81E-05	520.5235	1374447.	43.8707	47187.	0.00
9.2000	-1.76E-04	36.9417	-66.5683	5.45E-05	376.2850	1374447.	42.3464	48235.	0.00
9.4000	-1.64E-04	24.4750	-58.2888	5.90E-05	249.2999	1374447.	40.4484	49284.	0.00
9.6000	-1.52E-04	13.6262	-50.4188	6.17E-05	138.7950	1374447.	38.2513	50332.	0.00
9.8000	-1.39E-04	4.3074	-43.0112	6.30E-05	43.8752	1374447.	35.8250	51381.	0.00
10.0000	-1.27E-04	-3.5783	-36.1053	6.31E-05	36.4483	1374447.	33.2341	52430.	0.00
10.2000	-1.14E-04	-10.1347	-29.7280	6.21E-05	103.2309	1374447.	30.5383	53478.	0.00
10.4000	-1.02E-04	-15.4695	-23.8951	6.02E-05	157.5712	1374447.	27.7911	54527.	0.00
10.6000	-9.01E-05	-19.6927	-18.6120	5.77E-05	200.5883	1374447.	25.0403	55575.	0.00
10.8000	-7.89E-05	-22.9143	-13.8752	5.46E-05	233.4031	1374447.	22.3277	56624.	0.00
11.0000	-6.83E-05	-25.2428	-9.6734	5.11E-05	257.1208	1374447.	19.6896	57673.	0.00
11.2000	-5.84E-05	-26.7837	-5.9889	4.73E-05	272.8162	1374447.	17.1561	58721.	0.00
11.4000	-4.94E-05	-27.6383	-2.7980	4.33E-05	281.5216	1374447.	14.7523	59770.	0.00
11.6000	-4.11E-05	-27.9029	-0.07298	3.93E-05	284.2164	1374447.	12.4980	60818.	0.00
11.8000	-3.36E-05	-27.6675	2.2176	3.52E-05	281.8190	1374447.	10.4083	61867.	0.00
12.0000	-2.70E-05	-27.0158	4.1078	3.13E-05	275.1809	1374447.	8.4937	62916.	0.00
12.2000	-2.11E-05	-26.0244	5.6333	2.74E-05	265.0821	1374447.	6.7609	63964.	0.00
12.4000	-1.60E-05	-24.7625	6.8307	2.37E-05	252.2287	1374447.	5.2128	65013.	0.00
12.6000	-1.17E-05	-23.2921	7.7369	2.02E-05	237.2514	1374447.	3.8492	66061.	0.00
12.8000	-7.95E-06	-21.6677	8.3885	1.69E-05	220.7059	1374447.	2.6671	67110.	0.00
13.0000	-4.87E-06	-19.9367	8.8213	1.39E-05	203.0736	1374447.	1.6611	68159.	0.00
13.2000	-2.38E-06	-18.1392	9.0698	1.12E-05	184.7646	1374447.	0.8236	69207.	0.00
13.4000	-4.14E-07	-16.3088	9.1667	8.64E-06	166.1200	1374447.	0.1454	70256.	0.00
13.6000	1.08E-06	-14.4725	9.1428	6.40E-06	147.4161	1374447.	-0.3842	71304.	0.00
13.8000	2.15E-06	-12.6517	9.0267	4.43E-06	128.8688	1374447.	-0.7771	72353.	0.00
14.0000	2.85E-06	-10.8619	8.8444	2.72E-06	110.6381	1374447.	-1.0460	73402.	0.00

14.2000	3.24E-06	-9.1139	8.6193	1.27E-06	92.8335	1374447.	-1.2047	74450.	0.00
14.4000	3.36E-06	-7.4141	8.3721	6.47E-08	75.5198	1374447.	-1.2673	75499.	0.00
14.6000	3.26E-06	-5.7651	8.1205	-8.94E-07	58.7224	1374447.	-1.2485	76547.	0.00
14.8000	3.00E-06	-4.1659	7.8793	-1.62E-06	42.4338	1374447.	-1.1637	77596.	0.00
15.0000	2.62E-06	-2.6133	7.6601	-2.11E-06	26.6192	1374447.	-1.0284	78644.	0.00
15.2000	2.16E-06	-1.1019	7.4714	-2.38E-06	11.2237	1374447.	-0.8588	79693.	0.00
15.4000	1.66E-06	0.3752	7.3183	-2.43E-06	3.8219	1374447.	-0.6715	80742.	0.00
15.6000	1.18E-06	1.8255	7.2029	-2.27E-06	18.5940	1374447.	-0.4834	81790.	0.00
15.8000	7.54E-07	3.2564	4.4376	-1.90E-06	33.1690	1374447.	-27.1689	7205863.	0.00
16.0000	4.21E-07	3.6005	-0.7389	-1.40E-06	36.6745	1374447.	-24.5967	1.17E+07	0.00
16.2000	1.92E-07	2.9608	-3.3292	-9.27E-07	30.1584	1374447.	-1.3061	1358277.	0.00
16.4000	5.00E-08	2.2688	-3.4938	-5.47E-07	23.1101	1374447.	-0.3395	1358277.	0.00
16.6000	-2.63E-08	1.5633	-3.3202	-2.68E-07	15.9235	1374447.	2.0747	1.58E+07	0.00
16.8000	-5.71E-08	0.9407	-2.7272	-8.55E-08	9.5822	1374447.	3.8561	1.35E+07	0.00
17.0000	-6.05E-08	0.4724	-1.9497	1.73E-08	4.8120	1374447.	3.9188	1.30E+07	0.00
17.2000	-5.02E-08	0.1609	-1.2259	6.33E-08	1.6385	1374447.	3.3186	1.32E+07	0.00
17.4000	-3.52E-08	-0.01795	-0.6460	7.37E-08	0.1828	1374447.	2.4802	1.41E+07	0.00
17.6000	-2.07E-08	-0.09756	-0.2371	6.53E-08	0.9937	1374447.	1.6091	1.56E+07	0.00
17.8000	-9.04E-09	-0.1128	0.00371	5.00E-08	1.1490	1374447.	0.7991	1.77E+07	0.00
18.0000	-6.78E-10	-0.09607	0.09063	3.48E-08	0.9786	1374447.	0.07006	2.07E+07	0.00
18.2000	4.89E-09	-0.07655	0.09431	2.23E-08	0.7797	1374447.	-0.03322	1358277.	0.00
18.4000	8.23E-09	-0.05835	0.08539	1.25E-08	0.5944	1374447.	-0.05592	1358277.	0.00
18.6000	9.88E-09	-0.04239	0.07309	5.14E-09	0.4318	1374447.	-0.06709	1358277.	0.00
18.8000	1.03E-08	-0.02911	0.05940	-6.63E-11	0.2965	1374447.	-0.06987	1358277.	0.00
19.0000	9.85E-09	-0.01863	0.04572	-3.54E-09	0.1898	1374447.	-0.06691	1358277.	0.00
19.2000	8.87E-09	-0.01082	0.03300	-5.68E-09	0.1103	1374447.	-0.06026	1358277.	0.00
19.4000	7.58E-09	-0.00543	0.02183	-6.87E-09	0.05530	1374447.	-0.05147	1358277.	0.00
19.6000	6.13E-09	-0.00209	0.01252	-7.41E-09	0.02131	1374447.	-0.04161	1358277.	0.00
19.8000	4.61E-09	-4.19E-04	0.00523	-7.60E-09	0.00427	1374447.	-0.03133	1358277.	0.00
20.0000	3.09E-09	0.00	0.00	-7.63E-09	0.00	1374447.	-0.02097	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 9:

Pile-head deflection = 0.01006540 meters
Computed slope at pile head = -0.00271118 radians
Maximum bending moment = 686.30399754 kN-m
Maximum shear force = 450.00000000 kN
Depth of maximum bending moment = 2.40000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 25
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 10

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 500.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.01333	4.17E-10	500.0000	-0.00338	4.25E-09	1374447.	0.00	0.00	0.00
0.2000	0.01265	100.0000	494.9219	-0.00337	1019.	1374447.	-50.7809	802.7284	0.00
0.4000	0.01198	197.9688	481.1830	-0.00335	2016.	1374447.	-86.6080	1446.	0.00
0.6000	0.01131	292.4732	460.4521	-0.00332	2979.	1374447.	-120.7011	2134.	0.00
0.8000	0.01065	382.1496	433.1782	-0.00327	3893.	1374447.	-152.0382	2854.	0.00
1.0000	0.01001	465.7445	399.8890	-0.00320	4744.	1374447.	-180.8539	3615.	0.00
1.2000	0.00937	542.1052	361.0745	-0.00313	5522.	1374447.	-207.2912	4424.	0.00
1.4000	0.00875	610.1743	317.2010	-0.00305	6215.	1374447.	-231.4439	5288.	0.00
1.6000	0.00815	668.9856	268.7188	-0.00295	6814.	1374447.	-253.3778	6216.	0.00
1.8000	0.00757	717.6618	216.0668	-0.00285	7310.	1374447.	-273.1422	7215.	0.00
2.0000	0.00701	755.4123	159.6752	-0.00275	7695.	1374447.	-290.7741	8295.	0.00
2.2000	0.00647	781.5319	99.9678	-0.00263	7961.	1374447.	-306.2999	9464.	0.00
2.4000	0.00596	795.3994	37.3646	-0.00252	8102.	1374447.	-319.7320	10734.	0.00
2.6000	0.00547	796.4777	0.8069	-0.00240	8113.	1374447.	-45.8444	1678.	0.00
2.8000	0.00500	795.7222	-8.3877	-0.00229	8105.	1374447.	-46.1021	1846.	0.00
3.0000	0.00455	793.1226	-17.6226	-0.00217	8079.	1374447.	-46.2468	2033.	0.00
3.2000	0.00413	788.6731	-26.8750	-0.00206	8033.	1374447.	-46.2768	2243.	0.00
3.4000	0.00373	782.3726	-36.1216	-0.00194	7969.	1374447.	-46.1900	2479.	0.00
3.6000	0.00335	774.2245	-45.3391	-0.00183	7886.	1374447.	-45.9844	2745.	0.00
3.8000	0.00300	764.2370	-54.5033	-0.00172	7784.	1374447.	-45.6575	3049.	0.00
4.0000	0.00266	752.4232	-63.5897	-0.00161	7664.	1374447.	-45.2064	3395.	0.00
4.2000	0.00235	738.8011	-72.5731	-0.00150	7525.	1374447.	-44.6279	3794.	0.00
4.4000	0.00206	723.3939	-81.4277	-0.00139	7368.	1374447.	-43.9181	4257.	0.00
4.6000	0.00180	706.2300	-90.1267	-0.00129	7194.	1374447.	-43.0721	4798.	0.00
4.8000	0.00155	687.3433	-98.6423	-0.00119	7001.	1374447.	-42.0839	5437.	0.00
5.0000	0.00132	666.7731	-106.9453	-0.00109	6792.	1374447.	-40.9459	6201.	0.00

5.2000	0.00111	644.5651	-115.0046	-9.93E-04	6565.	1374447.	-39.6477	7127.	0.00
5.4000	9.23E-04	620.7713	-122.7870	-9.01E-04	6323.	1374447.	-38.1755	8269.	0.00
5.6000	7.52E-04	595.4504	-130.2555	-8.13E-04	6065.	1374447.	-36.5098	9707.	0.00
5.8000	5.98E-04	568.6691	-137.3687	-7.28E-04	5792.	1374447.	-34.6222	11572.	0.00
6.0000	4.61E-04	540.5029	-144.0778	-6.47E-04	5506.	1374447.	-32.4686	14084.	0.00
6.2000	3.40E-04	511.0379	-150.3223	-5.71E-04	5205.	1374447.	-29.9767	17658.	0.00
6.4000	2.33E-04	480.3740	-156.0214	-4.98E-04	4893.	1374447.	-27.0146	23205.	0.00
6.6000	1.40E-04	448.6294	-161.0527	-4.31E-04	4570.	1374447.	-23.2981	33254.	0.00
6.8000	6.05E-05	415.9529	-165.1804	-3.68E-04	4237.	1374447.	-17.9788	59465.	0.00
7.0000	-7.08E-06	382.5572	-166.0834	-3.10E-04	3897.	1374447.	8.9489	252832.	0.00
7.2000	-6.35E-05	349.5195	-163.2872	-2.57E-04	3560.	1374447.	19.0132	59891.	0.00
7.4000	-1.10E-04	317.2423	-159.0588	-2.08E-04	3231.	1374447.	23.2706	42412.	0.00
7.6000	-1.47E-04	285.8960	-154.1182	-1.64E-04	2912.	1374447.	26.1353	35620.	0.00
7.8000	-1.75E-04	255.5951	-148.6781	-1.25E-04	2603.	1374447.	28.2656	32224.	0.00
8.0000	-1.97E-04	226.4248	-142.8604	-8.98E-05	2306.	1374447.	29.9114	30416.	0.00
8.2000	-2.11E-04	198.4509	-136.7495	-5.89E-05	2021.	1374447.	31.1978	29523.	0.00
8.4000	-2.20E-04	171.7250	-130.4100	-3.19E-05	1749.	1374447.	32.1976	29240.	0.00
8.6000	-2.24E-04	146.2869	-123.5154	-8.80E-06	1490.	1374447.	36.7479	32793.	0.00
8.8000	-2.24E-04	122.3188	-116.1678	1.07E-05	1246.	1374447.	36.7279	32829.	0.00
9.0000	-2.20E-04	99.8198	-107.3087	2.69E-05	1017.	1374447.	51.8632	47187.	0.00
9.2000	-2.13E-04	79.3953	-96.9856	3.99E-05	808.7140	1374447.	51.3675	48235.	0.00
9.4000	-2.04E-04	61.0255	-86.8258	5.02E-05	621.6010	1374447.	50.2308	49284.	0.00
9.6000	-1.93E-04	44.6650	-76.9476	5.79E-05	454.9538	1374447.	48.5512	50332.	0.00
9.8000	-1.81E-04	30.2465	-67.4502	6.33E-05	308.0882	1374447.	46.4232	51381.	0.00
10.0000	-1.68E-04	17.6849	-58.4142	6.68E-05	180.1371	1374447.	43.9363	52430.	0.00
10.2000	-1.54E-04	6.8808	-49.9032	6.86E-05	70.0873	1374447.	41.1743	53478.	0.00
10.4000	-1.40E-04	-2.2763	-41.9642	6.89E-05	23.1867	1374447.	38.2150	54527.	0.00
10.6000	-1.26E-04	-9.9049	-34.6298	6.80E-05	100.8904	1374447.	35.1293	55575.	0.00
10.8000	-1.13E-04	-16.1283	-27.9188	6.61E-05	164.2812	1374447.	31.9809	56624.	0.00
11.0000	-1.00E-04	-21.0724	-21.8380	6.34E-05	214.6417	1374447.	28.8268	57673.	0.00
11.2000	-8.76E-05	-24.8635	-16.3837	6.01E-05	253.2572	1374447.	25.7165	58721.	0.00
11.4000	-7.59E-05	-27.6259	-11.5427	5.63E-05	281.3948	1374447.	22.6927	59770.	0.00
11.6000	-6.51E-05	-29.4806	-7.2944	5.21E-05	300.2866	1374447.	19.7911	60818.	0.00
11.8000	-5.51E-05	-30.5436	-3.6112	4.77E-05	311.1148	1374447.	17.0411	61867.	0.00
12.0000	-4.60E-05	-30.9250	-0.4604	4.33E-05	314.9998	1374447.	14.4660	62916.	0.00
12.2000	-3.78E-05	-30.7278	2.1945	3.88E-05	312.9908	1374447.	12.0832	63964.	0.00
12.4000	-3.05E-05	-30.0472	4.3933	3.44E-05	306.0586	1374447.	9.9052	65013.	0.00
12.6000	-2.40E-05	-28.9705	6.1778	3.01E-05	295.0908	1374447.	7.9393	66061.	0.00
12.8000	-1.84E-05	-27.5761	7.5906	2.60E-05	280.8882	1374447.	6.1888	67110.	0.00
13.0000	-1.37E-05	-25.9342	8.6748	2.21E-05	264.1640	1374447.	4.6532	68159.	0.00
13.2000	-9.62E-06	-24.1062	9.4729	1.84E-05	245.5440	1374447.	3.3285	69207.	0.00
13.4000	-6.29E-06	-22.1451	10.0266	1.51E-05	225.5679	1374447.	2.2080	70256.	0.00
13.6000	-3.60E-06	-20.0956	10.3756	1.20E-05	204.6921	1374447.	1.2822	71304.	0.00
13.8000	-1.49E-06	-17.9948	10.5578	9.21E-06	183.2939	1374447.	0.5399	72353.	0.00

14.0000	8.81E-08	-15.8725	10.6086	6.75E-06	161.6758	1374447.	-0.03233	73402.	0.00
14.2000	1.21E-06	-13.7514	10.5604	4.59E-06	140.0708	1374447.	-0.4492	74450.	0.00
14.4000	1.92E-06	-11.6483	10.4428	2.74E-06	118.6488	1374447.	-0.7266	75499.	0.00
14.6000	2.30E-06	-9.5743	10.2820	1.20E-06	97.5229	1374447.	-0.8819	76547.	0.00
14.8000	2.40E-06	-7.5355	10.1005	-4.49E-08	76.7563	1374447.	-0.9330	77596.	0.00
15.0000	2.29E-06	-5.5341	9.9173	-9.96E-07	56.3698	1374447.	-0.8990	78644.	0.00
15.2000	2.01E-06	-3.5686	9.7474	-1.66E-06	36.3497	1374447.	-0.7996	79693.	0.00
15.4000	1.62E-06	-1.6351	9.6019	-2.04E-06	16.6553	1374447.	-0.6552	80742.	0.00
15.6000	1.19E-06	0.2722	9.4877	-2.14E-06	2.7721	1374447.	-0.4874	81790.	0.00
15.8000	7.69E-07	2.1599	6.7261	-1.96E-06	22.0009	1374447.	-27.1285	7058258.	0.00
16.0000	4.08E-07	2.9626	1.8852	-1.59E-06	30.1766	1374447.	-21.2807	1.04E+07	0.00
16.2000	1.34E-07	2.9140	-1.4687	-1.16E-06	29.6817	1374447.	-12.2583	1.83E+07	0.00
16.4000	-5.51E-08	2.3751	-2.6572	-7.74E-07	24.1924	1374447.	0.3742	1358277.	0.00
16.6000	-1.75E-07	1.8511	-2.5007	-4.66E-07	18.8555	1374447.	1.1905	1358277.	0.00
16.8000	-2.42E-07	1.3748	-2.2175	-2.32E-07	14.0037	1374447.	1.6410	1358277.	0.00
17.0000	-2.68E-07	0.9641	-1.8715	-6.14E-08	9.8205	1374447.	1.8197	1358277.	0.00
17.2000	-2.66E-07	0.6262	-1.5087	5.43E-08	6.3787	1374447.	1.8079	1358277.	0.00
17.4000	-2.46E-07	0.3607	-1.1607	1.26E-07	3.6736	1374447.	1.6723	1358277.	0.00
17.6000	-2.16E-07	0.1620	-0.8469	1.64E-07	1.6498	1374447.	1.4655	1358277.	0.00
17.8000	-1.81E-07	0.02190	-0.5777	1.77E-07	0.2231	1374447.	1.2266	1358277.	0.00
18.0000	-1.45E-07	-0.06910	-0.3567	1.74E-07	0.7039	1374447.	0.9834	1358277.	0.00
18.2000	-1.11E-07	-0.1208	-0.1829	1.60E-07	1.2301	1374447.	0.7538	1358277.	0.00
18.4000	-8.07E-08	-0.1423	-0.05275	1.41E-07	1.4492	1374447.	0.5482	1358277.	0.00
18.6000	-5.46E-08	-0.1419	0.03913	1.20E-07	1.4450	1374447.	0.3706	1358277.	0.00
18.8000	-3.26E-08	-0.1266	0.09830	1.01E-07	1.2898	1374447.	0.2211	1358277.	0.00
19.0000	-1.42E-08	-0.1025	0.1301	8.42E-08	1.0445	1374447.	0.09659	1358277.	0.00
19.2000	1.12E-09	-0.07460	0.1390	7.13E-08	0.7599	1374447.	-0.00764	1358277.	0.00
19.4000	1.43E-08	-0.04696	0.1285	6.25E-08	0.4783	1374447.	-0.09712	1358277.	0.00
19.6000	2.61E-08	-0.02321	0.1010	5.74E-08	0.2364	1374447.	-0.1773	1358277.	0.00
19.8000	3.72E-08	-0.00654	0.05802	5.52E-08	0.06667	1374447.	-0.2529	1358277.	0.00
20.0000	4.82E-08	0.00	0.00	5.47E-08	0.00	1374447.	-0.3272	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 10:

Pile-head deflection = 0.01332803 meters
Computed slope at pile head = -0.00337974 radians
Maximum bending moment = 796.47767899 kN-m
Maximum shear force = 500.00000000 kN
Depth of maximum bending moment = 2.60000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 31

Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 11

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 550.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.01814	2.38E-09	550.0000	-0.00428	2.43E-08	1374447.	0.00	0.00	0.00
0.2000	0.01729	110.0000	545.7787	-0.00428	1120.	1374447.	-42.2131	488.4139	0.00
0.4000	0.01643	218.3115	534.3151	-0.00425	2224.	1374447.	-72.4231	881.4732	0.00
0.6000	0.01559	323.7260	516.3073	-0.00421	3297.	1374447.	-107.6545	1382.	0.00
0.8000	0.01475	424.8344	490.9776	-0.00416	4327.	1374447.	-145.6426	1975.	0.00
1.0000	0.01392	520.1171	458.3373	-0.00409	5298.	1374447.	-180.7600	2597.	0.00
1.2000	0.01311	608.1693	418.9390	-0.00401	6195.	1374447.	-213.2236	3252.	0.00
1.4000	0.01232	687.6927	373.2988	-0.00391	7005.	1374447.	-243.1780	3948.	0.00
1.6000	0.01155	757.4889	321.9083	-0.00381	7716.	1374447.	-270.7269	4689.	0.00
1.8000	0.01080	816.4560	265.2407	-0.00369	8316.	1374447.	-295.9500	5482.	0.00
2.0000	0.01007	863.5851	203.7545	-0.00357	8796.	1374447.	-318.9118	6334.	0.00
2.2000	0.00937	897.9578	137.8967	-0.00344	9147.	1374447.	-339.6665	7252.	0.00
2.4000	0.00869	918.7438	68.1041	-0.00331	9358.	1374447.	-358.2593	8243.	0.00
2.6000	0.00804	925.1994	27.0633	-0.00318	9424.	1374447.	-52.1483	1297.	0.00
2.8000	0.00742	929.5691	16.5881	-0.00304	9469.	1374447.	-52.6042	1417.	0.00
3.0000	0.00683	931.8346	6.0331	-0.00291	9492.	1374447.	-52.9453	1551.	0.00
3.2000	0.00626	931.9824	-4.5784	-0.00277	9493.	1374447.	-53.1699	1699.	0.00
3.4000	0.00572	930.0033	-15.2230	-0.00263	9473.	1374447.	-53.2764	1863.	0.00
3.6000	0.00521	925.8931	-25.8770	-0.00250	9431.	1374447.	-53.2631	2046.	0.00
3.8000	0.00472	919.6525	-36.5161	-0.00237	9368.	1374447.	-53.1281	2251.	0.00
4.0000	0.00426	911.2867	-47.1159	-0.00223	9282.	1374447.	-52.8695	2482.	0.00
4.2000	0.00383	900.8061	-57.6513	-0.00210	9176.	1374447.	-52.4850	2743.	0.00
4.4000	0.00342	888.2262	-68.0970	-0.00197	9047.	1374447.	-51.9721	3040.	0.00
4.6000	0.00304	873.5673	-78.4270	-0.00184	8898.	1374447.	-51.3279	3378.	0.00
4.8000	0.00268	856.8554	-88.6147	-0.00172	8728.	1374447.	-50.5491	3768.	0.00

5.0000	0.00235	838.1214	-98.6328	-0.00159	8537.	1374447.	-49.6317	4220.	0.00
5.2000	0.00205	817.4022	-108.4530	-0.00147	8326.	1374447.	-48.5705	4749.	0.00
5.4000	0.00176	794.7402	-118.0460	-0.00136	8095.	1374447.	-47.3594	5372.	0.00
5.6000	0.00150	770.1838	-127.3810	-0.00124	7845.	1374447.	-45.9903	6117.	0.00
5.8000	0.00127	743.7878	-136.4253	-0.00113	7576.	1374447.	-44.4526	7019.	0.00
6.0000	0.00105	715.6137	-145.1438	-0.00102	7289.	1374447.	-42.7319	8130.	0.00
6.2000	8.57E-04	685.7303	-153.4977	-9.23E-04	6985.	1374447.	-40.8079	9527.	0.00
6.4000	6.82E-04	654.2146	-161.4436	-8.25E-04	6664.	1374447.	-38.6509	11333.	0.00
6.6000	5.27E-04	621.1529	-168.9303	-7.33E-04	6327.	1374447.	-36.2157	13757.	0.00
6.8000	3.89E-04	586.6425	-175.8946	-6.45E-04	5975.	1374447.	-33.4278	17185.	0.00
7.0000	2.69E-04	550.7950	-182.2527	-5.62E-04	5610.	1374447.	-30.1529	22451.	0.00
7.2000	1.64E-04	513.7414	-187.8787	-4.85E-04	5233.	1374447.	-26.1077	31795.	0.00
7.4000	7.48E-05	475.6435	-192.5379	-4.13E-04	4845.	1374447.	-20.4842	54778.	0.00
7.6000	-8.02E-07	436.7262	-194.1305	-3.46E-04	4448.	1374447.	4.5585	1136322.	0.00
7.8000	-6.37E-05	397.9913	-191.6584	-2.85E-04	4054.	1374447.	20.1626	63320.	0.00
8.0000	-1.15E-04	360.0629	-187.1411	-2.30E-04	3668.	1374447.	25.0107	43503.	0.00
8.2000	-1.56E-04	323.1349	-181.8217	-1.81E-04	3291.	1374447.	28.1832	36177.	0.00
8.4000	-1.87E-04	287.3342	-175.9532	-1.36E-04	2927.	1374447.	30.5014	32583.	0.00
8.6000	-2.10E-04	252.7536	-169.3055	-9.69E-05	2575.	1374447.	35.9755	34217.	0.00
8.8000	-2.26E-04	219.6120	-162.0230	-6.25E-05	2237.	1374447.	36.8496	32614.	0.00
9.0000	-2.35E-04	187.9444	-152.7869	-3.29E-05	1914.	1374447.	55.5113	47187.	0.00
9.2000	-2.39E-04	158.4972	-141.4688	-7.66E-06	1614.	1374447.	57.6705	48235.	0.00
9.4000	-2.38E-04	131.3569	-129.8284	1.34E-05	1338.	1374447.	58.7334	49284.	0.00
9.6000	-2.34E-04	106.5659	-118.0724	3.07E-05	1085.	1374447.	58.8260	50332.	0.00
9.8000	-2.26E-04	84.1279	-106.3825	4.46E-05	856.9198	1374447.	58.0736	51381.	0.00
10.0000	-2.16E-04	64.0129	-94.9152	5.54E-05	652.0298	1374447.	56.5987	52430.	0.00
10.2000	-2.04E-04	46.1618	-83.8034	6.34E-05	470.2003	1374447.	54.5193	53478.	0.00
10.4000	-1.91E-04	30.4915	-73.1567	6.90E-05	310.5840	1374447.	51.9477	54527.	0.00
10.6000	-1.76E-04	16.8991	-63.0630	7.24E-05	172.1330	1374447.	48.9894	55575.	0.00
10.8000	-1.62E-04	5.2663	-53.5898	7.40E-05	53.6421	1374447.	45.7426	56624.	0.00
11.0000	-1.47E-04	-4.5368	-44.7858	7.41E-05	46.2115	1374447.	42.2971	57673.	0.00
11.2000	-1.32E-04	-12.6480	-36.6827	7.28E-05	128.8318	1374447.	38.7343	58721.	0.00
11.4000	-1.18E-04	-19.2099	-29.2966	7.05E-05	195.6702	1374447.	35.1268	59770.	0.00
11.6000	-1.04E-04	-24.3667	-22.6301	6.74E-05	248.1968	1374447.	31.5384	60818.	0.00
11.8000	-9.06E-05	-28.2619	-16.6738	6.35E-05	287.8734	1374447.	28.0244	61867.	0.00
12.0000	-7.83E-05	-31.0362	-11.4082	5.92E-05	316.1319	1374447.	24.6316	62916.	0.00
12.2000	-6.69E-05	-32.8252	-6.8052	5.46E-05	334.3545	1374447.	21.3987	63964.	0.00
12.4000	-5.65E-05	-33.7582	-2.8296	4.97E-05	343.8586	1374447.	18.3569	65013.	0.00
12.6000	-4.70E-05	-33.9570	0.5591	4.48E-05	345.8833	1374447.	15.5302	66061.	0.00
12.8000	-3.86E-05	-33.5346	3.4057	3.99E-05	341.5805	1374447.	12.9360	67110.	0.00
13.0000	-3.11E-05	-32.5947	5.7579	3.51E-05	332.0071	1374447.	10.5855	68159.	0.00
13.2000	-2.45E-05	-31.2314	7.6649	3.04E-05	318.1208	1374447.	8.4848	69207.	0.00
13.4000	-1.89E-05	-29.5288	9.1769	2.60E-05	300.7774	1374447.	6.6348	70256.	0.00
13.6000	-1.41E-05	-27.5607	10.3436	2.19E-05	280.7308	1374447.	5.0321	71304.	0.00

13.8000	-1.01E-05	-25.3913	11.2137	1.80E-05	258.6339	1374447.	3.6695	72353.	0.00
14.0000	-6.91E-06	-23.0752	11.8343	1.45E-05	235.0420	1374447.	2.5364	73402.	0.00
14.2000	-4.35E-06	-20.6576	12.2499	1.13E-05	210.4166	1374447.	1.6195	74450.	0.00
14.4000	-2.39E-06	-18.1752	12.5021	8.47E-06	185.1314	1374447.	0.9026	75499.	0.00
14.6000	-9.61E-07	-15.6568	12.6291	6.01E-06	159.4785	1374447.	0.3677	76547.	0.00
14.8000	1.41E-08	-13.1236	12.6654	3.92E-06	133.6757	1374447.	-0.00548	77596.	0.00
15.0000	6.07E-07	-10.5906	12.6409	2.19E-06	107.8752	1374447.	-0.2387	78644.	0.00
15.2000	8.92E-07	-8.0672	12.5815	8.36E-07	82.1719	1374447.	-0.3553	79693.	0.00
15.4000	9.41E-07	-5.5580	12.5080	-1.55E-07	56.6133	1374447.	-0.3801	80742.	0.00
15.6000	8.30E-07	-3.0640	12.4361	-7.82E-07	31.2096	1374447.	-0.3393	81790.	0.00
15.8000	6.29E-07	-0.5836	9.9075	-1.05E-06	5.9442	1374447.	-24.9462	7937493.	0.00
16.0000	4.11E-07	0.8990	5.3137	-1.02E-06	9.1573	1374447.	-20.9923	1.02E+07	0.00
16.2000	2.19E-07	1.5419	1.6567	-8.47E-07	15.7057	1374447.	-15.5776	1.42E+07	0.00
16.4000	7.17E-08	1.5617	-0.6729	-6.21E-07	15.9072	1374447.	-7.7180	2.15E+07	0.00
16.6000	-2.99E-08	1.2727	-1.4244	-4.15E-07	12.9641	1374447.	0.2030	1358277.	0.00
16.8000	-9.44E-08	0.9919	-1.3400	-2.50E-07	10.1037	1374447.	0.6411	1358277.	0.00
17.0000	-1.30E-07	0.7368	-1.1876	-1.25E-07	7.5045	1374447.	0.8831	1358277.	0.00
17.2000	-1.44E-07	0.5169	-1.0013	-3.34E-08	5.2651	1374447.	0.9795	1358277.	0.00
17.4000	-1.43E-07	0.3362	-0.8060	2.87E-08	3.4249	1374447.	0.9738	1358277.	0.00
17.6000	-1.33E-07	0.1945	-0.6184	6.73E-08	1.9813	1374447.	0.9016	1358277.	0.00
17.8000	-1.16E-07	0.08886	-0.4492	8.79E-08	0.9052	1374447.	0.7910	1358277.	0.00
18.0000	-9.76E-08	0.01485	-0.3038	9.55E-08	0.1513	1374447.	0.6628	1358277.	0.00
18.2000	-7.83E-08	-0.03265	-0.1843	9.42E-08	0.3326	1374447.	0.5316	1358277.	0.00
18.4000	-5.99E-08	-0.05889	-0.09049	8.75E-08	0.5998	1374447.	0.4070	1358277.	0.00
18.6000	-4.33E-08	-0.06885	-0.02040	7.82E-08	0.7013	1374447.	0.2939	1358277.	0.00
18.8000	-2.86E-08	-0.06705	0.02844	6.83E-08	0.6830	1374447.	0.1945	1358277.	0.00
19.0000	-1.59E-08	-0.05747	0.05872	5.93E-08	0.5854	1374447.	0.1083	1358277.	0.00
19.2000	-4.93E-09	-0.04356	0.07290	5.19E-08	0.4437	1374447.	0.03348	1358277.	0.00
19.4000	4.82E-09	-0.02831	0.07298	4.67E-08	0.2884	1374447.	-0.03273	1358277.	0.00
19.6000	1.37E-08	-0.01437	0.06037	4.36E-08	0.1464	1374447.	-0.09335	1358277.	0.00
19.8000	2.23E-08	-0.00416	0.03592	4.22E-08	0.04239	1374447.	-0.1511	1358277.	0.00
20.0000	3.06E-08	0.00	0.00	4.19E-08	0.00	1374447.	-0.2081	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 11:

Pile-head deflection = 0.01814249 meters
Computed slope at pile head = -0.00428349 radians
Maximum bending moment = 931.98236217 kN-m
Maximum shear force = 550.00000000 kN
Depth of maximum bending moment = 3.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head

Number of iterations = 40

Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 12

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 600.000 kN

Applied moment at pile head = 0.000 kN-m

Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.02805	1.19E-10	600.0000	-0.00593	1.21E-09	1374447.	0.00	0.00	0.00
0.2000	0.02686	120.0000	597.5494	-0.00592	1222.	1374447.	-24.5058	182.4524	0.00
0.4000	0.02568	239.0198	589.9553	-0.00589	2435.	1374447.	-51.4352	400.5739	0.00
0.6000	0.02451	355.9821	576.5335	-0.00585	3626.	1374447.	-82.7832	675.6212	0.00
0.8000	0.02334	469.6332	556.4939	-0.00579	4784.	1374447.	-117.6121	1008.	0.00
1.0000	0.02219	578.5797	529.2198	-0.00571	5893.	1374447.	-155.1294	1398.	0.00
1.2000	0.02106	681.3211	494.2413	-0.00562	6940.	1374447.	-194.6553	1849.	0.00
1.4000	0.01994	776.2762	451.3386	-0.00551	7907.	1374447.	-234.3723	2351.	0.00
1.6000	0.01885	861.8565	400.7447	-0.00540	8779.	1374447.	-271.5665	2881.	0.00
1.8000	0.01778	936.5741	342.9732	-0.00526	9540.	1374447.	-306.1482	3443.	0.00
2.0000	0.01674	999.0458	278.5353	-0.00512	10176.	1374447.	-338.2304	4040.	0.00
2.2000	0.01573	1048.	207.9214	-0.00498	10675.	1374447.	-367.9088	4677.	0.00
2.4000	0.01475	1082.	131.6038	-0.00482	11023.	1374447.	-395.2673	5358.	0.00
2.6000	0.01381	1101.	85.8335	-0.00466	11211.	1374447.	-62.4365	904.4795	0.00
2.8000	0.01289	1117.	73.2668	-0.00450	11373.	1374447.	-63.2302	981.0861	0.00
3.0000	0.01201	1130.	60.5532	-0.00434	11509.	1374447.	-63.9057	1065.	0.00
3.2000	0.01116	1141.	47.7165	-0.00417	11620.	1374447.	-64.4618	1156.	0.00
3.4000	0.01034	1149.	34.7806	-0.00400	11704.	1374447.	-64.8968	1256.	0.00
3.6000	0.00955	1155.	21.7700	-0.00384	11761.	1374447.	-65.2093	1365.	0.00
3.8000	0.00880	1158.	8.7093	-0.00367	11793.	1374447.	-65.3979	1486.	0.00
4.0000	0.00809	1158.	-4.3766	-0.00350	11797.	1374447.	-65.4609	1619.	0.00
4.2000	0.00740	1156.	-17.4624	-0.00333	11775.	1374447.	-65.3969	1767.	0.00
4.4000	0.00675	1151.	-30.5225	-0.00316	11726.	1374447.	-65.2041	1931.	0.00
4.6000	0.00614	1144.	-43.5310	-0.00300	11650.	1374447.	-64.8807	2114.	0.00

4.8000	0.00555	1134.	-56.4616	-0.00283	11548.	1374447.	-64.4250	2320.	0.00
5.0000	0.00500	1121.	-69.2875	-0.00267	11420.	1374447.	-63.8348	2551.	0.00
5.2000	0.00449	1106.	-81.9818	-0.00251	11266.	1374447.	-63.1078	2813.	0.00
5.4000	0.00400	1088.	-94.5167	-0.00235	11086.	1374447.	-62.2413	3110.	0.00
5.6000	0.00355	1068.	-106.8641	-0.00219	10881.	1374447.	-61.2324	3451.	0.00
5.8000	0.00313	1046.	-118.9950	-0.00203	10651.	1374447.	-60.0772	3843.	0.00
6.0000	0.00274	1021.	-130.8799	-0.00188	10396.	1374447.	-58.7715	4298.	0.00
6.2000	0.00237	993.2965	-142.4880	-0.00174	10118.	1374447.	-57.3097	4830.	0.00
6.4000	0.00204	963.6527	-153.7875	-0.00160	9816.	1374447.	-55.6849	5460.	0.00
6.6000	0.00173	931.7815	-164.7448	-0.00146	9491.	1374447.	-53.8881	6213.	0.00
6.8000	0.00146	897.7547	-175.3243	-0.00132	9144.	1374447.	-51.9072	7127.	0.00
7.0000	0.00120	861.6517	-185.4876	-0.00120	8777.	1374447.	-49.7259	8254.	0.00
7.2000	9.78E-04	823.5597	-195.1923	-0.00107	8389.	1374447.	-47.3208	9677.	0.00
7.4000	7.75E-04	783.5748	-204.3902	-9.57E-04	7981.	1374447.	-44.6579	11521.	0.00
7.6000	5.95E-04	741.8036	-213.0244	-8.46E-04	7556.	1374447.	-41.6842	14007.	0.00
7.8000	4.37E-04	698.3651	-221.0240	-7.41E-04	7113.	1374447.	-38.3123	17544.	0.00
8.0000	2.99E-04	653.3940	-228.2935	-6.43E-04	6655.	1374447.	-34.3822	23025.	0.00
8.2000	1.80E-04	607.0477	-234.6867	-5.51E-04	6183.	1374447.	-29.5501	32913.	0.00
8.4000	7.81E-05	559.5193	-239.9212	-4.66E-04	5699.	1374447.	-22.7953	58348.	0.00
8.6000	-7.01E-06	511.0792	-241.0434	-3.89E-04	5206.	1374447.	11.5737	330241.	0.00
8.8000	-7.73E-05	463.1020	-237.3091	-3.18E-04	4717.	1374447.	25.7688	66690.	0.00
9.0000	-1.34E-04	416.1555	-231.5690	-2.54E-04	4239.	1374447.	31.6322	47187.	0.00
9.2000	-1.79E-04	370.4744	-224.0947	-1.96E-04	3774.	1374447.	43.1113	48235.	0.00
9.4000	-2.13E-04	326.5176	-214.5434	-1.46E-04	3326.	1374447.	52.4021	49284.	0.00
9.6000	-2.37E-04	284.6570	-203.3375	-1.01E-04	2899.	1374447.	59.6569	50332.	0.00
9.8000	-2.53E-04	245.1827	-190.8678	-6.27E-05	2497.	1374447.	65.0393	51381.	0.00
10.0000	-2.62E-04	208.3099	-177.4919	-2.97E-05	2122.	1374447.	68.7201	52430.	0.00
10.2000	-2.65E-04	174.1859	-163.5325	-1.90E-06	1774.	1374447.	70.8740	53478.	0.00
10.4000	-2.63E-04	142.8969	-149.2774	2.12E-05	1456.	1374447.	71.6765	54527.	0.00
10.6000	-2.57E-04	114.4749	-134.9797	3.99E-05	1166.	1374447.	71.3007	55575.	0.00
10.8000	-2.47E-04	88.9050	-120.8581	5.47E-05	905.5787	1374447.	69.9155	56624.	0.00
11.0000	-2.35E-04	66.1317	-107.0982	6.60E-05	673.6117	1374447.	67.6832	57673.	0.00
11.2000	-2.21E-04	46.0657	-93.8542	7.41E-05	469.2213	1374447.	64.7574	58721.	0.00
11.4000	-2.05E-04	28.5900	-81.2502	7.96E-05	291.2154	1374447.	61.2826	59770.	0.00
11.6000	-1.89E-04	13.5656	-69.3827	8.26E-05	138.1783	1374447.	57.3923	60818.	0.00
11.8000	-1.72E-04	0.8369	-58.3226	8.37E-05	8.5249	1374447.	53.2086	61867.	0.00
12.0000	-1.55E-04	-9.7634	-48.1175	8.30E-05	99.4493	1374447.	48.8419	62916.	0.00
12.2000	-1.39E-04	-18.4101	-38.7943	8.10E-05	187.5236	1374447.	44.3904	63964.	0.00
12.4000	-1.23E-04	-25.2811	-30.3612	7.78E-05	257.5116	1374447.	39.9405	65013.	0.00
12.6000	-1.08E-04	-30.5546	-22.8105	7.37E-05	311.2263	1374447.	35.5666	66061.	0.00
12.8000	-9.34E-05	-34.4053	-16.1207	6.90E-05	350.4499	1374447.	31.3317	67110.	0.00
13.0000	-8.01E-05	-37.0028	-10.2587	6.38E-05	376.9079	1374447.	27.2881	68159.	0.00
13.2000	-6.78E-05	-38.5088	-5.1821	5.83E-05	392.2476	1374447.	23.4777	69207.	0.00
13.4000	-5.67E-05	-39.0757	-0.8411	5.27E-05	398.0216	1374447.	19.9327	70256.	0.00

13.6000	-4.68E-05	-38.8452	2.8199	4.70E-05	395.6744	1374447.	16.6768	71304.	0.00
13.8000	-3.79E-05	-37.9477	5.8601	4.14E-05	386.5324	1374447.	13.7253	72353.	0.00
14.0000	-3.02E-05	-36.5012	8.3413	3.60E-05	371.7982	1374447.	11.0865	73402.	0.00
14.2000	-2.35E-05	-34.6112	10.3261	3.08E-05	352.5470	1374447.	8.7620	74450.	0.00
14.4000	-1.79E-05	-32.3708	11.8771	2.60E-05	329.7258	1374447.	6.7478	75499.	0.00
14.6000	-1.32E-05	-29.8604	13.0554	2.14E-05	304.1554	1374447.	5.0348	76547.	0.00
14.8000	-9.30E-06	-27.1486	13.9198	1.73E-05	276.5335	1374447.	3.6095	77596.	0.00
15.0000	-6.24E-06	-24.2925	14.5262	1.35E-05	247.4411	1374447.	2.4544	78644.	0.00
15.2000	-3.89E-06	-21.3381	14.9265	1.02E-05	217.3486	1374447.	1.5490	79693.	0.00
15.4000	-2.15E-06	-18.3219	15.1684	7.33E-06	186.6250	1374447.	0.8696	80742.	0.00
15.6000	-9.54E-07	-15.2708	15.2943	4.89E-06	155.5471	1374447.	0.3901	81790.	0.00
15.8000	-1.98E-07	-12.2041	16.6559	2.89E-06	124.3102	1374447.	13.2253	1.34E+07	0.00
16.0000	2.03E-07	-8.6084	17.8408	1.38E-06	87.6849	1374447.	-1.3760	1358277.	0.00
16.2000	3.53E-07	-5.0678	15.4033	3.82E-07	51.6203	1374447.	-22.9988	1.30E+07	0.00
16.4000	3.55E-07	-2.4471	10.9303	-1.65E-07	24.9261	1374447.	-21.7312	1.22E+07	0.00
16.6000	2.87E-07	-0.6957	6.8446	-3.94E-07	7.0861	1374447.	-19.1262	1.33E+07	0.00
16.8000	1.98E-07	0.2907	3.3851	-4.23E-07	2.9611	1374447.	-15.4685	1.56E+07	0.00
17.0000	1.17E-07	0.6584	0.7278	-3.54E-07	6.7060	1374447.	-11.1044	1.89E+07	0.00
17.2000	5.62E-08	0.5818	-0.4208	-2.64E-07	5.9265	1374447.	-0.3817	1358277.	0.00
17.4000	1.19E-08	0.4900	-0.4670	-1.86E-07	4.9915	1374447.	-0.08078	1358277.	0.00
17.6000	-1.82E-08	0.3950	-0.4628	-1.21E-07	4.0236	1374447.	0.1233	1358277.	0.00
17.8000	-3.67E-08	0.3049	-0.4255	-7.06E-08	3.1059	1374447.	0.2492	1358277.	0.00
18.0000	-4.64E-08	0.2248	-0.3691	-3.20E-08	2.2898	1374447.	0.3149	1358277.	0.00
18.2000	-4.95E-08	0.1573	-0.3040	-4.22E-09	1.6020	1374447.	0.3362	1358277.	0.00
18.4000	-4.81E-08	0.1032	-0.2378	1.47E-08	1.0512	1374447.	0.3264	1358277.	0.00
18.6000	-4.36E-08	0.06217	-0.1755	2.68E-08	0.6333	1374447.	0.2962	1358277.	0.00
18.8000	-3.74E-08	0.03300	-0.1205	3.37E-08	0.3361	1374447.	0.2537	1358277.	0.00
19.0000	-3.01E-08	0.01397	-0.07468	3.71E-08	0.1423	1374447.	0.2046	1358277.	0.00
19.2000	-2.25E-08	0.00312	-0.03893	3.84E-08	0.03182	1374447.	0.1529	1358277.	0.00
19.4000	-1.48E-08	-0.00161	-0.01360	3.85E-08	0.01635	1374447.	0.1005	1358277.	0.00
19.6000	-7.12E-09	-0.00232	0.00128	3.82E-08	0.02360	1374447.	0.04837	1358277.	0.00
19.8000	4.79E-10	-0.00109	0.00579	3.79E-08	0.01114	1374447.	-0.00326	1358277.	0.00
20.0000	8.05E-09	0.00	0.00	3.78E-08	0.00	1374447.	-0.05467	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 12:

Pile-head deflection = 0.02804808 meters
Computed slope at pile head = -0.00592702 radians
Maximum bending moment = 1158. kN-m
Maximum shear force = 600.00000000 kN
Depth of maximum bending moment = 4.00000000 meters below pile head

Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 84
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 13

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 2500.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.8690	-1.37E-07	2500.	-0.1098	1.40E-06	1374447.	0.00	0.00	0.00
0.2000	0.8471	500.0000	2499.	-0.1097	5093.	1374447.	-6.4758	1.5290	0.00
0.4000	0.8251	999.7410	2497.	-0.1096	10183.	1374447.	-12.2905	2.9790	0.00
0.6000	0.8032	1499.	2494.	-0.1094	15269.	1374447.	-18.1454	4.5181	0.00
0.8000	0.7814	1998.	2490.	-0.1092	20347.	1374447.	-23.8867	6.1141	0.00
1.0000	0.7596	2495.	2485.	-0.1089	25415.	1374447.	-29.4406	7.7521	0.00
1.2000	0.7378	2991.	2478.	-0.1085	30471.	1374447.	-34.7811	9.4281	0.00
1.4000	0.7162	3486.	2471.	-0.1080	35513.	1374447.	-39.9101	11.1455	0.00
1.6000	0.6946	3980.	2463.	-0.1075	40539.	1374447.	-44.8451	12.9122	0.00
1.8000	0.6732	4471.	2453.	-0.1068	45546.	1374447.	-49.6106	14.7391	0.00
2.0000	0.6519	4961.	2443.	-0.1062	50533.	1374447.	-54.2334	16.6390	0.00
2.2000	0.6307	5449.	2431.	-0.1054	55499.	1374447.	-58.7390	18.6259	0.00
2.4000	0.6097	5934.	2419.	-0.1046	60440.	1374447.	-63.1498	20.7142	0.00
2.6000	0.5889	6416.	2395.	-0.1037	65355.	1374447.	-174.2286	59.1712	0.00
2.8000	0.5683	6892.	2360.	-0.1027	70200.	1374447.	-180.5286	63.5378	0.00
3.0000	0.5478	7360.	2323.	-0.1017	74971.	1374447.	-186.8286	68.2085	0.00
3.2000	0.5276	7821.	2285.	-0.1006	79666.	1374447.	-193.1286	73.2116	0.00
3.4000	0.5076	8274.	2246.	-0.09939	84282.	1374447.	-199.4286	78.5783	0.00
3.6000	0.4878	8720.	2205.	-0.09815	88817.	1374447.	-205.7286	84.3436	0.00
3.8000	0.4683	9157.	2164.	-0.09685	93268.	1374447.	-212.0286	90.5465	0.00
4.0000	0.4491	9585.	2121.	-0.09549	97633.	1374447.	-218.3286	97.2307	0.00
4.2000	0.4301	10005.	2076.	-0.09406	101908.	1374447.	-224.6286	104.4455	0.00
4.4000	0.4115	10416.	2031.	-0.09258	106093.	1374447.	-230.9286	112.2461	0.00

4.6000	0.3931	10817.	1984.	-0.09103	110183.	1374447.	-237.2286	120.6949	0.00
4.8000	0.3751	11209.	1936.	-0.08943	114176.	1374447.	-243.5286	129.8627	0.00
5.0000	0.3573	11592.	1887.	-0.08777	118070.	1374447.	-249.8286	139.8297	0.00
5.2000	0.3399	11964.	1836.	-0.08606	121863.	1374447.	-256.1286	150.6873	0.00
5.4000	0.3229	12326.	1784.	-0.08429	125551.	1374447.	-262.4286	162.5399	0.00
5.6000	0.3062	12678.	1731.	-0.08247	129132.	1374447.	-268.7286	175.5071	0.00
5.8000	0.2899	13018.	1677.	-0.08060	132604.	1374447.	-271.9136	187.5774	0.00
6.0000	0.2740	13348.	1622.	-0.07868	135965.	1374447.	-272.9514	199.2415	0.00
6.2000	0.2584	13667.	1568.	-0.07672	139215.	1374447.	-273.6841	211.7903	0.00
6.4000	0.2433	13975.	1513.	-0.07471	142353.	1374447.	-274.1054	225.3197	0.00
6.6000	0.2286	14273.	1458.	-0.07265	145379.	1374447.	-274.2092	239.9390	0.00
6.8000	0.2142	14559.	1403.	-0.07055	148294.	1374447.	-273.9889	255.7737	0.00
7.0000	0.2003	14834.	1349.	-0.06841	151097.	1374447.	-273.4378	272.9677	0.00
7.2000	0.1869	15098.	1294.	-0.06624	153789.	1374447.	-272.5488	291.6874	0.00
7.4000	0.1738	15352.	1240.	-0.06402	156370.	1374447.	-271.3147	312.1257	0.00
7.6000	0.1613	15594.	1186.	-0.06177	158840.	1374447.	-269.7279	334.5075	0.00
7.8000	0.1491	15826.	1132.	-0.05948	161200.	1374447.	-267.7807	359.0961	0.00
8.0000	0.1375	16047.	1078.	-0.05717	163451.	1374447.	-265.4650	386.2012	0.00
8.2000	0.1263	16257.	1026.	-0.05481	165594.	1374447.	-262.7725	416.1894	0.00
8.4000	0.1155	16457.	973.4173	-0.05243	167630.	1374447.	-259.6947	449.4970	0.00
8.6000	0.1053	16647.	918.8790	-0.05003	169560.	1374447.	-285.6887	542.6105	0.00
8.8000	0.09554	16825.	862.6529	-0.04759	171374.	1374447.	-276.5717	578.9738	0.00
9.0000	0.08627	16992.	687.0083	-0.04513	173075.	1374447.	-1480.	3431.	0.00
9.2000	0.07749	17099.	383.0178	-0.04265	174173.	1374447.	-1560.	4027.	0.00
9.4000	0.06921	17145.	62.7903	-0.04016	174636.	1374447.	-1642.	4746.	0.00
9.6000	0.06142	17125.	-274.0851	-0.03767	174429.	1374447.	-1727.	5622.	0.00
9.8000	0.05414	17035.	-628.0195	-0.03518	173519.	1374447.	-1813.	6697.	0.00
10.0000	0.04735	16873.	-999.4240	-0.03271	171870.	1374447.	-1901.	8030.	0.00
10.2000	0.04105	16635.	-1389.	-0.03028	169447.	1374447.	-1992.	9703.	0.00
10.4000	0.03524	16318.	-1787.	-0.02788	166212.	1374447.	-1987.	11274.	0.00
10.6000	0.02990	15921.	-2169.	-0.02553	162168.	1374447.	-1836.	12277.	0.00
10.8000	0.02503	15450.	-2521.	-0.02325	157376.	1374447.	-1687.	13482.	0.00
11.0000	0.02060	14912.	-2844.	-0.02104	151896.	1374447.	-1543.	14974.	0.00
11.2000	0.01661	14313.	-3139.	-0.01891	145788.	1374447.	-1403.	16894.	0.00
11.4000	0.01304	13657.	-3405.	-0.01688	139109.	1374447.	-1261.	19349.	0.00
11.6000	0.00986	12951.	-3642.	-0.01494	131915.	1374447.	-1108.	22466.	0.00
11.8000	0.00706	12200.	-3847.	-0.01311	124270.	1374447.	-940.0277	26630.	0.00
12.0000	0.00461	11412.	-4016.	-0.01140	116243.	1374447.	-754.2501	32688.	0.00
12.2000	0.00250	10594.	-4145.	-0.00979	107907.	1374447.	-539.7249	43146.	0.00
12.4000	6.97E-04	9754.	-4222.	-0.00831	99352.	1374447.	-226.6226	65013.	0.00
12.6000	-8.24E-04	8905.	-4218.	-0.00696	90705.	1374447.	272.0656	66061.	0.00
12.8000	-0.00209	8067.	-4136.	-0.00572	82169.	1374447.	538.6000	51655.	0.00
13.0000	-0.00311	7250.	-4011.	-0.00461	73851.	1374447.	711.4793	45721.	0.00
13.2000	-0.00393	6462.	-3856.	-0.00361	65824.	1374447.	848.2864	43190.	0.00

13.4000	-0.00456	5708.	-3675.	-0.00272	58143.	1374447.	960.1582	42149.	0.00
13.6000	-0.00502	4992.	-3473.	-0.00195	50852.	1374447.	1053.	41952.	0.00
13.8000	-0.00533	4319.	-3255.	-0.00127	43991.	1374447.	1129.	42317.	0.00
14.0000	-0.00552	3690.	-3023.	-6.85E-04	37589.	1374447.	1191.	43099.	0.00
14.2000	-0.00561	3109.	-2780.	-1.90E-04	31672.	1374447.	1240.	44221.	0.00
14.4000	-0.00560	2578.	-2528.	2.23E-04	26261.	1374447.	1278.	45640.	0.00
14.6000	-0.00552	2098.	-2270.	5.64E-04	21370.	1374447.	1306.	47331.	0.00
14.8000	-0.00538	1670.	-2007.	8.38E-04	17012.	1374447.	1325.	49285.	0.00
15.0000	-0.00518	1295.	-1741.	0.00105	13193.	1374447.	1335.	51498.	0.00
15.2000	-0.00495	973.7375	-1474.	0.00122	9918.	1374447.	1337.	53976.	0.00
15.4000	-0.00470	705.7096	-1207.	0.00134	7188.	1374447.	1332.	56731.	0.00
15.6000	-0.00442	490.9680	-941.6524	0.00143	5001.	1374447.	1321.	59781.	0.00
15.8000	-0.00413	329.0486	-762.9504	0.00149	3352.	1374447.	466.4653	22615.	0.00
16.0000	-0.00382	185.7879	-670.8257	0.00152	1892.	1374447.	454.7818	23792.	0.00
16.2000	-0.00352	60.7184	-581.1237	0.00154	618.4720	1374447.	442.2384	25161.	0.00
16.4000	-0.00321	-46.6616	-494.0137	0.00154	475.2913	1374447.	428.8612	26755.	0.00
16.6000	-0.00290	-136.8871	-409.6618	0.00153	1394.	1374447.	414.6576	28619.	0.00
16.8000	-0.00259	-210.5264	-328.2348	0.00151	2144.	1374447.	399.6128	30815.	0.00
17.0000	-0.00230	-268.1811	-249.9053	0.00147	2732.	1374447.	383.6825	33427.	0.00
17.2000	-0.00201	-310.4885	-174.8587	0.00143	3163.	1374447.	366.7830	36578.	0.00
17.4000	-0.00172	-338.1245	-103.3030	0.00138	3444.	1374447.	348.7741	40454.	0.00
17.6000	-0.00145	-351.8097	-35.4826	0.00133	3584.	1374447.	329.4295	45344.	0.00
17.8000	-0.00119	-352.3176	28.2988	0.00128	3589.	1374447.	308.3848	51745.	0.00
18.0000	-9.41E-04	-340.4901	87.6404	0.00123	3468.	1374447.	285.0316	60572.	0.00
18.2000	-7.00E-04	-317.2614	141.9717	0.00118	3232.	1374447.	258.2811	73771.	0.00
18.4000	-4.69E-04	-283.7015	190.3911	0.00114	2890.	1374447.	225.9124	96431.	0.00
18.6000	-2.45E-04	-241.1050	231.1867	0.00110	2456.	1374447.	182.0441	148528.	0.00
18.8000	-2.87E-05	-191.2268	258.3071	0.00107	1948.	1374447.	89.1603	620646.	0.00
19.0000	1.82E-04	-137.7821	250.7399	0.00104	1403.	1374447.	-164.8326	181032.	0.00
19.2000	3.89E-04	-90.9308	213.0278	0.00103	926.2136	1374447.	-212.2883	109166.	0.00
19.4000	5.93E-04	-52.5710	167.3633	0.00102	535.4839	1374447.	-244.3564	82399.	0.00
19.6000	7.96E-04	-23.9855	115.9765	0.00101	244.3140	1374447.	-269.5116	67737.	0.00
19.8000	9.98E-04	-6.1804	59.9637	0.00101	62.9530	1374447.	-290.6171	58257.	0.00
20.0000	0.00120	0.00	0.00	0.00101	0.00	1374447.	-309.0197	25763.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 13:

Pile-head deflection = 0.86904166 meters
Computed slope at pile head = -0.10977726 radians
Maximum bending moment = 17145. kN-m
Maximum shear force = -4222. kN

Depth of maximum bending moment = 9.40000000 meters below pile head

Depth of maximum shear force = 12.40000000 meters below pile head

Number of iterations = 29

Number of zero deflection points = 2

Summary of Pile-head Responses for Conventional Analyses

Definitions of Pile-head Loading Conditions:

Load Type 1: Load 1 = Shear, V, kN, and Load 2 = Moment, M, kN-m

Load Type 2: Load 1 = Shear, V, kN, and Load 2 = Slope, S, radians

Load Type 3: Load 1 = Shear, V, kN, and Load 2 = Rot. Stiffness, R, kN-m/rad.

Load Type 4: Load 1 = Top Deflection, y, m, and Load 2 = Moment, M, kN-m

Load Type 5: Load 1 = Top Deflection, y, m, and Load 2 = Slope, S, radians

Load Case No.	Load Type 1	Pile-head Load 1	Load Type 2	Pile-head Load 2	Axial Loading kN	Pile-head Deflection meters	Pile-head Rotation radians	Max Shear in Pile kN	Max Moment in Pile kN-m
1	V, kN	50.0000	M, kN-m	0.00	0.00	3.58E-04	-1.49E-04	50.0000	60.8905
2	V, kN	75.0000	M, kN-m	0.00	0.00	5.47E-04	-2.25E-04	75.0000	91.0320
3	V, kN	100.0000	M, kN-m	0.00	0.00	7.99E-04	-3.17E-04	100.0000	123.9580
4	V, kN	125.0000	M, kN-m	0.00	0.00	0.00111	-4.22E-04	125.0000	157.3453
5	V, kN	150.0000	M, kN-m	0.00	0.00	0.00147	-5.36E-04	150.0000	191.4922
6	V, kN	200.0000	M, kN-m	0.00	0.00	0.00228	-7.83E-04	200.0000	260.3260
7	V, kN	300.0000	M, kN-m	0.00	0.00	0.00450	-0.00139	300.0000	413.3450
8	V, kN	400.0000	M, kN-m	0.00	0.00	0.00775	-0.00219	400.0000	587.9954
9	V, kN	450.0000	M, kN-m	0.00	0.00	0.01007	-0.00271	450.0000	686.3040
10	V, kN	500.0000	M, kN-m	0.00	0.00	0.01333	-0.00338	500.0000	796.4777
11	V, kN	550.0000	M, kN-m	0.00	0.00	0.01814	-0.00428	550.0000	931.9824
12	V, kN	600.0000	M, kN-m	0.00	0.00	0.02805	-0.00593	600.0000	1158.
13	V, kN	2500.	M, kN-m	0.00	0.00	0.8690	-0.1098	-4222.	17145.

Maximum pile-head deflection = 0.8690416581 meters

Maximum pile-head rotation = -0.1097772624 radians = -6.289774 deg.

Summary of Warning Messages

The following warning was reported 609 times

**** Warning ****

An unreasonable input value for shear strength has been specified for a soil defined using the soft clay criteria. The input value is greater than 59.85 kPa. Please check your input data for correctness.

The analysis ended normally.

Opera IV01 (Sp. A) – D1200

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LPile for Windows, Version 2016-09.009

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method
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Files Used for Analysis

Path to file locations:
\m9159\Work\07_Pali\IV01\LPILE\

Name of input data file:
IV01_SpA_D1200.lp9d

Name of output report file:
IV01_SpA_D1200.lp9o

Name of plot output file:
IV01_SpA_D1200.lp9p

Name of runtime message file:
IV01_SpA_D1200.lp9r

Date and Time of Analysis

Date: June 10, 2019 Time: 15:28:06

Problem Title

Project Name: VI02 - Spalle e pila
Job Number:
Client:
Engineer:
Description:

Program Options and Settings

Computational Options:
- Use unfactored loads in computations (conventional analysis)

Engineering Units Used for Data Input and Computations:
- International System Units (kilonewtons, meters, millimeters)

Analysis Control Options:
- Maximum number of iterations allowed = 500
- Deflection tolerance for convergence = 2.5400E-07 m
- Maximum allowable deflection = 2.5400 m
- Number of pile increments = 100

Loading Type and Number of Cycles of Loading:
- Static loading specified

- Use of p-y modification factors for p-y curves not selected
- No distributed lateral loads are entered
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected

- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:
- Output files use decimal points to denote decimal symbols.
- Values of pile-head deflection, bending moment, shear force, and soil reaction are printed for full length of pile.
- Printing Increment (nodal spacing of output points) = 1
- p-y curves computed and reported at user-specified depths
- Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined = 1
Total length of pile = 20.000 m
Depth of ground surface below top of pile = 0.0000 m

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point	Depth Below Pile Head meters	Pile Diameter millimeters
1	0.000	1200.00
2	20.000	1200.00

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is an elastic pile
Cross-sectional Shape = Circular Pile
Length of section = 20.000000 m

Width of top of section = 1.200000 m
Width of bottom of section = 1.200000 m
Top Area = 1.130973 sq. m
Bottom Area = 1.130973 sq. m
Moment of Inertia at Top = 0.101788 m^4
Moment of Inertia at Bottom = 0.101788 m^4
Elastic Modulus = 28000000. kPa

Ground Slope and Pile Batter Angles

Ground Slope Angle = 0.000 degrees
= 0.000 radians

Pile Batter Angle = 0.000 degrees
= 0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 4 layers

Layer 1 is stiff clay with water-induced erosion

Distance from top of pile to top of layer = 0.0000 m
Distance from top of pile to bottom of layer = 2.500000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 80.000000 kPa
Undrained cohesion at bottom of layer = 80.000000 kPa
Epsilon-50 at top of layer = 0.007000
Epsilon-50 at bottom of layer = 0.007000
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 2 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 2.500000 m
Distance from top of pile to bottom of layer = 8.900000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 45.000000 kPa
Undrained cohesion at bottom of layer = 45.000000 kPa
Epsilon-50 at top of layer = 0.015000
Epsilon-50 at bottom of layer = 0.015000

Layer 3 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer = 8.900000 m
Distance from top of pile to bottom of layer = 15.800000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Friction angle at top of layer = 36.000000 deg.
Friction angle at bottom of layer = 36.000000 deg.
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 4 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 15.800000 m
Distance from top of pile to bottom of layer = 20.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 150.000000 kPa
Undrained cohesion at bottom of layer = 150.000000 kPa
Epsilon-50 at top of layer = 0.005000
Epsilon-50 at bottom of layer = 0.005000

(Depth of the lowest soil layer extends 0.000 m below the pile tip)

Summary of Input Soil Properties

Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth m	Effective Unit Wt. kN/m3	Undrained Cohesion kPa	Angle of Friction deg.	E50 or krm	kpy kN/m3
1	Stiff Clay	0.00	9.0000	80.0000	--	0.00700	default
	with Free Water	2.5000	9.0000	80.0000	--	0.00700	default
2	Soft	2.5000	9.0000	45.0000	--	0.01500	--
	Clay	8.9000	9.0000	45.0000	--	0.01500	--
3	Sand	8.9000	9.0000	--	36.0000	--	default
	(Reese, et al.)	15.8000	9.0000	--	36.0000	--	default
4	Soft	15.8000	9.0000	150.0000	--	0.00500	--
	Clay	20.0000	9.0000	150.0000	--	0.00500	--

Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 6

Load No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, kN	Compute Top y vs. Pile Length
1	1	V = 100.000000 kN	M = 0.0000 m-kN	0.0000000	No
2	1	V = 400.000000 kN	M = 0.0000 m-kN	0.0000000	No
3	1	V = 600.000000 kN	M = 0.0000 m-kN	0.0000000	No
4	1	V = 800.000000 kN	M = 0.0000 m-kN	0.0000000	No
5	1	V = 1000.000000 kN	M = 0.0000 m-kN	0.0000000	No
6	1	V = 3800. kN	M = 0.0000 m-kN	0.0000000	No

V = shear force applied normal to pile axis

M = bending moment applied to pile head

y = lateral deflection normal to pile axis

S = pile slope relative to original pile batter angle

R = rotational stiffness applied to pile head

Values of top y vs. pile lengths can be computed only for load types with

specified shear loading (Load Types 1, 2, and 3).

Thrust force is assumed to be acting axially for all pile batter angles.

Specified Depths for Output of p-y Curves

Lateral load-transfer (p-y) curves are computed and output at 8 depths.
(Note that load-transfer values are computeded at the specified depths and
may differ from values computed at nodal points)

Depth No.	Depth Below Pile Head m	Depth Below Ground Surface m
1	0.200	0.200
2	4.100	4.100
3	4.500	4.500
4	9.000	9.000
5	11.800	11.800
6	12.200	12.200
7	16.000	16.000
8	19.800	19.800

Depth of ground surface below top of pile = 0.0000 m

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

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Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Moment-curvature properties were derived from elastic section properties

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Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head meters	Equivalent Top Depth Below Grnd Surf meters	Same Layer Type As Layer Above	Layer is Rock or is Below Rock Layer	F0 Integral for Layer kN	F1 Integral for Layer kN
1	0.00	0.00	N.A.	No	0.00	89.6105
2	2.5000	0.5248	No	No	89.6105	1969.
3	8.9000	5.1624	No	No	2058.	22466.
4	15.8000	15.8000	No	No	24524.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals for Layer n. Layering correction equivalent depths are computed only for soil types with both shallow-depth and deep-depth expressions for peak lateral load transfer. These soil types are soft and stiff clays, non-liquefied sands, and cemented c-phi soil.

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p-y Curves Reported for Specified Depths

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p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 0.200 m
Depth of p-y curve below ground surface = 0.200 m
Equivalent depth of p-y curve = 0.200 m
Pile diameter = 1200.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees

k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.008 m
As = 0.28166
Ac (not used) = 0.22353
pct = 239.440 kN/m
pcd = 1056.000 kN/m
pc = 239.440 kN/m
pu = 6.644 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00118	32.11161
0.00237	63.53756
0.00355	72.28033
0.00473	76.68647
0.00591	78.60052
0.00710	78.72846
0.00828	77.46940
0.00946	75.08018
0.01065	71.73941
0.01183	67.57805
0.01301	62.69601
0.01420	57.17185
0.02366	40.36449
0.03312	23.50423
0.04259	6.64397
0.04495	6.64397

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 2.500 m
Depth of p-y curve below pile head = 4.100 m
Depth of p-y curve below ground surface = 4.100 m
Equiv. depth of p-y curve below ground surface = 2.125 m

Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1200.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 9.730 m
Static pu_s for flat ground = 254.089 kN/m
Static pu_d for flat ground = 486.000 kN/m
y_50 = 0.04500 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 254.089 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00010667	16.93926
0.00085333	33.87851
0.00288	50.81777
0.00683	67.75703
0.01333	84.69629
0.02304	101.63554
0.03659	118.57480
0.05461	135.51406
0.07776	152.45331
0.10667	169.39257
0.14197	186.33183
0.18432	203.27109
0.23435	220.21034
0.29269	237.14960
0.36000	254.08886
0.38250	254.08886

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 2.500 m

Depth of p-y curve below pile head = 4.500 m
Depth of p-y curve below ground surface = 4.500 m
Equiv. depth of p-y curve below ground surface = 2.525 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1200.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 9.730 m
Static pu_s for flat ground = 267.409 kN/m
Static pu_d for flat ground = 486.000 kN/m
y_50 = 0.04500 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 267.409 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00010667	17.82726
0.00085333	35.65451
0.00288	53.48177
0.00683	71.30903
0.01333	89.13629
0.02304	106.96354
0.03659	124.79080
0.05461	142.61806
0.07776	160.44531
0.10667	178.27257
0.14197	196.09983
0.18432	213.92709
0.23435	231.75434
0.29269	249.58160
0.36000	267.40886
0.38250	267.40886

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 8.900 m
Depth of p-y curve below pile head = 9.000 m
Depth of p-y curve below ground surface = 9.000 m
Equiv. depth of p-y curve below ground surface = 5.262 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 1200.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3
K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 1731.832 kN/m
Psd = 5948.704 kN/m
Ps = Pst (shallow controls) = 1731.832 kN/m
A (static) = 0.8923
B (static) = 0.5184
C = Pm/(Ym^(1/n)) = 8576.7391
n = Pm/(m Ym) = 1.7334
m = (Pu-Pm)/(Yu-Ym) = 25898.0384
Yk = [c/(kx)]^(n/(n-1)) = 0.0004 m
Pk = 93.472 kN/m
Ym = b/60 = 0.0200 m
Pm = B ps = 897.851 kN/m
Yu = 3b/80 = 0.0450 m
Pu = A Ps = 1545.302 kN/m
Maximum Es value = 235933.478 kN/m/m
p-multiplier = 1.00000
y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters	p, kN/m
0.00000	0.00000

0.00039618	93.47211
0.00218	249.87076
0.00396	352.76872
0.00574	437.09794
0.00752	510.85283
0.00931	577.49739
0.01109	638.91785
0.01287	696.28003
0.01465	750.36587
0.01644	801.73096
0.01822	850.78734
0.02000	897.85090
0.03250	1221.57638
0.04500	1545.30186
0.05400	1545.30186
0.06300	1545.30186

The above p-y curve was computed using internal default values of k.

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 8.900 m
Depth of p-y curve below pile head = 11.800 m
Depth of p-y curve below ground surface = 11.800 m
Equiv. depth of p-y curve below ground surface = 8.062 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 1200.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3
K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 3235.189 kN/m
Psd = 7799.412 kN/m
Ps = Pst (shallow controls) = 3235.189 kN/m
A (static) = 0.8800
B (static) = 0.5000
C = Pm/(Ym^(1/n)) = 17451.9285

n = Pm/(m Ym) = 1.6447

m = (Pu-Pm)/(Yu-Ym) = 49174.8728

Yk = [c/(kx)]^(n/(n-1)) = 0.0007 m

Pk = 201.958 kN/m

Ym = b/60 = 0.0200 m

Pm = B ps = 1617.594 kN/m

Yu = 3b/80 = 0.0450 m

Pu = A Ps = 2846.966 kN/m

Maximum Es value = 309335.005 kN/m/m

p-multiplier = 1.00000

y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters	p, kN/m
0.00000	0.00000
0.00065288	201.95826
0.00241	446.98902
0.00417	623.62018
0.00593	772.38257
0.00769	904.53354
0.00945	1025.23357
0.01121	1137.38097
0.01296	1242.80406
0.01472	1342.74756
0.01648	1438.10608
0.01824	1529.54927
0.02000	1617.59450
0.03250	2232.28041
0.04500	2846.96632
0.05400	2846.96632
0.06300	2846.96632

The above p-y curve was computed using internal default values of k.

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 3

Depth of top of Layer 3 below pile head = 8.900 m

Depth of p-y curve below pile head = 12.200 m
Depth of p-y curve below ground surface = 12.200 m
Equiv. depth of p-y curve below ground surface = 8.462 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 1200.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3
K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 3487.322 kN/m
Psd = 8063.799 kN/m
Ps = Pst (shallow controls) = 3487.322 kN/m
A (static) = 0.8800
B (static) = 0.5000
C = Pm/(Ym^(1/n)) = 18812.0393
n = Pm/(m Ym) = 1.6447
m = (Pu-Pm)/(Yu-Ym) = 53007.3019
Yk = [c/(kx)]^(n/(n-1)) = 0.0007 m
Pk = 232.247 kN/m
Ym = b/60 = 0.0200 m
Pm = B ps = 1743.661 kN/m
Yu = 3b/80 = 0.0450 m
Pu = A Ps = 3068.844 kN/m
Maximum Es value = 319820.937 kN/m/m
p-multiplier = 1.00000
y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters	p, kN/m
0.00000	0.00000
0.00072618	232.24706
0.00248	489.87596
0.00423	678.08265
0.00598	837.12112
0.00773	978.62052
0.00949	1107.97619

0.01124	1228.23747
0.01299	1341.33554
0.01474	1448.58871
0.01650	1550.94642
0.01825	1649.12041
0.02000	1743.66125
0.03250	2406.25252
0.04500	3068.84380
0.05400	3068.84380
0.06300	3068.84380

The above p-y curve was computed using internal default values of k.

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 4
Depth of top of Layer 4 below pile head = 15.800 m
Depth of p-y curve below pile head = 16.000 m
Depth of p-y curve below ground surface = 16.000 m
Equiv. depth of p-y curve below ground surface = 16.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1200.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 150.000 kPa
Epsilon_50 = 0.0050
J (default value) = 0.5000
Transition depth Xr = 12.587 m
Static pu_s for flat ground = 1912.800 kN/m
Static pu_d for flat ground = 1620.000 kN/m
y_50 = 0.01500 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 1620.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00003556	108.00000
0.00028444	216.00000
0.00096000	324.00000
0.00228	432.00000
0.00444	540.00000
0.00768	648.00000
0.01220	756.00000
0.01820	864.00000
0.02592	972.00000
0.03556	1080.00000
0.04732	1188.00000
0.06144	1296.00000
0.07812	1404.00000
0.09756	1512.00000
0.12000	1620.00000
0.12750	1620.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 4
Depth of top of Layer 4 below pile head = 15.800 m
Depth of p-y curve below pile head = 19.800 m
Depth of p-y curve below ground surface = 19.800 m
Equiv. depth of p-y curve below ground surface = 19.800 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1200.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 150.000 kPa
Epsilon_50 = 0.0050
J (default value) = 0.5000
Transition depth Xr = 12.587 m
Static pu_s for flat ground = 2238.840 kN/m
Static pu_d for flat ground = 1620.000 kN/m
y_50 = 0.01500 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000

Sloping Ground Factor = 1.000

Positive-y, static pu = 1620.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00003556	108.00000
0.00028444	216.00000
0.00096000	324.00000
0.00228	432.00000
0.00444	540.00000
0.00768	648.00000
0.01220	756.00000
0.01820	864.00000
0.02592	972.00000
0.03556	1080.00000
0.04732	1188.00000
0.06144	1296.00000
0.07812	1404.00000
0.09756	1512.00000
0.12000	1620.00000
0.12750	1620.00000

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 1

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 100.000 kN

Applied moment at pile head = 0.000 kN-m

Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	5.92E-04	-3.09E-11	100.0000	-2.01E-04	1.82E-10	2850053.	0.00	0.00	0.00
0.2000	5.52E-04	20.0000	98.5020	-2.00E-04	117.8926	2850053.	-14.9801	5429.	0.00

0.4000	5.12E-04	39.4008	94.2247	-1.98E-04	232.2530	2850053.	-27.7931	10858.	0.00
0.6000	4.73E-04	57.6899	87.5970	-1.95E-04	340.0603	2850053.	-38.4840	16287.	0.00
0.8000	4.34E-04	74.4396	79.4085	-1.90E-04	438.7936	2850053.	-43.4006	19999.	0.00
1.0000	3.97E-04	89.4533	70.4046	-1.84E-04	527.2937	2850053.	-46.6389	23524.	0.00
1.2000	3.60E-04	102.6014	60.8036	-1.78E-04	604.7970	2850053.	-49.3710	27408.	0.00
1.4000	3.25E-04	113.7747	50.7068	-1.70E-04	670.6594	2850053.	-51.5971	31709.	0.00
1.6000	2.92E-04	122.8841	40.2149	-1.62E-04	724.3560	2850053.	-53.3212	36493.	0.00
1.8000	2.61E-04	129.8607	29.4278	-1.53E-04	765.4802	2850053.	-54.5496	41843.	0.00
2.0000	2.31E-04	134.6552	18.4437	-1.44E-04	793.7425	2850053.	-55.2913	47858.	0.00
2.2000	2.03E-04	137.2382	7.3589	-1.34E-04	808.9678	2850053.	-55.5570	54659.	0.00
2.4000	1.77E-04	137.5988	-3.7326	-1.24E-04	811.0937	2850053.	-55.3581	62400.	0.00
2.6000	1.54E-04	135.7451	-10.8065	-1.15E-04	800.1669	2850053.	-15.3810	20039.	0.00
2.8000	1.31E-04	133.2762	-13.8533	-1.05E-04	785.6135	2850053.	-15.0865	22947.	0.00
3.0000	1.11E-04	130.2038	-16.8346	-9.62E-05	767.5029	2850053.	-14.7270	26453.	0.00
3.2000	9.30E-05	126.5423	-19.7372	-8.72E-05	745.9200	2850053.	-14.2991	30743.	0.00
3.4000	7.65E-05	122.3089	-22.5470	-7.84E-05	720.9655	2850053.	-13.7984	36084.	0.00
3.6000	6.17E-05	117.5235	-25.2487	-7.00E-05	692.7575	2850053.	-13.2187	42883.	0.00
3.8000	4.85E-05	112.2094	-27.8256	-6.20E-05	661.4328	2850053.	-12.5509	51785.	0.00
4.0000	3.69E-05	106.3933	-30.2588	-5.43E-05	627.1488	2850053.	-11.7806	63904.	0.00
4.2000	2.68E-05	100.1059	-32.5253	-4.70E-05	590.0871	2850053.	-10.8843	81348.	0.00
4.4000	1.81E-05	93.3832	-34.5956	-4.02E-05	550.4591	2850053.	-9.8186	108765.	0.00
4.6000	1.07E-05	86.2677	-36.4266	-3.39E-05	508.5159	2850053.	-8.4913	159308.	0.00
4.8000	4.48E-06	78.8126	-37.9395	-2.82E-05	464.5706	2850053.	-6.6380	296559.	0.00
5.0000	-6.01E-07	71.0919	-38.3268	-2.29E-05	419.0602	2850053.	2.7654	920460.	0.00
5.2000	-4.68E-06	63.4819	-37.3856	-1.82E-05	374.2019	2850053.	6.6459	283976.	0.00
5.4000	-7.87E-06	56.1376	-35.9031	-1.40E-05	330.9105	2850053.	8.1789	207866.	0.00
5.6000	-1.03E-05	49.1206	-34.1676	-1.03E-05	289.5476	2850053.	9.1765	178698.	0.00
5.8000	-1.20E-05	42.4706	-32.2607	-7.07E-06	250.3484	2850053.	9.8923	165120.	0.00
6.0000	-1.31E-05	36.2163	-30.2294	-4.31E-06	213.4817	2850053.	10.4209	159129.	0.00
6.2000	-1.37E-05	30.3788	-28.1064	-1.97E-06	179.0720	2850053.	10.8091	157746.	0.00
6.4000	-1.39E-05	24.9737	-25.9171	-2.78E-08	147.2109	2850053.	11.0843	159656.	0.00
6.6000	-1.37E-05	20.0120	-23.6822	1.55E-06	117.9634	2850053.	11.2640	164251.	0.00
6.8000	-1.33E-05	15.5009	-21.4198	2.80E-06	91.3717	2850053.	11.3603	171281.	0.00
7.0000	-1.26E-05	11.4441	-19.1456	3.74E-06	67.4587	2850053.	11.3823	180715.	0.00
7.2000	-1.18E-05	7.8426	-16.8736	4.42E-06	46.2294	2850053.	11.3370	192672.	0.00
7.4000	-1.08E-05	4.6946	-14.6169	4.86E-06	27.6732	2850053.	11.2304	207407.	0.00
7.6000	-9.82E-06	1.9959	-12.3871	5.09E-06	11.7649	2850053.	11.0676	225301.	0.00
7.8000	-8.79E-06	-0.2602	-10.1950	5.15E-06	1.5337	2850053.	10.8529	246882.	0.00
8.0000	-7.76E-06	-2.0821	-8.0507	5.07E-06	12.2734	2850053.	10.5906	272850.	0.00
8.2000	-6.76E-06	-3.4805	-5.9632	4.88E-06	20.5161	2850053.	10.2844	304132.	0.00
8.4000	-5.81E-06	-4.4674	-3.9410	4.60E-06	26.3338	2850053.	9.9376	341961.	0.00
8.6000	-4.92E-06	-5.0569	-1.9920	4.26E-06	29.8083	2850053.	9.5527	388018.	0.00
8.8000	-4.11E-06	-5.2642	-0.1236	3.90E-06	31.0305	2850053.	9.1307	444693.	0.00
9.0000	-3.36E-06	-5.1063	0.8688	3.54E-06	30.0998	2850053.	0.7935	47187.	0.00

9.2000	-2.69E-06	-4.9167	1.0130	3.19E-06	28.9820	2850053.	0.6491	48235.	0.00
9.4000	-2.09E-06	-4.7011	1.1294	2.85E-06	27.7112	2850053.	0.5147	49284.	0.00
9.6000	-1.55E-06	-4.4649	1.2199	2.53E-06	26.3190	2850053.	0.3905	50332.	0.00
9.8000	-1.08E-06	-4.2131	1.2867	2.22E-06	24.8348	2850053.	0.2769	51381.	0.00
10.0000	-6.63E-07	-3.9502	1.3317	1.94E-06	23.2852	2850053.	0.1737	52430.	0.00
10.2000	-3.03E-07	-3.6804	1.3572	1.67E-06	21.6947	2850053.	0.08107	53478.	0.00
10.4000	4.72E-09	-3.4074	1.3652	1.42E-06	20.0851	2850053.	-0.00129	54527.	0.00
10.6000	2.65E-07	-3.1343	1.3577	1.19E-06	18.4758	2850053.	-0.07358	55575.	0.00
10.8000	4.81E-07	-2.8643	1.3367	9.80E-07	16.8838	2850053.	-0.1361	56624.	0.00
11.0000	6.57E-07	-2.5996	1.3042	7.88E-07	15.3239	2850053.	-0.1894	57673.	0.00
11.2000	7.96E-07	-2.3426	1.2619	6.15E-07	13.8087	2850053.	-0.2337	58721.	0.00
11.4000	9.03E-07	-2.0949	1.2115	4.59E-07	12.3486	2850053.	-0.2698	59770.	0.00
11.6000	9.80E-07	-1.8580	1.1548	3.20E-07	10.9521	2850053.	-0.2979	60818.	0.00
11.8000	1.03E-06	-1.6330	1.0931	1.98E-07	9.6258	2850053.	-0.3189	61867.	0.00
12.0000	1.06E-06	-1.4207	1.0279	9.07E-08	8.3748	2850053.	-0.3331	62916.	0.00
12.2000	1.07E-06	-1.2218	0.9604	-1.99E-09	7.2023	2850053.	-0.3413	63964.	0.00
12.4000	1.06E-06	-1.0366	0.8919	-8.12E-08	6.1102	2850053.	-0.3440	65013.	0.00
12.6000	1.03E-06	-0.8651	0.8234	-1.48E-07	5.0992	2850053.	-0.3417	66061.	0.00
12.8000	9.99E-07	-0.7072	0.7557	-2.03E-07	4.1688	2850053.	-0.3352	67110.	0.00
13.0000	9.53E-07	-0.5628	0.6897	-2.48E-07	3.3175	2850053.	-0.3249	68159.	0.00
13.2000	9.00E-07	-0.4314	0.6260	-2.83E-07	2.5427	2850053.	-0.3114	69207.	0.00
13.4000	8.40E-07	-0.3124	0.5654	-3.09E-07	1.8414	2850053.	-0.2952	70256.	0.00
13.6000	7.76E-07	-0.2052	0.5082	-3.27E-07	1.2097	2850053.	-0.2768	71304.	0.00
13.8000	7.10E-07	-0.1091	0.4548	-3.38E-07	0.6432	2850053.	-0.2567	72353.	0.00
14.0000	6.41E-07	-0.02329	0.4056	-3.42E-07	0.1373	2850053.	-0.2353	73402.	0.00
14.2000	5.73E-07	0.05313	0.3608	-3.41E-07	0.3132	2850053.	-0.2131	74450.	0.00
14.4000	5.05E-07	0.1210	0.3204	-3.35E-07	0.7134	2850053.	-0.1905	75499.	0.00
14.6000	4.38E-07	0.1813	0.2846	-3.25E-07	1.0686	2850053.	-0.1678	76547.	0.00
14.8000	3.75E-07	0.2348	0.2532	-3.10E-07	1.3843	2850053.	-0.1454	77596.	0.00
15.0000	3.14E-07	0.2826	0.2263	-2.92E-07	1.6657	2850053.	-0.1236	78644.	0.00
15.2000	2.58E-07	0.3254	0.2037	-2.71E-07	1.9180	2850053.	-0.1028	79693.	0.00
15.4000	2.06E-07	0.3641	0.1851	-2.46E-07	2.1460	2850053.	-0.08322	80742.	0.00
15.6000	1.59E-07	0.3994	0.1703	-2.20E-07	2.3544	2850053.	-0.06519	81790.	0.00
15.8000	1.18E-07	0.4322	0.08341	-1.90E-07	2.5475	2850053.	-0.8033	1358277.	0.00
16.0000	8.32E-08	0.4328	-0.05343	-1.60E-07	2.5511	2850053.	-0.5652	1358277.	0.00
16.2000	5.42E-08	0.4108	-0.1468	-1.31E-07	2.4215	2850053.	-0.3683	1358277.	0.00
16.4000	3.10E-08	0.3741	-0.2047	-1.03E-07	2.2050	2850053.	-0.2105	1358277.	0.00
16.6000	1.30E-08	0.3289	-0.2346	-7.83E-08	1.9389	2850053.	-0.08847	1358277.	0.00
16.8000	-3.32E-10	0.2803	-0.2432	-5.70E-08	1.6520	2850053.	0.00225	1358277.	0.00
17.0000	-9.76E-09	0.2317	-0.2363	-3.90E-08	1.3656	2850053.	0.06626	1358277.	0.00
17.2000	-1.59E-08	0.1857	-0.2189	-2.44E-08	1.0948	2850053.	0.1082	1358277.	0.00
17.4000	-1.95E-08	0.1441	-0.1948	-1.28E-08	0.8495	2850053.	0.1324	1358277.	0.00
17.6000	-2.10E-08	0.1078	-0.1673	-3.94E-09	0.6354	2850053.	0.1429	1358277.	0.00
17.8000	-2.11E-08	0.07719	-0.1387	2.55E-09	0.4550	2850053.	0.1431	1358277.	0.00

18.0000	-2.00E-08	0.05231	-0.1108	7.09E-09	0.3084	2850053.	0.1360	1358277.	0.00
18.2000	-1.82E-08	0.03288	-0.08480	1.01E-08	0.1938	2850053.	0.1238	1358277.	0.00
18.4000	-1.60E-08	0.01839	-0.06156	1.19E-08	0.1084	2850053.	0.1086	1358277.	0.00
18.6000	-1.35E-08	0.00825	-0.04155	1.28E-08	0.04863	2850053.	0.09156	1358277.	0.00
18.8000	-1.09E-08	0.00177	-0.02502	1.32E-08	0.01045	2850053.	0.07376	1358277.	0.00
19.0000	-8.21E-09	-0.00176	-0.01206	1.32E-08	0.01035	2850053.	0.05579	1358277.	0.00
19.2000	-5.59E-09	-0.00305	-0.00268	1.30E-08	0.01799	2850053.	0.03798	1358277.	0.00
19.4000	-3.01E-09	-0.00283	0.00316	1.28E-08	0.01668	2850053.	0.02047	1358277.	0.00
19.6000	-4.75E-10	-0.00179	0.00553	1.26E-08	0.01054	2850053.	0.00323	1358277.	0.00
19.8000	2.04E-09	-6.17E-04	0.00447	1.25E-08	0.00364	2850053.	-0.01384	1358277.	0.00
20.0000	4.54E-09	0.00	0.00	1.25E-08	0.00	2850053.	-0.03086	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 1:

Pile-head deflection = 0.00059206 meters
Computed slope at pile head = -0.00020099 radians
Maximum bending moment = 137.59879944 kN-m
Maximum shear force = 100.00000000 kN
Depth of maximum bending moment = 2.40000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 8
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 2

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 400.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00550	1.85E-10	400.0000	-0.00134	1.09E-09	2850053.	0.00	0.00	0.00

0.2000	0.00523	80.0000	392.2251	-0.00134	471.5702	2850053.	-77.7493	2973.	0.00
0.4000	0.00496	156.8900	374.6548	-0.00133	924.8083	2850053.	-97.9530	3946.	0.00
0.6000	0.00470	229.8619	353.2043	-0.00132	1355.	2850053.	-116.5523	4960.	0.00
0.8000	0.00444	298.1718	328.1888	-0.00130	1758.	2850053.	-133.6026	6021.	0.00
1.0000	0.00418	361.1375	299.9203	-0.00127	2129.	2850053.	-149.0821	7132.	0.00
1.2000	0.00393	418.1399	268.7330	-0.00125	2465.	2850053.	-162.7912	8288.	0.00
1.4000	0.00368	468.6307	235.1043	-0.00122	2762.	2850053.	-173.4962	9424.	0.00
1.6000	0.00344	512.1816	199.4608	-0.00118	3019.	2850053.	-182.9382	10628.	0.00
1.8000	0.00321	548.4150	162.0356	-0.00114	3233.	2850053.	-191.3143	11920.	0.00
2.0000	0.00298	576.9958	123.0409	-0.00110	3401.	2850053.	-198.6320	13309.	0.00
2.2000	0.00277	597.6314	82.6876	-0.00106	3523.	2850053.	-204.9015	14804.	0.00
2.4000	0.00256	610.0709	41.1841	-0.00102	3596.	2850053.	-210.1338	16418.	0.00
2.6000	0.00236	614.1050	16.3499	-9.78E-04	3620.	2850053.	-38.2076	3238.	0.00
2.8000	0.00217	616.6108	8.6933	-9.34E-04	3635.	2850053.	-38.3587	3537.	0.00
3.0000	0.00199	617.5823	1.0146	-8.91E-04	3640.	2850053.	-38.4279	3869.	0.00
3.2000	0.00181	617.0167	-6.6696	-8.48E-04	3637.	2850053.	-38.4138	4239.	0.00
3.4000	0.00165	614.9145	-14.3424	-8.04E-04	3625.	2850053.	-38.3151	4652.	0.00
3.6000	0.00149	611.2797	-21.9870	-7.61E-04	3603.	2850053.	-38.1301	5116.	0.00
3.8000	0.00134	606.1197	-29.5857	-7.19E-04	3573.	2850053.	-37.8569	5639.	0.00
4.0000	0.00120	599.4454	-37.1207	-6.76E-04	3534.	2850053.	-37.4936	6233.	0.00
4.2000	0.00107	591.2714	-44.5739	-6.35E-04	3485.	2850053.	-37.0377	6910.	0.00
4.4000	9.49E-04	581.6159	-51.9263	-5.94E-04	3428.	2850053.	-36.4865	7687.	0.00
4.6000	8.35E-04	570.5009	-59.1586	-5.53E-04	3363.	2850053.	-35.8363	8587.	0.00
4.8000	7.28E-04	557.9525	-66.2505	-5.14E-04	3289.	2850053.	-35.0830	9638.	0.00
5.0000	6.29E-04	544.0007	-73.1809	-4.75E-04	3207.	2850053.	-34.2213	10877.	0.00
5.2000	5.38E-04	528.6801	-79.9274	-4.37E-04	3116.	2850053.	-33.2440	12356.	0.00
5.4000	4.54E-04	512.0297	-86.4660	-4.01E-04	3018.	2850053.	-32.1420	14148.	0.00
5.6000	3.78E-04	494.0937	-92.7705	-3.65E-04	2912.	2850053.	-30.9026	16359.	0.00
5.8000	3.08E-04	474.9215	-98.8116	-3.31E-04	2799.	2850053.	-29.5079	19148.	0.00
6.0000	2.45E-04	454.5691	-104.5555	-2.99E-04	2680.	2850053.	-27.9317	22777.	0.00
6.2000	1.89E-04	433.0993	-109.9620	-2.68E-04	2553.	2850053.	-26.1328	27698.	0.00
6.4000	1.38E-04	410.5843	-114.9795	-2.38E-04	2420.	2850053.	-24.0429	34791.	0.00
6.6000	9.35E-05	387.1075	-119.5372	-2.10E-04	2282.	2850053.	-21.5337	46067.	0.00
6.8000	5.42E-05	362.7694	-123.5222	-1.84E-04	2138.	2850053.	-18.3161	67589.	0.00
7.0000	2.00E-05	337.6986	-126.6948	-1.59E-04	1991.	2850053.	-13.4100	134103.	0.00
7.2000	-9.46E-06	312.0915	-126.9782	-1.36E-04	1840.	2850053.	10.5762	223598.	0.00
7.4000	-3.45E-05	286.9074	-124.2562	-1.15E-04	1691.	2850053.	16.6438	96376.	0.00
7.6000	-5.56E-05	262.3890	-120.6046	-9.61E-05	1547.	2850053.	19.8717	71491.	0.00
7.8000	-7.30E-05	238.6655	-116.4022	-7.85E-05	1407.	2850053.	22.1521	60722.	0.00
8.0000	-8.70E-05	215.8281	-111.7964	-6.25E-05	1272.	2850053.	23.9059	54967.	0.00
8.2000	-9.80E-05	193.9470	-106.8752	-4.82E-05	1143.	2850053.	25.3063	51659.	0.00
8.4000	-1.06E-04	173.0780	-101.7002	-3.53E-05	1020.	2850053.	26.4437	49779.	0.00
8.6000	-1.12E-04	153.2669	-96.3186	-2.38E-05	903.4511	2850053.	27.3719	48842.	0.00
8.8000	-1.16E-04	134.5506	-90.7688	-1.37E-05	793.1256	2850053.	28.1259	48588.	0.00

9.0000	-1.18E-04	116.9593	-85.1823	-4.90E-06	689.4317	2850053.	27.7396	47187.	0.00
9.2000	-1.18E-04	100.4777	-79.5689	2.73E-06	592.2784	2850053.	28.3944	48235.	0.00
9.4000	-1.16E-04	85.1318	-73.8591	9.24E-06	501.8201	2850053.	28.7034	49284.	0.00
9.6000	-1.14E-04	70.9340	-68.1189	1.47E-05	418.1296	2850053.	28.6986	50332.	0.00
9.8000	-1.11E-04	57.8842	-62.4078	1.92E-05	341.2058	2850053.	28.4124	51381.	0.00
10.0000	-1.06E-04	45.9709	-56.7788	2.29E-05	270.9813	2850053.	27.8772	52430.	0.00
10.2000	-1.01E-04	35.1727	-51.2786	2.57E-05	207.3298	2850053.	27.1248	53478.	0.00
10.4000	-9.60E-05	25.4594	-45.9475	2.79E-05	150.0739	2850053.	26.1865	54527.	0.00
10.6000	-9.03E-05	16.7937	-40.8196	2.93E-05	98.9924	2850053.	25.0923	55575.	0.00
10.8000	-8.43E-05	9.1316	-35.9233	3.02E-05	53.8273	2850053.	23.8712	56624.	0.00
11.0000	-7.82E-05	2.4244	-31.2811	3.07E-05	14.2907	2850053.	22.5503	57673.	0.00
11.2000	-7.21E-05	-3.3809	-26.9106	3.06E-05	19.9289	2850053.	21.1553	58721.	0.00
11.4000	-6.60E-05	-8.3399	-22.8241	3.02E-05	49.1604	2850053.	19.7100	59770.	0.00
11.6000	-6.00E-05	-12.5105	-19.0294	2.95E-05	73.7446	2850053.	18.2363	60818.	0.00
11.8000	-5.42E-05	-15.9516	-15.5304	2.85E-05	94.0290	2850053.	16.7542	61867.	0.00
12.0000	-4.86E-05	-18.7226	-12.3268	2.73E-05	110.3629	2850053.	15.2817	62916.	0.00
12.2000	-4.33E-05	-20.8823	-9.4151	2.59E-05	123.0937	2850053.	13.8346	63964.	0.00
12.4000	-3.82E-05	-22.4887	-6.7890	2.44E-05	132.5624	2850053.	12.4270	65013.	0.00
12.6000	-3.35E-05	-23.5979	-4.4392	2.27E-05	139.1010	2850053.	11.0710	66061.	0.00
12.8000	-2.91E-05	-24.2643	-2.3544	2.11E-05	143.0293	2850053.	9.7766	67110.	0.00
13.0000	-2.51E-05	-24.5397	-0.5215	1.93E-05	144.6524	2850053.	8.5524	68159.	0.00
13.2000	-2.14E-05	-24.4729	1.0742	1.76E-05	144.2589	2850053.	7.4050	69207.	0.00
13.4000	-1.80E-05	-24.1100	2.4487	1.59E-05	142.1195	2850053.	6.3395	70256.	0.00
13.6000	-1.50E-05	-23.4935	3.6186	1.42E-05	138.4853	2850053.	5.3595	71304.	0.00
13.8000	-1.23E-05	-22.6626	4.6012	1.26E-05	133.5874	2850053.	4.4671	72353.	0.00
14.0000	-9.98E-06	-21.6530	5.4143	1.11E-05	127.6362	2850053.	3.6633	73402.	0.00
14.2000	-7.92E-06	-20.4969	6.0754	9.59E-06	120.8213	2850053.	2.9479	74450.	0.00
14.4000	-6.14E-06	-19.2228	6.6021	8.20E-06	113.3114	2850053.	2.3194	75499.	0.00
14.6000	-4.64E-06	-17.8560	7.0116	6.90E-06	105.2545	2850053.	1.7755	76547.	0.00
14.8000	-3.38E-06	-16.4182	7.3205	5.70E-06	96.7790	2850053.	1.3131	77596.	0.00
15.0000	-2.36E-06	-14.9278	7.5446	4.60E-06	87.9940	2850053.	0.9282	78644.	0.00
15.2000	-1.55E-06	-13.4003	7.6990	3.60E-06	78.9900	2850053.	0.6159	79693.	0.00
15.4000	-9.19E-07	-11.8482	7.7977	2.72E-06	69.8409	2850053.	0.3711	80742.	0.00
15.6000	-4.59E-07	-10.2813	7.8536	1.94E-06	60.6042	2850053.	0.1877	81790.	0.00
15.8000	-1.43E-07	-8.7068	9.4144	1.27E-06	51.3233	2850053.	15.4205	2.15E+07	0.00
16.0000	5.06E-08	-6.5155	10.9221	7.40E-07	38.4064	2850053.	-0.3436	1358277.	0.00
16.2000	1.53E-07	-4.3379	10.7839	3.59E-07	25.5705	2850053.	-1.0382	1358277.	0.00
16.4000	1.94E-07	-2.2019	8.4394	1.30E-07	12.9795	2850053.	-22.4069	2.31E+07	0.00
16.6000	2.05E-07	-0.9622	3.8427	1.87E-08	5.6717	2850053.	-23.5604	2.30E+07	0.00
16.8000	2.02E-07	-0.6648	1.3496	-3.84E-08	3.9190	2850053.	-1.3703	1358277.	0.00
17.0000	1.89E-07	-0.4223	1.0839	-7.65E-08	2.4895	2850053.	-1.2865	1358277.	0.00
17.2000	1.71E-07	-0.2313	0.8390	-9.94E-08	1.3633	2850053.	-1.1624	1358277.	0.00
17.4000	1.50E-07	-0.08672	0.6212	-1.11E-07	0.5112	2850053.	-1.0164	1358277.	0.00
17.6000	1.27E-07	0.01719	0.4333	-1.13E-07	0.1013	2850053.	-0.8620	1358277.	0.00

17.8000	1.04E-07	0.08661	0.2762	-1.09E-07	0.5105	2850053.	-0.7093	1358277.	0.00
18.0000	8.32E-08	0.1277	0.1488	-1.02E-07	0.7525	2850053.	-0.5648	1358277.	0.00
18.2000	6.37E-08	0.1461	0.04904	-9.23E-08	0.8613	2850053.	-0.4325	1358277.	0.00
18.4000	4.63E-08	0.1473	-0.02563	-8.20E-08	0.8682	2850053.	-0.3142	1358277.	0.00
18.6000	3.09E-08	0.1359	-0.07803	-7.20E-08	0.8009	2850053.	-0.2098	1358277.	0.00
18.8000	1.74E-08	0.1161	-0.1109	-6.32E-08	0.6842	2850053.	-0.1185	1358277.	0.00
19.0000	5.62E-09	0.09153	-0.1265	-5.59E-08	0.5395	2850053.	-0.03816	1358277.	0.00
19.2000	-4.92E-09	0.06546	-0.1270	-5.04E-08	0.3858	2850053.	0.03343	1358277.	0.00
19.4000	-1.45E-08	0.04073	-0.1138	-4.67E-08	0.2401	2850053.	0.09878	1358277.	0.00
19.6000	-2.36E-08	0.01995	-0.08787	-4.46E-08	0.1176	2850053.	0.1602	1358277.	0.00
19.8000	-3.24E-08	0.00558	-0.04987	-4.37E-08	0.03287	2850053.	0.2198	1358277.	0.00
20.0000	-4.11E-08	0.00	0.00	-4.35E-08	0.00	2850053.	0.2789	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 2:

Pile-head deflection = 0.00549893 meters
Computed slope at pile head = -0.00133998 radians
Maximum bending moment = 617.58230802 kN-m
Maximum shear force = 400.00000000 kN
Depth of maximum bending moment = 3.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 19
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 3

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 600.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
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0.00	0.01349	8.65E-10	600.0000	-0.00278	5.10E-09	2850053.	0.00	0.00	0.00
0.2000	0.01293	120.0000	593.6940	-0.00278	707.3553	2850053.	-63.0597	975.3751	0.00
0.4000	0.01238	237.4776	577.6336	-0.00277	1400.	2850053.	-97.5443	1576.	0.00
0.6000	0.01182	351.0535	554.9177	-0.00275	2069.	2850053.	-129.6147	2192.	0.00
0.8000	0.01128	459.4447	526.0002	-0.00272	2708.	2850053.	-159.5601	2830.	0.00
1.0000	0.01074	561.4536	491.2889	-0.00268	3310.	2850053.	-187.5535	3494.	0.00
1.2000	0.01020	655.9603	451.1630	-0.00264	3867.	2850053.	-213.7052	4188.	0.00
1.4000	0.00968	741.9188	405.9835	-0.00259	4373.	2850053.	-238.0895	4919.	0.00
1.6000	0.00917	818.3537	356.0987	-0.00253	4824.	2850053.	-260.7586	5688.	0.00
1.8000	0.00867	884.3582	301.8478	-0.00248	5213.	2850053.	-281.7508	6501.	0.00
2.0000	0.00818	939.0928	243.5633	-0.00241	5536.	2850053.	-301.0943	7363.	0.00
2.2000	0.00770	981.7835	181.5729	-0.00234	5787.	2850053.	-318.8091	8278.	0.00
2.4000	0.00724	1012.	116.2013	-0.00227	5964.	2850053.	-334.9071	9250.	0.00
2.6000	0.00679	1028.	77.2757	-0.00220	6061.	2850053.	-54.3490	1600.	0.00
2.8000	0.00636	1043.	66.3505	-0.00213	6146.	2850053.	-54.9027	1726.	0.00
3.0000	0.00594	1055.	55.3236	-0.00206	6218.	2850053.	-55.3664	1864.	0.00
3.2000	0.00554	1065.	44.2131	-0.00198	6276.	2850053.	-55.7389	2013.	0.00
3.4000	0.00515	1072.	33.0373	-0.00191	6322.	2850053.	-56.0191	2176.	0.00
3.6000	0.00477	1078.	21.8148	-0.00183	6354.	2850053.	-56.2057	2354.	0.00
3.8000	0.00442	1081.	10.5645	-0.00176	6373.	2850053.	-56.2976	2550.	0.00
4.0000	0.00407	1082.	-0.6947	-0.00168	6379.	2850053.	-56.2935	2764.	0.00
4.2000	0.00374	1081.	-11.9432	-0.00160	6372.	2850053.	-56.1921	3001.	0.00
4.4000	0.00343	1077.	-23.1616	-0.00153	6351.	2850053.	-55.9919	3264.	0.00
4.6000	0.00313	1072.	-34.3300	-0.00145	6317.	2850053.	-55.6915	3555.	0.00
4.8000	0.00285	1064.	-45.4280	-0.00138	6270.	2850053.	-55.2891	3880.	0.00
5.0000	0.00258	1054.	-56.4352	-0.00130	6210.	2850053.	-54.7829	4243.	0.00
5.2000	0.00233	1041.	-67.3306	-0.00123	6137.	2850053.	-54.1708	4652.	0.00
5.4000	0.00209	1027.	-78.0927	-0.00116	6051.	2850053.	-53.4504	5114.	0.00
5.6000	0.00187	1010.	-88.6996	-0.00109	5953.	2850053.	-52.6188	5640.	0.00
5.8000	0.00166	991.0896	-99.1288	-0.00102	5842.	2850053.	-51.6726	6241.	0.00
6.0000	0.00146	970.2304	-109.3568	-9.47E-04	5719.	2850053.	-50.6079	6934.	0.00
6.2000	0.00128	947.3469	-119.3595	-8.80E-04	5584.	2850053.	-49.4194	7739.	0.00
6.4000	0.00111	922.4866	-129.1116	-8.14E-04	5438.	2850053.	-48.1008	8683.	0.00
6.6000	9.52E-04	895.7023	-138.5861	-7.50E-04	5280.	2850053.	-46.6440	9803.	0.00
6.8000	8.08E-04	867.0522	-147.7543	-6.88E-04	5111.	2850053.	-45.0382	11150.	0.00
7.0000	6.76E-04	836.6006	-156.5850	-6.29E-04	4931.	2850053.	-43.2688	12796.	0.00
7.2000	5.56E-04	804.4182	-165.0434	-5.71E-04	4742.	2850053.	-41.3155	14850.	0.00
7.4000	4.48E-04	770.5832	-173.0899	-5.16E-04	4542.	2850053.	-39.1491	17481.	0.00
7.6000	3.50E-04	735.1822	-180.6773	-4.63E-04	4334.	2850053.	-36.7254	20976.	0.00
7.8000	2.63E-04	698.3123	-187.7472	-4.13E-04	4116.	2850053.	-33.9729	25859.	0.00
8.0000	1.85E-04	660.0834	-194.2210	-3.65E-04	3891.	2850053.	-30.7654	33233.	0.00
8.2000	1.17E-04	620.6239	-199.9820	-3.20E-04	3658.	2850053.	-26.8447	45965.	0.00
8.4000	5.72E-05	580.0906	-204.8183	-2.78E-04	3419.	2850053.	-21.5186	75277.	0.00
8.6000	5.68E-06	538.6965	-207.9852	-2.39E-04	3175.	2850053.	-10.1496	357459.	0.00

8.8000	-3.83E-05	496.8965	-207.0558	-2.02E-04	2929.	2850053.	19.4433	101654.	0.00
9.0000	-7.52E-05	455.8742	-203.3370	-1.69E-04	2687.	2850053.	17.7451	47187.	0.00
9.2000	-1.06E-04	415.5617	-199.0115	-1.38E-04	2450.	2850053.	25.5099	48235.	0.00
9.4000	-1.31E-04	376.2696	-193.2447	-1.10E-04	2218.	2850053.	32.1580	49284.	0.00
9.6000	-1.50E-04	338.2639	-186.2552	-8.54E-05	1994.	2850053.	37.7364	50332.	0.00
9.8000	-1.65E-04	301.7675	-178.2517	-6.29E-05	1779.	2850053.	42.2990	51381.	0.00
10.0000	-1.75E-04	266.9632	-169.4312	-4.30E-05	1574.	2850053.	45.9055	52430.	0.00
10.2000	-1.82E-04	233.9950	-159.9787	-2.54E-05	1379.	2850053.	48.6199	53478.	0.00
10.4000	-1.85E-04	202.9717	-150.0658	-1.00E-05	1196.	2850053.	50.5094	54527.	0.00
10.6000	-1.86E-04	173.9687	-139.8505	3.18E-06	1025.	2850053.	51.6433	55575.	0.00
10.8000	-1.84E-04	147.0315	-129.4770	1.44E-05	866.6959	2850053.	52.0920	56624.	0.00
11.0000	-1.80E-04	122.1779	-119.0751	2.39E-05	720.1935	2850053.	51.9263	57673.	0.00
11.2000	-1.74E-04	99.4014	-108.7609	3.17E-05	585.9345	2850053.	51.2160	58721.	0.00
11.4000	-1.67E-04	78.6736	-98.6364	3.79E-05	463.7514	2850053.	50.0296	59770.	0.00
11.6000	-1.59E-04	59.9469	-88.7900	4.28E-05	353.3646	2850053.	48.4338	60818.	0.00
11.8000	-1.50E-04	43.1576	-79.2974	4.64E-05	254.3978	2850053.	46.4925	61867.	0.00
12.0000	-1.41E-04	28.2279	-70.2215	4.89E-05	166.3932	2850053.	44.2664	62916.	0.00
12.2000	-1.31E-04	15.0690	-61.6135	5.04E-05	88.8260	2850053.	41.8132	63964.	0.00
12.4000	-1.21E-04	3.5825	-53.5135	5.11E-05	21.1177	2850053.	39.1867	65013.	0.00
12.6000	-1.10E-04	-6.3364	-45.9512	5.10E-05	37.3510	2850053.	36.4366	66061.	0.00
12.8000	-1.00E-04	-14.7979	-38.9466	5.02E-05	87.2284	2850053.	33.6091	67110.	0.00
13.0000	-9.02E-05	-21.9151	-32.5111	4.89E-05	129.1813	2850053.	30.7459	68159.	0.00
13.2000	-8.06E-05	-27.8024	-26.6481	4.72E-05	163.8848	2850053.	27.8849	69207.	0.00
13.4000	-7.13E-05	-32.5743	-21.3536	4.51E-05	192.0135	2850053.	25.0599	70256.	0.00
13.6000	-6.26E-05	-36.3438	-16.6175	4.27E-05	214.2334	2850053.	22.3010	71304.	0.00
13.8000	-5.43E-05	-39.2213	-12.4240	4.00E-05	231.1950	2850053.	19.6344	72353.	0.00
14.0000	-4.65E-05	-41.3134	-8.7522	3.72E-05	243.5272	2850053.	17.0831	73402.	0.00
14.2000	-3.94E-05	-42.7222	-5.5772	3.42E-05	251.8314	2850053.	14.6666	74450.	0.00
14.4000	-3.29E-05	-43.5443	-2.8704	3.12E-05	256.6775	2850053.	12.4015	75499.	0.00
14.6000	-2.69E-05	-43.8704	-0.6001	2.81E-05	258.5995	2850053.	10.3016	76547.	0.00
14.8000	-2.16E-05	-43.7844	1.2679	2.51E-05	258.0925	2850053.	8.3784	77596.	0.00
15.0000	-1.69E-05	-43.3632	2.7698	2.20E-05	255.6100	2850053.	6.6410	78644.	0.00
15.2000	-1.28E-05	-42.6764	3.9436	1.90E-05	251.5616	2850053.	5.0968	79693.	0.00
15.4000	-9.29E-06	-41.7858	4.8284	1.60E-05	246.3115	2850053.	3.7514	80742.	0.00
15.6000	-6.38E-06	-40.7451	5.4645	1.31E-05	240.1769	2850053.	2.6091	81790.	0.00
15.8000	-4.04E-06	-39.6000	10.9469	1.03E-05	233.4271	2850053.	52.2153	2585102.	0.00
16.0000	-2.26E-06	-36.3663	20.4617	7.65E-06	214.3657	2850053.	42.9324	3807595.	0.00
16.2000	-9.81E-07	-31.4153	27.9946	5.27E-06	185.1815	2850053.	32.3969	6605711.	0.00
16.4000	-1.48E-07	-25.1684	32.8920	3.28E-06	148.3586	2850053.	16.5767	2.25E+07	0.00
16.6000	3.33E-07	-18.2585	32.2261	1.76E-06	107.6271	2850053.	-23.2357	1.40E+07	0.00
16.8000	5.56E-07	-12.2780	27.1680	6.88E-07	72.3742	2850053.	-27.3455	9830721.	0.00
17.0000	6.08E-07	-7.3913	21.6199	-1.84E-09	43.5690	2850053.	-28.1355	9257725.	0.00
17.2000	5.56E-07	-3.6300	16.0722	-3.89E-07	21.3978	2850053.	-27.3414	9842250.	0.00
17.4000	4.52E-07	-0.9624	10.7762	-5.50E-07	5.6732	2850053.	-25.6185	1.13E+07	0.00

17.6000	3.36E-07	0.6804	5.8806	-5.60E-07	4.0109	2850053.	-23.3377	1.39E+07	0.00
17.8000	2.29E-07	1.3898	1.4721	-4.87E-07	8.1923	2850053.	-20.7474	1.82E+07	0.00
18.0000	1.41E-07	1.2693	-0.6984	-3.94E-07	7.4818	2850053.	-0.9572	1358277.	0.00
18.2000	7.11E-08	1.1104	-0.8424	-3.10E-07	6.5456	2850053.	-0.4830	1358277.	0.00
18.4000	1.69E-08	0.9323	-0.9022	-2.38E-07	5.4955	2850053.	-0.1147	1358277.	0.00
18.6000	-2.43E-08	0.7496	-0.8972	-1.79E-07	4.4184	2850053.	0.1648	1358277.	0.00
18.8000	-5.49E-08	0.5734	-0.8434	-1.33E-07	3.3801	2850053.	0.3728	1358277.	0.00
19.0000	-7.75E-08	0.4122	-0.7535	-9.85E-08	2.4297	2850053.	0.5262	1358277.	0.00
19.2000	-9.43E-08	0.2720	-0.6369	-7.45E-08	1.6034	2850053.	0.6403	1358277.	0.00
19.4000	-1.07E-07	0.1574	-0.5000	-5.94E-08	0.9281	2850053.	0.7285	1358277.	0.00
19.6000	-1.18E-07	0.07201	-0.3470	-5.13E-08	0.4245	2850053.	0.8016	1358277.	0.00
19.8000	-1.28E-07	0.01865	-0.1800	-4.82E-08	0.1099	2850053.	0.8679	1358277.	0.00
20.0000	-1.37E-07	0.00	0.00	-4.75E-08	0.00	2850053.	0.9324	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 3:

Pile-head deflection = 0.01348697 meters
Computed slope at pile head = -0.00278314 radians
Maximum bending moment = 1082. kN-m
Maximum shear force = 600.00000000 kN
Depth of maximum bending moment = 4.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 30
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 4

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 800.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth	Deflect.	Bending	Shear	Slope	Total	Bending	Soil Res.	Soil Spr.	Distrib.
X	y	Moment	Force	S	Stress	Stiffness	p	Es*h	Lat. Load
meters	meters	kN-m	kN	radians	kPa*	kN-m^2	kN/m	kN/m	kN/m

0.00	0.05989	-6.43E-09	800.0000	-0.00899	3.79E-08	2850053.	0.00	0.00	0.00
0.2000	0.05809	160.0000	799.3356	-0.00898	943.1404	2850053.	-6.6440	22.8734	0.00
0.4000	0.05630	319.7342	797.4276	-0.00897	1885.	2850053.	-12.4356	44.1775	0.00
0.6000	0.05451	478.9711	794.2327	-0.00894	2823.	2850053.	-19.5141	71.6015	0.00
0.8000	0.05272	637.4273	787.7087	-0.00890	3757.	2850053.	-45.7259	173.4550	0.00
1.0000	0.05095	794.0545	775.6293	-0.00885	4681.	2850053.	-75.0679	294.6818	0.00
1.2000	0.04918	947.6790	757.4217	-0.00879	5586.	2850053.	-107.0077	435.1277	0.00
1.4000	0.04743	1097.	732.6134	-0.00871	6467.	2850053.	-141.0758	594.8323	0.00
1.6000	0.04570	1241.	700.8201	-0.00863	7314.	2850053.	-176.8573	774.0177	0.00
1.8000	0.04398	1377.	661.7358	-0.00854	8119.	2850053.	-213.9856	973.0896	0.00
2.0000	0.04228	1505.	615.1234	-0.00844	8874.	2850053.	-252.1381	1193.	0.00
2.2000	0.04060	1623.	560.8062	-0.00833	9569.	2850053.	-291.0336	1433.	0.00
2.4000	0.03895	1730.	498.6598	-0.00821	10196.	2850053.	-330.4307	1697.	0.00
2.6000	0.03732	1823.	456.0270	-0.00809	10745.	2850053.	-95.8972	513.9218	0.00
2.8000	0.03571	1912.	436.6787	-0.00796	11271.	2850053.	-97.5856	546.4685	0.00
3.0000	0.03414	1998.	417.0038	-0.00782	11775.	2850053.	-99.1638	580.9743	0.00
3.2000	0.03259	2079.	397.0244	-0.00768	12255.	2850053.	-100.6301	617.6056	0.00
3.4000	0.03107	2156.	376.7631	-0.00753	12711.	2850053.	-101.9828	656.5465	0.00
3.6000	0.02958	2230.	356.2428	-0.00737	13143.	2850053.	-103.2204	698.0011	0.00
3.8000	0.02812	2299.	335.4867	-0.00722	13551.	2850053.	-104.3410	742.1961	0.00
4.0000	0.02669	2364.	314.5182	-0.00705	13934.	2850053.	-105.3431	789.3842	0.00
4.2000	0.02530	2425.	293.3614	-0.00688	14292.	2850053.	-106.2249	839.8475	0.00
4.4000	0.02394	2481.	272.0405	-0.00671	14626.	2850053.	-106.9846	893.9022	0.00
4.6000	0.02261	2533.	250.5800	-0.00654	14934.	2850053.	-107.6206	951.9030	0.00
4.8000	0.02132	2581.	229.0048	-0.00636	15217.	2850053.	-108.1311	1014.	0.00
5.0000	0.02007	2625.	207.3403	-0.00617	15474.	2850053.	-108.5142	1081.	0.00
5.2000	0.01885	2664.	185.6121	-0.00599	15705.	2850053.	-108.7680	1154.	0.00
5.4000	0.01767	2699.	163.8462	-0.00580	15911.	2850053.	-108.8907	1232.	0.00
5.6000	0.01653	2730.	142.0691	-0.00561	16092.	2850053.	-108.8803	1317.	0.00
5.8000	0.01543	2756.	120.3076	-0.00542	16246.	2850053.	-108.7347	1409.	0.00
6.0000	0.01437	2778.	98.5889	-0.00522	16375.	2850053.	-108.4518	1510.	0.00
6.2000	0.01334	2796.	76.9408	-0.00503	16479.	2850053.	-108.0292	1619.	0.00
6.4000	0.01236	2809.	55.3914	-0.00483	16557.	2850053.	-107.4647	1739.	0.00
6.6000	0.01141	2818.	33.9694	-0.00463	16609.	2850053.	-106.7557	1871.	0.00
6.8000	0.01050	2822.	12.7039	-0.00443	16637.	2850053.	-105.8995	2017.	0.00
7.0000	0.00964	2823.	-8.3754	-0.00424	16639.	2850053.	-104.8931	2177.	0.00
7.2000	0.00881	2819.	-29.2381	-0.00404	16617.	2850053.	-103.7334	2355.	0.00
7.4000	0.00802	2811.	-49.8531	-0.00384	16571.	2850053.	-102.4170	2554.	0.00
7.6000	0.00727	2799.	-70.1888	-0.00364	16500.	2850053.	-100.9400	2776.	0.00
7.8000	0.00656	2783.	-90.2126	-0.00345	16405.	2850053.	-99.2982	3026.	0.00
8.0000	0.00589	2763.	-109.8912	-0.00325	16287.	2850053.	-97.4869	3309.	0.00
8.2000	0.00526	2739.	-129.1899	-0.00306	16146.	2850053.	-95.5007	3631.	0.00
8.4000	0.00467	2711.	-148.0733	-0.00287	15982.	2850053.	-93.3334	3999.	0.00

8.6000	0.00411	2680.	-166.5045	-0.00268	15797.	2850053.	-90.9780	4424.	0.00
8.8000	0.00360	2645.	-184.4449	-0.00249	15590.	2850053.	-88.4261	4918.	0.00
9.0000	0.00312	2606.	-224.0038	-0.00231	15362.	2850053.	-307.1630	19718.	0.00
9.2000	0.00267	2555.	-283.5620	-0.00213	15062.	2850053.	-288.4190	21589.	0.00
9.4000	0.00226	2493.	-339.1782	-0.00195	14693.	2850053.	-267.7431	23650.	0.00
9.6000	0.00189	2419.	-390.4831	-0.00178	14262.	2850053.	-245.3051	25938.	0.00
9.8000	0.00155	2336.	-437.3677	-0.00161	13773.	2850053.	-223.5413	28795.	0.00
10.0000	0.00125	2245.	-480.2224	-0.00145	13231.	2850053.	-205.0060	32889.	0.00
10.2000	9.72E-04	2144.	-519.1727	-0.00130	12640.	2850053.	-184.4970	37957.	0.00
10.4000	7.28E-04	2037.	-553.8021	-0.00115	12006.	2850053.	-161.7972	44466.	0.00
10.6000	5.12E-04	1923.	-583.6306	-0.00101	11334.	2850053.	-136.4877	53324.	0.00
10.8000	3.23E-04	1803.	-606.4267	-8.81E-04	10630.	2850053.	-91.4734	56624.	0.00
11.0000	1.60E-04	1680.	-620.1754	-7.59E-04	9905.	2850053.	-46.0135	57673.	0.00
11.2000	1.96E-05	1555.	-625.3531	-6.45E-04	9168.	2850053.	-5.7630	58721.	0.00
11.4000	-9.85E-05	1430.	-622.9862	-5.40E-04	8430.	2850053.	29.4315	59770.	0.00
11.6000	-1.97E-04	1306.	-614.0670	-4.44E-04	7699.	2850053.	59.7607	60818.	0.00
11.8000	-2.76E-04	1185.	-599.5462	-3.57E-04	6982.	2850053.	85.4475	61867.	0.00
12.0000	-3.39E-04	1066.	-580.3274	-2.78E-04	6286.	2850053.	106.7405	62916.	0.00
12.2000	-3.87E-04	952.3824	-557.2625	-2.07E-04	5614.	2850053.	123.9086	63964.	0.00
12.4000	-4.22E-04	843.4080	-531.1480	-1.44E-04	4972.	2850053.	137.2363	65013.	0.00
12.6000	-4.45E-04	739.9232	-502.7225	-8.86E-05	4362.	2850053.	147.0185	66061.	0.00
12.8000	-4.58E-04	642.3190	-472.6650	-4.01E-05	3786.	2850053.	153.5565	67110.	0.00
13.0000	-4.61E-04	550.8572	-441.5940	1.75E-06	3247.	2850053.	157.1536	68159.	0.00
13.2000	-4.57E-04	465.6814	-410.0674	3.74E-05	2745.	2850053.	158.1123	69207.	0.00
13.4000	-4.46E-04	386.8302	-378.5831	6.73E-05	2280.	2850053.	156.7310	70256.	0.00
13.6000	-4.30E-04	314.2482	-347.5799	9.19E-05	1852.	2850053.	153.3013	71304.	0.00
13.8000	-4.09E-04	247.7983	-317.4391	1.12E-04	1461.	2850053.	148.1064	72353.	0.00
14.0000	-3.85E-04	187.2726	-288.4865	1.27E-04	1104.	2850053.	141.4192	73402.	0.00
14.2000	-3.59E-04	132.4036	-260.9945	1.38E-04	780.4702	2850053.	133.5011	74450.	0.00
14.4000	-3.30E-04	82.8748	-235.1842	1.46E-04	488.5159	2850053.	124.6017	75499.	0.00
14.6000	-3.00E-04	38.3300	-211.2283	1.50E-04	225.9408	2850053.	114.9577	76547.	0.00
14.8000	-2.70E-04	-1.6165	-189.2532	1.51E-04	9.5289	2850053.	104.7933	77596.	0.00
15.0000	-2.40E-04	-37.3713	-169.3418	1.50E-04	220.2900	2850053.	94.3205	78644.	0.00
15.2000	-2.10E-04	-69.3533	-151.5358	1.46E-04	408.8117	2850053.	83.7397	79693.	0.00
15.4000	-1.81E-04	-97.9856	-135.8378	1.40E-04	577.5888	2850053.	73.2403	80742.	0.00
15.6000	-1.54E-04	-123.6884	-122.2135	1.32E-04	729.0970	2850053.	63.0020	81790.	0.00
15.8000	-1.28E-04	-146.8711	-99.3424	1.23E-04	865.7502	2850053.	165.7098	258051.	0.00
16.0000	-1.05E-04	-163.4253	-67.2830	1.12E-04	963.3315	2850053.	154.8834	295388.	0.00
16.2000	-8.36E-05	-173.7843	-37.4336	1.00E-04	1024.	2850053.	143.6113	343578.	0.00
16.4000	-6.48E-05	-178.3988	-9.8826	8.79E-05	1052.	2850053.	131.8986	407309.	0.00
16.6000	-4.84E-05	-177.7373	15.2798	7.54E-05	1048.	2850053.	119.7258	494344.	0.00
16.8000	-3.46E-05	-172.2868	37.9554	6.31E-05	1016.	2850053.	107.0300	618580.	0.00
17.0000	-2.32E-05	-162.5551	58.0245	5.14E-05	958.2020	2850053.	93.6612	807774.	0.00
17.2000	-1.41E-05	-149.0770	75.3172	4.04E-05	878.7535	2850053.	79.2655	1127835.	0.00

17.4000	-7.01E-06	-132.4283	89.5311	3.06E-05	780.6153	2850053.	62.8737	1792609.	0.00
17.6000	-1.83E-06	-113.2646	99.8375	2.19E-05	667.6524	2850053.	40.1901	4387723.	0.00
17.8000	1.76E-06	-92.4933	99.8903	1.47E-05	545.2133	2850053.	-39.6621	4503845.	0.00
18.0000	4.06E-06	-73.3084	90.6862	8.90E-06	432.1260	2850053.	-52.3793	2582606.	0.00
18.2000	5.32E-06	-56.2188	79.7138	4.36E-06	331.3889	2850053.	-57.3444	2154790.	0.00
18.4000	5.80E-06	-41.4229	68.0784	9.32E-07	244.1727	2850053.	-59.0095	2034924.	0.00
18.6000	5.70E-06	-28.9874	56.3120	-1.54E-06	170.8702	2850053.	-58.6541	2059672.	0.00
18.8000	5.18E-06	-18.8981	44.7621	-3.22E-06	111.3974	2850053.	-56.8448	2192893.	0.00
19.0000	4.41E-06	-11.0826	33.6923	-4.27E-06	65.3277	2850053.	-53.8531	2443317.	0.00
19.2000	3.48E-06	-5.4212	23.3316	-4.85E-06	31.9559	2850053.	-49.7547	2862435.	0.00
19.4000	2.47E-06	-1.7500	13.9172	-5.10E-06	10.3154	2850053.	-44.3886	3596395.	0.00
19.6000	1.44E-06	0.1457	5.7728	-5.16E-06	0.8589	2850053.	-37.0557	5160755.	0.00
19.8000	4.06E-07	0.5592	-0.3643	-5.13E-06	3.2960	2850053.	-24.3151	1.20E+07	0.00
20.0000	-6.17E-07	0.00	0.00	-5.11E-06	0.00	2850053.	27.9578	4531970.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 4:

Pile-head deflection = 0.05989124 meters
Computed slope at pile head = -0.00898762 radians
Maximum bending moment = 2823. kN-m
Maximum shear force = 800.00000000 kN
Depth of maximum bending moment = 7.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 127
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 5

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 1000.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X	Deflect. y	Bending Moment	Shear Force	Slope S	Total Stress	Bending Stiffness	Soil Res. p	Soil Spr. Es*h	Distrib. Lat. Load

meters	meters	kN-m	kN	radians	kPa*	kN-m^2	kN/m	kN/m	kN/m
0.00	0.1279	-1.58E-08	1000.0000	-0.01716	9.33E-08	2850053.	0.00	0.00	0.00
0.2000	0.1244	200.0000	999.3356	-0.01715	1179.	2850053.	-6.6440	10.6775	0.00
0.4000	0.1210	399.7342	997.4276	-0.01713	2356.	2850053.	-12.4356	20.5514	0.00
0.6000	0.1176	598.9711	994.3512	-0.01710	3531.	2850053.	-18.3292	31.1733	0.00
0.8000	0.1142	797.4747	990.0999	-0.01705	4701.	2850053.	-24.1833	42.3599	0.00
1.0000	0.1108	995.0110	984.6899	-0.01699	5865.	2850053.	-29.9173	54.0140	0.00
1.2000	0.1074	1191.	978.1492	-0.01691	7023.	2850053.	-35.4896	66.0971	0.00
1.4000	0.1040	1386.	970.5118	-0.01682	8172.	2850053.	-40.8838	78.6131	0.00
1.6000	0.1007	1580.	961.8134	-0.01671	9311.	2850053.	-46.1001	91.5968	0.00
1.8000	0.09733	1771.	952.0886	-0.01660	10439.	2850053.	-51.1484	105.1062	0.00
2.0000	0.09402	1960.	941.3693	-0.01647	11556.	2850053.	-56.0442	119.2174	0.00
2.2000	0.09074	2148.	929.6843	-0.01632	12659.	2850053.	-60.8058	134.0208	0.00
2.4000	0.08749	2332.	917.0586	-0.01616	13748.	2850053.	-65.4516	149.6181	0.00
2.6000	0.08428	2514.	897.9321	-0.01599	14821.	2850053.	-125.8129	298.5768	0.00
2.8000	0.08109	2691.	872.5247	-0.01581	15865.	2850053.	-128.2618	316.3292	0.00
3.0000	0.07795	2863.	846.6403	-0.01562	16879.	2850053.	-130.5820	335.0384	0.00
3.2000	0.07485	3030.	820.3050	-0.01541	17861.	2850053.	-132.7711	354.7790	0.00
3.4000	0.07179	3191.	793.5452	-0.01519	18813.	2850053.	-134.8270	375.6333	0.00
3.6000	0.06877	3348.	766.3877	-0.01496	19732.	2850053.	-136.7474	397.6918	0.00
3.8000	0.06580	3498.	738.8600	-0.01472	20620.	2850053.	-138.5302	421.0542	0.00
4.0000	0.06288	3643.	710.9896	-0.01447	21474.	2850053.	-140.1730	445.8305	0.00
4.2000	0.06001	3782.	682.8050	-0.01421	22296.	2850053.	-141.6736	472.1426	0.00
4.4000	0.05720	3916.	654.3347	-0.01394	23084.	2850053.	-143.0295	500.1259	0.00
4.6000	0.05444	4044.	625.6079	-0.01366	23839.	2850053.	-144.2385	529.9308	0.00
4.8000	0.05173	4166.	596.6542	-0.01337	24559.	2850053.	-145.2981	561.7252	0.00
5.0000	0.04909	4283.	567.5038	-0.01308	25246.	2850053.	-146.2059	595.6966	0.00
5.2000	0.04650	4393.	538.1873	-0.01277	25898.	2850053.	-146.9594	632.0554	0.00
5.4000	0.04398	4498.	508.7358	-0.01246	26515.	2850053.	-147.5559	671.0383	0.00
5.6000	0.04152	4597.	479.1809	-0.01214	27097.	2850053.	-147.9928	712.9121	0.00
5.8000	0.03912	4690.	449.5549	-0.01182	27645.	2850053.	-148.2675	757.9787	0.00
6.0000	0.03679	4777.	419.8904	-0.01148	28157.	2850053.	-148.3771	806.5812	0.00
6.2000	0.03453	4858.	390.2208	-0.01115	28635.	2850053.	-148.3188	859.1103	0.00
6.4000	0.03233	4933.	360.5800	-0.01080	29077.	2850053.	-148.0894	916.0130	0.00
6.6000	0.03021	5002.	331.0024	-0.01045	29485.	2850053.	-147.6860	977.8026	0.00
6.8000	0.02815	5065.	301.5233	-0.01010	29858.	2850053.	-147.1051	1045.	0.00
7.0000	0.02617	5123.	272.1785	-0.00974	30196.	2850053.	-146.3436	1119.	0.00
7.2000	0.02426	5174.	243.0043	-0.00938	30499.	2850053.	-145.3977	1199.	0.00
7.4000	0.02242	5220.	214.0382	-0.00902	30769.	2850053.	-144.2638	1287.	0.00
7.6000	0.02065	5260.	185.3180	-0.00865	31004.	2850053.	-142.9379	1384.	0.00
7.8000	0.01896	5294.	156.8826	-0.00828	31206.	2850053.	-141.4160	1492.	0.00
8.0000	0.01734	5322.	128.7716	-0.00791	31374.	2850053.	-139.6938	1612.	0.00
8.2000	0.01579	5345.	101.0256	-0.00753	31509.	2850053.	-137.7665	1745.	0.00

8.4000	0.01432	5363.	73.6860	-0.00716	31612.	2850053.	-135.6296	1894.	0.00
8.6000	0.01293	5375.	46.7953	-0.00678	31683.	2850053.	-133.2778	2061.	0.00
8.8000	0.01161	5382.	20.3969	-0.00640	31723.	2850053.	-130.7059	2251.	0.00
9.0000	0.01037	5383.	-54.1414	-0.00602	31731.	2850053.	-614.6772	11855.	0.00
9.2000	0.00920	5360.	-175.0771	-0.00565	31595.	2850053.	-594.6798	12924.	0.00
9.4000	0.00811	5313.	-291.6409	-0.00527	31318.	2850053.	-570.9580	14078.	0.00
9.6000	0.00709	5243.	-403.1017	-0.00490	30907.	2850053.	-543.6502	15327.	0.00
9.8000	0.00615	5152.	-509.0878	-0.00454	30368.	2850053.	-516.2102	16787.	0.00
10.0000	0.00528	5040.	-610.0095	-0.00418	29707.	2850053.	-493.0074	18679.	0.00
10.2000	0.00448	4908.	-706.0099	-0.00383	28930.	2850053.	-466.9968	20857.	0.00
10.4000	0.00375	4757.	-796.5266	-0.00349	28042.	2850053.	-438.1700	23392.	0.00
10.6000	0.00308	4589.	-880.9928	-0.00316	27051.	2850053.	-406.4915	26384.	0.00
10.8000	0.00248	4405.	-958.8296	-0.00285	25965.	2850053.	-371.8766	29981.	0.00
11.0000	0.00194	4206.	-1029.	-0.00255	24791.	2850053.	-334.1521	34413.	0.00
11.2000	0.00146	3993.	-1092.	-0.00226	23538.	2850053.	-292.9829	40073.	0.00
11.4000	0.00104	3769.	-1146.	-0.00199	22216.	2850053.	-247.7152	47704.	0.00
11.6000	6.68E-04	3535.	-1191.	-0.00173	20835.	2850053.	-196.9855	59001.	0.00
11.8000	3.47E-04	3293.	-1221.	-0.00149	19408.	2850053.	-107.1950	61867.	0.00
12.0000	7.15E-05	3046.	-1234.	-0.00127	17956.	2850053.	-22.5053	62916.	0.00
12.2000	-1.61E-04	2799.	-1231.	-0.00106	16498.	2850053.	51.3950	63964.	0.00
12.4000	-3.54E-04	2554.	-1215.	-8.75E-04	15053.	2850053.	114.9614	65013.	0.00
12.6000	-5.11E-04	2313.	-1186.	-7.04E-04	13635.	2850053.	168.7129	66061.	0.00
12.8000	-6.35E-04	2079.	-1148.	-5.50E-04	12256.	2850053.	213.2188	67110.	0.00
13.0000	-7.31E-04	1854.	-1102.	-4.12E-04	10928.	2850053.	249.0870	68159.	0.00
13.2000	-8.00E-04	1638.	-1049.	-2.90E-04	9658.	2850053.	276.9530	69207.	0.00
13.4000	-8.47E-04	1434.	-991.7119	-1.82E-04	8454.	2850053.	297.4693	70256.	0.00
13.6000	-8.73E-04	1242.	-930.8353	-8.81E-05	7320.	2850053.	311.2964	71304.	0.00
13.8000	-8.82E-04	1062.	-867.7962	-7.25E-06	6259.	2850053.	319.0946	72353.	0.00
14.0000	-8.76E-04	894.6928	-803.7351	6.14E-05	5274.	2850053.	321.5165	73402.	0.00
14.2000	-8.57E-04	740.3761	-739.6633	1.19E-04	4364.	2850053.	319.2011	74450.	0.00
14.4000	-8.29E-04	598.8274	-676.4664	1.66E-04	3530.	2850053.	312.7687	75499.	0.00
14.6000	-7.91E-04	469.7895	-614.9079	2.03E-04	2769.	2850053.	302.8159	76547.	0.00
14.8000	-7.47E-04	352.8643	-555.6350	2.32E-04	2080.	2850053.	289.9134	77596.	0.00
15.0000	-6.98E-04	247.5355	-499.1834	2.53E-04	1459.	2850053.	274.6027	78644.	0.00
15.2000	-6.46E-04	153.1909	-445.9836	2.67E-04	903.0034	2850053.	257.3948	79693.	0.00
15.4000	-5.91E-04	69.1421	-396.3671	2.75E-04	407.5669	2850053.	238.7698	80742.	0.00
15.6000	-5.36E-04	-5.3559	-350.5725	2.77E-04	31.5713	2850053.	219.1763	81790.	0.00
15.8000	-4.81E-04	-71.0869	-302.9289	2.75E-04	419.0309	2850053.	257.2603	107074.	0.00
16.0000	-4.26E-04	-126.5275	-252.4870	2.68E-04	745.8324	2850053.	247.1581	116008.	0.00
16.2000	-3.73E-04	-172.0817	-204.1182	2.57E-04	1014.	2850053.	236.5302	126669.	0.00
16.4000	-3.23E-04	-208.1748	-157.9239	2.44E-04	1227.	2850053.	225.4130	139475.	0.00
16.6000	-2.76E-04	-235.2513	-113.9993	2.28E-04	1387.	2850053.	213.8328	154995.	0.00
16.8000	-2.32E-04	-253.7745	-72.4357	2.11E-04	1496.	2850053.	201.8028	174032.	0.00
17.0000	-1.91E-04	-264.2256	-33.3237	1.93E-04	1558.	2850053.	189.3176	197753.	0.00

17.2000	-1.55E-04	-267.1040	3.2424	1.74E-04	1574.	2850053.	176.3440	227935.	0.00
17.4000	-1.22E-04	-262.9286	37.1571	1.56E-04	1550.	2850053.	162.8029	267453.	0.00
17.6000	-9.24E-05	-252.2411	68.2909	1.38E-04	1487.	2850053.	148.5343	321346.	0.00
17.8000	-6.67E-05	-235.6123	96.4664	1.21E-04	1389.	2850053.	133.2216	399542.	0.00
18.0000	-4.42E-05	-213.6546	121.4085	1.05E-04	1259.	2850053.	116.1992	525361.	0.00
18.2000	-2.48E-05	-187.0489	142.6103	9.07E-05	1103.	2850053.	95.8180	773244.	0.00
18.4000	-7.96E-06	-156.6105	158.7611	7.86E-05	923.1603	2850053.	65.6910	1651370.	0.00
18.6000	6.67E-06	-123.5444	159.1600	6.88E-05	728.2482	2850053.	-61.7026	1849185.	0.00
18.8000	1.96E-05	-92.9465	144.1452	6.12E-05	547.8847	2850053.	-88.4450	903930.	0.00
19.0000	3.12E-05	-65.8863	124.9698	5.56E-05	388.3752	2850053.	-103.3094	663090.	0.00
19.2000	4.18E-05	-42.9585	103.2413	5.18E-05	253.2246	2850053.	-113.9754	544994.	0.00
19.4000	5.19E-05	-24.5898	79.5961	4.95E-05	144.9476	2850053.	-122.4766	472065.	0.00
19.6000	6.16E-05	-11.1201	54.3789	4.82E-05	65.5488	2850053.	-129.6958	421036.	0.00
19.8000	7.12E-05	-2.8382	27.8002	4.77E-05	16.7303	2850053.	-136.0906	382437.	0.00
20.0000	8.07E-05	0.00	0.00	4.76E-05	0.00	2850053.	-141.9117	175867.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 5:

Pile-head deflection = 0.12788043 meters
Computed slope at pile head = -0.01716033 radians
Maximum bending moment = 5383. kN-m
Maximum shear force = -1234. kN
Depth of maximum bending moment = 9.00000000 meters below pile head
Depth of maximum shear force = 12.00000000 meters below pile head
Number of iterations = 26
Number of zero deflection points = 2

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 6

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 3800.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth	Deflect.	Bending	Shear	Slope	Total	Bending	Soil Res.	Soil Spr.	Distrib.

X	y	Moment	Force	S	Stress	Stiffness	p	Es*h	Lat. Load
meters	meters	kN-m	kN	radians	kPa*	kN-m^2	kN/m	kN/m	kN/m
0.00	0.8640	7.91E-08	3800.	-0.09899	4.66E-07	2850053.	0.00	0.00	0.00
0.2000	0.8442	760.0000	3799.	-0.09896	4480.	2850053.	-6.6440	1.5740	0.00
0.4000	0.8244	1520.	3797.	-0.09888	8958.	2850053.	-12.4356	3.0167	0.00
0.6000	0.8047	2279.	3794.	-0.09875	13434.	2850053.	-18.3291	4.5557	0.00
0.8000	0.7849	3037.	3790.	-0.09856	17905.	2850053.	-24.1833	6.1618	0.00
1.0000	0.7652	3795.	3785.	-0.09832	22370.	2850053.	-29.9173	7.8190	0.00
1.2000	0.7456	4551.	3778.	-0.09803	26829.	2850053.	-35.4895	9.5196	0.00
1.4000	0.7260	5306.	3771.	-0.09768	31278.	2850053.	-40.8837	11.2622	0.00
1.6000	0.7065	6060.	3762.	-0.09728	35719.	2850053.	-46.1000	13.0496	0.00
1.8000	0.6871	6811.	3752.	-0.09683	40148.	2850053.	-51.1483	14.8877	0.00
2.0000	0.6678	7560.	3741.	-0.09633	44566.	2850053.	-56.0441	16.7846	0.00
2.2000	0.6486	8308.	3730.	-0.09577	48970.	2850053.	-60.8057	18.7501	0.00
2.4000	0.6295	9052.	3717.	-0.09516	53360.	2850053.	-65.4515	20.7949	0.00
2.6000	0.6105	9794.	3690.	-0.09450	57734.	2850053.	-204.1389	66.8731	0.00
2.8000	0.5917	10528.	3649.	-0.09379	62060.	2850053.	-210.7989	71.2526	0.00
3.0000	0.5730	11254.	3606.	-0.09302	66337.	2850053.	-217.4589	75.9004	0.00
3.2000	0.5545	11971.	3562.	-0.09221	70562.	2850053.	-224.1189	80.8385	0.00
3.4000	0.5361	12678.	3516.	-0.09134	74735.	2850053.	-230.7789	86.0910	0.00
3.6000	0.5179	13377.	3469.	-0.09043	78853.	2850053.	-237.4389	91.6844	0.00
3.8000	0.5000	14066.	3421.	-0.08947	82915.	2850053.	-244.0989	97.6481	0.00
4.0000	0.4822	14746.	3372.	-0.08846	86919.	2850053.	-250.7589	104.0144	0.00
4.2000	0.4646	15415.	3321.	-0.08740	90865.	2850053.	-257.4190	110.8192	0.00
4.4000	0.4472	16074.	3269.	-0.08629	94749.	2850053.	-264.0790	118.1024	0.00
4.6000	0.4301	16722.	3215.	-0.08514	98572.	2850053.	-270.7390	125.9082	0.00
4.8000	0.4131	17360.	3160.	-0.08395	102331.	2850053.	-277.3990	134.2859	0.00
5.0000	0.3965	17986.	3104.	-0.08271	106024.	2850053.	-284.0590	143.2906	0.00
5.2000	0.3801	18602.	3047.	-0.08142	109650.	2850053.	-290.7190	152.9839	0.00
5.4000	0.3639	19205.	2988.	-0.08009	113208.	2850053.	-297.3790	163.4350	0.00
5.6000	0.3480	19797.	2928.	-0.07873	116695.	2850053.	-300.6302	172.7627	0.00
5.8000	0.3324	20376.	2868.	-0.07732	120112.	2850053.	-302.5530	182.0303	0.00
6.0000	0.3171	20944.	2807.	-0.07587	123457.	2850053.	-304.2160	191.8738	0.00
6.2000	0.3021	21499.	2746.	-0.07438	126731.	2850053.	-305.6144	202.3443	0.00
6.4000	0.2873	22042.	2685.	-0.07285	129932.	2850053.	-306.7437	213.4991	0.00
6.6000	0.2729	22573.	2624.	-0.07128	133061.	2850053.	-307.5988	225.4019	0.00
6.8000	0.2588	23092.	2562.	-0.06968	136118.	2850053.	-308.1750	238.1245	0.00
7.0000	0.2451	23598.	2500.	-0.06804	139102.	2850053.	-308.4670	251.7474	0.00
7.2000	0.2316	24092.	2439.	-0.06637	142013.	2850053.	-308.4696	266.3612	0.00
7.4000	0.2185	24574.	2377.	-0.06466	144852.	2850053.	-308.1774	282.0686	0.00
7.6000	0.2058	25043.	2315.	-0.06292	147618.	2850053.	-307.5849	298.9859	0.00
7.8000	0.1933	25500.	2254.	-0.06115	150311.	2850053.	-306.6865	317.2453	0.00
8.0000	0.1813	25944.	2193.	-0.05934	152932.	2850053.	-305.4762	336.9981	0.00

8.2000	0.1696	26377.	2132.	-0.05751	155481.	2850053.	-303.9481	358.4171	0.00
8.4000	0.1583	26797.	2071.	-0.05564	157959.	2850053.	-302.0962	381.7015	0.00
8.6000	0.1473	27205.	2011.	-0.05375	160365.	2850053.	-299.9143	407.0808	0.00
8.8000	0.1368	27601.	1951.	-0.05182	162700.	2850053.	-297.3962	434.8210	0.00
9.0000	0.1266	27986.	1767.	-0.04987	164965.	2850053.	-1545.	2441.	0.00
9.2000	0.1168	28308.	1450.	-0.04790	166866.	2850053.	-1621.	2776.	0.00
9.4000	0.1075	28566.	1118.	-0.04590	168385.	2850053.	-1699.	3162.	0.00
9.6000	0.09848	28755.	770.4788	-0.04389	169503.	2850053.	-1778.	3611.	0.00
9.8000	0.08990	28874.	406.5678	-0.04187	170202.	2850053.	-1861.	4140.	0.00
10.0000	0.08173	28918.	25.4529	-0.03984	170462.	2850053.	-1950.	4772.	0.00
10.2000	0.07397	28884.	-373.7393	-0.03781	170262.	2850053.	-2042.	5521.	0.00
10.4000	0.06661	28769.	-791.4198	-0.03579	169580.	2850053.	-2135.	6411.	0.00
10.6000	0.05965	28568.	-1228.	-0.03378	168396.	2850053.	-2231.	7479.	0.00
10.8000	0.05309	28277.	-1684.	-0.03179	166685.	2850053.	-2328.	8770.	0.00
11.0000	0.04693	27894.	-2160.	-0.02981	164425.	2850053.	-2428.	10346.	0.00
11.2000	0.04117	27414.	-2639.	-0.02787	161593.	2850053.	-2362.	11476.	0.00
11.4000	0.03579	26839.	-3096.	-0.02597	158204.	2850053.	-2214.	12375.	0.00
11.6000	0.03078	26175.	-3524.	-0.02411	154293.	2850053.	-2066.	13427.	0.00
11.8000	0.02614	25429.	-3923.	-0.02230	149895.	2850053.	-1920.	14686.	0.00
12.0000	0.02186	24606.	-4292.	-0.02054	145044.	2850053.	-1775.	16240.	0.00
12.2000	0.01792	23712.	-4633.	-0.01885	139774.	2850053.	-1631.	18202.	0.00
12.4000	0.01432	22753.	-4944.	-0.01722	134120.	2850053.	-1476.	20615.	0.00
12.6000	0.01104	21735.	-5222.	-0.01566	128118.	2850053.	-1306.	23664.	0.00
12.8000	0.00806	20664.	-5464.	-0.01417	121808.	2850053.	-1117.	27728.	0.00
13.0000	0.00537	19549.	-5666.	-0.01276	115235.	2850053.	-903.3767	33656.	0.00
13.2000	0.00295	18398.	-5821.	-0.01143	108448.	2850053.	-649.9349	44008.	0.00
13.4000	7.97E-04	17221.	-5914.	-0.01018	101508.	2850053.	-280.1069	70256.	0.00
13.6000	-0.00112	16032.	-5904.	-0.00901	94503.	2850053.	384.5322	68835.	0.00
13.8000	-0.00281	14859.	-5796.	-0.00793	87588.	2850053.	695.3620	49546.	0.00
14.0000	-0.00429	13714.	-5634.	-0.00692	80837.	2850053.	928.7693	43319.	0.00
14.2000	-0.00558	12605.	-5428.	-0.00600	74305.	2850053.	1124.	40322.	0.00
14.4000	-0.00669	11542.	-5186.	-0.00515	68038.	2850053.	1295.	38723.	0.00
14.6000	-0.00764	10531.	-4912.	-0.00438	62076.	2850053.	1447.	37891.	0.00
14.8000	-0.00844	9577.	-4609.	-0.00367	56456.	2850053.	1584.	37542.	0.00
15.0000	-0.00911	8687.	-4280.	-0.00303	51209.	2850053.	1709.	37527.	0.00
15.2000	-0.00965	7866.	-3927.	-0.00245	46365.	2850053.	1823.	37760.	0.00
15.4000	-0.01009	7117.	-3552.	-0.00193	41951.	2850053.	1926.	38189.	0.00
15.6000	-0.01042	6445.	-3157.	-0.00145	37990.	2850053.	2021.	38781.	0.00
15.8000	-0.01067	5854.	-2882.	-0.00102	34507.	2850053.	723.0297	13554.	0.00
16.0000	-0.01083	5292.	-2738.	-6.28E-04	31194.	2850053.	726.6867	13418.	0.00
16.2000	-0.01092	4759.	-2592.	-2.75E-04	28052.	2850053.	728.6590	13346.	0.00
16.4000	-0.01094	4255.	-2446.	4.11E-05	25082.	2850053.	729.1400	13328.	0.00
16.6000	-0.01090	3780.	-2300.	3.23E-04	22285.	2850053.	728.2931	13359.	0.00
16.8000	-0.01081	3335.	-2155.	5.73E-04	19658.	2850053.	726.2581	13434.	0.00

17.0000	-0.01067	2918.	-2010.	7.92E-04	17203.	2850053.	723.1563	13550.	0.00
17.2000	-0.01050	2531.	-1866.	9.83E-04	14919.	2850053.	719.0933	13703.	0.00
17.4000	-0.01028	2172.	-1723.	0.00115	12804.	2850053.	714.1623	13893.	0.00
17.6000	-0.01004	1842.	-1580.	0.00129	10858.	2850053.	708.4457	14118.	0.00
17.8000	-0.00977	1540.	-1439.	0.00141	9078.	2850053.	702.0163	14378.	0.00
18.0000	-0.00947	1266.	-1300.	0.00151	7464.	2850053.	694.9388	14673.	0.00
18.2000	-0.00916	1020.	-1161.	0.00159	6014.	2850053.	687.2701	15002.	0.00
18.4000	-0.00884	801.7376	-1025.	0.00165	4726.	2850053.	679.0598	15367.	0.00
18.6000	-0.00850	610.3881	-889.7125	0.00170	3598.	2850053.	670.3504	15769.	0.00
18.8000	-0.00816	445.8526	-756.5598	0.00174	2628.	2850053.	661.1773	16209.	0.00
19.0000	-0.00781	307.7642	-625.2852	0.00176	1814.	2850053.	651.5683	16691.	0.00
19.2000	-0.00745	195.7385	-495.9741	0.00178	1154.	2850053.	641.5432	17217.	0.00
19.4000	-0.00709	109.3746	-368.7084	0.00179	644.7225	2850053.	631.1133	17790.	0.00
19.6000	-0.00674	48.2552	-243.5691	0.00180	284.4463	2850053.	620.2796	18417.	0.00
19.8000	-0.00638	11.9469	-120.6379	0.00180	70.4228	2850053.	609.0320	19104.	0.00
20.0000	-0.00602	0.00	0.00	0.00180	0.00	2850053.	597.3474	9929.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 6:

Pile-head deflection = 0.86401950 meters
Computed slope at pile head = -0.09898685 radians
Maximum bending moment = 28918. kN-m
Maximum shear force = -5914. kN
Depth of maximum bending moment = 10.00000000 meters below pile head
Depth of maximum shear force = 13.40000000 meters below pile head
Number of iterations = 37
Number of zero deflection points = 1

Summary of Pile-head Responses for Conventional Analyses

Definitions of Pile-head Loading Conditions:

Load Type 1: Load 1 = Shear, V, kN, and Load 2 = Moment, M, kN-m
Load Type 2: Load 1 = Shear, V, kN, and Load 2 = Slope, S, radians
Load Type 3: Load 1 = Shear, V, kN, and Load 2 = Rot. Stiffness, R, kN-m/rad.
Load Type 4: Load 1 = Top Deflection, y, m, and Load 2 = Moment, M, kN-m
Load Type 5: Load 1 = Top Deflection, y, m, and Load 2 = Slope, S, radians

Load Case No.	Load Type 1	Pile-head Load 1	Load Type 2	Pile-head Load 2	Axial Pile-head Loading kN	Pile-head Deflection meters	Pile-head Rotation radians	Max Shear in Pile kN	Max Moment in Pile kN-m
1	V, kN	100.0000	M, kN-m	0.00	0.00	5.92E-04	-2.01E-04	100.0000	137.5988
2	V, kN	400.0000	M, kN-m	0.00	0.00	0.00550	-0.00134	400.0000	617.5823
3	V, kN	600.0000	M, kN-m	0.00	0.00	0.01349	-0.00278	600.0000	1082.
4	V, kN	800.0000	M, kN-m	0.00	0.00	0.05989	-0.00899	800.0000	2823.
5	V, kN	1000.0000	M, kN-m	0.00	0.00	0.1279	-0.01716	-1234.	5383.
6	V, kN	3800.	M, kN-m	0.00	0.00	0.8640	-0.09899	-5914.	28918.

Maximum pile-head deflection = 0.8640195031 meters
Maximum pile-head rotation = -0.0989868467 radians = -5.671529 deg.

Summary of Warning Messages

The following warning was reported 777 times

**** Warning ****

An unreasonable input value for shear strength has been specified for a soil defined using the soft clay criteria. The input value is greater than 59.85 kPa. Please check your input data for correctness.

The analysis ended normally.

Opera IV01 (Sp. S) – D1500

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LPile for Windows, Version 2016-09.009

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method
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Files Used for Analysis

Path to file locations:
\m9159\Work\07_Pali\IV01\LPILE\

Name of input data file:
IV01_SpA_D1500.lp9d

Name of output report file:
IV01_SpA_D1500.lp9o

Name of plot output file:
IV01_SpA_D1500.lp9p

Name of runtime message file:
IV01_SpA_D1500.lp9r

Date and Time of Analysis

Date: June 10, 2019 Time: 15:29:16

Problem Title

Project Name: VI02 - Spalle e pila
Job Number:
Client:
Engineer:
Description:

Program Options and Settings

Computational Options:
- Use unfactored loads in computations (conventional analysis)

Engineering Units Used for Data Input and Computations:
- International System Units (kilonewtons, meters, millimeters)

Analysis Control Options:
- Maximum number of iterations allowed = 500
- Deflection tolerance for convergence = 2.5400E-07 m
- Maximum allowable deflection = 2.5400 m
- Number of pile increments = 100

Loading Type and Number of Cycles of Loading:
- Static loading specified

- Use of p-y modification factors for p-y curves not selected
- No distributed lateral loads are entered
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected

- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:
- Output files use decimal points to denote decimal symbols.
- Values of pile-head deflection, bending moment, shear force, and soil reaction are printed for full length of pile.
- Printing Increment (nodal spacing of output points) = 1
- p-y curves computed and reported at user-specified depths
- Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined = 1
Total length of pile = 20.000 m
Depth of ground surface below top of pile = 0.0000 m

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point	Depth Below Pile Head meters	Pile Diameter millimeters
1	0.000	1500.00
2	20.000	1500.00

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is an elastic pile
Cross-sectional Shape = Circular Pile
Length of section = 20.000000 m

Width of top of section = 1.500000 m
Width of bottom of section = 1.500000 m
Top Area = 1.767146 sq. m
Bottom Area = 1.767146 sq. m
Moment of Inertia at Top = 0.248505 m^4
Moment of Inertia at Bottom = 0.248505 m^4
Elastic Modulus = 28000000. kPa

Ground Slope and Pile Batter Angles

Ground Slope Angle = 0.000 degrees
= 0.000 radians

Pile Batter Angle = 0.000 degrees
= 0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 4 layers

Layer 1 is stiff clay with water-induced erosion

Distance from top of pile to top of layer = 0.0000 m
Distance from top of pile to bottom of layer = 2.500000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 80.000000 kPa
Undrained cohesion at bottom of layer = 80.000000 kPa
Epsilon-50 at top of layer = 0.007000
Epsilon-50 at bottom of layer = 0.007000
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 2 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 2.500000 m
Distance from top of pile to bottom of layer = 8.900000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 45.000000 kPa
Undrained cohesion at bottom of layer = 45.000000 kPa
Epsilon-50 at top of layer = 0.015000
Epsilon-50 at bottom of layer = 0.015000

Layer 3 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer = 8.900000 m
Distance from top of pile to bottom of layer = 15.800000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Friction angle at top of layer = 36.000000 deg.
Friction angle at bottom of layer = 36.000000 deg.
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 4 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 15.800000 m
Distance from top of pile to bottom of layer = 20.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 150.000000 kPa
Undrained cohesion at bottom of layer = 150.000000 kPa
Epsilon-50 at top of layer = 0.005000
Epsilon-50 at bottom of layer = 0.005000

(Depth of the lowest soil layer extends 0.000 m below the pile tip)

Summary of Input Soil Properties

Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth m	Effective Unit Wt. kN/m3	Undrained Cohesion kPa	Angle of Friction deg.	E50 or krm	kpy kN/m3
1	Stiff Clay	0.00	9.0000	80.0000	--	0.00700	default
	with Free Water	2.5000	9.0000	80.0000	--	0.00700	default
2	Soft	2.5000	9.0000	45.0000	--	0.01500	--
	Clay	8.9000	9.0000	45.0000	--	0.01500	--
3	Sand	8.9000	9.0000	--	36.0000	--	default
	(Reese, et al.)	15.8000	9.0000	--	36.0000	--	default
4	Soft	15.8000	9.0000	150.0000	--	0.00500	--
	Clay	20.0000	9.0000	150.0000	--	0.00500	--

Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 8

Load No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, kN	Compute Top y vs. Pile Length
1	1	V = 100.000000 kN	M = 0.0000 m-kN	0.0000000	No
2	1	V = 400.000000 kN	M = 0.0000 m-kN	0.0000000	No
3	1	V = 600.000000 kN	M = 0.0000 m-kN	0.0000000	No
4	1	V = 800.000000 kN	M = 0.0000 m-kN	0.0000000	No
5	1	V = 1000.000000 kN	M = 0.0000 m-kN	0.0000000	No
6	1	V = 1200. kN	M = 0.0000 m-kN	0.0000000	No
7	1	V = 1400. kN	M = 0.0000 m-kN	0.0000000	No
8	1	V = 5700. kN	M = 0.0000 m-kN	0.0000000	No

V = shear force applied normal to pile axis

M = bending moment applied to pile head

y = lateral deflection normal to pile axis

S = pile slope relative to original pile batter angle

R = rotational stiffness applied to pile head
Values of top y vs. pile lengths can be computed only for load types with
specified shear loading (Load Types 1, 2, and 3).
Thrust force is assumed to be acting axially for all pile batter angles.

Specified Depths for Output of p-y Curves

Lateral load-transfer (p-y) curves are computed and output at 8 depths.
(Note that load-transfer values are computeded at the specified depths and
may differ from values computed at nodal points)

Depth No.	Depth Below Pile Head m	Depth Below Ground Surface m
1	0.200	0.200
2	4.100	4.100
3	4.500	4.500
4	9.000	9.000
5	11.800	11.800
6	12.200	12.200
7	16.000	16.000
8	19.800	19.800

Depth of ground surface below top of pile = 0.0000 m

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

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Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Moment-curvature properties were derived from elastic section properties

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Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head meters	Equivalent Top Depth Below Grnd Surf meters	Same Layer Type As Layer Above	Layer is Rock or is Below Rock Layer	F0 Integral for Layer kN	F1 Integral for Layer kN
1	0.00	0.00	N.A.	No	0.00	92.3023
2	2.5000	0.4387	No	No	92.3023	2314.
3	8.9000	5.0005	No	No	2407.	22888.
4	15.8000	15.8000	No	No	25294.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals for Layer n. Layering correction equivalent depths are computed only for soil types with both shallow-depth and deep-depth expressions for peak lateral load transfer. These soil types are soft and stiff clays, non-liquefied sands, and cemented c-phi soil.

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p-y Curves Reported for Specified Depths

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p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 0.200 m
Depth of p-y curve below ground surface = 0.200 m
Equivalent depth of p-y curve = 0.200 m
Pile diameter = 1500.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees

Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.011 m
As = 0.27257
Ac (not used) = 0.21914
pct = 287.980 kN/m
pcd = 1320.000 kN/m
pc = 287.980 kN/m
pu = 6.909 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00143	38.84380
0.00286	75.17456
0.00429	85.41022
0.00572	90.47399
0.00715	92.56848
0.00859	92.53470
0.01002	90.84782
0.01145	87.81363
0.01288	83.64474
0.01431	78.49708
0.01574	72.48962
0.01717	65.71592
0.02862	46.15590
0.04007	26.53227
0.05152	6.90863
0.05438	6.90863

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 2.500 m
Depth of p-y curve below pile head = 4.100 m

Depth of p-y curve below ground surface = 4.100 m
Equiv. depth of p-y curve below ground surface = 2.039 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1500.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 11.250 m
Static pu_s for flat ground = 303.721 kN/m
Static pu_d for flat ground = 607.500 kN/m
y_50 = 0.05625 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 303.721 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00013333	20.24806
0.00107	40.49612
0.00360	60.74417
0.00853	80.99223
0.01667	101.24029
0.02880	121.48835
0.04573	141.73641
0.06827	161.98446
0.09720	182.23252
0.13333	202.48058
0.17747	222.72864
0.23040	242.97670
0.29293	263.22475
0.36587	283.47281
0.45000	303.72087
0.47812	303.72087

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 2.500 m
Depth of p-y curve below pile head = 4.500 m
Depth of p-y curve below ground surface = 4.500 m
Equiv. depth of p-y curve below ground surface = 2.439 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1500.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 11.250 m
Static pu_s for flat ground = 318.121 kN/m
Static pu_d for flat ground = 607.500 kN/m
y_50 = 0.05625 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 318.121 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00013333	21.20806
0.00107	42.41612
0.00360	63.62417
0.00853	84.83223
0.01667	106.04029
0.02880	127.24835
0.04573	148.45641
0.06827	169.66446
0.09720	190.87252
0.13333	212.08058
0.17747	233.28864
0.23040	254.49670
0.29293	275.70475
0.36587	296.91281
0.45000	318.12087
0.47812	318.12087

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 8.900 m
Depth of p-y curve below pile head = 9.000 m
Depth of p-y curve below ground surface = 9.000 m
Equiv. depth of p-y curve below ground surface = 5.101 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 1500.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3
K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 1776.596 kN/m
Psd = 7435.880 kN/m
Ps = Pst (shallow controls) = 1776.596 kN/m
A (static) = 0.9959
B (static) = 0.6379
C = Pm/(Ym^(1/n)) = 5937.7505
n = Pm/(m Ym) = 2.2274
m = (Pu-Pm)/(Yu-Ym) = 20353.0893
Yk = [c/(kx)]^(n/(n-1)) = 0.0013 m
Pk = 295.606 kN/m
Ym = b/60 = 0.0250 m
Pm = B ps = 1133.353 kN/m
Yu = 3b/80 = 0.0563 m
Pu = A Ps = 1769.387 kN/m
Maximum Es value = 235933.478 kN/m/m
p-multiplier = 1.00000
y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters p, kN/m

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0.00000	0.00000
0.00125	295.60581
0.00341	463.48253
0.00557	577.59946
0.00773	669.09707
0.00989	747.33493
0.01205	816.61802
0.01421	879.34361
0.01636	937.00648
0.01852	990.61184
0.02068	1040.87342
0.02284	1088.31928
0.02500	1133.35285
0.04063	1451.36987
0.05625	1769.38689
0.06750	1769.38689
0.07875	1769.38689

The above p-y curve was computed using internal default values of k.

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 8.900 m
Depth of p-y curve below pile head = 11.800 m
Depth of p-y curve below ground surface = 11.800 m
Equiv. depth of p-y curve below ground surface = 7.901 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 1500.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3
K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 3293.880 kN/m
Psd = 9749.265 kN/m
Ps = Pst (shallow controls) = 3293.880 kN/m
A (static) = 0.8800

B (static) = 0.5000
C = Pm/(Ym^(1/n)) = 15514.2294
n = Pm/(m Ym) = 1.6447
m = (Pu-Pm)/(Yu-Ym) = 40053.5769
Yk = [c/(kx)]^(n/(n-1)) = 0.0005 m
Pk = 149.579 kN/m
Ym = b/60 = 0.0250 m
Pm = B ps = 1646.940 kN/m
Yu = 3b/80 = 0.0563 m
Pu = A Ps = 2898.614 kN/m
Maximum Es value = 309335.005 kN/m/m
p-multiplier = 1.00000
y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters	p, kN/m
0.00000	0.00000
0.00048355	149.57905
0.00271	426.77733
0.00494	614.57412
0.00717	770.69139
0.00940	908.55926
0.01163	1034.05452
0.01386	1150.40053
0.01608	1259.60108
0.01831	1363.00677
0.02054	1461.58120
0.02277	1556.04165
0.02500	1646.93984
0.04063	2272.77698
0.05625	2898.61412
0.06750	2898.61412
0.07875	2898.61412

The above p-y curve was computed using internal default values of k.

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 8.900 m
Depth of p-y curve below pile head = 12.200 m
Depth of p-y curve below ground surface = 12.200 m
Equiv. depth of p-y curve below ground surface = 8.301 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 1500.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3
K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 3548.003 kN/m
Psd = 10079.748 kN/m
Ps = Pst (shallow controls) = 3548.003 kN/m
A (static) = 0.8800
B (static) = 0.5000
C = Pm/(Ym^(1/n)) = 16711.1531
n = Pm/(m Ym) = 1.6447
m = (Pu-Pm)/(Yu-Ym) = 43143.7127
Yk = [c/(kx)]^(n/(n-1)) = 0.0005 m
Pk = 171.693 kN/m
Ym = b/60 = 0.0250 m
Pm = B ps = 1774.001 kN/m
Yu = 3b/80 = 0.0563 m
Pu = A Ps = 3122.242 kN/m
Maximum Es value = 319820.937 kN/m/m
p-multiplier = 1.00000
y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters	p, kN/m
0.00000	0.00000
0.00053684	171.69301
0.00276	464.67818
0.00498	665.53411
0.00721	832.87574

0.00943	980.80012
0.01166	1115.52403
0.01388	1240.47063
0.01610	1357.77298
0.01833	1468.87111
0.02055	1574.79371
0.02278	1676.30715
0.02500	1774.00134
0.04063	2448.12186
0.05625	3122.24237
0.06750	3122.24237
0.07875	3122.24237

The above p-y curve was computed using internal default values of k.

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 4
Depth of top of Layer 4 below pile head = 15.800 m
Depth of p-y curve below pile head = 16.000 m
Depth of p-y curve below ground surface = 16.000 m
Equiv. depth of p-y curve below ground surface = 16.000 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1500.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 150.000 kPa
Epsilon_50 = 0.0050
J (default value) = 0.5000
Transition depth Xr = 15.254 m
Static pu_s for flat ground = 2091.000 kN/m
Static pu_d for flat ground = 2025.000 kN/m
y_50 = 0.01875 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000

Positive-y, static pu = 2025.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00004444	135.00000
0.00035556	270.00000
0.00120	405.00000
0.00284	540.00000
0.00556	675.00000
0.00960	810.00000
0.01524	945.00000
0.02276	1080.00000
0.03240	1215.00000
0.04444	1350.00000
0.05916	1485.00000
0.07680	1620.00000
0.09764	1755.00000
0.12196	1890.00000
0.15000	2025.00000
0.15938	2025.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 4
Depth of top of Layer 4 below pile head = 15.800 m
Depth of p-y curve below pile head = 19.800 m
Depth of p-y curve below ground surface = 19.800 m
Equiv. depth of p-y curve below ground surface = 19.800 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1500.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 150.000 kPa
Epsilon_50 = 0.0050
J (default value) = 0.5000
Transition depth Xr = 15.254 m
Static pu_s for flat ground = 2427.300 kN/m
Static pu_d for flat ground = 2025.000 kN/m
y_50 = 0.01875 m
p-multiplier = 1.000
y-multiplier = 1.000

Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 2025.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00004444	135.00000
0.00035556	270.00000
0.00120	405.00000
0.00284	540.00000
0.00556	675.00000
0.00960	810.00000
0.01524	945.00000
0.02276	1080.00000
0.03240	1215.00000
0.04444	1350.00000
0.05916	1485.00000
0.07680	1620.00000
0.09764	1755.00000
0.12196	1890.00000
0.15000	2025.00000
0.15938	2025.00000

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 1

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 100.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m

0.00	4.16E-04	-3.77E-11	100.0000	-1.17E-04	1.14E-10	6958137.	0.00	0.00	0.00
0.2000	3.93E-04	20.0000	98.9334	-1.17E-04	60.3610	6958137.	-10.6659	5429.	0.00
0.4000	3.70E-04	39.5734	95.8603	-1.16E-04	119.4344	6958137.	-20.0655	10858.	0.00
0.6000	3.47E-04	58.3441	91.0320	-1.15E-04	176.0854	6958137.	-28.2172	16287.	0.00
0.8000	3.24E-04	75.9862	84.6952	-1.13E-04	229.3300	6958137.	-35.1513	21716.	0.00
1.0000	3.01E-04	92.2222	77.1134	-1.10E-04	278.3311	6958137.	-40.6664	26984.	0.00
1.2000	2.80E-04	106.8315	68.7382	-1.07E-04	322.4228	6958137.	-43.0855	30817.	0.00
1.4000	2.58E-04	119.7175	59.9109	-1.04E-04	361.3132	6958137.	-45.1874	34970.	0.00
1.6000	2.38E-04	130.7959	50.6949	-1.01E-04	394.7484	6958137.	-46.9728	39483.	0.00
1.8000	2.18E-04	139.9954	41.1533	-9.67E-05	422.5131	6958137.	-48.4431	44403.	0.00
2.0000	1.99E-04	147.2572	31.3489	-9.26E-05	444.4295	6958137.	-49.6014	49785.	0.00
2.2000	1.81E-04	152.5350	21.3436	-8.83E-05	460.3580	6958137.	-50.4511	55695.	0.00
2.4000	1.64E-04	155.7947	11.1989	-8.38E-05	470.1960	6958137.	-50.9964	62207.	0.00
2.6000	1.48E-04	157.0145	4.3755	-7.93E-05	473.8775	6958137.	-17.2372	23351.	0.00
2.8000	1.32E-04	157.5449	0.9422	-7.48E-05	475.4782	6958137.	-17.0957	25859.	0.00
3.0000	1.18E-04	157.3914	-2.4582	-7.03E-05	475.0150	6958137.	-16.9087	28729.	0.00
3.2000	1.04E-04	156.5616	-5.8166	-6.58E-05	472.5106	6958137.	-16.6750	32034.	0.00
3.4000	9.14E-05	155.0648	-9.1234	-6.13E-05	467.9931	6958137.	-16.3932	35870.	0.00
3.6000	7.96E-05	152.9122	-12.3689	-5.69E-05	461.4966	6958137.	-16.0617	40362.	0.00
3.8000	6.87E-05	150.1172	-15.5429	-5.25E-05	453.0611	6958137.	-15.6784	45673.	0.00
4.0000	5.86E-05	146.6951	-18.6348	-4.83E-05	442.7329	6958137.	-15.2405	52031.	0.00
4.2000	4.94E-05	142.6633	-21.6333	-4.41E-05	430.5648	6958137.	-14.7444	59750.	0.00
4.4000	4.09E-05	138.0417	-24.5262	-4.01E-05	416.6168	6958137.	-14.1853	69288.	0.00
4.6000	3.33E-05	132.8528	-27.3004	-3.62E-05	400.9563	6958137.	-13.5561	81342.	0.00
4.8000	2.65E-05	127.1216	-29.9406	-3.24E-05	383.6592	6958137.	-12.8464	97028.	0.00
5.0000	2.04E-05	120.8765	-32.4293	-2.89E-05	364.8114	6958137.	-12.0403	118277.	0.00
5.2000	1.49E-05	114.1499	-34.7444	-2.55E-05	344.5099	6958137.	-11.1111	148800.	0.00
5.4000	1.02E-05	106.9788	-36.8566	-2.23E-05	322.8672	6958137.	-10.0100	196948.	0.00
5.6000	6.01E-06	99.4073	-38.7208	-1.93E-05	300.0160	6958137.	-8.6322	287219.	0.00
5.8000	2.43E-06	91.4905	-40.2512	-1.66E-05	276.1227	6958137.	-6.6718	549532.	0.00
6.0000	-6.29E-07	83.3068	-40.5553	-1.41E-05	251.4240	6958137.	3.6302	1155024.	0.00
6.2000	-3.21E-06	75.2683	-39.4826	-1.18E-05	227.1635	6958137.	7.0968	442657.	0.00
6.4000	-5.35E-06	67.5137	-37.9051	-9.76E-06	203.7597	6958137.	8.6787	324338.	0.00
6.6000	-7.11E-06	60.1063	-36.0611	-7.92E-06	181.4037	6958137.	9.7612	274629.	0.00
6.8000	-8.52E-06	53.0893	-34.0267	-6.29E-06	160.2261	6958137.	10.5831	248424.	0.00
7.0000	-9.63E-06	46.4956	-31.8447	-4.86E-06	140.3260	6958137.	11.2368	233454.	0.00
7.2000	-1.05E-05	40.3514	-29.5440	-3.62E-06	121.7825	6958137.	11.7695	224918.	0.00
7.4000	-1.11E-05	34.6780	-27.1462	-2.54E-06	104.6599	6958137.	12.2093	220530.	0.00
7.6000	-1.15E-05	29.4929	-24.6678	-1.61E-06	89.0112	6958137.	12.5747	219063.	0.00
7.8000	-1.17E-05	24.8109	-22.1224	-8.34E-07	74.8805	6958137.	12.8786	219797.	0.00
8.0000	-1.18E-05	20.6440	-19.5215	-1.81E-07	62.3045	6958137.	13.1308	222290.	0.00
8.2000	-1.18E-05	17.0023	-16.8745	3.60E-07	51.3137	6958137.	13.3389	226254.	0.00
8.4000	-1.17E-05	13.8942	-14.1898	8.04E-07	41.9332	6958137.	13.5086	231507.	0.00
8.6000	-1.15E-05	11.3264	-11.4744	1.17E-06	34.1835	6958137.	13.6447	237931.	0.00

8.8000	-1.12E-05	9.3044	-8.7349	1.46E-06	28.0811	6958137.	13.7505	245467.	0.00
9.0000	-1.09E-05	7.8324	-7.1031	1.71E-06	23.6386	6958137.	2.5680	47187.	0.00
9.2000	-1.05E-05	6.4631	-6.5926	1.91E-06	19.5061	6958137.	2.5372	48235.	0.00
9.4000	-1.01E-05	5.1954	-6.0895	2.08E-06	15.6799	6958137.	2.4934	49284.	0.00
9.6000	-9.69E-06	4.0273	-5.5964	2.21E-06	12.1547	6958137.	2.4379	50332.	0.00
9.8000	-9.23E-06	2.9568	-5.1154	2.32E-06	8.9238	6958137.	2.3719	51381.	0.00
10.0000	-8.76E-06	1.9812	-4.6486	2.39E-06	5.9793	6958137.	2.2967	52430.	0.00
10.2000	-8.28E-06	1.0974	-4.1975	2.43E-06	3.3120	6958137.	2.2135	53478.	0.00
10.4000	-7.79E-06	0.3022	-3.7638	2.45E-06	0.9119	6958137.	2.1235	54527.	0.00
10.6000	-7.30E-06	-0.4081	-3.3487	2.45E-06	1.2318	6958137.	2.0279	55575.	0.00
10.8000	-6.81E-06	-1.0373	-2.9531	2.43E-06	3.1307	6958137.	1.9278	56624.	0.00
11.0000	-6.33E-06	-1.5894	-2.5779	2.39E-06	4.7969	6958137.	1.8244	57673.	0.00
11.2000	-5.85E-06	-2.0685	-2.2236	2.34E-06	6.2428	6958137.	1.7185	58721.	0.00
11.4000	-5.39E-06	-2.4788	-1.8907	2.27E-06	7.4813	6958137.	1.6112	59770.	0.00
11.6000	-4.94E-06	-2.8248	-1.5792	2.20E-06	8.5252	6958137.	1.5035	60818.	0.00
11.8000	-4.51E-06	-3.1105	-1.2892	2.11E-06	9.3877	6958137.	1.3960	61867.	0.00
12.0000	-4.10E-06	-3.3404	-1.0207	2.02E-06	10.0816	6958137.	1.2897	62916.	0.00
12.2000	-3.71E-06	-3.5188	-0.7732	1.92E-06	10.6199	6958137.	1.1851	63964.	0.00
12.4000	-3.33E-06	-3.6497	-0.5464	1.82E-06	11.0151	6958137.	1.0830	65013.	0.00
12.6000	-2.98E-06	-3.7373	-0.3397	1.71E-06	11.2795	6958137.	0.9840	66061.	0.00
12.8000	-2.65E-06	-3.7856	-0.1524	1.60E-06	11.4251	6958137.	0.8884	67110.	0.00
13.0000	-2.34E-06	-3.7983	0.01608	1.49E-06	11.4635	6958137.	0.7968	68159.	0.00
13.2000	-2.05E-06	-3.7792	0.1667	1.38E-06	11.4057	6958137.	0.7095	69207.	0.00
13.4000	-1.78E-06	-3.7316	0.3003	1.28E-06	11.2622	6958137.	0.6268	70256.	0.00
13.6000	-1.54E-06	-3.6590	0.4179	1.17E-06	11.0431	6958137.	0.5489	71304.	0.00
13.8000	-1.32E-06	-3.5645	0.5204	1.07E-06	10.7577	6958137.	0.4761	72353.	0.00
14.0000	-1.11E-06	-3.4509	0.6089	9.66E-07	10.4149	6958137.	0.4085	73402.	0.00
14.2000	-9.30E-07	-3.3209	0.6843	8.68E-07	10.0227	6958137.	0.3461	74450.	0.00
14.4000	-7.66E-07	-3.1771	0.7478	7.75E-07	9.5888	6958137.	0.2890	75499.	0.00
14.6000	-6.20E-07	-3.0218	0.8005	6.86E-07	9.1199	6958137.	0.2372	76547.	0.00
14.8000	-4.91E-07	-2.8570	0.8432	6.01E-07	8.6224	6958137.	0.1906	77596.	0.00
15.0000	-3.79E-07	-2.6845	0.8772	5.22E-07	8.1019	6958137.	0.1491	78644.	0.00
15.2000	-2.83E-07	-2.5061	0.9034	4.47E-07	7.5635	6958137.	0.1126	79693.	0.00
15.4000	-2.00E-07	-2.3231	0.9227	3.78E-07	7.0114	6958137.	0.08089	80742.	0.00
15.6000	-1.31E-07	-2.1370	0.9362	3.14E-07	6.4495	6958137.	0.05377	81790.	0.00
15.8000	-7.49E-08	-1.9487	0.9925	2.55E-07	5.8812	6958137.	0.5087	1358277.	0.00
16.0000	-2.95E-08	-1.7400	1.0634	2.02E-07	5.2514	6958137.	0.2004	1358277.	0.00
16.2000	5.87E-09	-1.5233	1.0794	1.55E-07	4.5974	6958137.	-0.03990	1358277.	0.00
16.4000	3.25E-08	-1.3082	1.0534	1.14E-07	3.9483	6958137.	-0.2208	1358277.	0.00
16.6000	5.16E-08	-1.1020	0.9962	7.97E-08	3.3258	6958137.	-0.3505	1358277.	0.00
16.8000	6.44E-08	-0.9097	0.9174	5.08E-08	2.7456	6958137.	-0.4373	1358277.	0.00
17.0000	7.19E-08	-0.7350	0.8249	2.72E-08	2.2183	6958137.	-0.4885	1358277.	0.00
17.2000	7.53E-08	-0.5798	0.7249	8.26E-09	1.7499	6958137.	-0.5111	1358277.	0.00
17.4000	7.52E-08	-0.4450	0.6227	-6.47E-09	1.3431	6958137.	-0.5110	1358277.	0.00

17.6000	7.27E-08	-0.3307	0.5223	-1.76E-08	0.9981	6958137.	-0.4935	1358277.	0.00
17.8000	6.82E-08	-0.2361	0.4266	-2.58E-08	0.7127	6958137.	-0.4631	1358277.	0.00
18.0000	6.24E-08	-0.1601	0.3379	-3.15E-08	0.4831	6958137.	-0.4235	1358277.	0.00
18.2000	5.56E-08	-0.1010	0.2578	-3.52E-08	0.3047	6958137.	-0.3777	1358277.	0.00
18.4000	4.83E-08	-0.05696	0.1873	-3.75E-08	0.1719	6958137.	-0.3279	1358277.	0.00
18.6000	4.06E-08	-0.02607	0.1269	-3.87E-08	0.07867	6958137.	-0.2759	1358277.	0.00
18.8000	3.28E-08	-0.00621	0.07701	-3.91E-08	0.01874	6958137.	-0.2228	1358277.	0.00
19.0000	2.50E-08	0.00474	0.03777	-3.92E-08	0.01429	6958137.	-0.1696	1358277.	0.00
19.2000	1.71E-08	0.00890	0.00917	-3.90E-08	0.02685	6958137.	-0.1165	1358277.	0.00
19.4000	9.38E-09	0.00840	-0.00885	-3.87E-08	0.02536	6958137.	-0.06372	1358277.	0.00
19.6000	1.66E-09	0.00536	-0.01635	-3.85E-08	0.01617	6958137.	-0.01130	1358277.	0.00
19.8000	-6.02E-09	0.00186	-0.01339	-3.84E-08	0.00562	6958137.	0.04090	1358277.	0.00
20.0000	-1.37E-08	0.00	0.00	-3.84E-08	0.00	6958137.	0.09304	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 1:

Pile-head deflection = 0.00041637 meters
Computed slope at pile head = -0.00011721 radians
Maximum bending moment = 157.54486468 kN-m
Maximum shear force = 100.00000000 kN
Depth of maximum bending moment = 2.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 8
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 2

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 400.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth	Deflect.	Bending	Shear	Slope	Total	Bending	Soil Res.	Soil Spr.	Distrib.
X	y	Moment	Force	S	Stress	Stiffness	p	Es*h	Lat. Load
meters	meters	kN-m	kN	radians	kPa*	kN-m^2	kN/m	kN/m	kN/m

0.00	0.00374	-1.21E-09	400.0000	-7.63E-04	3.64E-09	6958137.	0.00	0.00	0.00
0.2000	0.00359	80.0000	391.8678	-7.62E-04	241.4439	6958137.	-81.3219	4533.	0.00
0.4000	0.00344	156.7471	374.1843	-7.59E-04	473.0705	6958137.	-95.5136	5560.	0.00
0.6000	0.00328	229.6737	353.8958	-7.53E-04	693.1666	6958137.	-107.3705	6538.	0.00
0.8000	0.00313	298.3055	331.3589	-7.45E-04	900.3006	6958137.	-117.9992	7529.	0.00
1.0000	0.00299	362.2173	306.7619	-7.36E-04	1093.	6958137.	-127.9701	8570.	0.00
1.2000	0.00284	421.0102	280.2372	-7.25E-04	1271.	6958137.	-137.2772	9667.	0.00
1.4000	0.00270	474.3121	251.9178	-7.12E-04	1431.	6958137.	-145.9166	10823.	0.00
1.6000	0.00256	521.7774	221.9375	-6.97E-04	1575.	6958137.	-153.8864	12043.	0.00
1.8000	0.00242	563.0872	190.4303	-6.82E-04	1699.	6958137.	-161.1857	13335.	0.00
2.0000	0.00228	597.9495	157.5302	-6.65E-04	1805.	6958137.	-167.8153	14703.	0.00
2.2000	0.00215	626.0993	123.3710	-6.48E-04	1890.	6958137.	-173.7768	16154.	0.00
2.4000	0.00202	647.2979	88.0861	-6.29E-04	1954.	6958137.	-179.0725	17697.	0.00
2.6000	0.00190	661.3337	66.1427	-6.10E-04	1996.	6958137.	-40.3616	4249.	0.00
2.8000	0.00178	673.7550	58.0435	-5.91E-04	2033.	6958137.	-40.6305	4566.	0.00
3.0000	0.00166	684.5511	49.8965	-5.72E-04	2066.	6958137.	-40.8386	4911.	0.00
3.2000	0.00155	693.7136	41.7142	-5.52E-04	2094.	6958137.	-40.9849	5286.	0.00
3.4000	0.00144	701.2368	33.5088	-5.32E-04	2116.	6958137.	-41.0686	5694.	0.00
3.6000	0.00134	707.1172	25.2931	-5.12E-04	2134.	6958137.	-41.0888	6142.	0.00
3.8000	0.00124	711.3540	17.0798	-4.91E-04	2147.	6958137.	-41.0443	6632.	0.00
4.0000	0.00114	713.9491	8.8819	-4.71E-04	2155.	6958137.	-40.9342	7172.	0.00
4.2000	0.00105	714.9068	0.7128	-4.50E-04	2158.	6958137.	-40.7573	7767.	0.00
4.4000	9.61E-04	714.2342	-7.4142	-4.30E-04	2156.	6958137.	-40.5122	8427.	0.00
4.6000	8.78E-04	711.9411	-15.4852	-4.09E-04	2149.	6958137.	-40.1977	9161.	0.00
4.8000	7.98E-04	708.0401	-23.4861	-3.89E-04	2137.	6958137.	-39.8120	9981.	0.00
5.0000	7.22E-04	702.5466	-31.4027	-3.69E-04	2120.	6958137.	-39.3533	10901.	0.00
5.2000	6.50E-04	695.4790	-39.2200	-3.48E-04	2099.	6958137.	-38.8196	11938.	0.00
5.4000	5.83E-04	686.8587	-46.9227	-3.29E-04	2073.	6958137.	-38.2082	13116.	0.00
5.6000	5.19E-04	676.7099	-54.4952	-3.09E-04	2042.	6958137.	-37.5160	14460.	0.00
5.8000	4.59E-04	665.0606	-61.9207	-2.90E-04	2007.	6958137.	-36.7395	16007.	0.00
6.0000	4.03E-04	651.9417	-69.1821	-2.71E-04	1968.	6958137.	-35.8739	17803.	0.00
6.2000	3.51E-04	637.3878	-76.2608	-2.52E-04	1924.	6958137.	-34.9134	19909.	0.00
6.4000	3.02E-04	621.4373	-83.1372	-2.34E-04	1876.	6958137.	-33.8504	22410.	0.00
6.6000	2.57E-04	604.1329	-89.7897	-2.17E-04	1823.	6958137.	-32.6748	25422.	0.00
6.8000	2.15E-04	585.5215	-96.1945	-1.99E-04	1767.	6958137.	-31.3731	29118.	0.00
7.0000	1.77E-04	565.6551	-102.3244	-1.83E-04	1707.	6958137.	-29.9260	33762.	0.00
7.2000	1.42E-04	544.5917	-108.1475	-1.67E-04	1644.	6958137.	-28.3055	39777.	0.00
7.4000	1.10E-04	522.3961	-113.6249	-1.52E-04	1577.	6958137.	-26.4682	47908.	0.00
7.6000	8.17E-05	499.1418	-118.7059	-1.37E-04	1506.	6958137.	-24.3419	59607.	0.00
7.8000	5.57E-05	474.9137	-123.3193	-1.23E-04	1433.	6958137.	-21.7920	78218.	0.00
8.0000	3.25E-05	449.8140	-127.3500	-1.10E-04	1358.	6958137.	-18.5149	113944.	0.00
8.2000	1.19E-05	423.9737	-130.5484	-9.71E-05	1280.	6958137.	-13.4692	227111.	0.00
8.4000	-6.34E-06	397.5947	-130.7934	-8.53E-05	1200.	6958137.	11.0194	347705.	0.00

8.6000	-2.23E-05	371.6564	-127.9842	-7.42E-05	1122.	6958137.	17.0719	153438.	0.00
8.8000	-3.60E-05	346.4010	-124.2403	-6.39E-05	1045.	6958137.	20.3680	113061.	0.00
9.0000	-4.78E-05	321.9603	-121.0753	-5.43E-05	971.6920	6958137.	11.2815	47187.	0.00
9.2000	-5.78E-05	297.9709	-118.5543	-4.54E-05	899.2907	6958137.	13.9283	48235.	0.00
9.4000	-6.60E-05	274.5386	-115.5358	-3.72E-05	828.5709	6958137.	16.2573	49284.	0.00
9.6000	-7.26E-05	251.7565	-112.0825	-2.96E-05	759.8137	6958137.	18.2753	50332.	0.00
9.8000	-7.78E-05	229.7055	-108.2559	-2.27E-05	693.2627	6958137.	19.9912	51381.	0.00
10.0000	-8.17E-05	208.4542	-104.1152	-1.64E-05	629.1250	6958137.	21.4153	52430.	0.00
10.2000	-8.44E-05	188.0595	-99.7177	-1.07E-05	567.5727	6958137.	22.5598	53478.	0.00
10.4000	-8.60E-05	168.5671	-95.1180	-5.56E-06	508.7438	6958137.	23.4375	54527.	0.00
10.6000	-8.66E-05	150.0123	-90.3680	-9.84E-07	452.7444	6958137.	24.0627	55575.	0.00
10.8000	-8.64E-05	132.4199	-85.5166	3.07E-06	399.6499	6958137.	24.4504	56624.	0.00
11.0000	-8.54E-05	115.8056	-80.6100	6.64E-06	349.5070	6958137.	24.6161	57673.	0.00
11.2000	-8.37E-05	100.1759	-75.6908	9.75E-06	302.3359	6958137.	24.5759	58721.	0.00
11.4000	-8.15E-05	85.5293	-70.7986	1.24E-05	258.1316	6958137.	24.3461	59770.	0.00
11.6000	-7.87E-05	71.8565	-65.9697	1.47E-05	216.8664	6958137.	23.9434	60818.	0.00
11.8000	-7.56E-05	59.1414	-61.2369	1.66E-05	178.4917	6958137.	23.3843	61867.	0.00
12.0000	-7.21E-05	47.3617	-56.6299	1.81E-05	142.9400	6958137.	22.6853	62916.	0.00
12.2000	-6.84E-05	36.4895	-52.1751	1.93E-05	110.1270	6958137.	21.8627	63964.	0.00
12.4000	-6.44E-05	26.4917	-47.8956	2.02E-05	79.9532	6958137.	20.9326	65013.	0.00
12.6000	-6.03E-05	17.3312	-43.8113	2.08E-05	52.3065	6958137.	19.9106	66061.	0.00
12.8000	-5.61E-05	8.9672	-39.9390	2.12E-05	27.0634	6958137.	18.8119	67110.	0.00
13.0000	-5.18E-05	1.3556	-36.2927	2.14E-05	4.0913	6958137.	17.6516	68159.	0.00
13.2000	-4.75E-05	-5.5499	-32.8831	2.13E-05	16.7499	6958137.	16.4437	69207.	0.00
13.4000	-4.33E-05	-11.7977	-29.7186	2.10E-05	35.6059	6958137.	15.2023	70256.	0.00
13.6000	-3.91E-05	-17.4373	-26.8043	2.06E-05	52.6267	6958137.	13.9405	71304.	0.00
13.8000	-3.50E-05	-22.5194	-24.1431	2.01E-05	67.9645	6958137.	12.6712	72353.	0.00
14.0000	-3.11E-05	-27.0946	-21.7353	1.93E-05	81.7727	6958137.	11.4067	73402.	0.00
14.2000	-2.73E-05	-31.2135	-19.5788	1.85E-05	94.2038	6958137.	10.1588	74450.	0.00
14.4000	-2.37E-05	-34.9261	-17.6690	1.76E-05	105.4086	6958137.	8.9389	75499.	0.00
14.6000	-2.03E-05	-38.2811	-15.9993	1.65E-05	115.5342	6958137.	7.7579	76547.	0.00
14.8000	-1.71E-05	-41.3258	-14.5609	1.54E-05	124.7233	6958137.	6.6266	77596.	0.00
15.0000	-1.41E-05	-44.1054	-13.3427	1.41E-05	133.1123	6958137.	5.5553	78644.	0.00
15.2000	-1.14E-05	-46.6629	-12.3317	1.28E-05	140.8308	6958137.	4.5540	79693.	0.00
15.4000	-9.00E-06	-49.0381	-11.5130	1.14E-05	147.9994	6958137.	3.6328	80742.	0.00
15.6000	-6.85E-06	-51.2681	-10.8696	1.00E-05	154.7296	6958137.	2.8013	81790.	0.00
15.8000	-5.00E-06	-53.3860	-4.0671	8.50E-06	161.1215	6958137.	65.2244	2610972.	0.00
16.0000	-3.45E-06	-52.8949	8.2230	6.97E-06	159.6394	6958137.	57.6764	3344267.	0.00
16.2000	-2.21E-06	-50.0968	18.9649	5.49E-06	151.1945	6958137.	49.7419	4508814.	0.00
16.4000	-1.25E-06	-45.3089	28.0645	4.12E-06	136.7446	6958137.	41.2548	6592418.	0.00
16.6000	-5.57E-07	-38.8709	35.3565	2.91E-06	117.3144	6958137.	31.6650	1.14E+07	0.00
16.8000	-8.63E-08	-31.1663	38.5816	1.91E-06	94.0616	6958137.	0.5859	1358277.	0.00
17.0000	2.05E-07	-23.4383	36.4313	1.12E-06	70.7380	6958137.	-22.0887	2.15E+07	0.00
17.2000	3.63E-07	-16.5938	31.5193	5.47E-07	50.0810	6958137.	-27.0314	1.49E+07	0.00

17.4000	4.24E-07	-10.8306	25.9458	1.52E-07	32.6872	6958137.	-28.7038	1.35E+07	0.00
17.6000	4.24E-07	-6.2155	20.1758	-9.25E-08	18.7587	6958137.	-28.9959	1.37E+07	0.00
17.8000	3.87E-07	-2.7603	14.4109	-2.21E-07	8.3306	6958137.	-28.6534	1.48E+07	0.00
18.0000	3.35E-07	-0.4512	8.7273	-2.68E-07	1.3616	6958137.	-28.1821	1.68E+07	0.00
18.2000	2.80E-07	0.7307	3.1036	-2.64E-07	2.2052	6958137.	-28.0554	2.00E+07	0.00
18.4000	2.29E-07	0.7903	0.1422	-2.42E-07	2.3851	6958137.	-1.5584	1358277.	0.00
18.6000	1.83E-07	0.7875	-0.1382	-2.19E-07	2.3769	6958137.	-1.2454	1358277.	0.00
18.8000	1.42E-07	0.7350	-0.3590	-1.97E-07	2.2183	6958137.	-0.9632	1358277.	0.00
19.0000	1.04E-07	0.6439	-0.5263	-1.77E-07	1.9434	6958137.	-0.7097	1358277.	0.00
19.2000	7.09E-08	0.5245	-0.6454	-1.61E-07	1.5829	6958137.	-0.4813	1358277.	0.00
19.4000	4.03E-08	0.3858	-0.7209	-1.48E-07	1.1642	6958137.	-0.2734	1358277.	0.00
19.6000	1.19E-08	0.2361	-0.7563	-1.39E-07	0.7126	6958137.	-0.08060	1358277.	0.00
19.8000	-1.52E-08	0.08323	-0.5903	-1.34E-07	0.2512	6958137.	1.7411	2.30E+07	0.00
20.0000	-4.17E-08	0.00	0.00	-1.33E-07	0.00	6958137.	4.1615	9973256.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 2:

Pile-head deflection = 0.00374054 meters
Computed slope at pile head = -0.00076308 radians
Maximum bending moment = 714.90676392 kN-m
Maximum shear force = 400.00000000 kN
Depth of maximum bending moment = 4.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 17
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 3

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 600.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X	Deflect. y	Bending Moment	Shear Force	Slope S	Total Stress	Bending Stiffness	Soil Res. p	Soil Spr. Es*h	Distrib. Lat. Load

meters	meters	kN-m	kN	radians	kPa*	kN-m^2	kN/m	kN/m	kN/m
0.00	0.00792	-3.32E-09	600.0000	-0.00143	1.00E-08	6958137.	0.00	0.00	0.00
0.2000	0.00764	120.0000	590.7232	-0.00143	362.1659	6958137.	-92.7685	2430.	0.00
0.4000	0.00735	236.2893	569.8907	-0.00142	713.1326	6958137.	-115.5562	3144.	0.00
0.6000	0.00707	347.9563	544.6329	-0.00142	1050.	6958137.	-137.0221	3878.	0.00
0.8000	0.00678	454.1424	515.2060	-0.00140	1371.	6958137.	-157.2461	4636.	0.00
1.0000	0.00650	554.0387	481.8542	-0.00139	1672.	6958137.	-176.2724	5420.	0.00
1.2000	0.00623	646.8841	444.8149	-0.00137	1952.	6958137.	-194.1203	6233.	0.00
1.4000	0.00596	731.9647	404.3242	-0.00135	2209.	6958137.	-210.7873	7078.	0.00
1.6000	0.00569	808.6138	360.6213	-0.00133	2440.	6958137.	-226.2413	7955.	0.00
1.8000	0.00542	876.2132	313.9589	-0.00131	2644.	6958137.	-240.3830	8864.	0.00
2.0000	0.00517	934.1973	264.6772	-0.00128	2819.	6958137.	-252.4336	9774.	0.00
2.2000	0.00491	982.0841	213.1762	-0.00125	2964.	6958137.	-262.5765	10691.	0.00
2.4000	0.00466	1019.	159.7323	-0.00122	3077.	6958137.	-271.8631	11657.	0.00
2.6000	0.00442	1046.	127.1967	-0.00119	3157.	6958137.	-53.4925	2419.	0.00
2.8000	0.00419	1070.	116.4435	-0.00116	3230.	6958137.	-54.0391	2581.	0.00
3.0000	0.00396	1093.	105.5877	-0.00113	3297.	6958137.	-54.5191	2755.	0.00
3.2000	0.00373	1113.	94.6427	-0.00110	3358.	6958137.	-54.9315	2942.	0.00
3.4000	0.00352	1130.	83.6220	-0.00107	3412.	6958137.	-55.2755	3143.	0.00
3.6000	0.00331	1146.	72.5394	-0.00104	3459.	6958137.	-55.5504	3360.	0.00
3.8000	0.00310	1159.	61.4088	-0.00100	3499.	6958137.	-55.7554	3594.	0.00
4.0000	0.00291	1171.	50.2443	-9.69E-04	3533.	6958137.	-55.8894	3847.	0.00
4.2000	0.00272	1180.	39.0602	-9.35E-04	3560.	6958137.	-55.9518	4121.	0.00
4.4000	0.00253	1186.	27.8708	-9.01E-04	3580.	6958137.	-55.9416	4419.	0.00
4.6000	0.00235	1191.	16.6909	-8.67E-04	3594.	6958137.	-55.8578	4744.	0.00
4.8000	0.00219	1193.	5.5352	-8.33E-04	3600.	6958137.	-55.6995	5098.	0.00
5.0000	0.00202	1193.	-5.5813	-7.98E-04	3600.	6958137.	-55.4655	5487.	0.00
5.2000	0.00187	1191.	-16.6434	-7.64E-04	3593.	6958137.	-55.1549	5913.	0.00
5.4000	0.00172	1186.	-27.6355	-7.30E-04	3580.	6958137.	-54.7662	6382.	0.00
5.6000	0.00157	1180.	-38.5419	-6.96E-04	3560.	6958137.	-54.2982	6901.	0.00
5.8000	0.00144	1171.	-49.3467	-6.62E-04	3534.	6958137.	-53.7493	7477.	0.00
6.0000	0.00131	1160.	-60.0334	-6.29E-04	3501.	6958137.	-53.1178	8118.	0.00
6.2000	0.00119	1147.	-70.5853	-5.96E-04	3461.	6958137.	-52.4017	8835.	0.00
6.4000	0.00107	1132.	-80.9854	-5.63E-04	3415.	6958137.	-51.5986	9641.	0.00
6.6000	9.61E-04	1114.	-91.2158	-5.31E-04	3363.	6958137.	-50.7059	10552.	0.00
6.8000	8.58E-04	1095.	-101.2584	-4.99E-04	3305.	6958137.	-49.7202	11587.	0.00
7.0000	7.62E-04	1074.	-111.0942	-4.68E-04	3241.	6958137.	-48.6376	12773.	0.00
7.2000	6.71E-04	1051.	-120.7033	-4.37E-04	3171.	6958137.	-47.4531	14142.	0.00
7.4000	5.87E-04	1026.	-130.0646	-4.07E-04	3095.	6958137.	-46.1605	15736.	0.00
7.6000	5.08E-04	998.6849	-139.1559	-3.78E-04	3014.	6958137.	-44.7520	17613.	0.00
7.8000	4.35E-04	969.9587	-147.9528	-3.50E-04	2927.	6958137.	-43.2172	19852.	0.00
8.0000	3.68E-04	939.5038	-156.4288	-3.22E-04	2835.	6958137.	-41.5423	22565.	0.00
8.2000	3.06E-04	907.3872	-164.5538	-2.96E-04	2739.	6958137.	-39.7084	25918.	0.00

8.4000	2.50E-04	873.6822	-172.2935	-2.70E-04	2637.	6958137.	-37.6884	30171.	0.00
8.6000	1.98E-04	838.4698	-179.6066	-2.46E-04	2531.	6958137.	-35.4421	35751.	0.00
8.8000	1.52E-04	801.8396	-186.4414	-2.22E-04	2420.	6958137.	-32.9059	43430.	0.00
9.0000	1.09E-04	763.8932	-192.3132	-2.00E-04	2305.	6958137.	-25.8127	47187.	0.00
9.2000	7.17E-05	724.9143	-196.6230	-1.78E-04	2188.	6958137.	-17.2851	48235.	0.00
9.4000	3.81E-05	685.2440	-199.2904	-1.58E-04	2068.	6958137.	-9.3887	49284.	0.00
9.6000	8.47E-06	645.1982	-200.4424	-1.39E-04	1947.	6958137.	-2.1317	50332.	0.00
9.8000	-1.75E-05	605.0671	-200.2072	-1.21E-04	1826.	6958137.	4.4832	51381.	0.00
10.0000	-3.99E-05	565.1153	-198.7131	-1.04E-04	1706.	6958137.	10.4580	52430.	0.00
10.2000	-5.91E-05	525.5818	-196.0874	-8.84E-05	1586.	6958137.	15.7995	53478.	0.00
10.4000	-7.53E-05	486.6804	-192.4556	-7.39E-05	1469.	6958137.	20.5185	54527.	0.00
10.6000	-8.86E-05	448.5996	-187.9407	-6.04E-05	1354.	6958137.	24.6297	55575.	0.00
10.8000	-9.94E-05	411.5041	-182.6627	-4.81E-05	1242.	6958137.	28.1510	56624.	0.00
11.0000	-1.08E-04	375.5346	-176.7372	-3.68E-05	1133.	6958137.	31.1034	57673.	0.00
11.2000	-1.14E-04	340.8092	-170.2759	-2.65E-05	1029.	6958137.	33.5103	58721.	0.00
11.4000	-1.18E-04	307.4242	-163.3851	-1.71E-05	927.8214	6958137.	35.3975	59770.	0.00
11.6000	-1.21E-04	275.4551	-156.1661	-8.77E-06	831.3372	6958137.	36.7925	60818.	0.00
11.8000	-1.22E-04	244.9578	-148.7144	-1.29E-06	739.2946	6958137.	37.7243	61867.	0.00
12.0000	-1.22E-04	215.9694	-141.1197	5.34E-06	651.8062	6958137.	38.2232	62916.	0.00
12.2000	-1.20E-04	188.5099	-133.4653	1.11E-05	568.9322	6958137.	38.3204	63964.	0.00
12.4000	-1.17E-04	162.5833	-125.8285	1.62E-05	490.6843	6958137.	38.0477	65013.	0.00
12.6000	-1.13E-04	138.1785	-118.2800	2.05E-05	417.0296	6958137.	37.4371	66061.	0.00
12.8000	-1.09E-04	115.2713	-110.8842	2.42E-05	347.8943	6958137.	36.5211	67110.	0.00
13.0000	-1.04E-04	93.8248	-103.6989	2.72E-05	283.1680	6958137.	35.3322	68159.	0.00
13.2000	-9.80E-05	73.7917	-96.7754	2.96E-05	222.7070	6958137.	33.9024	69207.	0.00
13.4000	-9.18E-05	55.1147	-90.1588	3.14E-05	166.3388	6958137.	32.2638	70256.	0.00
13.6000	-8.54E-05	37.7282	-83.8876	3.28E-05	113.8656	6958137.	30.4480	71304.	0.00
13.8000	-7.87E-05	21.5596	-77.9942	3.36E-05	65.0681	6958137.	28.4862	72353.	0.00
14.0000	-7.20E-05	6.5305	-72.5047	3.40E-05	19.7095	6958137.	26.4091	73402.	0.00
14.2000	-6.51E-05	-7.4422	-67.4391	3.40E-05	22.4610	6958137.	24.2468	74450.	0.00
14.4000	-5.84E-05	-20.4451	-62.8115	3.36E-05	61.7043	6958137.	22.0292	75499.	0.00
14.6000	-5.17E-05	-32.5668	-58.6300	3.28E-05	98.2882	6958137.	19.7854	76547.	0.00
14.8000	-4.52E-05	-43.8971	-54.8970	3.17E-05	132.4836	6958137.	17.5444	77596.	0.00
15.0000	-3.90E-05	-54.5256	-51.6091	3.03E-05	164.5610	6958137.	15.3348	78644.	0.00
15.2000	-3.31E-05	-64.5407	-48.7571	2.86E-05	194.7872	6958137.	13.1848	79693.	0.00
15.4000	-2.76E-05	-74.0285	-46.3264	2.66E-05	223.4216	6958137.	11.1227	80742.	0.00
15.6000	-2.24E-05	-83.0713	-44.2965	2.44E-05	250.7133	6958137.	9.1765	81790.	0.00
15.8000	-1.78E-05	-91.7471	-33.4266	2.19E-05	276.8972	6958137.	99.5225	1117953.	0.00
16.0000	-1.37E-05	-96.4419	-14.3551	1.92E-05	291.0665	6958137.	91.1920	1331542.	0.00
16.2000	-1.01E-05	-97.4891	3.0147	1.64E-05	294.2270	6958137.	82.5064	1626640.	0.00
16.4000	-7.15E-06	-95.2361	18.6086	1.36E-05	287.4271	6958137.	73.4321	2053466.	0.00
16.6000	-4.71E-06	-90.0457	32.3391	1.09E-05	271.7624	6958137.	63.8737	2713917.	0.00
16.8000	-2.78E-06	-82.3004	44.0853	8.45E-06	248.3867	6958137.	53.5875	3855386.	0.00
17.0000	-1.33E-06	-72.4116	53.6303	6.23E-06	218.5418	6958137.	41.8629	6315383.	0.00

17.2000	-2.88E-07	-60.8483	60.3310	4.31E-06	183.6431	6958137.	25.1444	1.75E+07	0.00
17.4000	4.00E-07	-48.2792	60.0351	2.75E-06	145.7090	6958137.	-28.1041	1.40E+07	0.00
17.6000	8.11E-07	-36.8343	53.6700	1.52E-06	111.1676	6958137.	-35.5469	8769329.	0.00
17.8000	1.01E-06	-26.8112	46.2918	6.09E-07	80.9175	6958137.	-38.2352	7575182.	0.00
18.0000	1.05E-06	-18.3176	38.5901	-4.00E-08	55.2833	6958137.	-38.7814	7357960.	0.00
18.2000	9.93E-07	-11.3752	30.9112	-4.67E-07	34.3308	6958137.	-38.0079	7651461.	0.00
18.4000	8.67E-07	-5.9531	23.4801	-7.16E-07	17.9667	6958137.	-36.3026	8370099.	0.00
18.6000	7.07E-07	-1.9831	16.4627	-8.30E-07	5.9851	6958137.	-33.8717	9579534.	0.00
18.8000	5.36E-07	0.6320	9.9952	-8.49E-07	1.9074	6958137.	-30.8027	1.15E+07	0.00
19.0000	3.67E-07	2.0150	4.2108	-8.11E-07	6.0813	6958137.	-27.0417	1.47E+07	0.00
19.2000	2.11E-07	2.3163	-0.7146	-7.49E-07	6.9907	6958137.	-22.2121	2.11E+07	0.00
19.4000	6.79E-08	1.7291	-2.9819	-6.91E-07	5.2186	6958137.	-0.4610	1358277.	0.00
19.6000	-6.53E-08	1.1235	-2.9836	-6.50E-07	3.3909	6958137.	0.4436	1358277.	0.00
19.8000	-1.92E-07	0.5357	-2.8089	-6.26E-07	1.6167	6958137.	1.3043	1358277.	0.00
20.0000	-3.16E-07	0.00	0.00	-6.18E-07	0.00	6958137.	26.7843	8483894.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 3:

Pile-head deflection = 0.00792177 meters
Computed slope at pile head = -0.00143042 radians
Maximum bending moment = 1193. kN-m
Maximum shear force = 600.00000000 kN
Depth of maximum bending moment = 4.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 20
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 4

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 800.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth	Deflect.	Bending	Shear	Slope	Total	Bending	Soil Res.	Soil Spr.	Distrib.

X	y	Moment	Force	S	Stress	Stiffness	p	Es*h	Lat. Load
meters	meters	kN-m	kN	radians	kPa*	kN-m^2	kN/m	kN/m	kN/m
0.00	0.01549	6.64E-09	800.0000	-0.00250	2.00E-08	6958137.	0.00	0.00	0.00
0.2000	0.01499	160.0000	792.4243	-0.00249	482.8879	6958137.	-75.7566	1011.	0.00
0.4000	0.01449	316.9697	773.9019	-0.00249	956.6303	6958137.	-109.4675	1511.	0.00
0.6000	0.01399	469.5608	748.8243	-0.00247	1417.	6958137.	-141.3089	2020.	0.00
0.8000	0.01350	616.4994	717.5453	-0.00246	1861.	6958137.	-171.4811	2541.	0.00
1.0000	0.01301	756.5789	680.3858	-0.00244	2283.	6958137.	-200.1134	3077.	0.00
1.2000	0.01252	888.6538	637.6452	-0.00242	2682.	6958137.	-227.2932	3630.	0.00
1.4000	0.01204	1012.	589.6077	-0.00239	3053.	6958137.	-253.0816	4203.	0.00
1.6000	0.01157	1124.	536.5473	-0.00236	3394.	6958137.	-277.5224	4798.	0.00
1.8000	0.01110	1226.	478.7302	-0.00232	3701.	6958137.	-300.6479	5417.	0.00
2.0000	0.01064	1316.	416.4173	-0.00229	3972.	6958137.	-322.4819	6063.	0.00
2.2000	0.01018	1393.	349.8649	-0.00225	4204.	6958137.	-343.0417	6737.	0.00
2.4000	0.00974	1456.	279.3268	-0.00221	4394.	6958137.	-362.3393	7441.	0.00
2.6000	0.00930	1505.	236.2396	-0.00217	4541.	6958137.	-68.5330	1474.	0.00
2.8000	0.00887	1550.	222.4454	-0.00212	4679.	6958137.	-69.4086	1565.	0.00
3.0000	0.00845	1594.	208.4836	-0.00208	4809.	6958137.	-70.2101	1661.	0.00
3.2000	0.00804	1634.	194.3689	-0.00203	4931.	6958137.	-70.9366	1764.	0.00
3.4000	0.00764	1671.	180.1165	-0.00198	5044.	6958137.	-71.5872	1874.	0.00
3.6000	0.00725	1706.	165.7417	-0.00193	5148.	6958137.	-72.1610	1991.	0.00
3.8000	0.00687	1738.	151.2599	-0.00188	5244.	6958137.	-72.6570	2116.	0.00
4.0000	0.00650	1766.	136.6868	-0.00183	5331.	6958137.	-73.0742	2250.	0.00
4.2000	0.00613	1792.	122.0382	-0.00178	5409.	6958137.	-73.4118	2394.	0.00
4.4000	0.00578	1815.	107.3301	-0.00173	5478.	6958137.	-73.6686	2548.	0.00
4.6000	0.00544	1835.	92.5789	-0.00168	5539.	6958137.	-73.8438	2714.	0.00
4.8000	0.00511	1852.	77.8009	-0.00163	5590.	6958137.	-73.9363	2893.	0.00
5.0000	0.00479	1866.	63.0128	-0.00157	5633.	6958137.	-73.9450	3087.	0.00
5.2000	0.00448	1877.	48.2314	-0.00152	5666.	6958137.	-73.8689	3296.	0.00
5.4000	0.00418	1886.	33.4738	-0.00146	5691.	6958137.	-73.7068	3523.	0.00
5.6000	0.00390	1891.	18.7574	-0.00141	5707.	6958137.	-73.4574	3770.	0.00
5.8000	0.00362	1893.	4.0997	-0.00136	5713.	6958137.	-73.1195	4040.	0.00
6.0000	0.00335	1892.	-10.4814	-0.00130	5712.	6958137.	-72.6918	4334.	0.00
6.2000	0.00310	1889.	-24.9679	-0.00125	5701.	6958137.	-72.1727	4657.	0.00
6.4000	0.00286	1882.	-39.3412	-0.00119	5681.	6958137.	-71.5606	5012.	0.00
6.6000	0.00262	1873.	-53.5826	-0.00114	5653.	6958137.	-70.8538	5403.	0.00
6.8000	0.00240	1861.	-67.6730	-0.00108	5617.	6958137.	-70.0502	5837.	0.00
7.0000	0.00219	1846.	-81.5928	-0.00103	5572.	6958137.	-69.1477	6319.	0.00
7.2000	0.00199	1828.	-95.3220	-9.79E-04	5518.	6958137.	-68.1438	6857.	0.00
7.4000	0.00180	1808.	-108.8399	-9.27E-04	5457.	6958137.	-67.0356	7461.	0.00
7.6000	0.00162	1785.	-122.1254	-8.75E-04	5387.	6958137.	-65.8197	8141.	0.00
7.8000	0.00145	1759.	-135.1566	-8.24E-04	5309.	6958137.	-64.4922	8913.	0.00
8.0000	0.00129	1731.	-147.9107	-7.74E-04	5224.	6958137.	-63.0484	9795.	0.00

8.2000	0.00114	1700.	-160.3638	-7.24E-04	5131.	6958137.	-61.4827	10809.	0.00
8.4000	9.98E-04	1667.	-172.4908	-6.76E-04	5030.	6958137.	-59.7880	11986.	0.00
8.6000	8.67E-04	1631.	-184.2652	-6.29E-04	4922.	6958137.	-57.9559	13367.	0.00
8.8000	7.46E-04	1593.	-195.6583	-5.82E-04	4808.	6958137.	-55.9751	15004.	0.00
9.0000	6.34E-04	1553.	-216.2193	-5.37E-04	4686.	6958137.	-149.6343	47187.	0.00
9.2000	5.31E-04	1506.	-243.9953	-4.93E-04	4547.	6958137.	-128.1257	48235.	0.00
9.4000	4.37E-04	1455.	-267.5750	-4.51E-04	4392.	6958137.	-107.6715	49284.	0.00
9.6000	3.51E-04	1399.	-287.1755	-4.10E-04	4224.	6958137.	-88.3334	50332.	0.00
9.8000	2.73E-04	1340.	-303.0249	-3.70E-04	4045.	6958137.	-70.1609	51381.	0.00
10.0000	2.03E-04	1278.	-315.3601	-3.33E-04	3858.	6958137.	-53.1913	52430.	0.00
10.2000	1.40E-04	1214.	-324.4243	-2.97E-04	3664.	6958137.	-37.4505	53478.	0.00
10.4000	8.42E-05	1148.	-330.4647	-2.63E-04	3466.	6958137.	-22.9535	54527.	0.00
10.6000	3.49E-05	1082.	-333.7306	-2.31E-04	3265.	6958137.	-9.7052	55575.	0.00
10.8000	-8.12E-06	1015.	-334.4712	-2.01E-04	3063.	6958137.	2.2989	56624.	0.00
11.0000	-4.53E-05	948.1107	-332.9341	-1.72E-04	2861.	6958137.	13.0718	57673.	0.00
11.2000	-7.71E-05	881.7853	-329.3635	-1.46E-04	2661.	6958137.	22.6346	58721.	0.00
11.4000	-1.04E-04	816.3653	-323.9985	-1.22E-04	2464.	6958137.	31.0156	59770.	0.00
11.6000	-1.26E-04	752.1859	-317.0720	-9.92E-05	2270.	6958137.	38.2494	60818.	0.00
11.8000	-1.43E-04	689.5365	-308.8094	-7.85E-05	2081.	6958137.	44.3762	61867.	0.00
12.0000	-1.57E-04	628.6621	-299.4276	-5.95E-05	1897.	6958137.	49.4415	62916.	0.00
12.2000	-1.67E-04	569.7654	-289.1340	-4.23E-05	1720.	6958137.	53.4947	63964.	0.00
12.4000	-1.74E-04	513.0085	-278.1257	-2.67E-05	1548.	6958137.	56.5890	65013.	0.00
12.6000	-1.78E-04	458.5152	-266.5887	-1.28E-05	1384.	6958137.	58.7808	66061.	0.00
12.8000	-1.79E-04	406.3731	-254.6977	-3.42E-07	1226.	6958137.	60.1287	67110.	0.00
13.0000	-1.78E-04	356.6361	-242.6155	1.06E-05	1076.	6958137.	60.6934	68159.	0.00
13.2000	-1.75E-04	309.3268	-230.4925	2.02E-05	933.5637	6958137.	60.5372	69207.	0.00
13.4000	-1.70E-04	264.4391	-218.4664	2.84E-05	798.0902	6958137.	59.7233	70256.	0.00
13.6000	-1.64E-04	221.9403	-206.6625	3.54E-05	669.8267	6958137.	58.3157	71304.	0.00
13.8000	-1.56E-04	181.7741	-195.1930	4.12E-05	548.6032	6958137.	56.3790	72353.	0.00
14.0000	-1.47E-04	143.8631	-184.1574	4.59E-05	434.1858	6958137.	53.9778	73402.	0.00
14.2000	-1.37E-04	108.1111	-173.6419	4.95E-05	326.2848	6958137.	51.1767	74450.	0.00
14.4000	-1.27E-04	74.4063	-163.7202	5.22E-05	224.5619	6958137.	48.0405	75499.	0.00
14.6000	-1.17E-04	42.6231	-154.4528	5.38E-05	128.6385	6958137.	44.6333	76547.	0.00
14.8000	-1.06E-04	12.6252	-145.8875	5.46E-05	38.1034	6958137.	41.0195	77596.	0.00
15.0000	-9.48E-05	-15.7319	-138.0593	5.46E-05	47.4798	6958137.	37.2630	78644.	0.00
15.2000	-8.39E-05	-42.5985	-130.9902	5.38E-05	128.5645	6958137.	33.4275	79693.	0.00
15.4000	-7.33E-05	-68.1280	-124.6898	5.22E-05	205.6138	6958137.	29.5769	80742.	0.00
15.6000	-6.30E-05	-92.4745	-119.1546	4.99E-05	279.0925	6958137.	25.7750	81790.	0.00
15.8000	-5.33E-05	-115.7899	-102.2317	4.69E-05	349.4596	6958137.	143.4542	538061.	0.00
16.0000	-4.43E-05	-133.3671	-74.4021	4.33E-05	402.5086	6958137.	134.8419	608988.	0.00
16.2000	-3.60E-05	-145.5507	-48.3318	3.93E-05	439.2792	6958137.	125.8609	698997.	0.00
16.4000	-2.86E-05	-152.6999	-24.0935	3.50E-05	460.8557	6958137.	116.5226	815512.	0.00
16.6000	-2.20E-05	-155.1881	-1.7588	3.06E-05	468.3654	6958137.	106.8240	970287.	0.00
16.8000	-1.64E-05	-153.4034	18.5974	2.61E-05	462.9790	6958137.	96.7383	1183078.	0.00

17.0000	-1.16E-05	-147.7491	36.8909	2.18E-05	445.9142	6958137.	86.1962	1489975.	0.00
17.2000	-7.64E-06	-138.6470	53.0145	1.77E-05	418.4436	6958137.	75.0399	1965423.	0.00
17.4000	-4.50E-06	-126.5434	66.8080	1.39E-05	381.9141	6958137.	62.8951	2796023.	0.00
17.6000	-2.09E-06	-111.9239	77.9650	1.04E-05	337.7917	6958137.	48.6752	4659601.	0.00
17.8000	-3.23E-07	-95.3573	85.4279	7.46E-06	287.7932	6958137.	25.9534	1.61E+07	0.00
18.0000	8.95E-07	-77.7527	84.3389	4.97E-06	234.6615	6958137.	-36.8434	8232526.	0.00
18.2000	1.67E-06	-61.6218	76.1287	2.97E-06	185.9776	6958137.	-45.2587	5432694.	0.00
18.4000	2.08E-06	-47.3012	66.7299	1.40E-06	142.7575	6958137.	-48.7292	4678723.	0.00
18.6000	2.23E-06	-34.9298	56.8765	2.23E-07	105.4200	6958137.	-49.8043	4470881.	0.00
18.8000	2.17E-06	-24.5506	46.9625	-6.32E-07	74.0950	6958137.	-49.3362	4542776.	0.00
19.0000	1.98E-06	-16.1449	37.2576	-1.22E-06	48.7260	6958137.	-47.7125	4831480.	0.00
19.2000	1.69E-06	-9.6476	27.9758	-1.59E-06	29.1169	6958137.	-45.1055	5352966.	0.00
19.4000	1.34E-06	-4.9545	19.3129	-1.80E-06	14.9530	6958137.	-41.5236	6197648.	0.00
19.6000	9.66E-07	-1.9224	11.4853	-1.90E-06	5.8020	6958137.	-36.7521	7607381.	0.00
19.8000	5.81E-07	-0.3604	4.8061	-1.93E-06	1.0877	6958137.	-30.0402	1.03E+07	0.00
20.0000	1.95E-07	0.00	0.00	-1.93E-06	0.00	6958137.	-18.0207	9263558.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 4:

Pile-head deflection = 0.01548619 meters
Computed slope at pile head = -0.00249542 radians
Maximum bending moment = 1893. kN-m
Maximum shear force = 800.00000000 kN
Depth of maximum bending moment = 5.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 27
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 5

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 1000.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.02969	-2.41E-09	1000.	-0.00432	7.29E-09	6958137.	0.00	0.00	0.00
0.2000	0.02883	200.0000	995.4200	-0.00432	603.6099	6958137.	-45.8001	317.7494	0.00
0.4000	0.02797	398.1680	983.5274	-0.00431	1202.	6958137.	-73.1261	522.9791	0.00
0.6000	0.02710	593.4109	965.8358	-0.00429	1791.	6958137.	-103.7892	765.8324	0.00
0.8000	0.02625	784.5023	941.7277	-0.00427	2368.	6958137.	-137.2916	1046.	0.00
1.0000	0.02540	970.1020	910.6789	-0.00425	2928.	6958137.	-173.1969	1364.	0.00
1.2000	0.02455	1149.	872.0757	-0.00422	3467.	6958137.	-212.8351	1734.	0.00
1.4000	0.02371	1319.	825.6811	-0.00418	3981.	6958137.	-251.1108	2118.	0.00
1.6000	0.02288	1479.	771.8100	-0.00414	4464.	6958137.	-287.6003	2514.	0.00
1.8000	0.02205	1628.	710.8118	-0.00410	4912.	6958137.	-322.3819	2924.	0.00
2.0000	0.02124	1763.	643.0220	-0.00405	5322.	6958137.	-355.5163	3348.	0.00
2.2000	0.02043	1885.	568.7652	-0.00400	5689.	6958137.	-387.0516	3789.	0.00
2.4000	0.01964	1991.	488.3574	-0.00394	6009.	6958137.	-417.0263	4247.	0.00
2.6000	0.01886	2080.	437.9810	-0.00388	6278.	6958137.	-86.7377	919.9703	0.00
2.8000	0.01809	2166.	420.5066	-0.00382	6537.	6958137.	-88.0064	973.1844	0.00
3.0000	0.01733	2248.	402.7869	-0.00376	6786.	6958137.	-89.1908	1029.	0.00
3.2000	0.01658	2327.	384.8388	-0.00369	7024.	6958137.	-90.2899	1089.	0.00
3.4000	0.01585	2402.	366.6796	-0.00362	7250.	6958137.	-91.3024	1152.	0.00
3.6000	0.01513	2474.	348.3266	-0.00355	7466.	6958137.	-92.2270	1219.	0.00
3.8000	0.01443	2542.	329.7977	-0.00348	7671.	6958137.	-93.0625	1290.	0.00
4.0000	0.01374	2606.	311.1106	-0.00341	7864.	6958137.	-93.8077	1365.	0.00
4.2000	0.01307	2666.	292.2837	-0.00333	8046.	6958137.	-94.4614	1446.	0.00
4.4000	0.01241	2723.	273.3354	-0.00325	8217.	6958137.	-95.0221	1532.	0.00
4.6000	0.01177	2775.	254.2843	-0.00318	8376.	6958137.	-95.4886	1623.	0.00
4.8000	0.01114	2824.	235.1495	-0.00309	8524.	6958137.	-95.8595	1721.	0.00
5.0000	0.01053	2870.	215.9502	-0.00301	8660.	6958137.	-96.1336	1826.	0.00
5.2000	0.00993	2911.	196.7059	-0.00293	8785.	6958137.	-96.3092	1939.	0.00
5.4000	0.00936	2948.	177.4365	-0.00285	8898.	6958137.	-96.3850	2060.	0.00
5.6000	0.00880	2982.	158.1620	-0.00276	8999.	6958137.	-96.3595	2191.	0.00
5.8000	0.00825	3011.	138.9030	-0.00267	9089.	6958137.	-96.2310	2332.	0.00
6.0000	0.00773	3037.	119.6801	-0.00259	9167.	6958137.	-95.9980	2485.	0.00
6.2000	0.00722	3059.	100.5144	-0.00250	9233.	6958137.	-95.6586	2651.	0.00
6.4000	0.00673	3078.	81.4275	-0.00241	9288.	6958137.	-95.2111	2831.	0.00
6.6000	0.00625	3092.	62.4410	-0.00232	9332.	6958137.	-94.6534	3028.	0.00
6.8000	0.00580	3103.	43.5773	-0.00223	9363.	6958137.	-93.9836	3243.	0.00
7.0000	0.00536	3109.	24.8590	-0.00214	9384.	6958137.	-93.1993	3478.	0.00
7.2000	0.00494	3112.	6.3093	-0.00206	9394.	6958137.	-92.2983	3738.	0.00
7.4000	0.00454	3112.	-12.0483	-0.00197	9392.	6958137.	-91.2779	4024.	0.00
7.6000	0.00415	3108.	-30.1897	-0.00188	9379.	6958137.	-90.1354	4341.	0.00
7.8000	0.00379	3100.	-48.0900	-0.00179	9355.	6958137.	-88.8675	4694.	0.00

8.0000	0.00344	3088.	-65.7238	-0.00170	9321.	6958137.	-87.4709	5089.	0.00
8.2000	0.00311	3073.	-83.0651	-0.00161	9276.	6958137.	-85.9418	5532.	0.00
8.4000	0.00279	3055.	-100.0869	-0.00152	9221.	6958137.	-84.2760	6033.	0.00
8.6000	0.00250	3033.	-116.7613	-0.00143	9155.	6958137.	-82.4684	6601.	0.00
8.8000	0.00222	3008.	-133.0595	-0.00135	9080.	6958137.	-80.5138	7252.	0.00
9.0000	0.00196	2980.	-177.2463	-0.00126	8994.	6958137.	-361.3541	36879.	0.00
9.2000	0.00172	2938.	-245.9756	-0.00118	8866.	6958137.	-325.9389	37987.	0.00
9.4000	0.00149	2882.	-307.4550	-0.00109	8698.	6958137.	-288.8553	38791.	0.00
9.6000	0.00128	2815.	-361.4218	-0.00101	8495.	6958137.	-250.8123	39217.	0.00
9.8000	0.00109	2737.	-407.7640	-9.31E-04	8261.	6958137.	-212.6096	39188.	0.00
10.0000	9.07E-04	2651.	-447.5981	-8.53E-04	8002.	6958137.	-185.7323	40964.	0.00
10.2000	7.44E-04	2558.	-483.0463	-7.78E-04	7721.	6958137.	-168.7488	45376.	0.00
10.4000	5.95E-04	2458.	-514.9816	-7.06E-04	7419.	6958137.	-150.6045	50585.	0.00
10.6000	4.61E-04	2352.	-542.8594	-6.37E-04	7099.	6958137.	-128.1738	55575.	0.00
10.8000	3.41E-04	2241.	-565.3196	-5.71E-04	6764.	6958137.	-96.4276	56624.	0.00
11.0000	2.33E-04	2126.	-581.6755	-5.08E-04	6417.	6958137.	-67.1311	57673.	0.00
11.2000	1.37E-04	2008.	-592.4179	-4.49E-04	6062.	6958137.	-40.2930	58721.	0.00
11.4000	5.32E-05	1889.	-598.0375	-3.93E-04	5702.	6958137.	-15.9031	59770.	0.00
11.6000	-1.99E-05	1769.	-599.0213	-3.40E-04	5340.	6958137.	6.0653	60818.	0.00
11.8000	-8.29E-05	1650.	-595.8493	-2.91E-04	4978.	6958137.	25.6546	61867.	0.00
12.0000	-1.36E-04	1531.	-588.9917	-2.46E-04	4620.	6958137.	42.9215	62916.	0.00
12.2000	-1.81E-04	1414.	-578.9060	-2.03E-04	4267.	6958137.	57.9348	63964.	0.00
12.4000	-2.18E-04	1299.	-566.0351	-1.64E-04	3921.	6958137.	70.7747	65013.	0.00
12.6000	-2.47E-04	1188.	-550.8045	-1.28E-04	3584.	6958137.	81.5310	66061.	0.00
12.8000	-2.69E-04	1079.	-533.6212	-9.59E-05	3256.	6958137.	90.3018	67110.	0.00
13.0000	-2.85E-04	974.0825	-514.8718	-6.64E-05	2940.	6958137.	97.1923	68159.	0.00
13.2000	-2.96E-04	873.0520	-494.9212	-3.98E-05	2635.	6958137.	102.3138	69207.	0.00
13.4000	-3.01E-04	776.1140	-474.1116	-1.61E-05	2342.	6958137.	105.7821	70256.	0.00
13.6000	-3.02E-04	683.4073	-452.7617	4.83E-06	2063.	6958137.	107.7170	71304.	0.00
13.8000	-2.99E-04	595.0093	-431.1659	2.32E-05	1796.	6958137.	108.2412	72353.	0.00
14.0000	-2.93E-04	510.9409	-409.5939	3.91E-05	1542.	6958137.	107.4792	73402.	0.00
14.2000	-2.84E-04	431.1718	-388.2902	5.26E-05	1301.	6958137.	105.5573	74450.	0.00
14.4000	-2.72E-04	355.6249	-367.4742	6.39E-05	1073.	6958137.	102.6023	75499.	0.00
14.6000	-2.58E-04	284.1821	-347.3398	7.31E-05	857.6755	6958137.	98.7415	76547.	0.00
14.8000	-2.43E-04	216.6889	-328.0555	8.03E-05	653.9779	6958137.	94.1021	77596.	0.00
15.0000	-2.26E-04	152.9599	-309.7642	8.56E-05	461.6405	6958137.	88.8108	78644.	0.00
15.2000	-2.08E-04	92.7833	-292.5837	8.92E-05	280.0244	6958137.	82.9942	79693.	0.00
15.4000	-1.90E-04	35.9264	-276.6065	9.10E-05	108.4277	6958137.	76.7780	80742.	0.00
15.6000	-1.72E-04	-17.8593	-261.8999	9.13E-05	53.9003	6958137.	70.2875	81790.	0.00
15.8000	-1.54E-04	-68.8336	-234.4573	9.00E-05	207.7431	6958137.	204.1390	265692.	0.00
16.0000	-1.36E-04	-111.6422	-194.4507	8.74E-05	336.9418	6958137.	195.9263	288434.	0.00
16.2000	-1.19E-04	-146.6139	-156.1282	8.37E-05	442.4878	6958137.	187.2986	315620.	0.00
16.4000	-1.02E-04	-174.0935	-119.5700	7.91E-05	525.4229	6958137.	178.2838	348347.	0.00
16.6000	-8.70E-05	-194.4419	-84.8515	7.38E-05	586.8351	6958137.	168.9013	388125.	0.00

16.8000	-7.28E-05	-208.0341	-52.0454	6.80E-05	627.8573	6958137.	159.1601	437092.	0.00
17.0000	-5.98E-05	-215.2600	-21.2240	6.20E-05	649.6653	6958137.	149.0533	498381.	0.00
17.2000	-4.80E-05	-216.5237	7.5364	5.58E-05	653.4793	6958137.	138.5510	576806.	0.00
17.4000	-3.75E-05	-212.2454	34.1499	4.96E-05	640.5672	6958137.	127.5838	680243.	0.00
17.6000	-2.82E-05	-202.8638	58.5095	4.36E-05	612.2529	6958137.	116.0121	822728.	0.00
17.8000	-2.01E-05	-188.8417	80.4664	3.80E-05	569.9334	6958137.	103.5575	1032551.	0.00
18.0000	-1.30E-05	-170.6772	99.7844	3.28E-05	515.1123	6958137.	89.6217	1378695.	0.00
18.2000	-6.92E-06	-148.9279	116.0115	2.82E-05	449.4718	6958137.	72.6495	2098342.	0.00
18.4000	-1.70E-06	-124.2726	127.8302	2.43E-05	375.0609	6958137.	45.5374	5344368.	0.00
18.6000	2.80E-06	-97.7958	127.0118	2.11E-05	295.1527	6958137.	-53.7208	3834723.	0.00
18.8000	6.75E-06	-73.4679	114.4389	1.87E-05	221.7297	6958137.	-72.0082	2134983.	0.00
19.0000	1.03E-05	-52.0203	98.9548	1.69E-05	156.9997	6958137.	-82.8327	1613579.	0.00
19.2000	1.35E-05	-33.8860	81.5992	1.56E-05	102.2695	6958137.	-90.7243	1345129.	0.00
19.4000	1.65E-05	-19.3806	62.8207	1.49E-05	58.4916	6958137.	-97.0599	1175283.	0.00
19.6000	1.94E-05	-8.7577	42.8682	1.45E-05	26.4310	6958137.	-102.4660	1054556.	0.00
19.8000	2.23E-05	-2.2333	21.8941	1.43E-05	6.7403	6958137.	-107.2742	962153.	0.00
20.0000	2.52E-05	0.00	0.00	1.43E-05	0.00	6958137.	-111.6672	443974.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 5:

Pile-head deflection = 0.02969152 meters
Computed slope at pile head = -0.00431860 radians
Maximum bending moment = 3112. kN-m
Maximum shear force = 1000. kN
Depth of maximum bending moment = 7.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 36
Number of zero deflection points = 2

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 6

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 1200.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.05747	-2.90E-08	1200.	-0.00755	8.74E-08	6958137.	0.00	0.00	0.00
0.2000	0.05596	240.0000	1199.	-0.00755	724.3318	6958137.	-6.9087	24.6922	0.00
0.4000	0.05445	479.7237	1197.	-0.00754	1448.	6958137.	-20.1631	74.0612	0.00
0.6000	0.05294	718.6408	1190.	-0.00752	2169.	6958137.	-44.7374	168.9992	0.00
0.8000	0.05144	955.7684	1178.	-0.00749	2885.	6958137.	-72.5179	281.9390	0.00
1.0000	0.04995	1190.	1161.	-0.00746	3591.	6958137.	-103.0667	412.7118	0.00
1.2000	0.04846	1420.	1137.	-0.00743	4286.	6958137.	-135.9944	561.3021	0.00
1.4000	0.04698	1645.	1106.	-0.00738	4964.	6958137.	-170.9516	727.8315	0.00
1.6000	0.04550	1863.	1068.	-0.00733	5621.	6958137.	-207.6230	912.5506	0.00
1.8000	0.04404	2072.	1023.	-0.00728	6254.	6958137.	-245.7233	1116.	0.00
2.0000	0.04259	2272.	969.9634	-0.00721	6856.	6958137.	-284.9943	1338.	0.00
2.2000	0.04116	2460.	908.9437	-0.00714	7425.	6958137.	-325.2022	1580.	0.00
2.4000	0.03974	2635.	839.8098	-0.00707	7954.	6958137.	-366.1367	1843.	0.00
2.6000	0.03833	2796.	792.2088	-0.00699	8439.	6958137.	-109.8740	573.3186	0.00
2.8000	0.03694	2952.	770.0556	-0.00691	8910.	6958137.	-111.6579	604.5618	0.00
3.0000	0.03556	3104.	747.5552	-0.00682	9368.	6958137.	-113.3461	637.4066	0.00
3.2000	0.03421	3251.	724.7268	-0.00673	9813.	6958137.	-114.9371	671.9714	0.00
3.4000	0.03287	3394.	701.5902	-0.00664	10243.	6958137.	-116.4294	708.3854	0.00
3.6000	0.03155	3532.	678.1651	-0.00654	10660.	6958137.	-117.8215	746.7900	0.00
3.8000	0.03026	3665.	654.4718	-0.00643	11062.	6958137.	-119.1119	787.3403	0.00
4.0000	0.02898	3794.	630.5307	-0.00633	11450.	6958137.	-120.2990	830.2066	0.00
4.2000	0.02773	3917.	606.3626	-0.00622	11823.	6958137.	-121.3814	875.5766	0.00
4.4000	0.02649	4036.	581.9888	-0.00610	12182.	6958137.	-122.3573	923.6570	0.00
4.6000	0.02529	4150.	557.4305	-0.00598	12526.	6958137.	-123.2252	974.6767	0.00
4.8000	0.02410	4259.	532.7096	-0.00586	12855.	6958137.	-123.9835	1029.	0.00
5.0000	0.02294	4363.	507.8482	-0.00574	13169.	6958137.	-124.6305	1087.	0.00
5.2000	0.02180	4462.	482.8687	-0.00561	13468.	6958137.	-125.1646	1148.	0.00
5.4000	0.02070	4556.	457.7939	-0.00548	13752.	6958137.	-125.5838	1214.	0.00
5.6000	0.01961	4645.	432.6468	-0.00535	14020.	6958137.	-125.8866	1284.	0.00
5.8000	0.01855	4729.	407.4511	-0.00522	14274.	6958137.	-126.0711	1359.	0.00
6.0000	0.01753	4808.	382.2304	-0.00508	14512.	6958137.	-126.1353	1439.	0.00
6.2000	0.01652	4882.	357.0092	-0.00494	14735.	6958137.	-126.0773	1526.	0.00
6.4000	0.01555	4951.	331.8119	-0.00480	14943.	6958137.	-125.8952	1619.	0.00
6.6000	0.01460	5015.	306.6637	-0.00465	15136.	6958137.	-125.5868	1720.	0.00
6.8000	0.01369	5074.	281.5900	-0.00451	15313.	6958137.	-125.1501	1829.	0.00
7.0000	0.01280	5128.	256.6168	-0.00436	15476.	6958137.	-124.5827	1947.	0.00
7.2000	0.01194	5177.	231.7703	-0.00422	15623.	6958137.	-123.8823	2075.	0.00
7.4000	0.01111	5220.	207.0774	-0.00407	15756.	6958137.	-123.0465	2214.	0.00
7.6000	0.01032	5259.	182.5654	-0.00392	15873.	6958137.	-122.0729	2367.	0.00

7.8000	0.00955	5293.	158.2623	-0.00376	15976.	6958137.	-120.9586	2534.	0.00
8.0000	0.00881	5323.	134.1963	-0.00361	16064.	6958137.	-119.7011	2717.	0.00
8.2000	0.00810	5347.	110.3965	-0.00346	16138.	6958137.	-118.2973	2920.	0.00
8.4000	0.00743	5367.	86.8923	-0.00330	16198.	6958137.	-116.7443	3144.	0.00
8.6000	0.00678	5382.	63.7140	-0.00315	16243.	6958137.	-115.0389	3392.	0.00
8.8000	0.00617	5392.	40.8923	-0.00299	16274.	6958137.	-113.1778	3670.	0.00
9.0000	0.00558	5398.	-28.2497	-0.00284	16292.	6958137.	-578.2429	20709.	0.00
9.2000	0.00503	5381.	-140.1142	-0.00268	16240.	6958137.	-540.4015	21479.	0.00
9.4000	0.00451	5342.	-244.0202	-0.00253	16123.	6958137.	-498.6584	22110.	0.00
9.6000	0.00402	5283.	-339.2436	-0.00238	15946.	6958137.	-453.5754	22566.	0.00
9.8000	0.00356	5207.	-425.1867	-0.00223	15714.	6958137.	-405.8557	22803.	0.00
10.0000	0.00313	5113.	-503.0113	-0.00208	15432.	6958137.	-372.3909	23801.	0.00
10.2000	0.00273	5005.	-575.5537	-0.00193	15106.	6958137.	-353.0324	25880.	0.00
10.4000	0.00236	4883.	-644.0409	-0.00179	14738.	6958137.	-331.8399	28169.	0.00
10.6000	0.00201	4748.	-708.1163	-0.00165	14329.	6958137.	-308.9139	30709.	0.00
10.8000	0.00170	4600.	-767.4437	-0.00152	13883.	6958137.	-284.3603	33552.	0.00
11.0000	0.00140	4441.	-821.7082	-0.00139	13402.	6958137.	-258.2845	36776.	0.00
11.2000	0.00114	4271.	-870.6147	-0.00126	12891.	6958137.	-230.7811	40497.	0.00
11.4000	8.99E-04	4092.	-913.8862	-0.00114	12351.	6958137.	-201.9331	44903.	0.00
11.6000	6.83E-04	3906.	-951.8341	-0.00103	11788.	6958137.	-177.5466	52019.	0.00
11.8000	4.88E-04	3712.	-984.6356	-9.18E-04	11202.	6958137.	-150.4684	61632.	0.00
12.0000	3.15E-04	3512.	-1010.	-8.15E-04	10599.	6958137.	-99.1780	62916.	0.00
12.2000	1.62E-04	3308.	-1025.	-7.17E-04	9983.	6958137.	-51.9559	63964.	0.00
12.4000	2.86E-05	3102.	-1031.	-6.24E-04	9362.	6958137.	-9.3128	65013.	0.00
12.6000	-8.73E-05	2896.	-1029.	-5.38E-04	8739.	6958137.	28.8434	66061.	0.00
12.8000	-1.87E-04	2690.	-1020.	-4.58E-04	8120.	6958137.	62.6301	67110.	0.00
13.0000	-2.71E-04	2488.	-1004.	-3.84E-04	7508.	6958137.	92.1877	68159.	0.00
13.2000	-3.40E-04	2289.	-983.2719	-3.15E-04	6907.	6958137.	117.6760	69207.	0.00
13.4000	-3.96E-04	2094.	-957.5771	-2.52E-04	6321.	6958137.	139.2720	70256.	0.00
13.6000	-4.41E-04	1906.	-927.9333	-1.94E-04	5751.	6958137.	157.1669	71304.	0.00
13.8000	-4.74E-04	1723.	-895.0602	-1.42E-04	5201.	6958137.	171.5639	72353.	0.00
14.0000	-4.98E-04	1548.	-859.6362	-9.53E-05	4671.	6958137.	182.6756	73402.	0.00
14.2000	-5.12E-04	1379.	-822.2965	-5.32E-05	4163.	6958137.	190.7219	74450.	0.00
14.4000	-5.19E-04	1219.	-783.6315	-1.59E-05	3678.	6958137.	195.9281	75499.	0.00
14.6000	-5.19E-04	1066.	-744.1864	1.70E-05	3217.	6958137.	198.5228	76547.	0.00
14.8000	-5.12E-04	921.0284	-704.4604	4.55E-05	2780.	6958137.	198.7368	77596.	0.00
15.0000	-5.00E-04	784.1111	-664.9066	7.00E-05	2366.	6958137.	196.8010	78644.	0.00
15.2000	-4.84E-04	655.0658	-625.9319	9.07E-05	1977.	6958137.	192.9459	79693.	0.00
15.4000	-4.64E-04	533.7383	-587.8974	1.08E-04	1611.	6958137.	187.4000	80742.	0.00
15.6000	-4.41E-04	419.9068	-551.1184	1.22E-04	1267.	6958137.	180.3893	81790.	0.00
15.8000	-4.16E-04	313.2909	-504.6379	1.32E-04	945.5275	6958137.	284.4156	136872.	0.00
16.0000	-3.88E-04	218.0517	-448.3919	1.40E-04	658.0907	6958137.	278.0443	143217.	0.00
16.2000	-3.60E-04	133.9342	-393.4823	1.45E-04	404.2199	6958137.	271.0523	150701.	0.00
16.4000	-3.30E-04	60.6588	-340.0295	1.48E-04	183.0711	6958137.	263.4752	159494.	0.00

16.6000	-3.01E-04	-2.0776	-288.1484	1.48E-04	6.2704	6958137.	255.3366	169823.	0.00
16.8000	-2.71E-04	-54.6006	-237.9500	1.48E-04	164.7872	6958137.	246.6467	182001.	0.00
17.0000	-2.42E-04	-97.2577	-189.5453	1.45E-04	293.5284	6958137.	237.4000	196455.	0.00
17.2000	-2.13E-04	-130.4187	-143.0483	1.42E-04	393.6101	6958137.	227.5701	213794.	0.00
17.4000	-1.85E-04	-154.4770	-98.5811	1.38E-04	466.2191	6958137.	217.1026	234908.	0.00
17.6000	-1.58E-04	-169.8511	-56.2806	1.33E-04	512.6191	6958137.	205.9019	261162.	0.00
17.8000	-1.31E-04	-176.9892	-16.3094	1.28E-04	534.1622	6958137.	193.8097	294769.	0.00
18.0000	-1.06E-04	-176.3749	21.1277	1.23E-04	532.3082	6958137.	180.5622	339611.	0.00
18.2000	-8.22E-05	-168.5381	55.7543	1.18E-04	508.6564	6958137.	165.7037	403251.	0.00
18.4000	-5.90E-05	-154.0732	87.1622	1.14E-04	465.0005	6958137.	148.3752	502951.	0.00
18.6000	-3.67E-05	-133.6732	114.6662	1.10E-04	403.4324	6958137.	126.6648	690166.	0.00
18.8000	-1.52E-05	-108.2067	136.7697	1.06E-04	326.5732	6958137.	94.3703	1243531.	0.00
19.0000	5.73E-06	-78.9654	139.3891	1.03E-04	238.3213	6958137.	-68.1768	2380489.	0.00
19.2000	2.62E-05	-52.4511	121.2552	1.02E-04	158.3000	6958137.	-113.1615	864495.	0.00
19.4000	4.63E-05	-30.4633	96.2511	1.00E-04	91.9396	6958137.	-136.8800	590890.	0.00
19.6000	6.63E-05	-13.9506	67.1376	9.97E-05	42.1037	6958137.	-154.2547	465286.	0.00
19.8000	8.62E-05	-3.6082	34.8766	9.94E-05	10.8898	6958137.	-168.3554	390615.	0.00
20.0000	1.06E-04	0.00	0.00	9.94E-05	0.00	6958137.	-180.4107	170079.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 6:

Pile-head deflection = 0.05746819 meters
Computed slope at pile head = -0.00754966 radians
Maximum bending moment = 5398. kN-m
Maximum shear force = 1200. kN
Depth of maximum bending moment = 9.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 43
Number of zero deflection points = 2

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 7

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 1400.000 kN
Applied moment at pile head = 0.000 kN-m

Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.09096	4.83E-08	1400.	-0.01125	1.46E-07	6958137.	0.00	0.00	0.00
0.2000	0.08871	280.0000	1399.	-0.01125	845.0538	6958137.	-6.9086	15.5756	0.00
0.4000	0.08646	559.7237	1397.	-0.01124	1689.	6958137.	-12.6608	29.2864	0.00
0.6000	0.08422	838.9409	1394.	-0.01122	2532.	6958137.	-18.5663	44.0921	0.00
0.8000	0.08198	1117.	1390.	-0.01119	3372.	6958137.	-24.5056	59.7880	0.00
1.0000	0.07974	1395.	1384.	-0.01115	4210.	6958137.	-30.4002	76.2479	0.00
1.2000	0.07751	1671.	1377.	-0.01111	5044.	6958137.	-44.6925	115.3151	0.00
1.4000	0.07530	1946.	1365.	-0.01106	5872.	6958137.	-73.8734	196.2194	0.00
1.6000	0.07309	2217.	1347.	-0.01100	6692.	6958137.	-105.1823	287.8123	0.00
1.8000	0.07090	2485.	1323.	-0.01093	7498.	6958137.	-138.3314	390.2274	0.00
2.0000	0.06872	2746.	1292.	-0.01085	8289.	6958137.	-173.0590	503.6714	0.00
2.2000	0.06656	3001.	1253.	-0.01077	9058.	6958137.	-209.1280	628.4272	0.00
2.4000	0.06441	3248.	1208.	-0.01068	9802.	6958137.	-246.3237	764.8587	0.00
2.6000	0.06228	3484.	1170.	-0.01059	10516.	6958137.	-129.1740	414.7958	0.00
2.8000	0.06018	3716.	1144.	-0.01048	11215.	6958137.	-131.3824	436.6598	0.00
3.0000	0.05809	3942.	1118.	-0.01037	11897.	6958137.	-133.4855	459.5785	0.00
3.2000	0.05603	4163.	1091.	-0.01026	12564.	6958137.	-135.4815	483.6260	0.00
3.4000	0.05399	4378.	1064.	-0.01013	13214.	6958137.	-137.3686	508.8832	0.00
3.6000	0.05197	4588.	1036.	-0.01000	13848.	6958137.	-139.1452	535.4381	0.00
3.8000	0.04999	4793.	1008.	-0.00987	14465.	6958137.	-140.8095	563.3870	0.00
4.0000	0.04803	4992.	979.6683	-0.00973	15065.	6958137.	-142.3598	592.8351	0.00
4.2000	0.04610	5185.	951.0529	-0.00958	15648.	6958137.	-143.7942	623.8975	0.00
4.4000	0.04419	5372.	922.1624	-0.00943	16213.	6958137.	-145.1110	656.7007	0.00
4.6000	0.04232	5554.	893.0204	-0.00927	16761.	6958137.	-146.3084	691.3839	0.00
4.8000	0.04048	5729.	863.6511	-0.00911	17291.	6958137.	-147.3844	728.1003	0.00
5.0000	0.03868	5899.	834.0790	-0.00894	17804.	6958137.	-148.3372	767.0192	0.00
5.2000	0.03691	6063.	804.3288	-0.00877	18298.	6958137.	-149.1649	808.3277	0.00
5.4000	0.03517	6221.	774.4257	-0.00860	18775.	6958137.	-149.8654	852.2337	0.00
5.6000	0.03347	6373.	744.3955	-0.00841	19233.	6958137.	-150.4369	898.9679	0.00
5.8000	0.03180	6519.	714.2641	-0.00823	19673.	6958137.	-150.8772	948.7878	0.00
6.0000	0.03018	6658.	684.0579	-0.00804	20095.	6958137.	-151.1842	1002.	0.00
6.2000	0.02859	6792.	653.8039	-0.00785	20499.	6958137.	-151.3559	1059.	0.00
6.4000	0.02704	6920.	623.5294	-0.00765	20885.	6958137.	-151.3899	1120.	0.00
6.6000	0.02553	7042.	593.2620	-0.00745	21252.	6958137.	-151.2840	1185.	0.00
6.8000	0.02406	7157.	563.0300	-0.00724	21601.	6958137.	-151.0360	1256.	0.00
7.0000	0.02263	7267.	532.8620	-0.00704	21932.	6958137.	-150.6434	1331.	0.00
7.2000	0.02124	7370.	502.7873	-0.00683	22244.	6958137.	-150.1037	1413.	0.00
7.4000	0.01990	7468.	472.8355	-0.00661	22538.	6958137.	-149.4146	1502.	0.00

7.6000	0.01860	7559.	443.0367	-0.00640	22815.	6958137.	-148.5733	1598.	0.00
7.8000	0.01734	7645.	413.4217	-0.00618	23073.	6958137.	-147.5772	1702.	0.00
8.0000	0.01613	7725.	384.0216	-0.00596	23314.	6958137.	-146.4236	1816.	0.00
8.2000	0.01496	7799.	354.8683	-0.00574	23537.	6958137.	-145.1098	1940.	0.00
8.4000	0.01383	7867.	325.9940	-0.00551	23742.	6958137.	-143.6329	2077.	0.00
8.6000	0.01275	7929.	297.4317	-0.00528	23930.	6958137.	-141.9901	2227.	0.00
8.8000	0.01172	7986.	269.2148	-0.00505	24101.	6958137.	-140.1785	2392.	0.00
9.0000	0.01073	8037.	177.6681	-0.00482	24255.	6958137.	-775.2889	14450.	0.00
9.2000	0.00979	8057.	26.2564	-0.00459	24316.	6958137.	-738.8277	15095.	0.00
9.4000	0.00889	8047.	-117.3018	-0.00436	24287.	6958137.	-696.7548	15668.	0.00
9.6000	0.00804	8010.	-251.9196	-0.00413	24174.	6958137.	-649.4235	16146.	0.00
9.8000	0.00724	7947.	-376.5962	-0.00390	23983.	6958137.	-597.3425	16498.	0.00
10.0000	0.00648	7859.	-492.3966	-0.00367	23720.	6958137.	-560.6608	17294.	0.00
10.2000	0.00577	7750.	-602.4929	-0.00345	23389.	6958137.	-540.3029	18723.	0.00
10.4000	0.00510	7618.	-708.2554	-0.00323	22992.	6958137.	-517.3216	20271.	0.00
10.6000	0.00448	7466.	-809.1688	-0.00301	22534.	6958137.	-491.8131	21956.	0.00
10.8000	0.00390	7295.	-904.7393	-0.00280	22015.	6958137.	-463.8918	23795.	0.00
11.0000	0.00336	7104.	-994.4973	-0.00259	21441.	6958137.	-433.6879	25815.	0.00
11.2000	0.00286	6897.	-1078.	-0.00239	20815.	6958137.	-401.3435	28050.	0.00
11.4000	0.00240	6673.	-1155.	-0.00220	20140.	6958137.	-367.0312	30547.	0.00
11.6000	0.00198	6435.	-1225.	-0.00201	19421.	6958137.	-339.5316	34247.	0.00
11.8000	0.00160	6183.	-1290.	-0.00183	18661.	6958137.	-309.5805	38707.	0.00
12.0000	0.00125	5919.	-1349.	-0.00165	17863.	6958137.	-276.9165	44239.	0.00
12.2000	9.38E-04	5643.	-1401.	-0.00149	17032.	6958137.	-241.0901	51391.	0.00
12.4000	6.57E-04	5358.	-1445.	-0.00133	16172.	6958137.	-201.2769	61269.	0.00
12.6000	4.07E-04	5065.	-1479.	-0.00118	15287.	6958137.	-134.3036	66061.	0.00
12.8000	1.85E-04	4767.	-1498.	-0.00104	14387.	6958137.	-62.1764	67110.	0.00
13.0000	-8.61E-06	4466.	-1504.	-9.05E-04	13479.	6958137.	2.9325	68159.	0.00
13.2000	-1.77E-04	4165.	-1498.	-7.81E-04	12571.	6958137.	61.1908	69207.	0.00
13.4000	-3.21E-04	3867.	-1480.	-6.66E-04	11670.	6958137.	112.8018	70256.	0.00
13.6000	-4.43E-04	3573.	-1453.	-5.59E-04	10784.	6958137.	158.0006	71304.	0.00
13.8000	-5.45E-04	3286.	-1418.	-4.60E-04	9916.	6958137.	197.0484	72353.	0.00
14.0000	-6.27E-04	3006.	-1375.	-3.70E-04	9072.	6958137.	230.2289	73402.	0.00
14.2000	-6.93E-04	2736.	-1326.	-2.87E-04	8256.	6958137.	257.8432	74450.	0.00
14.4000	-7.42E-04	2475.	-1272.	-2.13E-04	7471.	6958137.	280.2065	75499.	0.00
14.6000	-7.78E-04	2227.	-1215.	-1.45E-04	6720.	6958137.	297.6437	76547.	0.00
14.8000	-8.00E-04	1990.	-1154.	-8.44E-05	6004.	6958137.	310.4861	77596.	0.00
15.0000	-8.11E-04	1765.	-1091.	-3.04E-05	5327.	6958137.	319.0680	78644.	0.00
15.2000	-8.12E-04	1553.	-1027.	1.73E-05	4687.	6958137.	323.7239	79693.	0.00
15.4000	-8.05E-04	1354.	-961.8027	5.91E-05	4087.	6958137.	324.7859	80742.	0.00
15.6000	-7.89E-04	1168.	-897.0660	9.53E-05	3526.	6958137.	322.5810	81790.	0.00
15.8000	-7.66E-04	995.4718	-829.9305	1.26E-04	3004.	6958137.	348.7743	91019.	0.00
16.0000	-7.38E-04	836.4612	-760.6079	1.53E-04	2524.	6958137.	344.4515	93318.	0.00
16.2000	-7.05E-04	691.2286	-692.2379	1.75E-04	2086.	6958137.	339.2482	96203.	0.00

16.4000	-6.68E-04	559.5660	-624.9910	1.93E-04	1689.	6958137.	333.2212	99714.	0.00
16.6000	-6.28E-04	441.2323	-559.0277	2.07E-04	1332.	6958137.	326.4116	103919.	0.00
16.8000	-5.86E-04	335.9549	-494.5020	2.18E-04	1014.	6958137.	318.8457	108909.	0.00
17.0000	-5.41E-04	243.4315	-431.5640	2.27E-04	734.6882	6958137.	310.5335	114818.	0.00
17.2000	-4.95E-04	163.3293	-370.3640	2.32E-04	492.9360	6958137.	301.4669	121829.	0.00
17.4000	-4.48E-04	95.2859	-311.0557	2.36E-04	287.5775	6958137.	291.6157	130200.	0.00
17.6000	-4.00E-04	38.9070	-253.8020	2.38E-04	117.4234	6958137.	280.9219	140302.	0.00
17.8000	-3.53E-04	-6.2349	-198.7809	2.39E-04	18.8173	6958137.	269.2883	152687.	0.00
18.0000	-3.05E-04	-40.6053	-146.1959	2.38E-04	122.5489	6958137.	256.5621	168212.	0.00
18.2000	-2.58E-04	-64.7133	-96.2893	2.36E-04	195.3078	6958137.	242.5034	188284.	0.00
18.4000	-2.11E-04	-79.1211	-49.3664	2.34E-04	238.7913	6958137.	226.7264	215404.	0.00
18.6000	-1.64E-04	-84.4598	-5.8362	2.32E-04	254.9039	6958137.	208.5750	254535.	0.00
18.8000	-1.18E-04	-81.4556	33.7025	2.30E-04	245.8369	6958137.	186.8123	317311.	0.00
19.0000	-7.21E-05	-70.9788	68.2461	2.27E-04	214.2176	6958137.	158.6240	440163.	0.00
19.2000	-2.68E-05	-54.1571	95.5187	2.26E-04	163.4488	6958137.	114.1020	851151.	0.00
19.4000	1.81E-05	-32.7713	96.9191	2.24E-04	98.9055	6958137.	-100.0983	1103538.	0.00
19.6000	6.29E-05	-15.3895	71.7539	2.24E-04	46.4462	6958137.	-151.5541	481847.	0.00
19.8000	1.08E-04	-4.0698	38.4737	2.23E-04	12.2828	6958137.	-181.2479	336951.	0.00
20.0000	1.52E-04	0.00	0.00	2.23E-04	0.00	6958137.	-203.4887	133669.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 7:

Pile-head deflection = 0.09096178 meters
Computed slope at pile head = -0.01125357 radians
Maximum bending moment = 8057. kN-m
Maximum shear force = -1504. kN
Depth of maximum bending moment = 9.20000000 meters below pile head
Depth of maximum shear force = 13.00000000 meters below pile head
Number of iterations = 34
Number of zero deflection points = 2

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 8

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 5700.000 kN

Applied moment at pile head = 0.000 kN-m

Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.9534	4.25E-07	5700.	-0.09082	1.28E-06	6958137.	0.00	0.00	0.00
0.2000	0.9352	1140.	5699.	-0.09081	3441.	6958137.	-6.9086	1.4775	0.00
0.4000	0.9170	2280.	5697.	-0.09076	6880.	6958137.	-12.6608	2.7612	0.00
0.6000	0.8989	3419.	5694.	-0.09068	10319.	6958137.	-18.5663	4.1310	0.00
0.8000	0.8808	4557.	5690.	-0.09056	13755.	6958137.	-24.5056	5.5646	0.00
1.0000	0.8627	5695.	5684.	-0.09041	17188.	6958137.	-30.4001	7.0480	0.00
1.2000	0.8446	6831.	5678.	-0.09023	20617.	6958137.	-36.2003	8.5722	0.00
1.4000	0.8266	7966.	5670.	-0.09002	24042.	6958137.	-41.8768	10.1327	0.00
1.6000	0.8086	9099.	5661.	-0.08978	27462.	6958137.	-47.4144	11.7277	0.00
1.8000	0.7907	10230.	5651.	-0.08950	30876.	6958137.	-52.8083	13.3581	0.00
2.0000	0.7728	11360.	5640.	-0.08919	34284.	6958137.	-58.0606	15.0263	0.00
2.2000	0.7550	12486.	5628.	-0.08884	37685.	6958137.	-63.1780	16.7363	0.00
2.4000	0.7372	13611.	5615.	-0.08847	41078.	6958137.	-68.1702	18.4931	0.00
2.6000	0.7196	14732.	5583.	-0.08806	44463.	6958137.	-249.7209	69.4060	0.00
2.8000	0.7020	15844.	5532.	-0.08762	47818.	6958137.	-256.9209	73.1943	0.00
3.0000	0.6845	16945.	5480.	-0.08715	51141.	6958137.	-264.1209	77.1668	0.00
3.2000	0.6672	18036.	5427.	-0.08665	54433.	6958137.	-271.3209	81.3356	0.00
3.4000	0.6499	19116.	5372.	-0.08612	57692.	6958137.	-278.5209	85.7138	0.00
3.6000	0.6327	20185.	5315.	-0.08555	60918.	6958137.	-285.7209	90.3154	0.00
3.8000	0.6157	21242.	5257.	-0.08496	64109.	6958137.	-292.9209	95.1558	0.00
4.0000	0.5987	22287.	5198.	-0.08433	67265.	6958137.	-300.1209	100.2515	0.00
4.2000	0.5819	23321.	5137.	-0.08367	70384.	6958137.	-307.3209	105.6206	0.00
4.4000	0.5653	24342.	5075.	-0.08299	73466.	6958137.	-314.5210	111.2824	0.00
4.6000	0.5487	25351.	5011.	-0.08227	76511.	6958137.	-321.7210	117.2584	0.00
4.8000	0.5324	26347.	4946.	-0.08153	79516.	6958137.	-328.9210	123.5717	0.00
5.0000	0.5161	27330.	4880.	-0.08076	82482.	6958137.	-336.1210	130.2477	0.00
5.2000	0.5001	28299.	4812.	-0.07996	85407.	6958137.	-343.3210	137.3141	0.00
5.4000	0.4841	29254.	4743.	-0.07913	88291.	6958137.	-350.5210	144.8011	0.00
5.6000	0.4684	30196.	4672.	-0.07828	91133.	6958137.	-357.7210	152.7421	0.00
5.8000	0.4528	31123.	4599.	-0.07740	93931.	6958137.	-364.9210	161.1737	0.00
6.0000	0.4374	32036.	4526.	-0.07649	96685.	6958137.	-368.6259	168.5381	0.00
6.2000	0.4222	32934.	4452.	-0.07556	99395.	6958137.	-371.3529	175.8994	0.00
6.4000	0.4072	33816.	4378.	-0.07460	102060.	6958137.	-373.8614	183.6180	0.00
6.6000	0.3924	34685.	4303.	-0.07361	104680.	6958137.	-376.1478	191.7193	0.00
6.8000	0.3778	35538.	4227.	-0.07260	107254.	6958137.	-378.2082	200.2313	0.00
7.0000	0.3634	36375.	4151.	-0.07157	109783.	6958137.	-380.0384	209.1843	0.00
7.2000	0.3491	37198.	4075.	-0.07051	112266.	6958137.	-381.6344	218.6119	0.00

7.4000	0.3351	38005.	3999.	-0.06943	114702.	6958137.	-382.9918	228.5511	0.00
7.6000	0.3214	38798.	3922.	-0.06833	117093.	6958137.	-384.1059	239.0425	0.00
7.8000	0.3078	39574.	3845.	-0.06720	119437.	6958137.	-384.9721	250.1311	0.00
8.0000	0.2945	40336.	3768.	-0.06605	121735.	6958137.	-385.5853	261.8668	0.00
8.2000	0.2814	41081.	3691.	-0.06488	123986.	6958137.	-385.9402	274.3051	0.00
8.4000	0.2685	41812.	3614.	-0.06369	126190.	6958137.	-386.0314	287.5079	0.00
8.6000	0.2559	42527.	3536.	-0.06248	128348.	6958137.	-385.8530	301.5443	0.00
8.8000	0.2435	43226.	3459.	-0.06125	130460.	6958137.	-385.3988	316.4918	0.00
9.0000	0.2314	43911.	3244.	-0.06000	132525.	6958137.	-1769.	1529.	0.00
9.2000	0.2195	44524.	2885.	-0.05872	134376.	6958137.	-1822.	1660.	0.00
9.4000	0.2079	45065.	2515.	-0.05744	136007.	6958137.	-1873.	1802.	0.00
9.6000	0.1966	45530.	2135.	-0.05613	137412.	6958137.	-1923.	1956.	0.00
9.8000	0.1855	45919.	1746.	-0.05482	138585.	6958137.	-1970.	2124.	0.00
10.0000	0.1746	46229.	1346.	-0.05350	139520.	6958137.	-2036.	2332.	0.00
10.2000	0.1641	46457.	929.5285	-0.05216	140209.	6958137.	-2124.	2589.	0.00
10.4000	0.1538	46600.	495.7379	-0.05083	140642.	6958137.	-2214.	2879.	0.00
10.6000	0.1437	46655.	43.9062	-0.04949	140808.	6958137.	-2305.	3207.	0.00
10.8000	0.1340	46618.	-426.2664	-0.04815	140695.	6958137.	-2397.	3578.	0.00
11.0000	0.1245	46485.	-915.0759	-0.04681	140293.	6958137.	-2491.	4002.	0.00
11.2000	0.1153	46252.	-1423.	-0.04548	139591.	6958137.	-2586.	4488.	0.00
11.4000	0.1063	45916.	-1950.	-0.04415	138576.	6958137.	-2683.	5048.	0.00
11.6000	0.09760	45472.	-2497.	-0.04284	137237.	6958137.	-2790.	5717.	0.00
11.8000	0.08916	44917.	-3066.	-0.04154	135561.	6958137.	-2899.	6502.	0.00
12.0000	0.08098	44246.	-3657.	-0.04026	133536.	6958137.	-3009.	7432.	0.00
12.2000	0.07306	43454.	-4270.	-0.03900	131147.	6958137.	-3122.	8547.	0.00
12.4000	0.06539	42538.	-4906.	-0.03776	128381.	6958137.	-3237.	9902.	0.00
12.6000	0.05796	41492.	-5565.	-0.03655	125224.	6958137.	-3354.	11575.	0.00
12.8000	0.05076	40312.	-6221.	-0.03538	121663.	6958137.	-3210.	12646.	0.00
13.0000	0.04380	39003.	-6840.	-0.03424	117714.	6958137.	-2976.	13588.	0.00
13.2000	0.03707	37576.	-7411.	-0.03314	113405.	6958137.	-2732.	14740.	0.00
13.4000	0.03055	36039.	-7932.	-0.03208	108767.	6958137.	-2478.	16222.	0.00
13.6000	0.02424	34403.	-8401.	-0.03107	103830.	6958137.	-2213.	18264.	0.00
13.8000	0.01812	32679.	-8814.	-0.03010	98626.	6958137.	-1915.	21136.	0.00
14.0000	0.01220	30878.	-9161.	-0.02919	93190.	6958137.	-1554.	25476.	0.00
14.2000	0.00645	29014.	-9425.	-0.02833	87567.	6958137.	-1088.	33739.	0.00
14.4000	8.66E-04	27108.	-9566.	-0.02752	81812.	6958137.	-326.7366	75499.	0.00
14.6000	-0.00456	25188.	-9505.	-0.02677	76018.	6958137.	936.3669	41061.	0.00
14.8000	-0.00984	23305.	-9258.	-0.02607	70337.	6958137.	1540.	31286.	0.00
15.0000	-0.01499	21485.	-8899.	-0.02543	64842.	6958137.	2047.	27317.	0.00
15.2000	-0.02001	19746.	-8443.	-0.02484	59594.	6958137.	2512.	25103.	0.00
15.4000	-0.02492	18108.	-7896.	-0.02429	54650.	6958137.	2953.	23697.	0.00
15.6000	-0.02973	16587.	-7262.	-0.02379	50061.	6958137.	3393.	22822.	0.00
15.8000	-0.03444	15203.	-6799.	-0.02334	45883.	6958137.	1240.	7200.	0.00
16.0000	-0.03907	13868.	-6545.	-0.02292	41854.	6958137.	1293.	6620.	0.00

16.2000	-0.04361	12585.	-6282.	-0.02254	37981.	6958137.	1342.	6152.	0.00
16.4000	-0.04808	11355.	-6009.	-0.02220	34270.	6958137.	1386.	5765.	0.00
16.6000	-0.05249	10181.	-5728.	-0.02189	30727.	6958137.	1427.	5437.	0.00
16.8000	-0.05684	9064.	-5439.	-0.02161	27356.	6958137.	1465.	5156.	0.00
17.0000	-0.06113	8006.	-5142.	-0.02136	24161.	6958137.	1501.	4912.	0.00
17.2000	-0.06538	7007.	-4838.	-0.02115	21148.	6958137.	1535.	4697.	0.00
17.4000	-0.06959	6070.	-4528.	-0.02096	18321.	6958137.	1568.	4505.	0.00
17.6000	-0.07377	5196.	-4211.	-0.02080	15682.	6958137.	1598.	4334.	0.00
17.8000	-0.07791	4386.	-3889.	-0.02066	13237.	6958137.	1628.	4179.	0.00
18.0000	-0.08203	3641.	-3560.	-0.02055	10988.	6958137.	1656.	4037.	0.00
18.2000	-0.08613	2962.	-3226.	-0.02045	8939.	6958137.	1683.	3908.	0.00
18.4000	-0.09021	2350.	-2887.	-0.02037	7093.	6958137.	1709.	3790.	0.00
18.6000	-0.09428	1807.	-2543.	-0.02031	5453.	6958137.	1735.	3680.	0.00
18.8000	-0.09834	1333.	-2193.	-0.02027	4023.	6958137.	1759.	3578.	0.00
19.0000	-0.1024	929.5163	-1839.	-0.02024	2805.	6958137.	1783.	3483.	0.00
19.2000	-0.1064	597.3377	-1480.	-0.02021	1803.	6958137.	1806.	3394.	0.00
19.4000	-0.1105	337.4047	-1117.	-0.02020	1018.	6958137.	1829.	3311.	0.00
19.6000	-0.1145	150.6202	-748.8485	-0.02019	454.5793	6958137.	1851.	3232.	0.00
19.8000	-0.1186	37.8653	-376.5506	-0.02019	114.2793	6958137.	1872.	3159.	0.00
20.0000	-0.1226	0.00	0.00	-0.02019	0.00	6958137.	1893.	1544.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 8:

Pile-head deflection = 0.95335379 meters
Computed slope at pile head = -0.09082312 radians
Maximum bending moment = 46655. kN-m
Maximum shear force = -9566. kN
Depth of maximum bending moment = 10.60000000 meters below pile head
Depth of maximum shear force = 14.40000000 meters below pile head
Number of iterations = 63
Number of zero deflection points = 1

Summary of Pile-head Responses for Conventional Analyses

Definitions of Pile-head Loading Conditions:

Load Type 1: Load 1 = Shear, V, kN, and Load 2 = Moment, M, kN-m
Load Type 2: Load 1 = Shear, V, kN, and Load 2 = Slope, S, radians

Load Type 3: Load 1 = Shear, V, kN, and Load 2 = Rot. Stiffness, R, kN-m/rad.

Load Type 4: Load 1 = Top Deflection, y, m, and Load 2 = Moment, M, kN-m

Load Type 5: Load 1 = Top Deflection, y, m, and Load 2 = Slope, S, radians

Load Case No.	Load Type 1	Pile-head Load 1	Load Type 2	Pile-head Load 2	Axial Pile-head Loading kN	Pile-head Deflection meters	Pile-head Rotation radians	Max Shear in Pile kN	Max Moment in Pile kN-m
1	V, kN	100.0000	M, kN-m	0.00	0.00	4.16E-04	-1.17E-04	100.0000	157.5449
2	V, kN	400.0000	M, kN-m	0.00	0.00	0.00374	-7.63E-04	400.0000	714.9068
3	V, kN	600.0000	M, kN-m	0.00	0.00	0.00792	-0.00143	600.0000	1193.
4	V, kN	800.0000	M, kN-m	0.00	0.00	0.01549	-0.00250	800.0000	1893.
5	V, kN	1000.0000	M, kN-m	0.00	0.00	0.02969	-0.00432	1000.	3112.
6	V, kN	1200.	M, kN-m	0.00	0.00	0.05747	-0.00755	1200.	5398.
7	V, kN	1400.	M, kN-m	0.00	0.00	0.09096	-0.01125	-1504.	8057.
8	V, kN	5700.	M, kN-m	0.00	0.00	0.9534	-0.09082	-9566.	46655.

Maximum pile-head deflection = 0.9533537931 meters

Maximum pile-head rotation = -0.0908231184 radians = -5.203781 deg.

Summary of Warning Messages

The following warning was reported 1323 times

**** Warning ****

An unreasonable input value for shear strength has been specified for a soil defined using the soft clay criteria. The input value is greater than 59.85 kPa. Please check your input data for correctness.

The analysis ended normally.

Opera IV01 (Sp. B) – D800

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LPile for Windows, Version 2016-09.009

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method
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Files Used for Analysis

Path to file locations:
\m9159\Work\07_Pali\IV01\LPILE\

Name of input data file:
IV01_SpB_D800.lp9d

Name of output report file:
IV01_SpB_D800.lp9o

Name of plot output file:
IV01_SpB_D800.lp9p

Name of runtime message file:
IV01_SpB_D800.lp9r

Date and Time of Analysis

Date: June 10, 2019 Time: 15:29:54

Problem Title

Project Name: VI02 - Spalle e pila
Job Number:
Client:
Engineer:
Description:

Program Options and Settings

Computational Options:
- Use unfactored loads in computations (conventional analysis)

Engineering Units Used for Data Input and Computations:
- International System Units (kilonewtons, meters, millimeters)

Analysis Control Options:
- Maximum number of iterations allowed = 500
- Deflection tolerance for convergence = 2.5400E-07 m
- Maximum allowable deflection = 2.5400 m
- Number of pile increments = 100

Loading Type and Number of Cycles of Loading:
- Static loading specified

- Use of p-y modification factors for p-y curves not selected
- No distributed lateral loads are entered
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected

- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:
- Output files use decimal points to denote decimal symbols.
- Values of pile-head deflection, bending moment, shear force, and soil reaction are printed for full length of pile.
- Printing Increment (nodal spacing of output points) = 1
- p-y curves computed and reported at user-specified depths
- Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined = 1
Total length of pile = 20.000 m
Depth of ground surface below top of pile = 0.0000 m

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point	Depth Below Pile Head meters	Pile Diameter millimeters
1	0.000	800.00
2	20.000	800.00

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is an elastic pile
Cross-sectional Shape = Circular Pile
Length of section = 20.000000 m

Width of top of section = 0.800000 m
Width of bottom of section = 0.800000 m
Top Area = 0.502655 sq. m
Bottom Area = 0.502655 sq. m
Moment of Inertia at Top = 0.020106 m^4
Moment of Inertia at Bottom = 0.020106 m^4
Elastic Modulus = 28000000. kPa

Ground Slope and Pile Batter Angles

Ground Slope Angle = 0.000 degrees
= 0.000 radians

Pile Batter Angle = 0.000 degrees
= 0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 4 layers

Layer 1 is stiff clay with water-induced erosion

Distance from top of pile to top of layer = 0.0000 m
Distance from top of pile to bottom of layer = 2.100000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 80.000000 kPa
Undrained cohesion at bottom of layer = 80.000000 kPa
Epsilon-50 at top of layer = 0.007000
Epsilon-50 at bottom of layer = 0.007000
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 2 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 2.100000 m
Distance from top of pile to bottom of layer = 8.500000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 45.000000 kPa
Undrained cohesion at bottom of layer = 45.000000 kPa
Epsilon-50 at top of layer = 0.015000
Epsilon-50 at bottom of layer = 0.015000

Layer 3 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer = 8.500000 m
Distance from top of pile to bottom of layer = 15.400000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Friction angle at top of layer = 36.000000 deg.
Friction angle at bottom of layer = 36.000000 deg.
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 4 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 15.400000 m
Distance from top of pile to bottom of layer = 20.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 150.000000 kPa
Undrained cohesion at bottom of layer = 150.000000 kPa
Epsilon-50 at top of layer = 0.005000
Epsilon-50 at bottom of layer = 0.005000

(Depth of the lowest soil layer extends 0.000 m below the pile tip)

Summary of Input Soil Properties

Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth m	Effective Unit Wt. kN/m3	Undrained Cohesion kPa	Angle of Friction deg.	E50 or krm	kpy kN/m3
1	Stiff Clay	0.00	9.0000	80.0000	--	0.00700	default
	with Free Water	2.1000	9.0000	80.0000	--	0.00700	default
2	Soft	2.1000	9.0000	45.0000	--	0.01500	--
	Clay	8.5000	9.0000	45.0000	--	0.01500	--
3	Sand	8.5000	9.0000	--	36.0000	--	default
	(Reese, et al.)	15.4000	9.0000	--	36.0000	--	default
4	Soft	15.4000	9.0000	150.0000	--	0.00500	--
	Clay	20.0000	9.0000	150.0000	--	0.00500	--

Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 11

Load No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, kN	Compute Top y vs. Pile Length
1	1	V = 50.000000 kN	M = 0.0000 m-kN	0.0000000	No
2	1	V = 75.000000 kN	M = 0.0000 m-kN	0.0000000	No
3	1	V = 100.000000 kN	M = 0.0000 m-kN	0.0000000	No
4	1	V = 125.000000 kN	M = 0.0000 m-kN	0.0000000	No
5	1	V = 150.000000 kN	M = 0.0000 m-kN	0.0000000	No
6	1	V = 200.000000 kN	M = 0.0000 m-kN	0.0000000	No
7	1	V = 300.000000 kN	M = 0.0000 m-kN	0.0000000	No
8	1	V = 400.000000 kN	M = 0.0000 m-kN	0.0000000	No
9	1	V = 450.000000 kN	M = 0.0000 m-kN	0.0000000	No
10	1	V = 470.000000 kN	M = 0.0000 m-kN	0.0000000	No
11	1	V = 1700. kN	M = 0.0000 m-kN	0.0000000	No

V = shear force applied normal to pile axis

M = bending moment applied to pile head

y = lateral deflection normal to pile axis

S = pile slope relative to original pile batter angle

R = rotational stiffness applied to pile head

Values of top y vs. pile lengths can be computed only for load types with specified shear loading (Load Types 1, 2, and 3).

Thrust force is assumed to be acting axially for all pile batter angles.

Specified Depths for Output of p-y Curves

Lateral load-transfer (p-y) curves are computed and output at 8 depths.
(Note that load-transfer values are computeded at the specified depths and may differ from values computed at nodal points)

Depth No.	Depth Below Pile Head m	Depth Below Ground Surface m
1	0.200	0.200
2	1.900	1.900
3	2.300	2.300
4	8.300	8.300
5	8.700	8.700
6	15.200	15.200
7	15.600	15.600
8	19.800	19.800

Depth of ground surface below top of pile = 0.0000 m

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

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Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Moment-curvature properties were derived from elastic section properties

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Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head meters	Equivalent Top Depth Below Grnd Surf meters	Same Layer Type As Layer Above	Layer is Rock or is Below Rock Layer	F0 Integral for Layer kN	F1 Integral for Layer kN
1	0.00	0.00	N.A.	No	0.00	60.8180
2	2.1000	0.5252	No	No	60.8180	1473.
3	8.5000	5.0691	No	No	1534.	20626.
4	15.4000	15.4000	No	No	22160.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals for Layer n. Layering correction equivalent depths are computed only for soil types with both shallow-depth and deep-depth expressions for peak lateral load transfer. These soil types are soft and stiff clays, non-liquefied sands, and cemented c-phi soil.

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p-y Curves Reported for Specified Depths

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p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 0.200 m
Depth of p-y curve below ground surface = 0.200 m
Equivalent depth of p-y curve = 0.200 m
Pile diameter = 800.000 mm
Undrained cohesion at curve depth = 80.000 kPa

Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.006 m
As = 0.30366
Ac (not used) = 0.23383
pct = 174.720 kN/m
pcd = 704.000 kN/m
pc = 174.720 kN/m
pu = 6.317 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00085026	23.08008
0.00170	46.16015
0.00255	54.91936
0.00340	58.47120
0.00425	60.16449
0.00510	60.52600
0.00595	59.85385
0.00680	58.33995
0.00765	56.11775
0.00850	53.28508
0.00935	49.91658
0.01020	46.07088
0.01701	32.84541
0.02381	19.58135
0.03061	6.31728
0.03231	6.31728

p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 1.900 m

Depth of p-y curve below ground surface = 1.900 m
Equivalent depth of p-y curve = 1.900 m
Pile diameter = 800.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.006 m
As = 0.58621
Ac (not used) = 0.30000
pct = 571.840 kN/m
pcd = 704.000 kN/m
pc = 571.840 kN/m
pu = 49.785 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00164	154.79454
0.00328	218.91253
0.00492	254.88840
0.00657	278.13788
0.00821	293.92140
0.00985	304.36365
0.01149	310.67838
0.01313	313.64875
0.01477	313.81922
0.01641	311.58845
0.01806	307.25987
0.01970	301.07144
0.03283	217.39339
0.04596	133.58900
0.05909	49.78462
0.06237	49.78462

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 2.100 m
Depth of p-y curve below pile head = 2.300 m
Depth of p-y curve below ground surface = 2.300 m
Equiv. depth of p-y curve below ground surface = 0.725 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 7.273 m
Static pu_s for flat ground = 140.877 kN/m
Static pu_d for flat ground = 324.000 kN/m
y_50 = 0.03000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 140.877 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00007111	9.39180
0.00056889	18.78360
0.00192	28.17539
0.00455	37.56719
0.00889	46.95899
0.01536	56.35079
0.02439	65.74259
0.03641	75.13439
0.05184	84.52618
0.07111	93.91798
0.09465	103.30978
0.12288	112.70158
0.15623	122.09338

0.19513	131.48517
0.24000	140.87697
0.25500	140.87697

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 2.100 m
Depth of p-y curve below pile head = 8.300 m
Depth of p-y curve below ground surface = 8.300 m
Equiv. depth of p-y curve below ground surface = 8.300 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 7.273 m
Static pu_s for flat ground = 354.510 kN/m
Static pu_d for flat ground = 324.000 kN/m
y_50 = 0.03000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 324.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00007111	21.60000
0.00056889	43.20000
0.00192	64.80000
0.00455	86.40000
0.00889	108.00000
0.01536	129.60000
0.02439	151.20000
0.03641	172.80000
0.05184	194.40000
0.07111	216.00000

0.09465	237.60000
0.12288	259.20000
0.15623	280.80000
0.19513	302.40000
0.24000	324.00000
0.25500	324.00000

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 8.500 m
Depth of p-y curve below pile head = 8.700 m
Depth of p-y curve below ground surface = 8.700 m
Equiv. depth of p-y curve below ground surface = 5.269 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 800.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3
K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 1563.306 kN/m
Psd = 3833.609 kN/m
Ps = Pst (shallow controls) = 1563.306 kN/m
A (static) = 0.8800
B (static) = 0.5000
C = Pm/(Ym^(1/n)) = 10790.7406
n = Pm/(m Ym) = 1.6447
m = (Pu-Pm)/(Yu-Ym) = 35643.3773
Yk = [c/(kx)]^(n/(n-1)) = 0.0004 m
Pk = 95.044 kN/m
Ym = b/60 = 0.0133 m
Pm = B ps = 781.653 kN/m
Yu = 3b/80 = 0.0300 m
Pu = A Ps = 1375.709 kN/m
Maximum Es value = 228069.029 kN/m/m
p-multiplier = 1.00000

y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters	p, kN/m
0.00000	0.00000
0.00041673	95.04425
0.00159	214.61589
0.00277	300.34587
0.00394	372.45658
0.00511	436.47686
0.00629	494.92950
0.00746	549.22794
0.00864	600.26249
0.00981	648.63865
0.01098	694.79126
0.01216	739.04564
0.01333	781.65301
0.02167	1078.68116
0.03000	1375.70930
0.03600	1375.70930
0.04200	1375.70930

The above p-y curve was computed using internal default values of k.

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 8.500 m
Depth of p-y curve below pile head = 15.200 m
Depth of p-y curve below ground surface = 15.200 m
Equiv. depth of p-y curve below ground surface = 11.769 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 800.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3

K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 5615.647 kN/m
Psd = 6697.800 kN/m
Ps = Pst (shallow controls) = 5615.647 kN/m
A (static) = 0.8800
B (static) = 0.5000
C = Pm/(Ym^(1/n)) = 38762.0808
n = Pm/(m Ym) = 1.6447
m = (Pu-Pm)/(Yu-Ym) = 128036.7602
Yk = [c/(kx)]^(n/(n-1)) = 0.0026 m
Pk = 1044.239 kN/m
Ym = b/60 = 0.0133 m
Pm = B ps = 2807.824 kN/m
Yu = 3b/80 = 0.0300 m
Pu = A Ps = 4941.770 kN/m
Maximum Es value = 398465.430 kN/m/m
p-multiplier = 1.00000
y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters	p, kN/m
0.00000	0.00000
0.00262	1044.23902
0.00359	1265.42849
0.00457	1464.01104
0.00554	1646.53224
0.00652	1816.83109
0.00749	1977.39700
0.00846	2129.95768
0.00944	2275.77260
0.01041	2415.79490
0.01139	2550.76739
0.01236	2681.28285
0.01333	2807.82369
0.02167	3874.79669
0.03000	4941.76969
0.03600	4941.76969
0.04200	4941.76969

The above p-y curve was computed using internal default values of k.

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 4
Depth of top of Layer 4 below pile head = 15.400 m
Depth of p-y curve below pile head = 15.600 m
Depth of p-y curve below ground surface = 15.600 m
Equiv. depth of p-y curve below ground surface = 15.600 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 150.000 kPa
Epsilon_50 = 0.0050
J (default value) = 0.5000
Transition depth Xr = 8.759 m
Static pu_s for flat ground = 1642.320 kN/m
Static pu_d for flat ground = 1080.000 kN/m
y_50 = 0.01000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 1080.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00002370	72.00000
0.00018963	144.00000
0.00064000	216.00000
0.00152	288.00000
0.00296	360.00000
0.00512	432.00000
0.00813	504.00000

0.01214	576.00000
0.01728	648.00000
0.02370	720.00000
0.03155	792.00000
0.04096	864.00000
0.05208	936.00000
0.06504	1008.00000
0.08000	1080.00000
0.08500	1080.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 4
Depth of top of Layer 4 below pile head = 15.400 m
Depth of p-y curve below pile head = 19.800 m
Depth of p-y curve below ground surface = 19.800 m
Equiv. depth of p-y curve below ground surface = 19.800 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 800.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 150.000 kPa
Epsilon_50 = 0.0050
J (default value) = 0.5000
Transition depth Xr = 8.759 m
Static pu_s for flat ground = 1987.560 kN/m
Static pu_d for flat ground = 1080.000 kN/m
y_50 = 0.01000 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 1080.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00002370	72.00000
0.00018963	144.00000
0.00064000	216.00000
0.00152	288.00000

0.00296	360.00000
0.00512	432.00000
0.00813	504.00000
0.01214	576.00000
0.01728	648.00000
0.02370	720.00000
0.03155	792.00000
0.04096	864.00000
0.05208	936.00000
0.06504	1008.00000
0.08000	1080.00000
0.08500	1080.00000

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 1

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 50.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	5.16E-04	-9.16E-12	50.0000	-2.55E-04	1.82E-10	562973.	0.00	0.00	0.00
0.2000	4.65E-04	10.0000	48.7379	-2.53E-04	198.9437	562973.	-12.6214	5429.	0.00
0.4000	4.15E-04	19.4951	45.2239	-2.47E-04	387.8435	562973.	-22.5180	10858.	0.00
0.6000	3.66E-04	28.0896	39.9919	-2.39E-04	558.8242	562973.	-29.8024	16287.	0.00
0.8000	3.19E-04	35.4919	33.5462	-2.28E-04	706.0887	562973.	-34.6539	21716.	0.00
1.0000	2.75E-04	41.5081	26.3502	-2.14E-04	825.7766	562973.	-37.3063	27145.	0.00
1.2000	2.34E-04	46.0320	18.8161	-1.99E-04	915.7770	562973.	-38.0346	32574.	0.00
1.4000	1.95E-04	49.0345	11.2986	-1.82E-04	975.5104	562973.	-37.1401	38003.	0.00
1.6000	1.61E-04	50.5514	4.0911	-1.64E-04	1006.	562973.	-34.9354	43432.	0.00
1.8000	1.30E-04	50.6709	-2.5755	-1.46E-04	1008.	562973.	-31.7305	48860.	0.00
2.0000	1.02E-04	49.5212	-8.5306	-1.28E-04	985.1935	562973.	-27.8203	54289.	0.00
2.2000	7.86E-05	47.2587	-12.2635	-1.11E-04	940.1821	562973.	-9.5086	24191.	0.00

2.4000	5.81E-05	44.6158	-14.1111	-9.47E-05	887.6040	562973.	-8.9682	30873.	0.00
2.6000	4.07E-05	41.6143	-15.8379	-7.93E-05	827.8892	562973.	-8.2992	40733.	0.00
2.8000	2.64E-05	38.2807	-17.4144	-6.52E-05	761.5701	562973.	-7.4655	56643.	0.00
3.0000	1.47E-05	34.6485	-18.7993	-5.22E-05	689.3102	562973.	-6.3843	86924.	0.00
3.2000	5.48E-06	30.7610	-19.9162	-4.06E-05	611.9697	562973.	-4.7841	174572.	0.00
3.4000	-1.54E-06	26.6820	-20.0792	-3.04E-05	530.8222	562973.	3.1539	409082.	0.00
3.6000	-6.67E-06	22.7293	-19.2232	-2.16E-05	452.1845	562973.	5.4057	162115.	0.00
3.8000	-1.02E-05	18.9927	-18.0385	-1.42E-05	377.8485	562973.	6.4417	126541.	0.00
4.0000	-1.23E-05	15.5139	-16.6851	-8.06E-06	308.6386	562973.	7.0928	114920.	0.00
4.2000	-1.34E-05	12.3187	-15.2240	-3.11E-06	245.0731	562973.	7.5179	112172.	0.00
4.4000	-1.36E-05	9.4243	-13.6942	7.48E-07	187.4900	562973.	7.7797	114496.	0.00
4.6000	-1.31E-05	6.8410	-12.1253	3.64E-06	136.0979	562973.	7.9097	120713.	0.00
4.8000	-1.21E-05	4.5742	-10.5417	5.67E-06	91.0001	562973.	7.9265	130645.	0.00
5.0000	-1.08E-05	2.6244	-8.9648	6.94E-06	52.2100	562973.	7.8420	144701.	0.00
5.2000	-9.36E-06	0.9882	-7.4142	7.59E-06	19.6604	562973.	7.6644	163822.	0.00
5.4000	-7.80E-06	-0.3413	-5.9078	7.70E-06	6.7900	562973.	7.3996	189618.	0.00
5.6000	-6.28E-06	-1.3749	-4.4626	7.40E-06	27.3520	562973.	7.0522	224704.	0.00
5.8000	-4.85E-06	-2.1263	-3.0948	6.77E-06	42.3021	562973.	6.6254	273403.	0.00
6.0000	-3.57E-06	-2.6128	-1.8201	5.93E-06	51.9799	562973.	6.1215	343189.	0.00
6.2000	-2.47E-06	-2.8544	-0.6539	4.96E-06	56.7863	562973.	5.5413	447990.	0.00
6.4000	-1.58E-06	-2.8743	0.3886	3.94E-06	57.1831	562973.	4.8834	616930.	0.00
6.6000	-8.97E-07	-2.6989	1.2911	2.95E-06	53.6938	562973.	4.1418	923863.	0.00
6.8000	-4.02E-07	-2.3579	2.0359	2.05E-06	46.9086	562973.	3.3059	1645189.	0.00
7.0000	-7.47E-08	-1.8846	2.3709	1.30E-06	37.4926	562973.	0.04390	117578.	0.00
7.2000	1.19E-07	-1.4095	2.3681	7.16E-07	28.0417	562973.	-0.07122	120068.	0.00
7.4000	2.12E-07	-0.9373	2.1215	2.99E-07	18.6475	562973.	-2.3948	2261435.	0.00
7.6000	2.38E-07	-0.5609	1.6416	3.32E-08	11.1590	562973.	-2.4043	2017369.	0.00
7.8000	2.25E-07	-0.2807	1.1791	-1.16E-07	5.5838	562973.	-2.2208	1973439.	0.00
8.0000	1.92E-07	-0.08926	0.7626	-1.82E-07	1.7758	562973.	-1.9441	2026859.	0.00
8.2000	1.52E-07	0.02439	0.4053	-1.94E-07	0.4852	562973.	-1.6297	2140705.	0.00
8.4000	1.14E-07	0.07285	0.1109	-1.76E-07	1.4492	562973.	-1.3137	2296466.	0.00
8.6000	8.17E-08	0.06876	-0.02229	-1.51E-07	1.3679	562973.	-0.01843	45090.	0.00
8.8000	5.40E-08	0.06393	-0.02538	-1.28E-07	1.2719	562973.	-0.01245	46138.	0.00
9.0000	3.07E-08	0.05861	-0.02734	-1.06E-07	1.1660	562973.	-0.00725	47187.	0.00
9.2000	1.16E-08	0.05299	-0.02835	-8.60E-08	1.0543	562973.	-0.00281	48235.	0.00
9.4000	-3.66E-09	0.04727	-0.02854	-6.82E-08	0.9404	562973.	9.02E-04	49284.	0.00
9.6000	-1.56E-08	0.04158	-0.02806	-5.24E-08	0.8272	562973.	0.00393	50332.	0.00
9.8000	-2.46E-08	0.03604	-0.02703	-3.86E-08	0.7171	562973.	0.00632	51381.	0.00
10.0000	-3.10E-08	0.03076	-0.02559	-2.67E-08	0.6120	562973.	0.00814	52430.	0.00
10.2000	-3.53E-08	0.02581	-0.02383	-1.67E-08	0.5135	562973.	0.00944	53478.	0.00
10.4000	-3.77E-08	0.02123	-0.02186	-8.31E-09	0.4224	562973.	0.01028	54527.	0.00
10.6000	-3.86E-08	0.01707	-0.01976	-1.51E-09	0.3395	562973.	0.01073	55575.	0.00
10.8000	-3.83E-08	0.01333	-0.01760	3.89E-09	0.2652	562973.	0.01085	56624.	0.00
11.0000	-3.71E-08	0.01003	-0.01544	8.04E-09	0.1995	562973.	0.01069	57673.	0.00

11.2000	-3.51E-08	0.00715	-0.01334	1.11E-08	0.1423	562973.	0.01031	58721.	0.00
11.4000	-3.26E-08	0.00469	-0.01134	1.32E-08	0.09331	562973.	0.00975	59770.	0.00
11.6000	-2.98E-08	0.00262	-0.00946	1.45E-08	0.05208	562973.	0.00907	60818.	0.00
11.8000	-2.68E-08	9.08E-04	-0.00772	1.51E-08	0.01807	562973.	0.00830	61867.	0.00
12.0000	-2.38E-08	-4.69E-04	-0.00614	1.52E-08	0.00934	562973.	0.00748	62916.	0.00
12.2000	-2.08E-08	-0.00155	-0.00473	1.48E-08	0.03079	562973.	0.00664	63964.	0.00
12.4000	-1.78E-08	-0.00236	-0.00348	1.41E-08	0.04696	562973.	0.00580	65013.	0.00
12.6000	-1.51E-08	-0.00294	-0.00240	1.32E-08	0.05852	562973.	0.00499	66061.	0.00
12.8000	-1.26E-08	-0.00332	-0.00148	1.21E-08	0.06610	562973.	0.00422	67110.	0.00
13.0000	-1.03E-08	-0.00354	-7.13E-04	1.09E-08	0.07033	562973.	0.00350	68159.	0.00
13.2000	-8.22E-09	-0.00361	-7.87E-05	9.60E-09	0.07177	562973.	0.00284	69207.	0.00
13.4000	-6.43E-09	-0.00357	4.31E-04	8.33E-09	0.07096	562973.	0.00226	70256.	0.00
13.6000	-4.89E-09	-0.00344	8.31E-04	7.08E-09	0.06834	562973.	0.00174	71304.	0.00
13.8000	-3.59E-09	-0.00323	0.00114	5.90E-09	0.06434	562973.	0.00130	72353.	0.00
14.0000	-2.53E-09	-0.00298	0.00136	4.79E-09	0.05931	562973.	9.28E-04	73402.	0.00
14.2000	-1.67E-09	-0.00269	0.00151	3.79E-09	0.05353	562973.	6.23E-04	74450.	0.00
14.4000	-1.01E-09	-0.00238	0.00161	2.89E-09	0.04726	562973.	3.82E-04	75499.	0.00
14.6000	-5.19E-10	-0.00205	0.00167	2.10E-09	0.04069	562973.	1.99E-04	76547.	0.00
14.8000	-1.72E-10	-0.00171	0.00170	1.44E-09	0.03396	562973.	6.66E-05	77596.	0.00
15.0000	5.47E-11	-0.00137	0.00170	8.90E-10	0.02717	562973.	-2.15E-05	78644.	0.00
15.2000	1.84E-10	-0.00103	0.00169	4.65E-10	0.02041	562973.	-7.34E-05	79693.	0.00
15.4000	2.41E-10	-6.88E-04	0.00152	1.60E-10	0.01370	562973.	-0.00163	1358277.	0.00
15.6000	2.48E-10	-4.17E-04	0.00119	-3.59E-11	0.00829	562973.	-0.00169	1358277.	0.00
15.8000	2.26E-10	-2.12E-04	8.68E-04	-1.48E-10	0.00422	562973.	-0.00154	1358277.	0.00
16.0000	1.89E-10	-6.93E-05	5.86E-04	-1.98E-10	0.00138	562973.	-0.00129	1358277.	0.00
16.2000	1.47E-10	2.22E-05	3.57E-04	-2.06E-10	4.41E-04	562973.	-0.00100	1358277.	0.00
16.4000	1.07E-10	7.36E-05	1.85E-04	-1.89E-10	0.00146	562973.	-7.26E-04	1358277.	0.00
16.6000	7.17E-11	9.61E-05	6.35E-05	-1.59E-10	0.00191	562973.	-4.87E-04	1358277.	0.00
16.8000	4.34E-11	9.90E-05	-1.47E-05	-1.24E-10	0.00197	562973.	-2.95E-04	1358277.	0.00
17.0000	2.21E-11	9.02E-05	-5.91E-05	-9.06E-11	0.00179	562973.	-1.50E-04	1358277.	0.00
17.2000	7.14E-12	7.54E-05	-7.89E-05	-6.11E-11	0.00150	562973.	-4.85E-05	1358277.	0.00
17.4000	-2.41E-12	5.86E-05	-8.22E-05	-3.73E-11	0.00117	562973.	1.63E-05	1358277.	0.00
17.6000	-7.79E-12	4.25E-05	-7.52E-05	-1.94E-11	8.46E-04	562973.	5.29E-05	1358277.	0.00
17.8000	-1.02E-11	2.85E-05	-6.30E-05	-6.76E-12	5.67E-04	562973.	6.90E-05	1358277.	0.00
18.0000	-1.05E-11	1.73E-05	-4.90E-05	1.37E-12	3.44E-04	562973.	7.13E-05	1358277.	0.00
18.2000	-9.61E-12	8.92E-06	-3.54E-05	6.03E-12	1.77E-04	562973.	6.53E-05	1358277.	0.00
18.4000	-8.09E-12	3.15E-06	-2.33E-05	8.18E-12	6.28E-05	562973.	5.49E-05	1358277.	0.00
18.6000	-6.34E-12	-4.14E-07	-1.35E-05	8.66E-12	8.23E-06	562973.	4.31E-05	1358277.	0.00
18.8000	-4.62E-12	-2.26E-06	-6.09E-06	8.19E-12	4.49E-05	562973.	3.14E-05	1358277.	0.00
19.0000	-3.07E-12	-2.85E-06	-8.68E-07	7.28E-12	5.67E-05	562973.	2.08E-05	1358277.	0.00
19.2000	-1.71E-12	-2.61E-06	2.38E-06	6.31E-12	5.19E-05	562973.	1.16E-05	1358277.	0.00
19.4000	0.00	-1.90E-06	3.90E-06	5.51E-12	3.78E-05	562973.	3.67E-06	1358277.	0.00
19.6000	0.00	-1.04E-06	3.94E-06	4.99E-12	2.08E-05	562973.	-3.36E-06	1358277.	0.00
19.8000	1.45E-12	-3.25E-07	2.61E-06	4.74E-12	6.46E-06	562973.	-9.88E-06	1358277.	0.00

20.0000	2.39E-12	0.00	0.00	4.69E-12	0.00	562973.	-1.62E-05	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 1:

Pile-head deflection = 0.00051587 meters
Computed slope at pile head = -0.00025451 radians
Maximum bending moment = 50.67093781 kN-m
Maximum shear force = 50.00000000 kN
Depth of maximum bending moment = 1.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 10
Number of zero deflection points = 6

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 2

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 75.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	8.24E-04	-3.36E-11	75.0000	-3.97E-04	6.68E-10	562973.	0.00	0.00	0.00
0.2000	7.45E-04	15.0000	72.9778	-3.95E-04	298.4155	562973.	-20.2224	5429.	0.00
0.4000	6.67E-04	29.1911	67.3366	-3.87E-04	580.7385	562973.	-36.1895	10858.	0.00
0.6000	5.90E-04	41.9346	59.3641	-3.74E-04	834.2629	562973.	-43.5347	14750.	0.00
0.8000	5.17E-04	52.9368	50.2267	-3.57E-04	1053.	562973.	-47.8397	18508.	0.00
1.0000	4.47E-04	62.0253	40.3319	-3.37E-04	1234.	562973.	-51.1088	22847.	0.00
1.2000	3.82E-04	69.0695	29.8864	-3.14E-04	1374.	562973.	-53.3454	27913.	0.00
1.4000	3.22E-04	73.9799	19.0955	-2.88E-04	1472.	562973.	-54.5643	33893.	0.00
1.6000	2.67E-04	76.7077	8.1601	-2.61E-04	1526.	562973.	-54.7898	41044.	0.00
1.8000	2.17E-04	77.2439	-2.6308	-2.34E-04	1537.	562973.	-53.1190	48860.	0.00
2.0000	1.73E-04	75.6554	-12.6488	-2.07E-04	1505.	562973.	-47.0612	54289.	0.00

2.2000	1.35E-04	72.1844	-18.4932	-1.81E-04	1436.	562973.	-11.3821	16901.	0.00
2.4000	1.01E-04	68.2581	-20.7107	-1.56E-04	1358.	562973.	-10.7933	21345.	0.00
2.6000	7.24E-05	63.9001	-22.7960	-1.32E-04	1271.	562973.	-10.0591	27777.	0.00
2.8000	4.83E-05	59.1397	-24.7159	-1.10E-04	1177.	562973.	-9.1403	37879.	0.00
3.0000	2.83E-05	54.0137	-26.4252	-9.02E-05	1075.	562973.	-7.9529	56210.	0.00
3.2000	1.22E-05	48.5696	-27.8456	-7.20E-05	966.2620	562973.	-6.2511	102717.	0.00
3.4000	-5.03E-07	42.8755	-28.2817	-5.58E-05	852.9806	562973.	1.8901	751048.	0.00
3.6000	-1.01E-05	37.2569	-27.4733	-4.15E-05	741.2033	562973.	6.1937	122263.	0.00
3.8000	-1.71E-05	31.8861	-26.0891	-2.92E-05	634.3547	562973.	7.6486	89389.	0.00
4.0000	-2.18E-05	26.8213	-24.4671	-1.88E-05	533.5927	562973.	8.5711	78530.	0.00
4.2000	-2.46E-05	22.0993	-22.6894	-1.01E-05	439.6514	562973.	9.2063	74730.	0.00
4.4000	-2.59E-05	17.7455	-20.8045	-3.05E-06	353.0362	562973.	9.6427	74522.	0.00
4.6000	-2.59E-05	13.7775	-18.8479	2.55E-06	274.0944	562973.	9.9233	76753.	0.00
4.8000	-2.49E-05	10.2064	-16.8483	6.81E-06	203.0494	562973.	10.0725	81040.	0.00
5.0000	-2.31E-05	7.0382	-14.8305	9.88E-06	140.0198	562973.	10.1054	87368.	0.00
5.2000	-2.09E-05	4.2742	-12.8167	1.19E-05	85.0319	562973.	10.0326	95970.	0.00
5.4000	-1.84E-05	1.9115	-10.8273	1.30E-05	38.0276	562973.	9.8614	107311.	0.00
5.6000	-1.57E-05	-0.05676	-8.8814	1.33E-05	1.1292	562973.	9.5975	122149.	0.00
5.8000	-1.31E-05	-1.6411	-6.9972	1.30E-05	32.6486	562973.	9.2453	141650.	0.00
6.0000	-1.05E-05	-2.8556	-5.1918	1.22E-05	56.8108	562973.	8.8085	167625.	0.00
6.2000	-8.17E-06	-3.7178	-3.4819	1.10E-05	73.9634	562973.	8.2899	202966.	0.00
6.4000	-6.09E-06	-4.2484	-1.8838	9.63E-06	84.5191	562973.	7.6913	252511.	0.00
6.6000	-4.32E-06	-4.4713	-0.4134	8.08E-06	88.9543	562973.	7.0128	324910.	0.00
6.8000	-2.86E-06	-4.4138	0.9130	6.50E-06	87.8089	562973.	6.2508	437220.	0.00
7.0000	-1.72E-06	-4.1061	2.0773	4.99E-06	81.6892	562973.	5.3926	628661.	0.00
7.2000	-8.64E-07	-3.5828	3.0562	3.62E-06	71.2782	562973.	4.3963	1018187.	0.00
7.4000	-2.66E-07	-2.8837	3.5139	2.48E-06	57.3688	562973.	0.1807	135828.	0.00
7.6000	1.26E-07	-2.1773	3.5234	1.58E-06	43.3156	562973.	-0.08591	135828.	0.00
7.8000	3.64E-07	-1.4743	3.1525	9.28E-07	29.3308	562973.	-3.6232	1988751.	0.00
8.0000	4.97E-07	-0.9163	2.3863	5.03E-07	18.2292	562973.	-4.0387	1623632.	0.00
8.2000	5.66E-07	-0.5198	1.5602	2.48E-07	10.3415	562973.	-4.2219	1493110.	0.00
8.4000	5.97E-07	-0.2922	0.7079	1.04E-07	5.8136	562973.	-4.3015	1441996.	0.00
8.6000	6.07E-07	-0.2367	0.2640	9.58E-09	4.7086	562973.	-0.1368	45090.	0.00
8.8000	6.00E-07	-0.1866	0.2365	-6.56E-08	3.7126	562973.	-0.1385	46138.	0.00
9.0000	5.81E-07	-0.1421	0.2089	-1.24E-07	2.8267	562973.	-0.1370	47187.	0.00
9.2000	5.51E-07	-0.1030	0.1819	-1.68E-07	2.0499	562973.	-0.1328	48235.	0.00
9.4000	5.14E-07	-0.06931	0.1560	-1.98E-07	1.3788	562973.	-0.1266	49284.	0.00
9.6000	4.72E-07	-0.04064	0.1315	-2.18E-07	0.8085	562973.	-0.1187	50332.	0.00
9.8000	4.27E-07	-0.01671	0.1087	-2.28E-07	0.3325	562973.	-0.1096	51381.	0.00
10.0000	3.80E-07	0.00282	0.08772	-2.30E-07	0.05617	562973.	-0.09973	52430.	0.00
10.2000	3.34E-07	0.01837	0.06880	-2.27E-07	0.3655	562973.	-0.08943	53478.	0.00
10.4000	2.90E-07	0.03035	0.05196	-2.18E-07	0.6037	562973.	-0.07901	54527.	0.00
10.6000	2.47E-07	0.03916	0.03719	-2.06E-07	0.7790	562973.	-0.06872	55575.	0.00
10.8000	2.08E-07	0.04522	0.02444	-1.91E-07	0.8996	562973.	-0.05877	56624.	0.00

11.0000	1.71E-07	0.04893	0.01363	-1.74E-07	0.9735	562973.	-0.04933	57673.	0.00
11.2000	1.38E-07	0.05067	0.00464	-1.56E-07	1.0081	562973.	-0.04053	58721.	0.00
11.4000	1.09E-07	0.05079	-0.00266	-1.38E-07	1.0104	562973.	-0.03246	59770.	0.00
11.6000	8.28E-08	0.04961	-0.00842	-1.20E-07	0.9869	562973.	-0.02517	60818.	0.00
11.8000	6.05E-08	0.04742	-0.01281	-1.03E-07	0.9434	562973.	-0.01871	61867.	0.00
12.0000	4.15E-08	0.04449	-0.01599	-8.67E-08	0.8850	562973.	-0.01307	62916.	0.00
12.2000	2.58E-08	0.04103	-0.01812	-7.16E-08	0.8162	562973.	-0.00824	63964.	0.00
12.4000	1.29E-08	0.03724	-0.01936	-5.77E-08	0.7408	562973.	-0.00420	65013.	0.00
12.6000	2.72E-09	0.03328	-0.01987	-4.51E-08	0.6621	562973.	-8.97E-04	66061.	0.00
12.8000	-5.13E-09	0.02929	-0.01979	-3.40E-08	0.5827	562973.	0.00172	67110.	0.00
13.0000	-1.09E-08	0.02537	-0.01925	-2.43E-08	0.5047	562973.	0.00371	68159.	0.00
13.2000	-1.49E-08	0.02159	-0.01836	-1.60E-08	0.4296	562973.	0.00514	69207.	0.00
13.4000	-1.73E-08	0.01802	-0.01724	-8.93E-09	0.3586	562973.	0.00607	70256.	0.00
13.6000	-1.84E-08	0.01470	-0.01598	-3.12E-09	0.2924	562973.	0.00657	71304.	0.00
13.8000	-1.85E-08	0.01163	-0.01465	1.56E-09	0.2314	562973.	0.00670	72353.	0.00
14.0000	-1.78E-08	0.00884	-0.01332	5.19E-09	0.1758	562973.	0.00653	73402.	0.00
14.2000	-1.64E-08	0.00630	-0.01206	7.88E-09	0.1254	562973.	0.00612	74450.	0.00
14.4000	-1.46E-08	0.00401	-0.01089	9.72E-09	0.07984	562973.	0.00553	75499.	0.00
14.6000	-1.26E-08	0.00195	-0.00986	1.08E-08	0.03869	562973.	0.00481	76547.	0.00
14.8000	-1.03E-08	6.91E-05	-0.00898	1.11E-08	0.00137	562973.	0.00401	77596.	0.00
15.0000	-8.11E-09	-0.00165	-0.00826	1.09E-08	0.03275	562973.	0.00319	78644.	0.00
15.2000	-6.00E-09	-0.00323	-0.00770	9.98E-09	0.06435	562973.	0.00239	79693.	0.00
15.4000	-4.11E-09	-0.00473	-0.00467	8.57E-09	0.09404	562973.	0.02795	1358277.	0.00
15.6000	-2.57E-09	-0.00510	-1.28E-04	6.83E-09	0.1015	562973.	0.01745	1358277.	0.00
15.8000	-1.38E-09	-0.00478	0.00256	5.07E-09	0.09505	562973.	0.00941	1358277.	0.00
16.0000	-5.41E-10	-0.00408	0.00386	3.50E-09	0.08114	562973.	0.00367	1358277.	0.00
16.2000	1.39E-11	-0.00323	0.00422	2.20E-09	0.06430	562973.	-9.44E-05	1358277.	0.00
16.4000	3.39E-10	-0.00239	0.00398	1.20E-09	0.04754	562973.	-0.00230	1358277.	0.00
16.6000	4.94E-10	-0.00164	0.00342	4.84E-10	0.03260	562973.	-0.00335	1358277.	0.00
16.8000	5.33E-10	-0.00102	0.00272	1.17E-11	0.02034	562973.	-0.00362	1358277.	0.00
17.0000	4.99E-10	-5.51E-04	0.00202	-2.68E-10	0.01096	562973.	-0.00339	1358277.	0.00
17.2000	4.25E-10	-2.14E-04	0.00139	-4.04E-10	0.00427	562973.	-0.00289	1358277.	0.00
17.4000	3.37E-10	6.28E-06	8.75E-04	-4.41E-10	1.25E-04	562973.	-0.00229	1358277.	0.00
17.6000	2.49E-10	1.35E-04	4.76E-04	-4.15E-10	0.00269	562973.	-0.00169	1358277.	0.00
17.8000	1.71E-10	1.97E-04	1.91E-04	-3.56E-10	0.00392	562973.	-0.00116	1358277.	0.00
18.0000	1.07E-10	2.12E-04	2.54E-06	-2.84E-10	0.00421	562973.	-7.24E-04	1358277.	0.00
18.2000	5.74E-11	1.98E-04	-1.09E-04	-2.11E-10	0.00394	562973.	-3.90E-04	1358277.	0.00
18.4000	2.22E-11	1.68E-04	-1.63E-04	-1.46E-10	0.00335	562973.	-1.51E-04	1358277.	0.00
18.6000	-1.00E-12	1.33E-04	-1.77E-04	-9.26E-11	0.00264	562973.	6.79E-06	1358277.	0.00
18.8000	-1.48E-11	9.73E-05	-1.67E-04	-5.17E-11	0.00194	562973.	1.01E-04	1358277.	0.00
19.0000	-2.17E-11	6.60E-05	-1.42E-04	-2.27E-11	0.00131	562973.	1.47E-04	1358277.	0.00
19.2000	-2.39E-11	4.06E-05	-1.11E-04	-3.75E-12	8.08E-04	562973.	1.62E-04	1358277.	0.00
19.4000	-2.32E-11	2.16E-05	-7.90E-05	7.31E-12	4.31E-04	562973.	1.57E-04	1358277.	0.00
19.6000	-2.09E-11	9.00E-06	-4.90E-05	1.28E-11	1.79E-04	562973.	1.42E-04	1358277.	0.00

19.8000	-1.81E-11	2.05E-06	-2.25E-05	1.47E-11	4.07E-05	562973.	1.23E-04	1358277.	0.00
20.0000	-1.51E-11	0.00	0.00	1.51E-11	0.00	562973.	1.02E-04	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 2:

Pile-head deflection = 0.00082444 meters
Computed slope at pile head = -0.00039725 radians
Maximum bending moment = 77.24390578 kN-m
Maximum shear force = 75.00000000 kN
Depth of maximum bending moment = 1.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 8
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 3

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 100.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00125	-2.14E-11	100.0000	-5.72E-04	4.25E-10	562973.	0.00	0.00	0.00
0.2000	0.00114	20.0000	96.9176	-5.68E-04	397.8874	562973.	-30.8236	5429.	0.00
0.4000	0.00102	38.7671	89.1036	-5.58E-04	771.2460	562973.	-47.3166	9254.	0.00
0.6000	9.12E-04	55.6414	78.9595	-5.41E-04	1107.	562973.	-54.1246	11865.	0.00
0.8000	8.06E-04	70.3508	67.5730	-5.19E-04	1400.	562973.	-59.7401	14821.	0.00
1.0000	7.05E-04	82.6707	55.1838	-4.92E-04	1645.	562973.	-64.1520	18202.	0.00
1.2000	6.10E-04	92.4244	42.0323	-4.60E-04	1839.	562973.	-67.3629	22104.	0.00
1.4000	5.21E-04	99.4836	28.3573	-4.26E-04	1979.	562973.	-69.3877	26652.	0.00
1.6000	4.39E-04	103.7673	14.3933	-3.90E-04	2064.	562973.	-70.2521	32008.	0.00
1.8000	3.65E-04	105.2409	0.3692	-3.53E-04	2094.	562973.	-69.9891	38392.	0.00

2.0000	2.98E-04	103.9150	-13.4931	-3.16E-04	2067.	562973.	-68.6340	46108.	0.00
2.2000	2.38E-04	99.8437	-21.7327	-2.80E-04	1986.	562973.	-13.7615	11554.	0.00
2.4000	1.86E-04	95.2219	-24.4303	-2.45E-04	1894.	562973.	-13.2145	14225.	0.00
2.6000	1.40E-04	90.0715	-27.0045	-2.12E-04	1792.	562973.	-12.5277	17877.	0.00
2.8000	1.01E-04	84.4201	-29.4249	-1.81E-04	1679.	562973.	-11.6761	23142.	0.00
3.0000	6.77E-05	78.3016	-31.6538	-1.52E-04	1558.	562973.	-10.6134	31373.	0.00
3.2000	4.00E-05	71.7585	-33.6392	-1.26E-04	1428.	562973.	-9.2402	46228.	0.00
3.4000	1.74E-05	64.8459	-35.2899	-1.01E-04	1290.	562973.	-7.2670	83571.	0.00
3.6000	-5.86E-07	57.6426	-35.8008	-7.96E-05	1147.	562973.	2.1577	735940.	0.00
3.8000	-1.45E-05	50.5256	-34.8615	-6.04E-05	1005.	562973.	7.2361	100025.	0.00
4.0000	-2.48E-05	43.6980	-33.2427	-4.37E-05	869.3439	562973.	8.9516	72305.	0.00
4.2000	-3.19E-05	37.2285	-31.3421	-2.93E-05	740.6371	562973.	10.0549	62945.	0.00
4.4000	-3.65E-05	31.1612	-29.2535	-1.72E-05	619.9318	562973.	10.8306	59362.	0.00
4.6000	-3.88E-05	25.5271	-27.0323	-7.11E-06	507.8452	562973.	11.3816	58640.	0.00
4.8000	-3.93E-05	20.3483	-24.7183	1.04E-06	404.8158	562973.	11.7578	59786.	0.00
5.0000	-3.84E-05	15.6398	-22.3438	7.43E-06	311.1429	562973.	11.9873	62431.	0.00
5.2000	-3.64E-05	11.4107	-19.9363	1.22E-05	227.0093	562973.	12.0877	66490.	0.00
5.4000	-3.35E-05	7.6652	-17.5204	1.56E-05	152.4947	562973.	12.0711	72053.	0.00
5.6000	-3.01E-05	4.4026	-15.1188	1.78E-05	87.5860	562973.	11.9457	79351.	0.00
5.8000	-2.64E-05	1.6177	-12.7524	1.88E-05	32.1834	562973.	11.7177	88778.	0.00
6.0000	-2.26E-05	-0.6984	-10.4415	1.90E-05	13.8946	562973.	11.3917	100937.	0.00
6.2000	-1.88E-05	-2.5589	-8.2052	1.84E-05	50.9073	562973.	10.9713	116740.	0.00
6.4000	-1.52E-05	-3.9805	-6.0622	1.73E-05	79.1894	562973.	10.4586	137596.	0.00
6.6000	-1.19E-05	-4.9838	-4.0309	1.57E-05	99.1488	562973.	9.8543	165751.	0.00
6.8000	-8.93E-06	-5.5929	-2.1298	1.38E-05	111.2663	562973.	9.1569	205008.	0.00
7.0000	-6.37E-06	-5.8357	-0.3781	1.18E-05	116.0970	562973.	8.3601	262345.	0.00
7.2000	-4.23E-06	-5.7441	1.2027	9.71E-06	114.2749	562973.	7.4475	352281.	0.00
7.4000	-2.49E-06	-5.3546	2.6541	7.73E-06	106.5263	562973.	7.0668	567383.	0.00
7.6000	-1.13E-06	-4.6824	3.9055	5.95E-06	93.1541	562973.	5.4467	960307.	0.00
7.8000	-1.10E-07	-3.7924	4.4576	4.45E-06	75.4476	562973.	0.07497	135828.	0.00
8.0000	6.44E-07	-2.8994	4.0184	3.26E-06	57.6815	562973.	-4.4671	1387033.	0.00
8.2000	1.19E-06	-2.1850	3.0216	2.35E-06	43.4701	562973.	-5.5006	922423.	0.00
8.4000	1.59E-06	-1.6907	1.8662	1.67E-06	33.6360	562973.	-6.0538	763458.	0.00
8.6000	1.86E-06	-1.4386	1.2189	1.11E-06	28.6194	562973.	-0.4191	45090.	0.00
8.8000	2.03E-06	-1.2032	1.1302	6.41E-07	23.9364	562973.	-0.4683	46138.	0.00
9.0000	2.12E-06	-0.9865	1.0334	2.52E-07	19.6259	562973.	-0.4991	47187.	0.00
9.2000	2.13E-06	-0.7898	0.9321	-6.36E-08	15.7127	562973.	-0.5139	48235.	0.00
9.4000	2.09E-06	-0.6137	0.8292	-3.13E-07	12.2083	562973.	-0.5150	49284.	0.00
9.6000	2.01E-06	-0.4581	0.7273	-5.03E-07	9.1138	562973.	-0.5047	50332.	0.00
9.8000	1.89E-06	-0.3228	0.6283	-6.42E-07	6.4210	562973.	-0.4852	51381.	0.00
10.0000	1.75E-06	-0.2068	0.5339	-7.36E-07	4.1142	562973.	-0.4584	52430.	0.00
10.2000	1.59E-06	-0.1092	0.4454	-7.92E-07	2.1723	562973.	-0.4263	53478.	0.00
10.4000	1.43E-06	-0.02863	0.3638	-8.17E-07	0.5696	562973.	-0.3904	54527.	0.00
10.6000	1.27E-06	0.03632	0.2895	-8.15E-07	0.7225	562973.	-0.3522	55575.	0.00

10.8000	1.11E-06	0.08717	0.2230	-7.93E-07	1.7342	562973.	-0.3131	56624.	0.00
11.0000	9.50E-07	0.1255	0.1643	-7.56E-07	2.4968	562973.	-0.2740	57673.	0.00
11.2000	8.04E-07	0.1529	0.1133	-7.06E-07	3.0414	562973.	-0.2359	58721.	0.00
11.4000	6.68E-07	0.1708	0.06972	-6.49E-07	3.3982	562973.	-0.1996	59770.	0.00
11.6000	5.44E-07	0.1808	0.03322	-5.86E-07	3.5962	562973.	-0.1655	60818.	0.00
11.8000	4.33E-07	0.1841	0.00327	-5.21E-07	3.6626	562973.	-0.1340	61867.	0.00
12.0000	3.36E-07	0.1821	-0.02069	-4.56E-07	3.6223	562973.	-0.1056	62916.	0.00
12.2000	2.51E-07	0.1758	-0.03927	-3.93E-07	3.4979	562973.	-0.08021	63964.	0.00
12.4000	1.78E-07	0.1664	-0.05309	-3.32E-07	3.3098	562973.	-0.05802	65013.	0.00
12.6000	1.18E-07	0.1546	-0.06279	-2.75E-07	3.0754	562973.	-0.03898	66061.	0.00
12.8000	6.85E-08	0.1413	-0.06899	-2.22E-07	2.8101	562973.	-0.02298	67110.	0.00
13.0000	2.90E-08	0.1270	-0.07227	-1.75E-07	2.5265	562973.	-0.00990	68159.	0.00
13.2000	-1.40E-09	0.1123	-0.07321	-1.32E-07	2.2350	562973.	4.86E-04	69207.	0.00
13.4000	-2.39E-08	0.09771	-0.07233	-9.49E-08	1.9438	562973.	0.00838	70256.	0.00
13.6000	-3.94E-08	0.08341	-0.07009	-6.28E-08	1.6594	562973.	0.01404	71304.	0.00
13.8000	-4.90E-08	0.06967	-0.06691	-3.56E-08	1.3861	562973.	0.01771	72353.	0.00
14.0000	-5.36E-08	0.05665	-0.06317	-1.31E-08	1.1269	562973.	0.01967	73402.	0.00
14.2000	-5.42E-08	0.04441	-0.05919	4.82E-09	0.8834	562973.	0.02018	74450.	0.00
14.4000	-5.17E-08	0.03297	-0.05522	1.86E-08	0.6560	562973.	0.01951	75499.	0.00
14.6000	-4.68E-08	0.02232	-0.05148	2.84E-08	0.4440	562973.	0.01791	76547.	0.00
14.8000	-4.03E-08	0.01238	-0.04812	3.45E-08	0.2463	562973.	0.01564	77596.	0.00
15.0000	-3.30E-08	0.00307	-0.04526	3.73E-08	0.06108	562973.	0.01296	78644.	0.00
15.2000	-2.54E-08	-0.00572	-0.04295	3.68E-08	0.1138	562973.	0.01012	79693.	0.00
15.4000	-1.82E-08	-0.01411	-0.02955	3.33E-08	0.2807	562973.	0.1239	1358277.	0.00
15.6000	-1.21E-08	-0.01754	-0.00896	2.77E-08	0.3490	562973.	0.08205	1358277.	0.00
15.8000	-7.17E-09	-0.01769	0.00412	2.14E-08	0.3520	562973.	0.04869	1358277.	0.00
16.0000	-3.51E-09	-0.01590	0.01137	1.55E-08	0.3162	562973.	0.02387	1358277.	0.00
16.2000	-9.89E-10	-0.01314	0.01443	1.03E-08	0.2615	562973.	0.00671	1358277.	0.00
16.4000	6.03E-10	-0.01012	0.01469	6.16E-09	0.2014	562973.	-0.00410	1358277.	0.00
16.6000	1.48E-09	-0.00727	0.01328	3.07E-09	0.1446	562973.	-0.01002	1358277.	0.00
16.8000	1.83E-09	-0.00481	0.01103	9.28E-10	0.09570	562973.	-0.01244	1358277.	0.00
17.0000	1.85E-09	-0.00285	0.00854	-4.34E-10	0.05675	562973.	-0.01254	1358277.	0.00
17.2000	1.66E-09	-0.00140	0.00616	-1.19E-09	0.02777	562973.	-0.01127	1358277.	0.00
17.4000	1.37E-09	-3.90E-04	0.00410	-1.51E-09	0.00777	562973.	-0.00932	1358277.	0.00
17.6000	1.06E-09	2.43E-04	0.00245	-1.53E-09	0.00483	562973.	-0.00718	1358277.	0.00
17.8000	7.59E-10	5.89E-04	0.00121	-1.38E-09	0.01171	562973.	-0.00515	1358277.	0.00
18.0000	5.03E-10	7.29E-04	3.58E-04	-1.15E-09	0.01449	562973.	-0.00342	1358277.	0.00
18.2000	2.99E-10	7.32E-04	-1.87E-04	-8.91E-10	0.01456	562973.	-0.00203	1358277.	0.00
18.4000	1.47E-10	6.54E-04	-4.89E-04	-6.45E-10	0.01301	562973.	-9.96E-04	1358277.	0.00
18.6000	4.09E-11	5.36E-04	-6.17E-04	-4.33E-10	0.01066	562973.	-2.78E-04	1358277.	0.00
18.8000	-2.67E-11	4.07E-04	-6.26E-04	-2.66E-10	0.00810	562973.	1.81E-04	1358277.	0.00
19.0000	-6.54E-11	2.85E-04	-5.64E-04	-1.43E-10	0.00568	562973.	4.44E-04	1358277.	0.00
19.2000	-8.38E-11	1.82E-04	-4.63E-04	-5.98E-11	0.00361	562973.	5.69E-04	1358277.	0.00
19.4000	-8.93E-11	1.00E-04	-3.45E-04	-9.70E-12	0.00200	562973.	6.06E-04	1358277.	0.00

19.6000	-8.77E-11	4.36E-05	-2.25E-04	1.59E-11	8.67E-04	562973.	5.95E-04	1358277.	0.00
19.8000	-8.29E-11	1.05E-05	-1.09E-04	2.55E-11	2.09E-04	562973.	5.63E-04	1358277.	0.00
20.0000	-7.75E-11	0.00	0.00	2.74E-11	0.00	562973.	5.26E-04	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 3:

Pile-head deflection = 0.00124990 meters
Computed slope at pile head = -0.00057187 radians
Maximum bending moment = 105.24090137 kN-m
Maximum shear force = 100.00000000 kN
Depth of maximum bending moment = 1.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 11
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 4

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 125.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00175	-4.58E-11	125.0000	-7.63E-04	9.11E-10	562973.	0.00	0.00	0.00
0.2000	0.00159	25.0000	120.6719	-7.59E-04	497.3592	562973.	-43.2814	5429.	0.00
0.4000	0.00144	48.2687	110.7218	-7.46E-04	960.2762	562973.	-56.2191	7789.	0.00
0.6000	0.00130	69.2887	98.6488	-7.25E-04	1378.	562973.	-64.5108	9954.	0.00
0.8000	0.00115	87.7283	85.0512	-6.97E-04	1745.	562973.	-71.4654	12389.	0.00
1.0000	0.00102	103.3092	70.1977	-6.63E-04	2055.	562973.	-77.0704	15150.	0.00
1.2000	8.88E-04	115.8073	54.3578	-6.24E-04	2304.	562973.	-81.3279	18307.	0.00
1.4000	7.68E-04	125.0523	37.7997	-5.81E-04	2488.	562973.	-84.2534	21948.	0.00
1.6000	6.56E-04	130.9272	20.7869	-5.36E-04	2605.	562973.	-85.8740	26183.	0.00

1.8000	5.53E-04	133.3671	3.5771	-4.89E-04	2653.	562973.	-86.2249	31160.	0.00
2.0000	4.60E-04	132.3580	-13.5799	-4.42E-04	2633.	562973.	-85.3450	37075.	0.00
2.2000	3.77E-04	127.9352	-23.7176	-3.95E-04	2545.	562973.	-16.0321	8511.	0.00
2.4000	3.02E-04	122.8710	-26.8747	-3.51E-04	2444.	562973.	-15.5387	10283.	0.00
2.6000	2.36E-04	117.1853	-29.9196	-3.08E-04	2331.	562973.	-14.9097	12614.	0.00
2.8000	1.79E-04	110.9032	-32.8233	-2.68E-04	2206.	562973.	-14.1277	15794.	0.00
3.0000	1.29E-04	104.0559	-35.5525	-2.30E-04	2070.	562973.	-13.1644	20363.	0.00
3.2000	8.71E-05	96.6822	-38.0657	-1.94E-04	1923.	562973.	-11.9671	27486.	0.00
3.4000	5.17E-05	88.8297	-40.3047	-1.61E-04	1767.	562973.	-10.4237	40299.	0.00
3.6000	2.27E-05	80.5603	-42.1680	-1.31E-04	1603.	562973.	-8.2088	72338.	0.00
3.8000	-6.16E-07	71.9625	-42.7645	-1.04E-04	1432.	562973.	2.2433	728237.	0.00
4.0000	-1.88E-05	63.4544	-41.7247	-7.97E-05	1262.	562973.	8.1554	86691.	0.00
4.2000	-3.25E-05	55.2726	-39.8983	-5.86E-05	1100.	562973.	10.1087	62198.	0.00
4.4000	-4.23E-05	47.4951	-37.7501	-4.04E-05	944.8857	562973.	11.3730	53813.	0.00
4.6000	-4.87E-05	40.1726	-35.3856	-2.48E-05	799.2080	562973.	12.2714	50441.	0.00
4.8000	-5.22E-05	33.3409	-32.8665	-1.17E-05	663.2957	562973.	12.9205	49513.	0.00
5.0000	-5.34E-05	27.0260	-30.2367	-1.03E-06	537.6651	562973.	13.3768	50142.	0.00
5.2000	-5.26E-05	21.2462	-27.5318	7.55E-06	422.6795	562973.	13.6721	51984.	0.00
5.4000	-5.03E-05	16.0133	-24.7820	1.42E-05	318.5737	562973.	13.8261	54935.	0.00
5.6000	-4.69E-05	11.3334	-22.0142	1.90E-05	225.4704	562973.	13.8520	59027.	0.00
5.8000	-4.27E-05	7.2076	-19.2531	2.23E-05	143.3902	562973.	13.7590	64405.	0.00
6.0000	-3.80E-05	3.6321	-16.5219	2.42E-05	72.2590	562973.	13.5535	71321.	0.00
6.2000	-3.30E-05	0.5988	-13.8425	2.50E-05	11.9133	562973.	13.2401	80172.	0.00
6.4000	-2.80E-05	-1.9049	-11.2363	2.48E-05	37.8962	562973.	12.8218	91556.	0.00
6.6000	-2.31E-05	-3.8957	-8.7241	2.37E-05	77.5025	562973.	12.3000	106384.	0.00
6.8000	-1.85E-05	-5.3945	-6.3268	2.21E-05	107.3208	562973.	11.6739	126098.	0.00
7.0000	-1.43E-05	-6.4264	-4.0654	2.00E-05	127.8492	562973.	10.9396	153101.	0.00
7.2000	-1.05E-05	-7.0207	-1.9627	1.76E-05	139.6722	562973.	10.0872	191728.	0.00
7.4000	-7.25E-06	-7.2115	0.05396	1.51E-05	143.4681	562973.	10.0796	277945.	0.00
7.6000	-4.50E-06	-6.9991	1.9213	1.25E-05	139.2428	562973.	8.5939	382298.	0.00
7.8000	-2.24E-06	-6.4430	3.4616	1.02E-05	128.1787	562973.	6.8087	608967.	0.00
8.0000	-4.34E-07	-5.6145	4.5367	8.01E-06	111.6965	562973.	3.9424	1816104.	0.00
8.2000	9.69E-07	-4.6283	4.4157	6.19E-06	92.0769	562973.	-5.1519	1063444.	0.00
8.4000	2.04E-06	-3.8482	3.2399	4.69E-06	76.5572	562973.	-6.6064	646695.	0.00
8.6000	2.84E-06	-3.3323	2.5151	3.41E-06	66.2946	562973.	-0.6412	45090.	0.00
8.8000	3.41E-06	-2.8421	2.3724	2.32E-06	56.5423	562973.	-0.7862	46138.	0.00
9.0000	3.77E-06	-2.3834	2.2048	1.39E-06	47.4156	562973.	-0.8895	47187.	0.00
9.2000	3.96E-06	-1.9602	2.0203	6.16E-07	38.9968	562973.	-0.9557	48235.	0.00
9.4000	4.02E-06	-1.5752	1.8258	-1.24E-08	31.3385	562973.	-0.9897	49284.	0.00
9.6000	3.96E-06	-1.2299	1.6272	-5.11E-07	24.4678	562973.	-0.9961	50332.	0.00
9.8000	3.81E-06	-0.9244	1.4297	-8.93E-07	18.3897	562973.	-0.9793	51381.	0.00
10.0000	3.60E-06	-0.6580	1.2373	-1.17E-06	13.0909	562973.	-0.9439	52430.	0.00
10.2000	3.34E-06	-0.4294	1.0536	-1.37E-06	8.5433	562973.	-0.8937	53478.	0.00
10.4000	3.05E-06	-0.2366	0.8810	-1.49E-06	4.7068	562973.	-0.8325	54527.	0.00

10.6000	2.75E-06	-0.07705	0.7213	-1.54E-06	1.5329	562973.	-0.7636	55575.	0.00
10.8000	2.44E-06	0.05195	0.5760	-1.55E-06	1.0334	562973.	-0.6899	56624.	0.00
11.0000	2.13E-06	0.1533	0.4456	-1.51E-06	3.0507	562973.	-0.6141	57673.	0.00
11.2000	1.83E-06	0.2302	0.3304	-1.44E-06	4.5793	562973.	-0.5382	58721.	0.00
11.4000	1.55E-06	0.2855	0.2301	-1.35E-06	5.6796	562973.	-0.4641	59770.	0.00
11.6000	1.29E-06	0.3222	0.1444	-1.24E-06	6.4106	562973.	-0.3932	60818.	0.00
11.8000	1.06E-06	0.3432	0.07239	-1.12E-06	6.8286	562973.	-0.3267	61867.	0.00
12.0000	8.44E-07	0.3512	0.01318	-1.00E-06	6.9867	562973.	-0.2654	62916.	0.00
12.2000	6.56E-07	0.3485	-0.03435	-8.76E-07	6.9335	562973.	-0.2098	63964.	0.00
12.4000	4.93E-07	0.3374	-0.07137	-7.54E-07	6.7133	562973.	-0.1603	65013.	0.00
12.6000	3.54E-07	0.3200	-0.09911	-6.37E-07	6.3656	562973.	-0.1171	66061.	0.00
12.8000	2.38E-07	0.2978	-0.1188	-5.28E-07	5.9247	562973.	-0.07997	67110.	0.00
13.0000	1.43E-07	0.2724	-0.1317	-4.26E-07	5.4201	562973.	-0.04886	68159.	0.00
13.2000	6.78E-08	0.2451	-0.1389	-3.34E-07	4.8767	562973.	-0.02345	69207.	0.00
13.4000	9.58E-09	0.2169	-0.1416	-2.52E-07	4.3146	562973.	-0.00337	70256.	0.00
13.6000	-3.32E-08	0.1885	-0.1408	-1.80E-07	3.7498	562973.	0.01183	71304.	0.00
13.8000	-6.26E-08	0.1606	-0.1373	-1.18E-07	3.1945	562973.	0.02264	72353.	0.00
14.0000	-8.05E-08	0.1336	-0.1321	-6.61E-08	2.6571	562973.	0.02956	73402.	0.00
14.2000	-8.90E-08	0.1077	-0.1258	-2.33E-08	2.1433	562973.	0.03314	74450.	0.00
14.4000	-8.98E-08	0.08323	-0.1191	1.06E-08	1.6559	562973.	0.03392	75499.	0.00
14.6000	-8.48E-08	0.06009	-0.1125	3.61E-08	1.1954	562973.	0.03244	76547.	0.00
14.8000	-7.54E-08	0.03824	-0.1063	5.36E-08	0.7607	562973.	0.02926	77596.	0.00
15.0000	-6.33E-08	0.01756	-0.1009	6.35E-08	0.3494	562973.	0.02490	78644.	0.00
15.2000	-5.00E-08	-0.00212	-0.09641	6.62E-08	0.04216	562973.	0.01993	79693.	0.00
15.4000	-3.68E-08	-0.02100	-0.06940	6.21E-08	0.4178	562973.	0.2502	1358277.	0.00
15.6000	-2.52E-08	-0.02988	-0.02728	5.31E-08	0.5944	562973.	0.1709	1358277.	0.00
15.8000	-1.56E-08	-0.03192	4.08E-04	4.21E-08	0.6350	562973.	0.1060	1358277.	0.00
16.0000	-8.32E-09	-0.02971	0.01666	3.12E-08	0.5912	562973.	0.05653	1358277.	0.00
16.2000	-3.15E-09	-0.02525	0.02445	2.14E-08	0.5024	562973.	0.02138	1358277.	0.00
16.4000	2.34E-10	-0.01993	0.02643	1.34E-08	0.3966	562973.	-0.00159	1358277.	0.00
16.6000	2.20E-09	-0.01468	0.02478	7.22E-09	0.2920	562973.	-0.01494	1358277.	0.00
16.8000	3.12E-09	-0.01002	0.02117	2.83E-09	0.1994	562973.	-0.02120	1358277.	0.00
17.0000	3.33E-09	-0.00621	0.01678	-5.06E-11	0.1236	562973.	-0.02263	1358277.	0.00
17.2000	3.10E-09	-0.00331	0.01241	-1.74E-09	0.06581	562973.	-0.02107	1358277.	0.00
17.4000	2.64E-09	-0.00125	0.00852	-2.55E-09	0.02481	562973.	-0.01790	1358277.	0.00
17.6000	2.08E-09	9.83E-05	0.00531	-2.75E-09	0.00196	562973.	-0.01414	1358277.	0.00
17.8000	1.53E-09	8.78E-04	0.00286	-2.58E-09	0.01747	562973.	-0.01042	1358277.	0.00
18.0000	1.05E-09	0.00124	0.00110	-2.20E-09	0.02469	562973.	-0.00712	1358277.	0.00
18.2000	6.52E-10	0.00132	-5.31E-05	-1.75E-09	0.02624	562973.	-0.00443	1358277.	0.00
18.4000	3.49E-10	0.00122	-7.33E-04	-1.30E-09	0.02426	562973.	-0.00237	1358277.	0.00
18.6000	1.32E-10	0.00103	-0.00106	-9.01E-10	0.02040	562973.	-8.99E-04	1358277.	0.00
18.8000	-1.13E-11	7.96E-04	-0.00114	-5.77E-10	0.01583	562973.	7.65E-05	1358277.	0.00
19.0000	-9.84E-11	5.69E-04	-0.00107	-3.35E-10	0.01132	562973.	6.68E-04	1358277.	0.00
19.2000	-1.45E-10	3.69E-04	-9.02E-04	-1.68E-10	0.00733	562973.	9.85E-04	1358277.	0.00

19.4000	-1.66E-10	2.08E-04	-6.91E-04	-6.57E-11	0.00413	562973.	0.00112	1358277.	0.00
19.6000	-1.71E-10	9.21E-05	-4.62E-04	-1.25E-11	0.00183	562973.	0.00116	1358277.	0.00
19.8000	-1.71E-10	2.29E-05	-2.30E-04	7.93E-12	4.55E-04	562973.	0.00116	1358277.	0.00
20.0000	-1.68E-10	0.00	0.00	1.20E-11	0.00	562973.	0.00114	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 4:

Pile-head deflection = 0.00174710 meters
Computed slope at pile head = -0.00076317 radians
Maximum bending moment = 133.36712651 kN-m
Maximum shear force = 125.00000000 kN
Depth of maximum bending moment = 1.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 12
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 5

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 150.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00232	0.00	150.0000	-9.74E-04	0.00	562973.	0.00	0.00	0.00
0.2000	0.00213	30.0000	144.7853	-9.69E-04	596.8310	562973.	-52.1466	4900.	0.00
0.4000	0.00194	57.9141	133.0611	-9.53E-04	1152.	562973.	-65.0959	6726.	0.00
0.6000	0.00175	83.2244	119.0623	-9.28E-04	1656.	562973.	-74.8915	8574.	0.00
0.8000	0.00156	105.5391	103.2517	-8.95E-04	2100.	562973.	-83.2151	10639.	0.00
1.0000	0.00139	124.5251	85.9249	-8.54E-04	2477.	562973.	-90.0530	12965.	0.00
1.2000	0.00122	139.9090	67.3789	-8.07E-04	2783.	562973.	-95.4067	15605.	0.00
1.4000	0.00107	151.4767	47.9090	-7.55E-04	3014.	562973.	-99.2923	18622.	0.00

1.6000	9.21E-04	159.0726	27.8060	-7.00E-04	3165.	562973.	-101.7378	22098.	0.00
1.8000	7.86E-04	162.5991	7.3542	-6.43E-04	3235.	562973.	-102.7806	26138.	0.00
2.0000	6.64E-04	162.0143	-13.1701	-5.85E-04	3223.	562973.	-102.4620	30877.	0.00
2.2000	5.52E-04	157.3310	-25.2374	-5.28E-04	3130.	562973.	-18.2114	6593.	0.00
2.4000	4.52E-04	151.9193	-28.8358	-4.73E-04	3022.	562973.	-17.7720	7858.	0.00
2.6000	3.63E-04	145.7967	-32.3328	-4.21E-04	2901.	562973.	-17.1987	9475.	0.00
2.8000	2.84E-04	138.9862	-35.7006	-3.70E-04	2765.	562973.	-16.4787	11600.	0.00
3.0000	2.15E-04	131.5165	-38.9077	-3.22E-04	2616.	562973.	-15.5923	14500.	0.00
3.2000	1.55E-04	123.4231	-41.9175	-2.77E-04	2455.	562973.	-14.5063	18675.	0.00
3.4000	1.04E-04	114.7495	-44.6842	-2.34E-04	2283.	562973.	-13.1602	25208.	0.00
3.6000	6.16E-05	105.5494	-47.1425	-1.95E-04	2100.	562973.	-11.4225	37071.	0.00
3.8000	2.63E-05	95.8925	-49.1750	-1.59E-04	1908.	562973.	-8.9029	67607.	0.00
4.0000	-2.14E-06	85.8794	-49.6815	-1.27E-04	1709.	562973.	3.8379	359173.	0.00
4.2000	-2.45E-05	76.0199	-48.3781	-9.84E-05	1512.	562973.	9.1966	75045.	0.00
4.4000	-4.15E-05	66.5282	-46.3280	-7.30E-05	1324.	562973.	11.3035	54500.	0.00
4.6000	-5.37E-05	57.4887	-43.9290	-5.10E-05	1144.	562973.	12.6868	47229.	0.00
4.8000	-6.19E-05	48.9566	-41.2924	-3.21E-05	973.9606	562973.	13.6796	44210.	0.00
5.0000	-6.66E-05	40.9717	-38.4839	-1.61E-05	815.1064	562973.	14.4049	43280.	0.00
5.2000	-6.83E-05	33.5630	-35.5511	-2.89E-06	667.7152	562973.	14.9231	43676.	0.00
5.4000	-6.77E-05	26.7513	-32.5320	7.82E-06	532.1996	562973.	15.2683	45092.	0.00
5.6000	-6.52E-05	20.5502	-29.4590	1.62E-05	408.8340	562973.	15.4619	47425.	0.00
5.8000	-6.12E-05	14.9677	-26.3610	2.25E-05	297.7727	562973.	15.5179	50687.	0.00
6.0000	-5.62E-05	10.0058	-23.2646	2.70E-05	199.0600	562973.	15.4460	54976.	0.00
6.2000	-5.04E-05	5.6619	-20.1947	2.98E-05	112.6390	562973.	15.2531	60478.	0.00
6.4000	-4.43E-05	1.9280	-17.1750	3.11E-05	38.3560	562973.	14.9439	67483.	0.00
6.6000	-3.80E-05	-1.2081	-14.2284	3.12E-05	24.0351	562973.	14.5213	76427.	0.00
6.8000	-3.18E-05	-3.7634	-11.3777	3.03E-05	74.8704	562973.	13.9862	87971.	0.00
7.0000	-2.59E-05	-5.7592	-8.6453	2.87E-05	114.5759	562973.	13.3376	103147.	0.00
7.2000	-2.03E-05	-7.2215	-6.0545	2.64E-05	143.6677	562973.	12.5709	123640.	0.00
7.4000	-1.53E-05	-8.1810	-3.5034	2.36E-05	162.7559	562973.	12.9400	168917.	0.00
7.6000	-1.09E-05	-8.6229	-1.0546	2.06E-05	171.5467	562973.	11.5474	212096.	0.00
7.8000	-7.07E-06	-8.6029	1.0999	1.76E-05	171.1483	562973.	9.9983	282869.	0.00
8.0000	-3.86E-06	-8.1829	2.9170	1.46E-05	162.7936	562973.	8.1719	423324.	0.00
8.2000	-1.23E-06	-7.4361	4.2926	1.18E-05	147.9359	562973.	5.5849	905301.	0.00
8.4000	8.65E-07	-6.4658	4.3544	9.34E-06	128.6339	562973.	-4.9675	1148789.	0.00
8.6000	2.50E-06	-5.6943	3.8012	7.18E-06	113.2848	562973.	-0.5645	45090.	0.00
8.8000	3.74E-06	-4.9454	3.6585	5.29E-06	98.3849	562973.	-0.8625	46138.	0.00
9.0000	4.62E-06	-4.2309	3.4632	3.66E-06	84.1714	562973.	-1.0905	47187.	0.00
9.2000	5.20E-06	-3.5601	3.2286	2.28E-06	70.8257	562973.	-1.2552	48235.	0.00
9.4000	5.53E-06	-2.9395	2.9667	1.13E-06	58.4789	562973.	-1.3638	49284.	0.00
9.6000	5.66E-06	-2.3734	2.6880	1.83E-07	47.2173	562973.	-1.4232	50332.	0.00
9.8000	5.61E-06	-1.8643	2.4016	-5.70E-07	37.0883	562973.	-1.4406	51381.	0.00
10.0000	5.43E-06	-1.4127	2.1153	-1.15E-06	28.1056	562973.	-1.4227	52430.	0.00
10.2000	5.15E-06	-1.0181	1.8354	-1.58E-06	20.2552	562973.	-1.3762	53478.	0.00

10.4000	4.79E-06	-0.6786	1.5671	-1.89E-06	13.4998	562973.	-1.3069	54527.	0.00
10.6000	4.39E-06	-0.3913	1.3144	-2.08E-06	7.7845	562973.	-1.2206	55575.	0.00
10.8000	3.96E-06	-0.1528	1.0801	-2.17E-06	3.0405	562973.	-1.1222	56624.	0.00
11.0000	3.52E-06	0.04074	0.8663	-2.19E-06	0.8105	562973.	-1.0161	57673.	0.00
11.2000	3.09E-06	0.1937	0.6740	-2.15E-06	3.8529	562973.	-0.9063	58721.	0.00
11.4000	2.66E-06	0.3103	0.5038	-2.06E-06	6.1741	562973.	-0.7960	59770.	0.00
11.6000	2.26E-06	0.3952	0.3554	-1.94E-06	7.8619	562973.	-0.6880	60818.	0.00
11.8000	1.89E-06	0.4525	0.2281	-1.78E-06	9.0021	562973.	-0.5845	61867.	0.00
12.0000	1.55E-06	0.4864	0.1210	-1.62E-06	9.6772	562973.	-0.4872	62916.	0.00
12.2000	1.24E-06	0.5009	0.03251	-1.44E-06	9.9647	562973.	-0.3973	63964.	0.00
12.4000	9.72E-07	0.4994	-0.03880	-1.26E-06	9.9359	562973.	-0.3158	65013.	0.00
12.6000	7.36E-07	0.4854	-0.09471	-1.09E-06	9.6559	562973.	-0.2432	66061.	0.00
12.8000	5.36E-07	0.4616	-0.1370	-9.22E-07	9.1823	562973.	-0.1797	67110.	0.00
13.0000	3.68E-07	0.4306	-0.1675	-7.63E-07	8.5657	562973.	-0.1253	68159.	0.00
13.2000	2.30E-07	0.3946	-0.1880	-6.17E-07	7.8494	562973.	-0.07966	69207.	0.00
13.4000	1.21E-07	0.3554	-0.2002	-4.84E-07	7.0697	562973.	-0.04245	70256.	0.00
13.6000	3.68E-08	0.3145	-0.2058	-3.65E-07	6.2562	562973.	-0.01310	71304.	0.00
13.8000	-2.50E-08	0.2731	-0.2062	-2.60E-07	5.4323	562973.	0.00904	72353.	0.00
14.0000	-6.74E-08	0.2320	-0.2028	-1.71E-07	4.6157	562973.	0.02472	73402.	0.00
14.2000	-9.32E-08	0.1919	-0.1968	-9.52E-08	3.8186	562973.	0.03470	74450.	0.00
14.4000	-1.05E-07	0.1533	-0.1894	-3.39E-08	3.0492	562973.	0.03981	75499.	0.00
14.6000	-1.07E-07	0.1162	-0.1813	1.39E-08	2.3115	562973.	0.04087	76547.	0.00
14.8000	-9.99E-08	0.08074	-0.1734	4.89E-08	1.6063	562973.	0.03875	77596.	0.00
15.0000	-8.72E-08	0.04684	-0.1661	7.16E-08	0.9319	562973.	0.03430	78644.	0.00
15.2000	-7.12E-08	0.01432	-0.1598	8.24E-08	0.2849	562973.	0.02839	79693.	0.00
15.4000	-5.42E-08	-0.01707	-0.1201	8.20E-08	0.3396	562973.	0.3684	1358277.	0.00
15.6000	-3.85E-08	-0.03373	-0.05715	7.29E-08	0.6709	562973.	0.2612	1358277.	0.00
15.8000	-2.51E-08	-0.03993	-0.01401	5.99E-08	0.7944	562973.	0.1703	1358277.	0.00
16.0000	-1.45E-08	-0.03933	0.01288	4.58E-08	0.7824	562973.	0.09860	1358277.	0.00
16.2000	-6.76E-09	-0.03478	0.02733	3.26E-08	0.6920	562973.	0.04591	1358277.	0.00
16.4000	-1.47E-09	-0.02840	0.03292	2.14E-08	0.5650	562973.	0.01001	1358277.	0.00
16.6000	1.79E-09	-0.02161	0.03270	1.25E-08	0.4300	562973.	-0.01218	1358277.	0.00
16.8000	3.53E-09	-0.01532	0.02909	5.94E-09	0.3047	562973.	-0.02395	1358277.	0.00
17.0000	4.17E-09	-0.00998	0.02386	1.45E-09	0.1985	562973.	-0.02833	1358277.	0.00
17.2000	4.11E-09	-0.00577	0.01824	-1.35E-09	0.1148	562973.	-0.02789	1358277.	0.00
17.4000	3.63E-09	-0.00268	0.01298	-2.85E-09	0.05336	562973.	-0.02467	1358277.	0.00
17.6000	2.97E-09	-5.79E-04	0.00850	-3.43E-09	0.01152	562973.	-0.02015	1358277.	0.00
17.8000	2.26E-09	7.18E-04	0.00495	-3.40E-09	0.01428	562973.	-0.01535	1358277.	0.00
18.0000	1.61E-09	0.00140	0.00232	-3.03E-09	0.02787	562973.	-0.01090	1358277.	0.00
18.2000	1.05E-09	0.00165	5.21E-04	-2.49E-09	0.03278	562973.	-0.00713	1358277.	0.00
18.4000	6.11E-10	0.00161	-6.07E-04	-1.91E-09	0.03201	562973.	-0.00415	1358277.	0.00
18.6000	2.87E-10	0.00140	-0.00122	-1.37E-09	0.02794	562973.	-0.00195	1358277.	0.00
18.8000	6.22E-11	0.00112	-0.00145	-9.24E-10	0.02232	562973.	-4.22E-04	1358277.	0.00
19.0000	-8.27E-11	8.23E-04	-0.00144	-5.78E-10	0.01637	562973.	5.61E-04	1358277.	0.00

19.2000	-1.69E-10	5.46E-04	-0.00127	-3.35E-10	0.01086	562973.	0.00115	1358277.	0.00
19.4000	-2.17E-10	3.15E-04	-0.00101	-1.82E-10	0.00627	562973.	0.00147	1358277.	0.00
19.6000	-2.42E-10	1.43E-04	-6.96E-04	-1.01E-10	0.00284	562973.	0.00164	1358277.	0.00
19.8000	-2.57E-10	3.66E-05	-3.57E-04	-6.88E-11	7.28E-04	562973.	0.00174	1358277.	0.00
20.0000	-2.69E-10	0.00	0.00	-6.23E-11	0.00	562973.	0.00183	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 5:

Pile-head deflection = 0.00232311 meters
Computed slope at pile head = -0.00097418 radians
Maximum bending moment = 162.59907440 kN-m
Maximum shear force = 150.00000000 kN
Depth of maximum bending moment = 1.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 14
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 6

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 200.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00377	3.66E-11	200.0000	-0.00147	7.29E-10	562973.	0.00	0.00	0.00
0.2000	0.00348	40.0000	194.1313	-0.00146	795.7747	562973.	-58.6870	3377.	0.00
0.4000	0.00318	77.6525	180.5078	-0.00144	1545.	562973.	-77.5475	4870.	0.00
0.6000	0.00290	112.2031	163.3628	-0.00141	2232.	562973.	-93.9034	6479.	0.00
0.8000	0.00262	142.9976	143.2141	-0.00136	2845.	562973.	-107.5836	8209.	0.00
1.0000	0.00235	169.4888	120.7339	-0.00131	3372.	562973.	-117.2179	9960.	0.00
1.2000	0.00210	191.2912	96.5148	-0.00124	3806.	562973.	-124.9734	11912.	0.00

1.4000	0.00186	208.0947	70.9175	-0.00117	4140.	562973.	-130.9997	14114.	0.00
1.6000	0.00163	219.6582	44.2849	-0.00110	4370.	562973.	-135.3262	16613.	0.00
1.8000	0.00142	225.8086	16.9530	-0.00102	4492.	562973.	-137.9925	19467.	0.00
2.0000	0.00122	226.4394	-10.7505	-9.37E-04	4505.	562973.	-139.0429	22752.	0.00
2.2000	0.00104	221.5084	-26.9055	-8.57E-04	4407.	562973.	-22.5064	4316.	0.00
2.4000	8.79E-04	215.6772	-31.3739	-7.80E-04	4291.	562973.	-22.1779	5045.	0.00
2.6000	7.31E-04	208.9589	-35.7632	-7.04E-04	4157.	562973.	-21.7151	5941.	0.00
2.8000	5.98E-04	201.3719	-40.0457	-6.31E-04	4006.	562973.	-21.1096	7066.	0.00
3.0000	4.78E-04	192.9406	-44.1916	-5.61E-04	3838.	562973.	-20.3497	8508.	0.00
3.2000	3.73E-04	183.6953	-48.1684	-4.95E-04	3655.	562973.	-19.4180	10413.	0.00
3.4000	2.81E-04	173.6732	-51.9389	-4.31E-04	3455.	562973.	-18.2874	13036.	0.00
3.6000	2.01E-04	162.9197	-55.4588	-3.71E-04	3241.	562973.	-16.9117	16868.	0.00
3.8000	1.32E-04	151.4897	-58.6703	-3.15E-04	3014.	562973.	-15.2032	23027.	0.00
4.0000	7.43E-05	139.4516	-61.4867	-2.64E-04	2774.	562973.	-12.9611	34869.	0.00
4.2000	2.65E-05	126.8950	-63.7325	-2.16E-04	2524.	562973.	-9.4965	71550.	0.00
4.4000	-1.22E-05	113.9586	-63.9326	-1.74E-04	2267.	562973.	7.4951	122513.	0.00
4.6000	-4.29E-05	101.3220	-62.0063	-1.35E-04	2016.	562973.	11.7680	54838.	0.00
4.8000	-6.64E-05	89.1561	-59.4290	-1.02E-04	1774.	562973.	14.0054	42183.	0.00
5.0000	-8.36E-05	77.5504	-56.4743	-7.20E-05	1543.	562973.	15.5412	37200.	0.00
5.2000	-9.52E-05	66.5663	-53.2532	-4.64E-05	1324.	562973.	16.6699	35023.	0.00
5.4000	-1.02E-04	56.2491	-49.8350	-2.46E-05	1119.	562973.	17.5117	34302.	0.00
5.6000	-1.05E-04	46.6323	-46.2710	-6.29E-06	927.7207	562973.	18.1283	34524.	0.00
5.8000	-1.05E-04	37.7407	-42.6026	8.70E-06	750.8271	562973.	18.5561	35474.	0.00
6.0000	-1.02E-04	29.5913	-38.8652	2.07E-05	588.6999	562973.	18.8184	37067.	0.00
6.2000	-9.64E-05	22.1946	-35.0902	2.99E-05	441.5480	562973.	18.9309	39295.	0.00
6.4000	-8.96E-05	15.5552	-31.3066	3.66E-05	309.4608	562973.	18.9051	42202.	0.00
6.6000	-8.17E-05	9.6720	-27.5411	4.10E-05	192.4178	562973.	18.7497	45883.	0.00
6.8000	-7.32E-05	4.5387	-23.8191	4.36E-05	90.2953	562973.	18.4711	50485.	0.00
7.0000	-6.43E-05	0.1443	-20.1645	4.44E-05	2.8717	562973.	18.0748	56221.	0.00
7.2000	-5.54E-05	-3.5271	-16.6005	4.38E-05	70.1684	562973.	17.5649	63396.	0.00
7.4000	-4.68E-05	-6.4959	-12.9661	4.20E-05	129.2309	562973.	18.7794	80292.	0.00
7.6000	-3.86E-05	-8.7135	-9.3266	3.93E-05	173.3492	562973.	17.6149	91258.	0.00
7.8000	-3.11E-05	-10.2265	-5.9270	3.60E-05	203.4500	562973.	16.3814	105516.	0.00
8.0000	-2.42E-05	-11.0843	-2.7809	3.22E-05	220.5148	562973.	15.0799	124513.	0.00
8.2000	-1.82E-05	-11.3389	0.09759	2.82E-05	225.5794	562973.	13.7047	150751.	0.00
8.4000	-1.29E-05	-11.0452	2.6918	2.42E-05	219.7382	562973.	12.2379	189043.	0.00
8.6000	-8.50E-06	-10.2621	4.1072	2.04E-05	204.1584	562973.	1.9157	45090.	0.00
8.8000	-4.78E-06	-9.4024	4.4090	1.69E-05	187.0541	562973.	1.1019	46138.	0.00
9.0000	-1.72E-06	-8.4985	4.5598	1.38E-05	169.0729	562973.	0.4067	47187.	0.00
9.2000	7.25E-07	-7.5784	4.5830	1.09E-05	150.7681	562973.	-0.1748	48235.	0.00
9.4000	2.64E-06	-6.6653	4.5006	8.37E-06	132.6024	562973.	-0.6494	49284.	0.00
9.6000	4.07E-06	-5.7782	4.3332	6.16E-06	114.9535	562973.	-1.0248	50332.	0.00
9.8000	5.10E-06	-4.9321	4.0997	4.26E-06	98.1200	562973.	-1.3098	51381.	0.00
10.0000	5.77E-06	-4.1383	3.8174	2.64E-06	82.3290	562973.	-1.5137	52430.	0.00

10.2000	6.16E-06	-3.4051	3.5014	1.30E-06	67.7425	562973.	-1.6461	53478.	0.00
10.4000	6.30E-06	-2.7378	3.1651	2.13E-07	54.4659	562973.	-1.7165	54527.	0.00
10.6000	6.24E-06	-2.1391	2.8200	-6.53E-07	42.5553	562973.	-1.7343	55575.	0.00
10.8000	6.03E-06	-1.6097	2.4757	-1.32E-06	32.0248	562973.	-1.7086	56624.	0.00
11.0000	5.71E-06	-1.1488	2.1401	-1.81E-06	22.8540	562973.	-1.6476	57673.	0.00
11.2000	5.31E-06	-0.7537	1.8194	-2.15E-06	14.9943	562973.	-1.5594	58721.	0.00
11.4000	4.85E-06	-0.4210	1.5184	-2.36E-06	8.3756	562973.	-1.4509	59770.	0.00
11.6000	4.37E-06	-0.1463	1.2404	-2.46E-06	2.9114	562973.	-1.3286	60818.	0.00
11.8000	3.87E-06	0.07517	0.9878	-2.47E-06	1.4955	562973.	-1.1979	61867.	0.00
12.0000	3.38E-06	0.2488	0.7616	-2.41E-06	4.9492	562973.	-1.0637	62916.	0.00
12.2000	2.91E-06	0.3798	0.5623	-2.30E-06	7.5564	562973.	-0.9300	63964.	0.00
12.4000	2.46E-06	0.4737	0.3893	-2.15E-06	9.4236	562973.	-0.8001	65013.	0.00
12.6000	2.05E-06	0.5355	0.2416	-1.97E-06	10.6541	562973.	-0.6766	66061.	0.00
12.8000	1.67E-06	0.5703	0.1178	-1.77E-06	11.3462	562973.	-0.5616	67110.	0.00
13.0000	1.34E-06	0.5826	0.01595	-1.57E-06	11.5913	562973.	-0.4565	68159.	0.00
13.2000	1.05E-06	0.5767	-0.06592	-1.36E-06	11.4731	562973.	-0.3622	69207.	0.00
13.4000	7.95E-07	0.5563	-0.1301	-1.16E-06	11.0667	562973.	-0.2792	70256.	0.00
13.6000	5.82E-07	0.5247	-0.1787	-9.69E-07	10.4381	562973.	-0.2077	71304.	0.00
13.8000	4.07E-07	0.4848	-0.2142	-7.89E-07	9.6443	562973.	-0.1474	72353.	0.00
14.0000	2.67E-07	0.4390	-0.2388	-6.25E-07	8.7332	562973.	-0.09790	73402.	0.00
14.2000	1.57E-07	0.3893	-0.2544	-4.78E-07	7.7442	562973.	-0.05856	74450.	0.00
14.4000	7.55E-08	0.3372	-0.2631	-3.49E-07	6.7086	562973.	-0.02851	75499.	0.00
14.6000	1.77E-08	0.2840	-0.2667	-2.39E-07	5.6504	562973.	-0.00678	76547.	0.00
14.8000	-1.99E-08	0.2306	-0.2666	-1.47E-07	4.5867	562973.	0.00773	77596.	0.00
15.0000	-4.12E-08	0.1774	-0.2642	-7.48E-08	3.5292	562973.	0.01620	78644.	0.00
15.2000	-4.98E-08	0.1249	-0.2606	-2.11E-08	2.4845	562973.	0.01986	79693.	0.00
15.4000	-4.96E-08	0.07317	-0.2249	1.41E-08	1.4557	562973.	0.3370	1358277.	0.00
15.6000	-4.42E-08	0.03494	-0.1611	3.33E-08	0.6950	562973.	0.3002	1358277.	0.00
15.8000	-3.63E-08	0.00871	-0.1065	4.10E-08	0.1733	562973.	0.2466	1358277.	0.00
16.0000	-2.78E-08	-0.00765	-0.06294	4.12E-08	0.1522	562973.	0.1887	1358277.	0.00
16.2000	-1.98E-08	-0.01646	-0.03061	3.70E-08	0.3275	562973.	0.1346	1358277.	0.00
16.4000	-1.30E-08	-0.01989	-0.00832	3.05E-08	0.3958	562973.	0.08834	1358277.	0.00
16.6000	-7.62E-09	-0.01979	0.00568	2.34E-08	0.3937	562973.	0.05172	1358277.	0.00
16.8000	-3.63E-09	-0.01762	0.01332	1.68E-08	0.3505	562973.	0.02465	1358277.	0.00
17.0000	-8.96E-10	-0.01446	0.01640	1.11E-08	0.2877	562973.	0.00609	1358277.	0.00
17.2000	8.10E-10	-0.01106	0.01645	6.57E-09	0.2201	562973.	-0.00550	1358277.	0.00
17.4000	1.73E-09	-0.00788	0.01473	3.20E-09	0.1568	562973.	-0.01175	1358277.	0.00
17.6000	2.09E-09	-0.00517	0.01213	8.83E-10	0.1029	562973.	-0.01420	1358277.	0.00
17.8000	2.08E-09	-0.00303	0.00930	-5.73E-10	0.06022	562973.	-0.01415	1358277.	0.00
18.0000	1.86E-09	-0.00145	0.00662	-1.37E-09	0.02885	562973.	-0.01264	1358277.	0.00
18.2000	1.54E-09	-3.78E-04	0.00431	-1.69E-09	0.00753	562973.	-0.01043	1358277.	0.00
18.4000	1.18E-09	2.76E-04	0.00247	-1.71E-09	0.00549	562973.	-0.00804	1358277.	0.00
18.6000	8.51E-10	6.09E-04	0.00109	-1.55E-09	0.01211	562973.	-0.00578	1358277.	0.00
18.8000	5.62E-10	7.11E-04	1.27E-04	-1.32E-09	0.01414	562973.	-0.00382	1358277.	0.00

19.0000	3.23E-10	6.60E-04	-4.74E-04	-1.08E-09	0.01312	562973.	-0.00219	1358277.	0.00
19.2000	1.31E-10	5.21E-04	-7.83E-04	-8.67E-10	0.01036	562973.	-8.91E-04	1358277.	0.00
19.4000	-2.37E-11	3.46E-04	-8.56E-04	-7.13E-10	0.00689	562973.	1.61E-04	1358277.	0.00
19.6000	-1.54E-10	1.78E-04	-7.35E-04	-6.20E-10	0.00355	562973.	0.00105	1358277.	0.00
19.8000	-2.72E-10	5.24E-05	-4.46E-04	-5.79E-10	0.00104	562973.	0.00184	1358277.	0.00
20.0000	-3.85E-10	0.00	0.00	-5.69E-10	0.00	562973.	0.00262	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 6:

Pile-head deflection = 0.00376970 meters
Computed slope at pile head = -0.00147006 radians
Maximum bending moment = 226.43937058 kN-m
Maximum shear force = 200.00000000 kN
Depth of maximum bending moment = 2.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 16
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 7

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 300.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00840	-9.77E-11	300.0000	-0.00285	1.94E-09	562973.	0.00	0.00	0.00
0.2000	0.00783	60.0000	294.4422	-0.00284	1194.	562973.	-55.5784	1420.	0.00
0.4000	0.00726	117.7769	280.2312	-0.00281	2343.	562973.	-86.5311	2383.	0.00
0.6000	0.00671	172.0925	260.1626	-0.00276	3424.	562973.	-114.1554	3404.	0.00
0.8000	0.00616	221.8419	234.8670	-0.00269	4413.	562973.	-138.8004	4506.	0.00
1.0000	0.00563	266.0393	204.9232	-0.00260	5293.	562973.	-160.6372	5705.	0.00

1.2000	0.00512	303.8112	170.8839	-0.00250	6044.	562973.	-179.7562	7020.	0.00
1.4000	0.00463	334.3928	133.2880	-0.00238	6653.	562973.	-196.2023	8471.	0.00
1.6000	0.00417	357.1264	92.6697	-0.00226	7105.	562973.	-209.9813	10077.	0.00
1.8000	0.00373	371.4607	49.5687	-0.00213	7390.	562973.	-221.0288	11859.	0.00
2.0000	0.00331	376.9538	4.5717	-0.00200	7499.	562973.	-228.9403	13815.	0.00
2.2000	0.00293	373.2894	-21.4971	-0.00187	7426.	562973.	-31.7476	2169.	0.00
2.4000	0.00257	368.3550	-27.8416	-0.00173	7328.	562973.	-31.6981	2469.	0.00
2.6000	0.00223	362.1527	-34.1624	-0.00160	7205.	562973.	-31.5098	2821.	0.00
2.8000	0.00193	354.6901	-40.4312	-0.00148	7056.	562973.	-31.1783	3238.	0.00
3.0000	0.00164	345.9803	-46.6188	-0.00135	6883.	562973.	-30.6980	3737.	0.00
3.2000	0.00138	336.0425	-52.6948	-0.00123	6685.	562973.	-30.0621	4342.	0.00
3.4000	0.00115	324.9023	-58.6271	-0.00111	6464.	562973.	-29.2610	5088.	0.00
3.6000	9.39E-04	312.5917	-64.3815	-0.00100	6219.	562973.	-28.2821	6025.	0.00
3.8000	7.50E-04	299.1497	-69.9204	-8.93E-04	5951.	562973.	-27.1071	7232.	0.00
4.0000	5.82E-04	284.6235	-75.2019	-7.89E-04	5662.	562973.	-25.7083	8839.	0.00
4.2000	4.34E-04	269.0690	-80.1769	-6.91E-04	5353.	562973.	-24.0416	11079.	0.00
4.4000	3.05E-04	252.5528	-84.7840	-5.98E-04	5024.	562973.	-22.0297	14424.	0.00
4.6000	1.95E-04	235.1554	-88.9389	-5.11E-04	4678.	562973.	-19.5191	20037.	0.00
4.8000	1.01E-04	216.9772	-92.5032	-4.31E-04	4317.	562973.	-16.1242	31954.	0.00
5.0000	2.24E-05	198.1541	-95.1207	-3.57E-04	3942.	562973.	-10.0501	89626.	0.00
5.2000	-4.20E-05	178.9289	-94.8572	-2.90E-04	3560.	562973.	12.6850	60421.	0.00
5.4000	-9.37E-05	160.2112	-91.8868	-2.30E-04	3187.	562973.	17.0187	36329.	0.00
5.6000	-1.34E-04	142.1742	-88.2183	-1.76E-04	2828.	562973.	19.6668	29351.	0.00
5.8000	-1.64E-04	124.9239	-84.0945	-1.29E-04	2485.	562973.	21.5706	26269.	0.00
6.0000	-1.86E-04	108.5364	-79.6362	-8.74E-05	2159.	562973.	23.0131	24803.	0.00
6.2000	-1.99E-04	93.0694	-74.9226	-5.16E-05	1852.	562973.	24.1220	24219.	0.00
6.4000	-2.06E-04	78.5674	-70.0137	-2.11E-05	1563.	562973.	24.9670	24214.	0.00
6.6000	-2.08E-04	65.0639	-64.9579	4.38E-06	1294.	562973.	25.5911	24648.	0.00
6.8000	-2.04E-04	52.5842	-59.7966	2.53E-05	1046.	562973.	26.0227	25455.	0.00
7.0000	-1.98E-04	41.1453	-54.5660	4.19E-05	818.5601	562973.	26.2825	26610.	0.00
7.2000	-1.88E-04	30.7578	-49.2992	5.47E-05	611.9061	562973.	26.3857	28116.	0.00
7.4000	-1.76E-04	21.4256	-43.7409	6.40E-05	426.2492	562973.	29.1972	33243.	0.00
7.6000	-1.62E-04	13.2614	-37.9786	7.01E-05	263.8267	562973.	28.4262	35072.	0.00
7.8000	-1.48E-04	6.2342	-32.3808	7.36E-05	124.0251	562973.	27.5524	37332.	0.00
8.0000	-1.33E-04	0.3091	-26.9665	7.48E-05	6.1489	562973.	26.5897	40085.	0.00
8.2000	-1.18E-04	-4.5524	-21.7526	7.40E-05	90.5679	562973.	25.5502	43415.	0.00
8.4000	-1.03E-04	-8.3919	-16.7531	7.17E-05	166.9524	562973.	24.4440	47435.	0.00
8.6000	-8.90E-05	-11.2537	-12.3018	6.82E-05	223.8850	562973.	20.0696	45090.	0.00
8.8000	-7.58E-05	-13.3126	-8.5467	6.39E-05	264.8468	562973.	17.4812	46138.	0.00
9.0000	-6.35E-05	-14.6724	-5.3008	5.89E-05	291.8974	562973.	14.9772	47187.	0.00
9.2000	-5.22E-05	-15.4330	-2.5436	5.35E-05	307.0295	562973.	12.5956	48235.	0.00
9.4000	-4.21E-05	-15.6898	-0.2474	4.80E-05	312.1383	562973.	10.3663	49284.	0.00
9.6000	-3.30E-05	-15.5319	1.6204	4.25E-05	308.9980	562973.	8.3109	50332.	0.00
9.8000	-2.51E-05	-15.0416	3.0959	3.70E-05	299.2440	562973.	6.4443	51381.	0.00

10.0000	-1.82E-05	-14.2936	4.2178	3.18E-05	284.3618	562973.	4.7745	52430.	0.00
10.2000	-1.24E-05	-13.3545	5.0256	2.69E-05	265.6801	562973.	3.3043	53478.	0.00
10.4000	-7.45E-06	-12.2833	5.5592	2.24E-05	244.3691	562973.	2.0313	54527.	0.00
10.6000	-3.42E-06	-11.1309	5.8573	1.82E-05	221.4415	562973.	0.9494	55575.	0.00
10.8000	-1.74E-07	-9.9404	5.9571	1.44E-05	197.7584	562973.	0.04916	56624.	0.00
11.0000	2.36E-06	-8.7480	5.8939	1.11E-05	174.0361	562973.	-0.6815	57673.	0.00
11.2000	4.28E-06	-7.5829	5.7001	8.23E-06	150.8562	562973.	-1.2562	58721.	0.00
11.4000	5.66E-06	-6.4680	5.4055	5.73E-06	128.6759	562973.	-1.6900	59770.	0.00
11.6000	6.57E-06	-5.4207	5.0367	3.62E-06	107.8405	562973.	-1.9985	60818.	0.00
11.8000	7.10E-06	-4.4533	4.6171	1.87E-06	88.5954	562973.	-2.1975	61867.	0.00
12.0000	7.32E-06	-3.5738	4.1671	4.42E-07	71.0990	562973.	-2.3025	62916.	0.00
12.2000	7.28E-06	-2.7865	3.7040	-6.88E-07	55.4348	562973.	-2.3285	63964.	0.00
12.4000	7.04E-06	-2.0922	3.2422	-1.55E-06	41.6236	562973.	-2.2898	65013.	0.00
12.6000	6.66E-06	-1.4896	2.7932	-2.19E-06	29.6346	562973.	-2.1995	66061.	0.00
12.8000	6.17E-06	-0.9749	2.3663	-2.63E-06	19.3959	562973.	-2.0697	67110.	0.00
13.0000	5.61E-06	-0.5431	1.9682	-2.90E-06	10.8042	562973.	-1.9111	68159.	0.00
13.2000	5.01E-06	-0.1877	1.6038	-3.03E-06	3.7333	562973.	-1.7333	69207.	0.00
13.4000	4.40E-06	0.09844	1.2760	-3.04E-06	1.9584	562973.	-1.5445	70256.	0.00
13.6000	3.79E-06	0.3228	0.9864	-2.97E-06	6.4210	562973.	-1.3517	71304.	0.00
13.8000	3.21E-06	0.4930	0.7351	-2.82E-06	9.8079	562973.	-1.1610	72353.	0.00
14.0000	2.66E-06	0.6168	0.5213	-2.63E-06	12.2710	562973.	-0.9770	73402.	0.00
14.2000	2.16E-06	0.7015	0.3433	-2.39E-06	13.9566	562973.	-0.8035	74450.	0.00
14.4000	1.71E-06	0.7541	0.1986	-2.13E-06	15.0027	562973.	-0.6436	75499.	0.00
14.6000	1.31E-06	0.7810	0.08425	-1.86E-06	15.5367	562973.	-0.4995	76547.	0.00
14.8000	9.61E-07	0.7878	-0.00296	-1.58E-06	15.6732	562973.	-0.3727	77596.	0.00
15.0000	6.72E-07	0.7798	-0.06665	-1.30E-06	15.5131	562973.	-0.2643	78644.	0.00
15.2000	4.39E-07	0.7612	-0.1106	-1.03E-06	15.1428	562973.	-0.1749	79693.	0.00
15.4000	2.60E-07	0.7355	-0.3045	-7.65E-07	14.6333	562973.	-1.7648	1358277.	0.00
15.6000	1.33E-07	0.6393	-0.5714	-5.20E-07	12.7193	562973.	-0.9039	1358277.	0.00
15.8000	5.17E-08	0.5070	-0.6969	-3.17E-07	10.0861	562973.	-0.3514	1358277.	0.00
16.0000	6.42E-09	0.3606	-0.8050	-1.63E-07	7.1733	562973.	-0.7288	2.27E+07	0.00
16.2000	-1.33E-08	0.1850	-0.7320	-6.57E-08	3.6805	562973.	1.4585	2.20E+07	0.00
16.4000	-1.98E-08	0.06777	-0.3562	-2.08E-08	1.3483	562973.	2.2990	2.32E+07	0.00
16.6000	-2.16E-08	0.04251	-0.1117	-1.18E-09	0.8457	562973.	0.1467	1358277.	0.00
16.8000	-2.03E-08	0.02311	-0.08319	1.05E-08	0.4597	562973.	0.1380	1358277.	0.00
17.0000	-1.74E-08	0.00923	-0.05757	1.62E-08	0.1836	562973.	0.1182	1358277.	0.00
17.2000	-1.38E-08	8.02E-05	-0.03635	1.79E-08	0.00159	562973.	0.09396	1358277.	0.00
17.4000	-1.03E-08	-0.00531	-0.01999	1.69E-08	0.1057	562973.	0.06967	1358277.	0.00
17.6000	-7.06E-09	-0.00792	-0.00823	1.46E-08	0.1575	562973.	0.04794	1358277.	0.00
17.8000	-4.42E-09	-0.00860	-4.31E-04	1.17E-08	0.1711	562973.	0.03003	1358277.	0.00
18.0000	-2.40E-09	-0.00809	0.00420	8.69E-09	0.1609	562973.	0.01627	1358277.	0.00
18.2000	-9.44E-10	-0.00692	0.00647	6.03E-09	0.1377	562973.	0.00641	1358277.	0.00
18.4000	1.57E-11	-0.00550	0.00710	3.82E-09	0.1094	562973.	-1.07E-04	1358277.	0.00
18.6000	5.84E-10	-0.00408	0.00669	2.12E-09	0.08125	562973.	-0.00397	1358277.	0.00

18.8000	8.63E-10	-0.00283	0.00571	8.91E-10	0.05621	562973.	-0.00586	1358277.	0.00
19.0000	9.41E-10	-0.00180	0.00448	6.90E-11	0.03584	562973.	-0.00639	1358277.	0.00
19.2000	8.91E-10	-0.00103	0.00324	-4.35E-10	0.02055	562973.	-0.00605	1358277.	0.00
19.4000	7.67E-10	-5.07E-04	0.00211	-7.08E-10	0.01008	562973.	-0.00521	1358277.	0.00
19.6000	6.07E-10	-1.88E-04	0.00118	-8.31E-10	0.00375	562973.	-0.00412	1358277.	0.00
19.8000	4.34E-10	-3.52E-05	4.71E-04	-8.71E-10	7.00E-04	562973.	-0.00295	1358277.	0.00
20.0000	2.59E-10	0.00	0.00	-8.77E-10	0.00	562973.	-0.00176	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 7:

Pile-head deflection = 0.00839917 meters
Computed slope at pile head = -0.00284979 radians
Maximum bending moment = 376.95384886 kN-m
Maximum shear force = 300.00000000 kN
Depth of maximum bending moment = 2.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 24
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 8

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 400.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.02395	0.00	400.0000	-0.00630	0.00	562973.	0.00	0.00	0.00
0.2000	0.02268	80.0000	397.8230	-0.00629	1592.	562973.	-21.7705	191.9376	0.00
0.4000	0.02143	159.1292	390.6688	-0.00625	3166.	562973.	-49.7715	464.5066	0.00
0.6000	0.02019	236.2675	377.4199	-0.00618	4700.	562973.	-82.7168	819.5475	0.00
0.8000	0.01896	310.0972	357.2184	-0.00608	6169.	562973.	-119.2980	1258.	0.00

1.0000	0.01775	379.1549	329.4448	-0.00596	7543.	562973.	-158.4387	1785.	0.00
1.2000	0.01658	441.8751	293.7735	-0.00581	8791.	562973.	-198.2739	2392.	0.00
1.4000	0.01543	496.6643	250.4398	-0.00565	9881.	562973.	-235.0632	3047.	0.00
1.6000	0.01432	542.0510	200.0728	-0.00546	10784.	562973.	-268.6065	3752.	0.00
1.8000	0.01324	576.6934	143.3050	-0.00526	11473.	562973.	-299.0713	4516.	0.00
2.0000	0.01221	599.3730	80.7380	-0.00505	11924.	562973.	-326.5989	5348.	0.00
2.2000	0.01122	608.9886	43.1096	-0.00484	12115.	562973.	-49.6856	885.3749	0.00
2.4000	0.01028	616.6168	33.1084	-0.00462	12267.	562973.	-50.3266	979.3478	0.00
2.6000	0.00938	622.2320	22.9933	-0.00440	12379.	562973.	-50.8241	1084.	0.00
2.8000	0.00852	625.8141	12.7933	-0.00418	12450.	562973.	-51.1758	1202.	0.00
3.0000	0.00770	627.3493	2.5378	-0.00396	12481.	562973.	-51.3793	1334.	0.00
3.2000	0.00693	626.8293	-7.7434	-0.00373	12470.	562973.	-51.4323	1483.	0.00
3.4000	0.00621	624.2519	-18.0198	-0.00351	12419.	562973.	-51.3320	1653.	0.00
3.6000	0.00553	619.6214	-28.2605	-0.00329	12327.	562973.	-51.0756	1847.	0.00
3.8000	0.00489	612.9477	-38.4341	-0.00307	12194.	562973.	-50.6599	2070.	0.00
4.0000	0.00430	604.2477	-48.5082	-0.00286	12021.	562973.	-50.0815	2329.	0.00
4.2000	0.00375	593.5445	-58.4500	-0.00264	11808.	562973.	-49.3360	2630.	0.00
4.4000	0.00324	580.8677	-68.2254	-0.00243	11556.	562973.	-48.4184	2985.	0.00
4.6000	0.00278	566.2543	-77.7995	-0.00223	11265.	562973.	-47.3226	3406.	0.00
4.8000	0.00235	549.7479	-87.1358	-0.00203	10937.	562973.	-46.0405	3914.	0.00
5.0000	0.00197	531.4000	-96.1960	-0.00184	10572.	562973.	-44.5616	4534.	0.00
5.2000	0.00162	511.2695	-104.9393	-0.00165	10171.	562973.	-42.8717	5304.	0.00
5.4000	0.00130	489.4242	-113.3216	-0.00148	9737.	562973.	-40.9506	6282.	0.00
5.6000	0.00103	465.9409	-121.2935	-0.00131	9270.	562973.	-38.7685	7559.	0.00
5.8000	7.81E-04	440.9069	-128.7982	-0.00115	8772.	562973.	-36.2792	9292.	0.00
6.0000	5.67E-04	414.4216	-135.7667	-9.94E-04	8245.	562973.	-33.4053	11777.	0.00
6.2000	3.83E-04	386.6002	-142.1076	-8.52E-04	7691.	562973.	-30.0042	15661.	0.00
6.4000	2.27E-04	357.5786	-147.6845	-7.20E-04	7114.	562973.	-25.7649	22748.	0.00
6.6000	9.53E-05	327.5264	-152.2352	-5.98E-04	6516.	562973.	-19.7418	41442.	0.00
6.8000	-1.27E-05	296.6845	-153.1794	-4.87E-04	5902.	562973.	10.3002	162176.	0.00
7.0000	-9.96E-05	266.2546	-150.0575	-3.87E-04	5297.	562973.	20.9185	42006.	0.00
7.2000	-1.68E-04	236.6615	-145.4249	-2.98E-04	4708.	562973.	25.4079	30324.	0.00
7.4000	-2.19E-04	208.0847	-139.7428	-2.19E-04	4140.	562973.	31.4129	28722.	0.00
7.6000	-2.55E-04	180.7644	-133.2949	-1.50E-04	3596.	562973.	33.0660	25922.	0.00
7.8000	-2.79E-04	154.7667	-126.5830	-9.02E-05	3079.	562973.	34.0532	24441.	0.00
8.0000	-2.91E-04	130.1312	-119.7220	-3.96E-05	2589.	562973.	34.5566	23735.	0.00
8.2000	-2.94E-04	106.8779	-112.7977	2.52E-06	2126.	562973.	34.6864	23557.	0.00
8.4000	-2.90E-04	85.0121	-105.8774	3.66E-05	1691.	562973.	34.5168	23790.	0.00
8.6000	-2.80E-04	64.5270	-96.1168	6.32E-05	1284.	562973.	63.0892	45090.	0.00
8.8000	-2.65E-04	46.5654	-83.6965	8.29E-05	926.3893	562973.	61.1131	46138.	0.00
9.0000	-2.47E-04	31.0484	-71.7653	9.67E-05	617.6874	562973.	58.1998	47187.	0.00
9.2000	-2.26E-04	17.8593	-60.4890	1.05E-04	355.2995	562973.	54.5632	48235.	0.00
9.4000	-2.05E-04	6.8528	-49.9927	1.10E-04	136.3316	562973.	50.3996	49284.	0.00
9.6000	-1.82E-04	-2.1378	-40.3641	1.11E-04	42.5296	562973.	45.8859	50332.	0.00

9.8000	-1.60E-04	-9.2929	-31.6577	1.09E-04	184.8760	562973.	41.1784	51381.	0.00
10.0000	-1.39E-04	-14.8009	-23.8986	1.04E-04	294.4536	562973.	36.4128	52430.	0.00
10.2000	-1.19E-04	-18.8523	-17.0869	9.83E-05	375.0548	562973.	31.7042	53478.	0.00
10.4000	-9.96E-05	-21.6356	-11.2017	9.11E-05	430.4267	562973.	27.1476	54527.	0.00
10.6000	-8.21E-05	-23.3330	-6.2051	8.31E-05	464.1952	562973.	22.8189	55575.	0.00
10.8000	-6.63E-05	-24.1176	-2.0455	7.47E-05	479.8049	562973.	18.7766	56624.	0.00
11.0000	-5.22E-05	-24.1512	1.3384	6.61E-05	480.4727	562973.	15.0628	57673.	0.00
11.2000	-3.99E-05	-23.5822	4.0152	5.77E-05	469.1539	562973.	11.7051	58721.	0.00
11.4000	-2.92E-05	-22.5451	6.0576	4.95E-05	448.5205	562973.	8.7184	59770.	0.00
11.6000	-2.01E-05	-21.1592	7.5401	4.17E-05	420.9492	562973.	6.1067	60818.	0.00
11.8000	-1.25E-05	-19.5291	8.5372	3.45E-05	388.5184	562973.	3.8648	61867.	0.00
12.0000	-6.29E-06	-17.7443	9.1217	2.79E-05	353.0120	562973.	1.9797	62916.	0.00
12.2000	-1.35E-06	-15.8804	9.3629	2.19E-05	315.9303	562973.	0.4329	63964.	0.00
12.4000	2.46E-06	-13.9991	9.3263	1.66E-05	278.5040	562973.	-0.7990	65013.	0.00
12.6000	5.27E-06	-12.1499	9.0722	1.19E-05	241.7136	562973.	-1.7423	66061.	0.00
12.8000	7.23E-06	-10.3703	8.6554	7.93E-06	206.3097	562973.	-2.4254	67110.	0.00
13.0000	8.44E-06	-8.6877	8.1251	4.54E-06	172.8359	562973.	-2.8780	68159.	0.00
13.2000	9.04E-06	-7.1202	7.5243	1.73E-06	141.6522	562973.	-3.1297	69207.	0.00
13.4000	9.14E-06	-5.6779	6.8904	-5.41E-07	112.9591	562973.	-3.2099	70256.	0.00
13.6000	8.83E-06	-4.3641	6.2546	-2.32E-06	86.8204	562973.	-3.1474	71304.	0.00
13.8000	8.21E-06	-3.1761	5.6430	-3.66E-06	63.1862	562973.	-2.9694	72353.	0.00
14.0000	7.36E-06	-2.1069	5.0758	-4.60E-06	41.9150	562973.	-2.7020	73402.	0.00
14.2000	6.37E-06	-1.1458	4.5686	-5.18E-06	22.7940	562973.	-2.3701	74450.	0.00
14.4000	5.29E-06	-0.2794	4.1319	-5.43E-06	5.5591	562973.	-1.9970	75499.	0.00
14.6000	4.19E-06	0.5070	3.7717	-5.39E-06	10.0867	562973.	-1.6051	76547.	0.00
14.8000	3.13E-06	1.2292	3.4896	-5.08E-06	24.4551	562973.	-1.2156	77596.	0.00
15.0000	2.16E-06	1.9029	3.2831	-4.53E-06	37.8563	562973.	-0.8493	78644.	0.00
15.2000	1.32E-06	2.5425	3.1456	-3.74E-06	50.5816	562973.	-0.5267	79693.	0.00
15.4000	6.64E-07	3.1611	0.8330	-2.73E-06	62.8878	562973.	-22.5993	6802959.	0.00
15.6000	2.32E-07	2.8757	-3.1437	-1.65E-06	57.2101	562973.	-17.1674	1.48E+07	0.00
15.8000	3.14E-09	1.9036	-4.8626	-8.04E-07	37.8709	562973.	-0.02131	1358277.	0.00
16.0000	-9.01E-08	0.9307	-3.9274	-3.01E-07	18.5149	562973.	9.3729	2.08E+07	0.00
16.2000	-1.17E-07	0.3326	-1.8242	-7.64E-08	6.6175	562973.	11.6589	1.99E+07	0.00
16.4000	-1.21E-07	0.2010	-0.5764	1.84E-08	3.9980	562973.	0.8192	1358277.	0.00
16.6000	-1.10E-07	0.1021	-0.4199	7.22E-08	2.0304	562973.	0.7457	1358277.	0.00
16.8000	-9.17E-08	0.03298	-0.2831	9.62E-08	0.6561	562973.	0.6230	1358277.	0.00
17.0000	-7.13E-08	-0.01118	-0.1724	1.00E-07	0.2223	562973.	0.4843	1358277.	0.00
17.2000	-5.17E-08	-0.03596	-0.08882	9.17E-08	0.7154	562973.	0.3510	1358277.	0.00
17.4000	-3.46E-08	-0.04671	-0.03021	7.70E-08	0.9292	562973.	0.2351	1358277.	0.00
17.6000	-2.09E-08	-0.04805	0.00748	6.02E-08	0.9558	562973.	0.1417	1358277.	0.00
17.8000	-1.05E-08	-0.04371	0.02881	4.39E-08	0.8697	562973.	0.07155	1358277.	0.00
18.0000	-3.31E-09	-0.03652	0.03821	2.97E-08	0.7266	562973.	0.02245	1358277.	0.00
18.2000	1.33E-09	-0.02843	0.03955	1.81E-08	0.5656	562973.	-0.00902	1358277.	0.00
18.4000	3.94E-09	-0.02070	0.03597	9.39E-09	0.4119	562973.	-0.02678	1358277.	0.00

18.6000	5.09E-09	-0.01404	0.02984	3.22E-09	0.2794	562973.	-0.03455	1358277.	0.00
18.8000	5.23E-09	-0.00877	0.02283	-8.30E-10	0.1744	562973.	-0.03553	1358277.	0.00
19.0000	4.75E-09	-0.00491	0.01605	-3.26E-09	0.09774	562973.	-0.03229	1358277.	0.00
19.2000	3.93E-09	-0.00235	0.01015	-4.55E-09	0.04675	562973.	-0.02668	1358277.	0.00
19.4000	2.93E-09	-8.53E-04	0.00549	-5.12E-09	0.01698	562973.	-0.01993	1358277.	0.00
19.6000	1.88E-09	-1.55E-04	0.00222	-5.30E-09	0.00307	562973.	-0.01277	1358277.	0.00
19.8000	8.16E-10	3.35E-05	3.86E-04	-5.32E-09	6.67E-04	562973.	-0.00554	1358277.	0.00
20.0000	-2.47E-10	0.00	0.00	-5.31E-09	0.00	562973.	0.00168	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 8:

Pile-head deflection = 0.02394580 meters
Computed slope at pile head = -0.00630416 radians
Maximum bending moment = 627.34928576 kN-m
Maximum shear force = 400.00000000 kN
Depth of maximum bending moment = 3.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 103
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 9

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 450.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.1223	1.56E-09	450.0000	-0.02142	3.11E-08	562973.	0.00	0.00	0.00
0.2000	0.1180	90.0000	449.3683	-0.02140	1790.	562973.	-6.3173	10.7090	0.00
0.4000	0.1137	179.7473	447.5225	-0.02135	3576.	562973.	-12.1405	21.3546	0.00
0.6000	0.1094	269.0090	444.5183	-0.02127	5352.	562973.	-17.9016	32.7150	0.00

0.8000	0.1052	357.5546	440.3836	-0.02116	7113.	562973.	-23.4453	44.5751	0.00
1.0000	0.1010	445.1624	435.1668	-0.02102	8856.	562973.	-28.7232	56.8919	0.00
1.2000	0.09679	531.6213	428.9202	-0.02085	10576.	562973.	-33.7419	69.7244	0.00
1.4000	0.09264	616.7305	421.6927	-0.02064	12269.	562973.	-38.5336	83.1934	0.00
1.6000	0.08853	700.2984	413.5254	-0.02041	13932.	562973.	-43.1392	97.4570	0.00
1.8000	0.08447	782.1407	404.4516	-0.02014	15560.	562973.	-47.5987	112.6958	0.00
2.0000	0.08047	862.0790	394.4971	-0.01985	17151.	562973.	-51.9465	129.1051	0.00
2.2000	0.07653	939.9395	379.8807	-0.01953	18700.	562973.	-94.2172	246.2174	0.00
2.4000	0.07266	1014.	360.8001	-0.01919	20174.	562973.	-96.5888	265.8702	0.00
2.6000	0.06886	1084.	341.2621	-0.01881	21571.	562973.	-98.7919	286.9460	0.00
2.8000	0.06513	1151.	321.3005	-0.01842	22889.	562973.	-100.8236	309.5909	0.00
3.0000	0.06149	1213.	300.9501	-0.01800	24127.	562973.	-102.6807	333.9695	0.00
3.2000	0.05793	1271.	280.2460	-0.01756	25284.	562973.	-104.3604	360.2677	0.00
3.4000	0.05447	1325.	259.2240	-0.01709	26358.	562973.	-105.8597	388.6965	0.00
3.6000	0.05110	1375.	237.9204	-0.01661	27347.	562973.	-107.1756	419.4958	0.00
3.8000	0.04782	1420.	216.3723	-0.01612	28251.	562973.	-108.3053	452.9394	0.00
4.0000	0.04465	1461.	194.6172	-0.01561	29069.	562973.	-109.2459	489.3415	0.00
4.2000	0.04158	1498.	172.6932	-0.01508	29800.	562973.	-109.9944	529.0631	0.00
4.4000	0.03862	1530.	150.6389	-0.01454	30443.	562973.	-110.5480	572.5217	0.00
4.6000	0.03576	1558.	128.4938	-0.01399	30998.	562973.	-110.9037	620.2021	0.00
4.8000	0.03302	1582.	106.2976	-0.01344	31466.	562973.	-111.0586	672.6696	0.00
5.0000	0.03039	1601.	84.0907	-0.01287	31844.	562973.	-111.0096	730.5871	0.00
5.2000	0.02787	1615.	61.9144	-0.01230	32135.	562973.	-110.7536	794.7367	0.00
5.4000	0.02547	1625.	39.8103	-0.01172	32337.	562973.	-110.2874	866.0462	0.00
5.6000	0.02318	1631.	17.8208	-0.01115	32451.	562973.	-109.6075	945.6239	0.00
5.8000	0.02101	1633.	-4.0110	-0.01057	32479.	562973.	-108.7104	1035.	0.00
6.0000	0.01896	1630.	-25.6412	-0.00999	32420.	562973.	-107.5921	1135.	0.00
6.2000	0.01702	1622.	-47.0252	-0.00941	32275.	562973.	-106.2484	1249.	0.00
6.4000	0.01519	1611.	-68.1175	-0.00883	32045.	562973.	-104.6746	1378.	0.00
6.6000	0.01348	1595.	-88.8716	-0.00827	31733.	562973.	-102.8656	1526.	0.00
6.8000	0.01189	1575.	-109.2397	-0.00770	31338.	562973.	-100.8153	1696.	0.00
7.0000	0.01040	1551.	-129.1729	-0.00715	30863.	562973.	-98.5168	1894.	0.00
7.2000	0.00903	1524.	-148.6207	-0.00660	30310.	562973.	-95.9618	2126.	0.00
7.4000	0.00776	1492.	-168.5394	-0.00606	29681.	562973.	-103.2251	2660.	0.00
7.6000	0.00660	1456.	-188.6422	-0.00554	28969.	562973.	-97.8026	2963.	0.00
7.8000	0.00554	1416.	-207.6503	-0.00503	28180.	562973.	-92.2787	3329.	0.00
8.0000	0.00459	1373.	-225.5420	-0.00454	27317.	562973.	-86.6381	3776.	0.00
8.2000	0.00373	1326.	-242.2918	-0.00406	26385.	562973.	-80.8594	4335.	0.00
8.4000	0.00297	1276.	-257.8689	-0.00359	25388.	562973.	-74.9119	5051.	0.00
8.6000	0.00229	1223.	-291.4238	-0.00315	24333.	562973.	-260.6368	22734.	0.00
8.8000	0.00171	1160.	-340.5083	-0.00273	23069.	562973.	-230.2089	26982.	0.00
9.0000	0.00120	1087.	-383.1668	-0.00233	21623.	562973.	-196.3756	32667.	0.00
9.2000	7.75E-04	1006.	-418.6556	-0.00196	20020.	562973.	-158.5127	40887.	0.00
9.4000	4.20E-04	919.4274	-444.8557	-0.00161	18291.	562973.	-103.4880	49284.	0.00

9.6000	1.30E-04	828.3865	-458.4733	-0.00130	16480.	562973.	-32.6880	50332.	0.00
9.8000	-1.01E-04	736.0381	-459.1388	-0.00103	14643.	562973.	26.0329	51381.	0.00
10.0000	-2.80E-04	644.7310	-449.1886	-7.80E-04	12827.	562973.	73.4688	52430.	0.00
10.2000	-4.13E-04	556.3627	-430.7885	-5.67E-04	11068.	562973.	110.5321	53478.	0.00
10.4000	-5.07E-04	472.4156	-405.9139	-3.84E-04	9398.	562973.	138.2139	54527.	0.00
10.6000	-5.67E-04	393.9971	-376.3376	-2.30E-04	7838.	562973.	157.5498	55575.	0.00
10.8000	-5.99E-04	321.8806	-343.6236	-1.03E-04	6404.	562973.	169.5895	56624.	0.00
11.0000	-6.08E-04	256.5476	-309.1277	-2.06E-07	5104.	562973.	175.3700	57673.	0.00
11.2000	-5.99E-04	198.2295	-274.0012	8.06E-05	3944.	562973.	175.8947	58721.	0.00
11.4000	-5.76E-04	146.9471	-239.2002	1.42E-04	2923.	562973.	172.1152	59770.	0.00
11.6000	-5.42E-04	102.5494	-205.4969	1.86E-04	2040.	562973.	164.9178	60818.	0.00
11.8000	-5.01E-04	64.7484	-173.4937	2.16E-04	1288.	562973.	155.1143	61867.	0.00
12.0000	-4.56E-04	33.1519	-143.6388	2.33E-04	659.5364	562973.	143.4348	62916.	0.00
12.2000	-4.08E-04	7.2929	-116.2428	2.40E-04	145.0867	562973.	130.5251	63964.	0.00
12.4000	-3.60E-04	-13.3452	-91.4958	2.39E-04	265.4945	562973.	116.9453	65013.	0.00
12.6000	-3.12E-04	-29.3055	-69.4841	2.32E-04	583.0135	562973.	103.1715	66061.	0.00
12.8000	-2.67E-04	-41.1388	-50.2070	2.19E-04	818.4313	562973.	89.5994	67110.	0.00
13.0000	-2.25E-04	-49.3883	-33.5923	2.03E-04	982.5481	562973.	76.5480	68159.	0.00
13.2000	-1.86E-04	-54.5757	-19.5108	1.85E-04	1086.	562973.	64.2663	69207.	0.00
13.4000	-1.51E-04	-57.1926	-7.7903	1.65E-04	1138.	562973.	52.9388	70256.	0.00
13.6000	-1.20E-04	-57.6919	1.7728	1.45E-04	1148.	562973.	42.6929	71304.	0.00
13.8000	-9.29E-05	-56.4835	9.4027	1.24E-04	1124.	562973.	33.6053	72353.	0.00
14.0000	-7.01E-05	-53.9308	15.3341	1.05E-04	1073.	562973.	25.7090	73402.	0.00
14.2000	-5.10E-05	-50.3498	19.8050	8.61E-05	1002.	562973.	18.9996	74450.	0.00
14.4000	-3.56E-05	-46.0088	23.0490	6.90E-05	915.3166	562973.	13.4413	75499.	0.00
14.6000	-2.34E-05	-41.1302	25.2904	5.35E-05	818.2592	562973.	8.9723	76547.	0.00
14.8000	-1.42E-05	-35.8927	26.7386	3.98E-05	714.0619	562973.	5.5096	77596.	0.00
15.0000	-7.51E-06	-30.4348	27.5848	2.81E-05	605.4802	562973.	2.9528	78644.	0.00
15.2000	-2.98E-06	-24.8587	27.9989	1.82E-05	494.5487	562973.	1.1875	79693.	0.00
15.4000	-2.17E-07	-19.2352	29.6320	1.04E-05	382.6723	562973.	15.1441	1.39E+07	0.00
15.6000	1.18E-06	-13.0059	28.5056	4.67E-06	258.7445	562973.	-26.4083	4479689.	0.00
15.8000	1.65E-06	-7.8330	22.9118	9.69E-07	155.8319	562973.	-29.5295	3576864.	0.00
16.0000	1.57E-06	-3.8412	17.0607	-1.10E-06	76.4181	562973.	-28.9815	3699658.	0.00
16.2000	1.21E-06	-1.0087	11.5077	-1.97E-06	20.0671	562973.	-26.5485	4390487.	0.00
16.4000	7.80E-07	0.7619	6.5568	-2.01E-06	15.1573	562973.	-22.9605	5884691.	0.00
16.6000	4.05E-07	1.6140	2.3825	-1.59E-06	32.1103	562973.	-18.7825	9264683.	0.00
16.8000	1.45E-07	1.7149	-1.0682	-9.96E-07	34.1166	562973.	-15.7243	2.16E+07	0.00
17.0000	6.90E-09	1.1868	-2.6453	-4.81E-07	23.6100	562973.	-0.04686	1358277.	0.00
17.2000	-4.71E-08	0.6568	-2.2623	-1.54E-07	13.0660	562973.	3.8764	1.64E+07	0.00
17.4000	-5.45E-08	0.2818	-1.4865	1.32E-08	5.6068	562973.	3.8820	1.42E+07	0.00
17.6000	-4.19E-08	0.06217	-0.8019	7.43E-08	1.2368	562973.	2.9639	1.42E+07	0.00
17.8000	-2.48E-08	-0.03893	-0.3172	7.84E-08	0.7745	562973.	1.8835	1.52E+07	0.00
18.0000	-1.05E-08	-0.06469	-0.03852	6.00E-08	1.2871	562973.	0.9029	1.72E+07	0.00
18.2000	-7.86E-10	-0.05434	0.05980	3.89E-08	1.0811	562973.	0.08023	2.04E+07	0.00

18.4000	5.06E-09	-0.04078	0.06439	2.20E-08	0.8112	562973.	-0.03435	1358277.	0.00
18.6000	8.01E-09	-0.02859	0.05551	9.66E-09	0.5687	562973.	-0.05437	1358277.	0.00
18.8000	8.92E-09	-0.01857	0.04402	1.28E-09	0.3694	562973.	-0.06059	1358277.	0.00
19.0000	8.52E-09	-0.01098	0.03217	-3.97E-09	0.2184	562973.	-0.05785	1358277.	0.00
19.2000	7.33E-09	-0.00570	0.02141	-6.93E-09	0.1134	562973.	-0.04981	1358277.	0.00
19.4000	5.75E-09	-0.00241	0.01252	-8.37E-09	0.04804	562973.	-0.03903	1358277.	0.00
19.6000	3.99E-09	-6.91E-04	0.00591	-8.92E-09	0.01374	562973.	-0.02707	1358277.	0.00
19.8000	2.18E-09	-4.96E-05	0.00173	-9.05E-09	9.87E-04	562973.	-0.01479	1358277.	0.00
20.0000	3.65E-10	0.00	0.00	-9.06E-09	0.00	562973.	-0.00248	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 9:

Pile-head deflection = 0.12226423 meters
Computed slope at pile head = -0.02141713 radians
Maximum bending moment = 1633. kN-m
Maximum shear force = -459.13880396 kN
Depth of maximum bending moment = 5.80000000 meters below pile head
Depth of maximum shear force = 9.80000000 meters below pile head
Number of iterations = 37
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 10

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 470.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.1316	-3.52E-09	470.0000	-0.02285	6.99E-08	562973.	0.00	0.00	0.00
0.2000	0.1270	94.0000	469.3683	-0.02284	1870.	562973.	-6.3173	9.9451	0.00
0.4000	0.1225	187.7473	467.5225	-0.02279	3735.	562973.	-12.1405	19.8246	0.00

0.6000	0.1179	281.0090	464.5183	-0.02270	5590.	562973.	-17.9016	30.3601	0.00
0.8000	0.1134	373.5546	460.3836	-0.02259	7432.	562973.	-23.4453	41.3505	0.00
1.0000	0.1089	465.1624	455.1668	-0.02244	9254.	562973.	-28.7232	52.7546	0.00
1.2000	0.1044	555.6213	448.9203	-0.02226	11054.	562973.	-33.7419	64.6258	0.00
1.4000	0.09999	644.7305	441.6927	-0.02204	12827.	562973.	-38.5336	77.0743	0.00
1.6000	0.09560	732.2984	433.5254	-0.02180	14569.	562973.	-43.1392	90.2446	0.00
1.8000	0.09127	818.1407	424.4516	-0.02152	16276.	562973.	-47.5987	104.3017	0.00
2.0000	0.08700	902.0791	414.4971	-0.02122	17946.	562973.	-51.9465	119.4234	0.00
2.2000	0.08278	983.9396	399.6309	-0.02088	19575.	562973.	-96.7160	233.6589	0.00
2.4000	0.07864	1062.	380.0422	-0.02052	21126.	562973.	-99.1705	252.2069	0.00
2.6000	0.07458	1136.	359.9798	-0.02013	22599.	562973.	-101.4543	272.0830	0.00
2.8000	0.07059	1206.	339.4779	-0.01971	23991.	562973.	-103.5641	293.4223	0.00
3.0000	0.06669	1272.	318.5718	-0.01927	25301.	562973.	-105.4969	316.3769	0.00
3.2000	0.06288	1333.	297.2972	-0.01881	26526.	562973.	-107.2496	341.1183	0.00
3.4000	0.05917	1391.	275.6903	-0.01833	27666.	562973.	-108.8192	367.8410	0.00
3.6000	0.05555	1444.	253.7881	-0.01782	28720.	562973.	-110.2027	396.7659	0.00
3.8000	0.05204	1492.	231.6281	-0.01730	29686.	562973.	-111.3972	428.1447	0.00
4.0000	0.04863	1536.	209.2484	-0.01676	30563.	562973.	-112.3996	462.2660	0.00
4.2000	0.04533	1576.	186.6878	-0.01621	31351.	562973.	-113.2070	499.4609	0.00
4.4000	0.04215	1611.	163.9854	-0.01564	32049.	562973.	-113.8163	540.1119	0.00
4.6000	0.03907	1641.	141.1813	-0.01507	32656.	562973.	-114.2246	584.6623	0.00
4.8000	0.03612	1667.	118.3160	-0.01448	33172.	562973.	-114.4288	633.6283	0.00
5.0000	0.03328	1689.	95.4306	-0.01388	33598.	562973.	-114.4257	687.6145	0.00
5.2000	0.03057	1706.	72.5668	-0.01328	33932.	562973.	-114.2121	747.3324	0.00
5.4000	0.02797	1718.	49.7671	-0.01267	34175.	562973.	-113.7847	813.6250	0.00
5.6000	0.02550	1726.	27.0746	-0.01206	34328.	562973.	-113.1399	887.4969	0.00
5.8000	0.02315	1729.	4.5333	-0.01145	34391.	562973.	-112.2739	970.1543	0.00
6.0000	0.02092	1727.	-17.8124	-0.01083	34364.	562973.	-111.1829	1063.	0.00
6.2000	0.01881	1722.	-39.9169	-0.01022	34249.	562973.	-109.8623	1168.	0.00
6.4000	0.01683	1711.	-61.7339	-0.00961	34046.	562973.	-108.3076	1287.	0.00
6.6000	0.01497	1697.	-83.2160	-0.00901	33758.	562973.	-106.5132	1423.	0.00
6.8000	0.01323	1678.	-104.3147	-0.00841	33384.	562973.	-104.4733	1580.	0.00
7.0000	0.01161	1655.	-124.9801	-0.00781	32927.	562973.	-102.1807	1761.	0.00
7.2000	0.01010	1628.	-145.1609	-0.00723	32390.	562973.	-99.6275	1972.	0.00
7.4000	0.00871	1597.	-165.8521	-0.00666	31772.	562973.	-107.2849	2463.	0.00
7.6000	0.00744	1562.	-186.7581	-0.00610	31070.	562973.	-101.7746	2736.	0.00
7.8000	0.00627	1522.	-206.5518	-0.00555	30286.	562973.	-96.1630	3065.	0.00
8.0000	0.00522	1479.	-225.2117	-0.00502	29426.	562973.	-90.4358	3466.	0.00
8.2000	0.00427	1432.	-242.7126	-0.00450	28494.	562973.	-84.5734	3963.	0.00
8.4000	0.00342	1382.	-259.0248	-0.00400	27495.	562973.	-78.5483	4594.	0.00
8.6000	0.00267	1329.	-295.4647	-0.00352	26433.	562973.	-285.8505	21420.	0.00
8.8000	0.00201	1264.	-349.5018	-0.00306	25143.	562973.	-254.5209	25290.	0.00
9.0000	0.00145	1189.	-396.9269	-0.00262	23651.	562973.	-219.7301	30384.	0.00
9.2000	9.64E-04	1105.	-436.9993	-0.00221	21985.	562973.	-180.9942	37536.	0.00

9.4000	5.61E-04	1014.	-468.8006	-0.00184	20174.	562973.	-137.0186	48854.	0.00
9.6000	2.30E-04	917.5507	-488.2790	-0.00149	18254.	562973.	-57.7655	50332.	0.00
9.8000	-3.67E-05	818.7396	-493.1135	-0.00119	16288.	562973.	9.4207	51381.	0.00
10.0000	-2.45E-04	720.3053	-485.7566	-9.12E-04	14330.	562973.	64.1484	52430.	0.00
10.2000	-4.02E-04	624.4369	-468.6045	-6.73E-04	12423.	562973.	107.3728	53478.	0.00
10.4000	-5.14E-04	532.8635	-443.8526	-4.68E-04	10601.	562973.	140.1460	54527.	0.00
10.6000	-5.89E-04	446.8959	-413.4802	-2.94E-04	8891.	562973.	163.5782	55575.	0.00
10.8000	-6.32E-04	367.4714	-379.2420	-1.49E-04	7311.	562973.	178.8030	56624.	0.00
11.0000	-6.48E-04	295.1991	-342.6669	-3.14E-05	5873.	562973.	186.9485	57673.	0.00
11.2000	-6.44E-04	230.4047	-305.0609	6.20E-05	4584.	562973.	189.1116	58721.	0.00
11.4000	-6.24E-04	173.1747	-267.5159	1.34E-04	3445.	562973.	186.3382	59770.	0.00
11.6000	-5.91E-04	123.3983	-230.9213	1.86E-04	2455.	562973.	179.6074	60818.	0.00
11.8000	-5.49E-04	80.8062	-195.9786	2.23E-04	1608.	562973.	169.8196	61867.	0.00
12.0000	-5.02E-04	45.0069	-163.2178	2.45E-04	895.3833	562973.	157.7890	62916.	0.00
12.2000	-4.51E-04	15.5191	-133.0150	2.56E-04	308.7427	562973.	144.2387	63964.	0.00
12.4000	-3.99E-04	-8.1991	-105.6112	2.57E-04	163.1164	562973.	129.7994	65013.	0.00
12.6000	-3.48E-04	-26.7254	-81.1302	2.51E-04	531.6844	562973.	115.0105	66061.	0.00
12.8000	-2.99E-04	-40.6512	-59.5969	2.39E-04	808.7299	562973.	100.3228	67110.	0.00
13.0000	-2.53E-04	-50.5641	-40.9542	2.23E-04	1006.	562973.	86.1034	68159.	0.00
13.2000	-2.10E-04	-57.0329	-25.0797	2.04E-04	1135.	562973.	72.6415	69207.	0.00
13.4000	-1.71E-04	-60.5960	-11.8001	1.83E-04	1206.	562973.	60.1549	70256.	0.00
13.6000	-1.37E-04	-61.7529	-0.9048	1.61E-04	1229.	562973.	48.7977	71304.	0.00
13.8000	-1.07E-04	-60.9579	7.8417	1.39E-04	1213.	562973.	38.6674	72353.	0.00
14.0000	-8.12E-05	-58.6163	14.6896	1.18E-04	1166.	562973.	29.8122	73402.	0.00
14.2000	-5.97E-05	-55.0821	19.8947	9.77E-05	1096.	562973.	22.2383	74450.	0.00
14.4000	-4.22E-05	-50.6584	23.7101	7.89E-05	1008.	562973.	15.9164	75499.	0.00
14.6000	-2.82E-05	-45.5980	26.3806	6.18E-05	907.1443	562973.	10.7879	76547.	0.00
14.8000	-1.74E-05	-40.1062	28.1363	4.66E-05	797.8871	562973.	6.7697	77596.	0.00
15.0000	-9.56E-06	-34.3435	29.1892	3.33E-05	683.2427	562973.	3.7595	78644.	0.00
15.2000	-4.11E-06	-28.4305	29.7291	2.22E-05	565.6065	562973.	1.6389	79693.	0.00
15.4000	-6.85E-07	-22.4519	32.0974	1.32E-05	446.6662	562973.	22.0440	6434032.	0.00
15.6000	1.15E-06	-15.5915	31.6705	6.39E-06	310.1838	562973.	-26.3122	4586972.	0.00
15.8000	1.87E-06	-9.7837	25.9424	1.89E-06	194.6401	562973.	-30.9694	3308779.	0.00
16.0000	1.90E-06	-5.2146	19.7308	-7.79E-07	103.7410	562973.	-31.1468	3276024.	0.00
16.2000	1.56E-06	-1.8914	13.6990	-2.04E-06	37.6277	562973.	-29.1706	3738513.	0.00
16.4000	1.09E-06	0.2650	8.2022	-2.33E-06	5.2723	562973.	-25.7978	4754451.	0.00
16.6000	6.29E-07	1.3895	3.4978	-2.04E-06	27.6432	562973.	-21.2465	6758894.	0.00
16.8000	2.71E-07	1.6641	-0.1287	-1.49E-06	33.1066	562973.	-15.0184	1.11E+07	0.00
17.0000	3.14E-08	1.3380	-1.6519	-9.60E-07	26.6187	562973.	-0.2130	1358277.	0.00
17.2000	-1.13E-07	1.0034	-1.5964	-5.44E-07	19.9613	562973.	0.7682	1358277.	0.00
17.4000	-1.86E-07	0.6995	-1.3930	-2.42E-07	13.9152	562973.	1.2653	1358277.	0.00
17.6000	-2.10E-07	0.4462	-1.1240	-3.82E-08	8.8760	562973.	1.4248	1358277.	0.00
17.8000	-2.02E-07	0.2498	-0.8446	8.54E-08	4.9706	562973.	1.3691	1358277.	0.00
18.0000	-1.76E-07	0.1083	-0.5885	1.49E-07	2.1546	562973.	1.1927	1358277.	0.00

18.2000	-1.42E-07	0.01447	-0.3728	1.71E-07	0.2878	562973.	0.9642	1358277.	0.00
18.4000	-1.07E-07	-0.04080	-0.2035	1.66E-07	0.8117	562973.	0.7286	1358277.	0.00
18.6000	-7.55E-08	-0.06692	-0.07933	1.47E-07	1.3314	562973.	0.5128	1358277.	0.00
18.8000	-4.85E-08	-0.07254	0.00487	1.22E-07	1.4430	562973.	0.3292	1358277.	0.00
19.0000	-2.66E-08	-0.06498	0.05586	9.78E-08	1.2927	562973.	0.1807	1358277.	0.00
19.2000	-9.34E-09	-0.05019	0.08027	7.74E-08	0.9985	562973.	0.06346	1358277.	0.00
19.4000	4.35E-09	-0.03287	0.08367	6.26E-08	0.6539	562973.	-0.02952	1358277.	0.00
19.6000	1.57E-08	-0.01673	0.07005	5.38E-08	0.3327	562973.	-0.1067	1358277.	0.00
19.8000	2.59E-08	-0.00485	0.04181	5.00E-08	0.09646	562973.	-0.1757	1358277.	0.00
20.0000	3.57E-08	0.00	0.00	4.91E-08	0.00	562973.	-0.2424	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 10:

Pile-head deflection = 0.13161387 meters
Computed slope at pile head = -0.02285351 radians
Maximum bending moment = 1729. kN-m
Maximum shear force = -493.11350375 kN
Depth of maximum bending moment = 5.80000000 meters below pile head
Depth of maximum shear force = 9.80000000 meters below pile head
Number of iterations = 34
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 11

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 1700.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	1.0030	-1.88E-08	1700.	-0.1423	3.73E-07	562973.	0.00	0.00	0.00
0.2000	0.9746	340.0000	1699.	-0.1422	6764.	562973.	-6.3173	1.2964	0.00

0.4000	0.9461	679.7473	1698.	-0.1420	13523.	562973.	-12.1405	2.5663	0.00
0.6000	0.9178	1019.	1695.	-0.1417	20273.	562973.	-17.9016	3.9011	0.00
0.8000	0.8895	1358.	1690.	-0.1413	27008.	562973.	-23.4452	5.2718	0.00
1.0000	0.8612	1695.	1685.	-0.1408	33724.	562973.	-28.7232	6.6702	0.00
1.2000	0.8331	2032.	1679.	-0.1401	40418.	562973.	-33.7419	8.0999	0.00
1.4000	0.8052	2367.	1672.	-0.1393	47085.	562973.	-38.5335	9.5713	0.00
1.6000	0.7774	2700.	1664.	-0.1384	53721.	562973.	-43.1391	11.0982	0.00
1.8000	0.7498	3032.	1654.	-0.1374	60323.	562973.	-47.5986	12.6961	0.00
2.0000	0.7224	3362.	1644.	-0.1363	66886.	562973.	-51.9464	14.3808	0.00
2.2000	0.6953	3690.	1626.	-0.1350	73409.	562973.	-137.9070	39.6680	0.00
2.4000	0.6684	4012.	1597.	-0.1337	79822.	562973.	-143.8470	43.0401	0.00
2.6000	0.6418	4329.	1568.	-0.1322	86120.	562973.	-149.7870	46.6740	0.00
2.8000	0.6156	4639.	1537.	-0.1306	92299.	562973.	-155.7270	50.5967	0.00
3.0000	0.5896	4944.	1506.	-0.1289	98355.	562973.	-161.6670	54.8386	0.00
3.2000	0.5640	5242.	1473.	-0.1271	104281.	562973.	-167.6070	59.4341	0.00
3.4000	0.5388	5533.	1439.	-0.1252	110074.	562973.	-173.5470	64.4220	0.00
3.6000	0.5139	5817.	1403.	-0.1231	115730.	562973.	-179.4870	69.8466	0.00
3.8000	0.4895	6094.	1367.	-0.1210	121242.	562973.	-185.4270	75.7579	0.00
4.0000	0.4655	6364.	1329.	-0.1188	126607.	562973.	-191.3670	82.2135	0.00
4.2000	0.4420	6626.	1290.	-0.1165	131819.	562973.	-197.3070	89.2792	0.00
4.4000	0.4189	6880.	1250.	-0.1141	136874.	562973.	-203.2470	97.0305	0.00
4.6000	0.3964	7126.	1209.	-0.1116	141768.	562973.	-209.1870	105.5547	0.00
4.8000	0.3743	7364.	1167.	-0.1090	146495.	562973.	-215.1270	114.9529	0.00
5.0000	0.3527	7593.	1123.	-0.1064	151051.	562973.	-221.0670	125.3428	0.00
5.2000	0.3317	7813.	1078.	-0.1037	155431.	562973.	-227.0070	136.8616	0.00
5.4000	0.3113	8024.	1032.	-0.1008	159631.	562973.	-232.9470	149.6707	0.00
5.6000	0.2914	8226.	984.9620	-0.09795	163645.	562973.	-238.8871	163.9599	0.00
5.8000	0.2721	8418.	936.5906	-0.09500	167469.	562973.	-244.8271	179.9545	0.00
6.0000	0.2534	8600.	887.0311	-0.09197	171098.	562973.	-250.7671	197.9229	0.00
6.2000	0.2353	8773.	836.4521	-0.08889	174528.	562973.	-255.0238	216.7558	0.00
6.4000	0.2178	8935.	785.5194	-0.08574	177754.	562973.	-254.3026	233.4720	0.00
6.6000	0.2010	9087.	734.7715	-0.08254	180779.	562973.	-253.1762	251.8999	0.00
6.8000	0.1848	9229.	684.2904	-0.07929	183602.	562973.	-251.6349	272.2905	0.00
7.0000	0.1693	9361.	634.1602	-0.07598	186224.	562973.	-249.6679	294.9435	0.00
7.2000	0.1544	9482.	584.4669	-0.07264	188648.	562973.	-247.2642	320.2191	0.00
7.4000	0.1402	9594.	532.6530	-0.06925	190875.	562973.	-270.8752	386.2919	0.00
7.6000	0.1267	9696.	479.3772	-0.06582	192887.	562973.	-261.8827	413.2764	0.00
7.8000	0.1139	9786.	427.9153	-0.06236	194690.	562973.	-252.7366	443.7291	0.00
8.0000	0.1018	9867.	378.2985	-0.05887	196292.	562973.	-243.4314	478.3007	0.00
8.2000	0.09037	9938.	330.5592	-0.05535	197700.	562973.	-233.9612	517.8055	0.00
8.4000	0.07965	9999.	284.7311	-0.05181	198923.	562973.	-224.3200	563.2724	0.00
8.6000	0.06964	10051.	128.5188	-0.04825	199966.	562973.	-1338.	3842.	0.00
8.8000	0.06035	10050.	-146.6747	-0.04468	199945.	562973.	-1414.	4687.	0.00
9.0000	0.05177	9993.	-437.3391	-0.04112	198799.	562973.	-1493.	5766.	0.00

9.2000	0.04390	9875.	-743.8855	-0.03759	196465.	562973.	-1573.	7166.	0.00
9.4000	0.03673	9695.	-1067.	-0.03411	192879.	562973.	-1655.	9013.	0.00
9.6000	0.03026	9449.	-1406.	-0.03071	187976.	562973.	-1740.	11502.	0.00
9.8000	0.02445	9133.	-1737.	-0.02741	181689.	562973.	-1564.	12793.	0.00
10.0000	0.01929	8754.	-2031.	-0.02424	174156.	562973.	-1384.	14347.	0.00
10.2000	0.01475	8320.	-2291.	-0.02120	165523.	562973.	-1214.	16451.	0.00
10.4000	0.01081	7838.	-2517.	-0.01833	155924.	562973.	-1050.	19421.	0.00
10.6000	0.00742	7313.	-2710.	-0.01564	145490.	562973.	-872.7759	23523.	0.00
10.8000	0.00455	6754.	-2865.	-0.01314	134361.	562973.	-677.0740	29748.	0.00
11.0000	0.00216	6167.	-2977.	-0.01085	122693.	562973.	-449.3382	41540.	0.00
11.2000	2.13E-04	5563.	-3029.	-0.00876	110668.	562973.	-62.5107	58721.	0.00
11.4000	-0.00134	4956.	-2998.	-0.00690	98593.	562973.	364.8688	54363.	0.00
11.6000	-0.00255	4363.	-2906.	-0.00524	86808.	562973.	560.2175	44017.	0.00
11.8000	-0.00344	3794.	-2780.	-0.00379	75470.	562973.	699.3260	40675.	0.00
12.0000	-0.00406	3252.	-2629.	-0.00254	64687.	562973.	804.0243	39586.	0.00
12.2000	-0.00445	2742.	-2461.	-0.00148	54545.	562973.	882.8689	39638.	0.00
12.4000	-0.00465	2267.	-2278.	-5.86E-04	45105.	562973.	940.4396	40428.	0.00
12.6000	-0.00469	1830.	-2086.	1.42E-04	36413.	562973.	979.6645	41785.	0.00
12.8000	-0.00460	1433.	-1888.	7.21E-04	28501.	562973.	1003.	43635.	0.00
13.0000	-0.00440	1075.	-1687.	0.00117	21387.	562973.	1011.	45956.	0.00
13.2000	-0.00413	757.8986	-1485.	0.00149	15078.	562973.	1007.	48758.	0.00
13.4000	-0.00380	481.0184	-1285.	0.00171	9570.	562973.	990.3560	52075.	0.00
13.6000	-0.00344	243.7524	-1090.	0.00184	4849.	562973.	963.6747	55963.	0.00
13.8000	-0.00307	45.0335	-900.8154	0.00189	895.9121	562973.	927.7952	60501.	0.00
14.0000	-0.00269	-116.5737	-719.6439	0.00188	2319.	562973.	883.9200	65794.	0.00
14.2000	-0.00232	-242.8241	-547.9296	0.00182	4831.	562973.	833.2228	71981.	0.00
14.4000	-0.00196	-335.7456	-390.5987	0.00171	6679.	562973.	740.0867	75499.	0.00
14.6000	-0.00163	-399.0636	-254.2113	0.00158	7939.	562973.	623.7868	76547.	0.00
14.8000	-0.00133	-437.4301	-140.3307	0.00143	8702.	562973.	515.0197	77596.	0.00
15.0000	-0.00106	-455.1959	-47.2984	0.00128	9056.	562973.	415.3034	78644.	0.00
15.2000	-8.17E-04	-456.3495	26.7949	0.00111	9079.	562973.	325.6297	79693.	0.00
15.4000	-6.11E-04	-444.4779	80.6230	9.54E-04	8843.	562973.	212.6513	69643.	0.00
15.6000	-4.36E-04	-424.1003	120.8905	7.99E-04	8437.	562973.	190.0236	87217.	0.00
15.8000	-2.91E-04	-396.1217	156.5014	6.54E-04	7881.	562973.	166.0855	114171.	0.00
16.0000	-1.74E-04	-361.4997	187.1106	5.19E-04	7192.	562973.	140.0063	160667.	0.00
16.2000	-8.33E-05	-321.2775	212.0581	3.98E-04	6392.	562973.	109.4689	262816.	0.00
16.4000	-1.52E-05	-276.6765	229.2082	2.92E-04	5504.	562973.	62.0325	818631.	0.00
16.6000	3.33E-05	-229.5942	227.3451	2.02E-04	4568.	562973.	-80.6643	483947.	0.00
16.8000	6.55E-05	-185.7384	209.1745	1.28E-04	3695.	562973.	-101.0410	308455.	0.00
17.0000	8.45E-05	-145.9243	188.0720	6.90E-05	2903.	562973.	-109.9847	260332.	0.00
17.2000	9.31E-05	-110.5097	165.7133	2.34E-05	2199.	562973.	-113.6019	244020.	0.00
17.4000	9.39E-05	-79.6390	142.9620	-1.03E-05	1584.	562973.	-113.9108	242699.	0.00
17.6000	8.90E-05	-53.3248	120.3815	-3.40E-05	1061.	562973.	-111.8945	251525.	0.00
17.8000	8.03E-05	-31.4864	98.3793	-4.90E-05	626.4024	562973.	-108.1279	269353.	0.00

18.0000	6.94E-05	-13.9731	77.2682	-5.71E-05	277.9864	562973.	-102.9834	296936.	0.00
18.2000	5.74E-05	-0.5792	57.2986	-5.97E-05	11.5220	562973.	-96.7122	336694.	0.00
18.4000	4.55E-05	8.9463	38.6800	-5.82E-05	177.9813	562973.	-89.4742	393371.	0.00
18.6000	3.42E-05	14.8928	21.5992	-5.40E-05	296.2834	562973.	-81.3335	476058.	0.00
18.8000	2.39E-05	17.5860	6.2454	-4.82E-05	349.8622	562973.	-72.2040	604057.	0.00
19.0000	1.49E-05	17.3910	-7.1416	-4.20E-05	345.9830	562973.	-61.6665	828148.	0.00
19.2000	7.11E-06	14.7294	-18.1290	-3.63E-05	293.0311	562973.	-48.2075	1355181.	0.00
19.4000	3.83E-07	10.1394	-24.7710	-3.19E-05	201.7170	562973.	-18.2130	9510656.	0.00
19.6000	-5.63E-06	4.8209	-22.1342	-2.92E-05	95.9094	562973.	44.5814	1584236.	0.00
19.8000	-1.13E-05	1.2857	-12.0523	-2.81E-05	25.5786	562973.	56.2374	995641.	0.00
20.0000	-1.69E-05	0.00	0.00	-2.79E-05	0.00	562973.	64.2859	380977.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 11:

Pile-head deflection = 1.00303565 meters
Computed slope at pile head = -0.14228308 radians
Maximum bending moment = 10051. kN-m
Maximum shear force = -3029. kN
Depth of maximum bending moment = 8.60000000 meters below pile head
Depth of maximum shear force = 11.20000000 meters below pile head
Number of iterations = 31
Number of zero deflection points = 3

Summary of Pile-head Responses for Conventional Analyses

Definitions of Pile-head Loading Conditions:

Load Type 1: Load 1 = Shear, V, kN, and Load 2 = Moment, M, kN-m
Load Type 2: Load 1 = Shear, V, kN, and Load 2 = Slope, S, radians
Load Type 3: Load 1 = Shear, V, kN, and Load 2 = Rot. Stiffness, R, kN-m/rad.
Load Type 4: Load 1 = Top Deflection, y, m, and Load 2 = Moment, M, kN-m
Load Type 5: Load 1 = Top Deflection, y, m, and Load 2 = Slope, S, radians

Load Case No.	Load Type	Pile-head Load 1	Load Type 2	Pile-head Load 2	Axial Loading kN	Pile-head Deflection meters	Pile-head Rotation radians	Max Shear in Pile kN	Max Moment in Pile kN-m
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1	V, kN	50.0000	M, kN-m	0.00	0.00	5.16E-04	-2.55E-04	50.0000	50.6709
2	V, kN	75.0000	M, kN-m	0.00	0.00	8.24E-04	-3.97E-04	75.0000	77.2439
3	V, kN	100.0000	M, kN-m	0.00	0.00	0.00125	-5.72E-04	100.0000	105.2409
4	V, kN	125.0000	M, kN-m	0.00	0.00	0.00175	-7.63E-04	125.0000	133.3671
5	V, kN	150.0000	M, kN-m	0.00	0.00	0.00232	-9.74E-04	150.0000	162.5991
6	V, kN	200.0000	M, kN-m	0.00	0.00	0.00377	-0.00147	200.0000	226.4394
7	V, kN	300.0000	M, kN-m	0.00	0.00	0.00840	-0.00285	300.0000	376.9538
8	V, kN	400.0000	M, kN-m	0.00	0.00	0.02395	-0.00630	400.0000	627.3493
9	V, kN	450.0000	M, kN-m	0.00	0.00	0.1223	-0.02142	-459.1388	1633.
10	V, kN	470.0000	M, kN-m	0.00	0.00	0.1316	-0.02285	-493.1135	1729.
11	V, kN	1700.	M, kN-m	0.00	0.00	1.0030	-0.1423	-3029.	10051.

Maximum pile-head deflection = 1.0030356501 meters
Maximum pile-head rotation = -0.1422830823 radians = -8.152220 deg.

Summary of Warning Messages

The following warning was reported 713 times

**** Warning ****

An unreasonable input value for shear strength has been specified for a soil defined using the soft clay criteria. The input value is greater than 59.85 kPa. Please check your input data for correctness.

The analysis ended normally.

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LPile for Windows, Version 2016-09.009

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method
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Files Used for Analysis

Path to file locations:
\m9159\Work\07_Pali\IV01\LPILE\

Name of input data file:
IV01_SpB_D1000.lp9d

Name of output report file:
IV01_SpB_D1000.lp9o

Name of plot output file:
IV01_SpB_D1000.lp9p

Name of runtime message file:
IV01_SpB_D1000.lp9r

Date and Time of Analysis

Date: June 10, 2019 Time: 15:31:15

Problem Title

Project Name: VI02 - Spalle e pila
Job Number:
Client:
Engineer:
Description:

Program Options and Settings

Computational Options:
- Use unfactored loads in computations (conventional analysis)

Engineering Units Used for Data Input and Computations:
- International System Units (kilonewtons, meters, millimeters)

Analysis Control Options:
- Maximum number of iterations allowed = 500
- Deflection tolerance for convergence = 2.5400E-07 m
- Maximum allowable deflection = 2.5400 m
- Number of pile increments = 100

Loading Type and Number of Cycles of Loading:
- Static loading specified

- Use of p-y modification factors for p-y curves not selected
- No distributed lateral loads are entered
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected

- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:
- Output files use decimal points to denote decimal symbols.
- Values of pile-head deflection, bending moment, shear force, and soil reaction are printed for full length of pile.
- Printing Increment (nodal spacing of output points) = 1
- p-y curves computed and reported at user-specified depths
- Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined = 1
Total length of pile = 20.000 m
Depth of ground surface below top of pile = 0.0000 m

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point	Depth Below Pile Head meters	Pile Diameter millimeters
1	0.000	1000.00
2	20.000	1000.00

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is an elastic pile
Cross-sectional Shape = Circular Pile
Length of section = 20.000000 m

Width of top of section = 1.000000 m
Width of bottom of section = 1.000000 m
Top Area = 0.785398 sq. m
Bottom Area = 0.785398 sq. m
Moment of Inertia at Top = 0.049087 m^4
Moment of Inertia at Bottom = 0.049087 m^4
Elastic Modulus = 28000000. kPa

Ground Slope and Pile Batter Angles

Ground Slope Angle = 0.000 degrees
= 0.000 radians

Pile Batter Angle = 0.000 degrees
= 0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 4 layers

Layer 1 is stiff clay with water-induced erosion

Distance from top of pile to top of layer = 0.0000 m
Distance from top of pile to bottom of layer = 2.100000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 80.000000 kPa
Undrained cohesion at bottom of layer = 80.000000 kPa
Epsilon-50 at top of layer = 0.007000
Epsilon-50 at bottom of layer = 0.007000
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 2 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 2.100000 m
Distance from top of pile to bottom of layer = 8.500000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 45.000000 kPa
Undrained cohesion at bottom of layer = 45.000000 kPa
Epsilon-50 at top of layer = 0.015000
Epsilon-50 at bottom of layer = 0.015000

Layer 3 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer = 8.500000 m
Distance from top of pile to bottom of layer = 15.400000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Friction angle at top of layer = 36.000000 deg.
Friction angle at bottom of layer = 36.000000 deg.
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 4 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 15.400000 m
Distance from top of pile to bottom of layer = 20.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 150.000000 kPa
Undrained cohesion at bottom of layer = 150.000000 kPa
Epsilon-50 at top of layer = 0.005000
Epsilon-50 at bottom of layer = 0.005000

(Depth of the lowest soil layer extends 0.000 m below the pile tip)

Summary of Input Soil Properties

Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth m	Effective Unit Wt. kN/m3	Undrained Cohesion kPa	Angle of Friction deg.	E50 or krm	kpy kN/m3
1	Stiff Clay	0.00	9.0000	80.0000	--	0.00700	default
	with Free Water	2.1000	9.0000	80.0000	--	0.00700	default
2	Soft	2.1000	9.0000	45.0000	--	0.01500	--
	Clay	8.5000	9.0000	45.0000	--	0.01500	--
3	Sand	8.5000	9.0000	--	36.0000	--	default
	(Reese, et al.)	15.4000	9.0000	--	36.0000	--	default
4	Soft	15.4000	9.0000	150.0000	--	0.00500	--
	Clay	20.0000	9.0000	150.0000	--	0.00500	--

Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 7

Load No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, kN	Compute Top y vs. Pile Length
1	1	V = 100.000000 kN	M = 0.0000 m-kN	0.0000000	No
2	1	V = 200.000000 kN	M = 0.0000 m-kN	0.0000000	No
3	1	V = 300.000000 kN	M = 0.0000 m-kN	0.0000000	No
4	1	V = 400.000000 kN	M = 0.0000 m-kN	0.0000000	No
5	1	V = 480.000000 kN	M = 0.0000 m-kN	0.0000000	No
6	1	V = 600.000000 kN	M = 0.0000 m-kN	0.0000000	No
7	1	V = 2800. kN	M = 0.0000 m-kN	0.0000000	No

V = shear force applied normal to pile axis

M = bending moment applied to pile head

y = lateral deflection normal to pile axis

S = pile slope relative to original pile batter angle

R = rotational stiffness applied to pile head

Values of top y vs. pile lengths can be computed only for load types with
specified shear loading (Load Types 1, 2, and 3).
Thrust force is assumed to be acting axially for all pile batter angles.

Specified Depths for Output of p-y Curves

Lateral load-transfer (p-y) curves are computed and output at 8 depths.
(Note that load-transfer values are computeded at the specified depths and
may differ from values computed at nodal points)

Depth No.	Depth Below Pile Head m	Depth Below Ground Surface m
1	0.200	0.200
2	1.900	1.900
3	2.300	2.300
4	8.300	8.300
5	8.700	8.700
6	15.200	15.200
7	15.600	15.600
8	19.800	19.800

Depth of ground surface below top of pile = 0.0000 m

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

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Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Moment-curvature properties were derived from elastic section properties

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Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head meters	Equivalent Top Depth Below Grnd Surf meters	Same Layer Type As Layer Above	Layer is Rock or is Below Rock Layer	F0 Integral for Layer kN	F1 Integral for Layer kN
1	0.00	0.00	N.A.	No	0.00	62.8630
2	2.1000	0.4428	No	No	62.8630	1695.
3	8.5000	5.1078	No	No	1758.	21177.
4	15.4000	15.4000	No	No	22935.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals for Layer n. Layering correction equivalent depths are computed only for soil types with both shallow-depth and deep-depth expressions for peak lateral load transfer. These soil types are soft and stiff clays, non-liquefied sands, and cemented c-phi soil.

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p-y Curves Reported for Specified Depths

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p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 0.200 m
Depth of p-y curve below ground surface = 0.200 m
Equivalent depth of p-y curve = 0.200 m
Pile diameter = 1000.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees

Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.007 m
As = 0.29059
Ac (not used) = 0.22776
pct = 207.080 kN/m
pcd = 880.000 kN/m
pc = 207.080 kN/m
pu = 6.476 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00102	27.60762
0.00203	55.21523
0.00305	63.56971
0.00407	67.54403
0.00509	69.34360
0.00610	69.58461
0.00712	68.61559
0.00814	66.66085
0.00915	63.87638
0.01017	60.37654
0.01119	56.24858
0.01220	51.60684
0.02034	36.56317
0.02848	21.51949
0.03661	6.47582
0.03865	6.47582

p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 1.900 m
Depth of p-y curve below ground surface = 1.900 m
Equivalent depth of p-y curve = 1.900 m
Pile diameter = 1000.000 mm
Undrained cohesion at curve depth = 80.000 kPa

Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.007 m
As = 0.56020
Ac (not used) = 0.30000
pct = 607.260 kN/m
pcd = 880.000 kN/m
pc = 607.260 kN/m
pu = 51.938 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00196	160.69447
0.00392	227.25630
0.00588	264.28831
0.00784	287.98964
0.00980	303.88016
0.01176	314.18209
0.01372	320.16412
0.01569	322.64475
0.01765	322.19301
0.01961	319.22557
0.02157	314.05962
0.02353	306.94397
0.03921	222.03147
0.05490	136.98483
0.07059	51.93818
0.07451	51.93818

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 2.100 m
Depth of p-y curve below pile head = 2.300 m
Depth of p-y curve below ground surface = 2.300 m
Equiv. depth of p-y curve below ground surface = 0.643 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1000.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 8.571 m
Static pu_s for flat ground = 170.162 kN/m
Static pu_d for flat ground = 405.000 kN/m
y_50 = 0.03750 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 170.162 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00008889	11.34417
0.00071111	22.68833
0.00240	34.03250
0.00569	45.37666
0.01111	56.72083
0.01920	68.06499
0.03049	79.40916
0.04551	90.75332
0.06480	102.09749
0.08889	113.44165
0.11831	124.78582
0.15360	136.12998
0.19529	147.47415
0.24391	158.81831
0.30000	170.16248
0.31875	170.16248

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 2.100 m
Depth of p-y curve below pile head = 8.300 m
Depth of p-y curve below ground surface = 8.300 m
Equiv. depth of p-y curve below ground surface = 6.643 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1000.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 8.571 m
Static pu_s for flat ground = 359.162 kN/m
Static pu_d for flat ground = 405.000 kN/m
y_50 = 0.03750 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 359.162 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00008889	23.94417
0.00071111	47.88833
0.00240	71.83250
0.00569	95.77666
0.01111	119.72083
0.01920	143.66499
0.03049	167.60916
0.04551	191.55332
0.06480	215.49749
0.08889	239.44165
0.11831	263.38582
0.15360	287.32998
0.19529	311.27415
0.24391	335.21831

0.30000	359.16248
0.31875	359.16248

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 8.500 m
Depth of p-y curve below pile head = 8.700 m
Depth of p-y curve below ground surface = 8.700 m
Equiv. depth of p-y curve below ground surface = 5.308 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 1000.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3
K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 1629.375 kN/m
Psd = 4792.011 kN/m
Ps = Pst (shallow controls) = 1629.375 kN/m
A (static) = 0.8800
B (static) = 0.5000
C = Pm/(Ym^(1/n)) = 9819.8970
n = Pm/(m Ym) = 1.6447
m = (Pu-Pm)/(Yu-Ym) = 29719.7945
Yk = [c/(kx)]^(n/(n-1)) = 0.0003 m
Pk = 74.727 kN/m
Ym = b/60 = 0.0167 m
Pm = B ps = 814.687 kN/m
Yu = 3b/80 = 0.0375 m
Pu = A Ps = 1433.850 kN/m
Maximum Es value = 228069.029 kN/m/m
p-multiplier = 1.00000
y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters	p, kN/m
0.00000	0.00000
0.00032765	74.72674
0.00181	211.45354
0.00330	304.25222
0.00478	381.42214
0.00627	449.58119
0.00775	511.62860
0.00924	569.15550
0.01073	623.15138
0.01221	674.28330
0.01370	723.02731
0.01518	769.73779
0.01667	814.68735
0.02708	1124.26854
0.03750	1433.84973
0.04500	1433.84973
0.05250	1433.84973

The above p-y curve was computed using internal default values of k.

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 8.500 m
Depth of p-y curve below pile head = 15.200 m
Depth of p-y curve below ground surface = 15.200 m
Equiv. depth of p-y curve below ground surface = 11.808 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 1000.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3
K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 5731.078 kN/m

Psd = 8372.250 kN/m
Ps = Pst (shallow controls) = 5731.078 kN/m
A (static) = 0.8800
B (static) = 0.5000
C = Pm/(Ym^(1/n)) = 34539.9943
n = Pm/(m Ym) = 1.6447
m = (Pu-Pm)/(Yu-Ym) = 104534.8573
Yk = [c/(kx)]^(n/(n-1)) = 0.0020 m
Pk = 778.095 kN/m
Ym = b/60 = 0.0167 m
Pm = B ps = 2865.539 kN/m
Yu = 3b/80 = 0.0375 m
Pu = A Ps = 5043.348 kN/m
Maximum Es value = 398465.430 kN/m/m
p-multiplier = 1.00000
y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters	p, kN/m
0.00000	0.00000
0.00195	778.09481
0.00329	1068.57793
0.00463	1314.86404
0.00597	1534.33747
0.00730	1735.16247
0.00864	1921.98316
0.00998	2097.75268
0.01132	2264.49268
0.01265	2423.66212
0.01399	2576.35647
0.01533	2723.42416
0.01667	2865.53885
0.02708	3954.44362
0.03750	5043.34838
0.04500	5043.34838
0.05250	5043.34838

The above p-y curve was computed using internal default values of k.

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 4
Depth of top of Layer 4 below pile head = 15.400 m
Depth of p-y curve below pile head = 15.600 m
Depth of p-y curve below ground surface = 15.600 m
Equiv. depth of p-y curve below ground surface = 15.600 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1000.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 150.000 kPa
Epsilon_50 = 0.0050
J (default value) = 0.5000
Transition depth Xr = 10.714 m
Static pu_s for flat ground = 1760.400 kN/m
Static pu_d for flat ground = 1350.000 kN/m
y_50 = 0.01250 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 1350.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00002963	90.00000
0.00023704	180.00000
0.00080000	270.00000
0.00190	360.00000
0.00370	450.00000
0.00640	540.00000
0.01016	630.00000
0.01517	720.00000
0.02160	810.00000
0.02963	900.00000
0.03944	990.00000

0.05120	1080.00000
0.06510	1170.00000
0.08130	1260.00000
0.10000	1350.00000
0.10625	1350.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 4
Depth of top of Layer 4 below pile head = 15.400 m
Depth of p-y curve below pile head = 19.800 m
Depth of p-y curve below ground surface = 19.800 m
Equiv. depth of p-y curve below ground surface = 19.800 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1000.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 150.000 kPa
Epsilon_50 = 0.0050
J (default value) = 0.5000
Transition depth Xr = 10.714 m
Static pu_s for flat ground = 2113.200 kN/m
Static pu_d for flat ground = 1350.000 kN/m
y_50 = 0.01250 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 1350.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00002963	90.00000
0.00023704	180.00000
0.00080000	270.00000
0.00190	360.00000
0.00370	450.00000
0.00640	540.00000
0.01016	630.00000
0.01517	720.00000

0.02160	810.00000
0.02963	900.00000
0.03944	990.00000
0.05120	1080.00000
0.06510	1170.00000
0.08130	1260.00000
0.10000	1350.00000
0.10625	1350.00000

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 1

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 100.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	8.70E-04	7.08E-11	100.0000	-3.27E-04	7.21E-10	1374447.	0.00	0.00	0.00
0.2000	8.05E-04	20.0000	97.8160	-3.26E-04	203.7183	1374447.	-21.8405	5429.	0.00
0.4000	7.40E-04	39.1264	91.6157	-3.21E-04	398.5380	1374447.	-40.1622	10858.	0.00
0.6000	6.76E-04	56.6463	82.9179	-3.14E-04	576.9942	1374447.	-46.8159	13849.	0.00
0.8000	6.14E-04	72.2935	73.0772	-3.05E-04	736.3758	1374447.	-51.5905	16803.	0.00
1.0000	5.54E-04	85.8772	62.3548	-2.93E-04	874.7376	1374447.	-55.6337	20079.	0.00
1.2000	4.97E-04	97.2354	50.8969	-2.80E-04	990.4321	1374447.	-58.9452	23733.	0.00
1.4000	4.42E-04	106.2359	38.8494	-2.65E-04	1082.	1374447.	-61.5301	27833.	0.00
1.6000	3.91E-04	112.7752	26.3565	-2.49E-04	1149.	1374447.	-63.3990	32460.	0.00
1.8000	3.42E-04	116.7785	13.5599	-2.33E-04	1189.	1374447.	-64.5666	37713.	0.00
2.0000	2.98E-04	118.1992	0.5983	-2.16E-04	1204.	1374447.	-65.0499	43718.	0.00
2.2000	2.56E-04	117.0178	-7.4920	-1.98E-04	1192.	1374447.	-15.8525	12375.	0.00
2.4000	2.18E-04	115.2024	-10.6367	-1.82E-04	1173.	1374447.	-15.5951	14292.	0.00
2.6000	1.84E-04	112.7631	-13.7221	-1.65E-04	1149.	1374447.	-15.2591	16621.	0.00
2.8000	1.52E-04	109.7135	-16.7321	-1.49E-04	1118.	1374447.	-14.8408	19493.	0.00
3.0000	1.24E-04	106.0703	-19.6498	-1.33E-04	1080.	1374447.	-14.3354	23100.	0.00

3.2000	9.91E-05	101.8536	-22.4569	-1.18E-04	1037.	1374447.	-13.7360	27734.	0.00
3.4000	7.70E-05	97.0875	-25.1337	-1.03E-04	988.9253	1374447.	-13.0322	33869.	0.00
3.6000	5.77E-05	91.8001	-27.6577	-8.97E-05	935.0685	1374447.	-12.2079	42326.	0.00
3.8000	4.11E-05	86.0244	-30.0020	-7.67E-05	876.2377	1374447.	-11.2355	54695.	0.00
4.0000	2.70E-05	79.7993	-32.1318	-6.47E-05	812.8292	1374447.	-10.0626	74574.	0.00
4.2000	1.52E-05	73.1717	-33.9952	-5.36E-05	745.3208	1374447.	-8.5706	112684.	0.00
4.4000	5.57E-06	66.2013	-35.4892	-4.34E-05	674.3204	1374447.	-6.3693	228850.	0.00
4.6000	-2.15E-06	58.9760	-35.6778	-3.43E-05	600.7249	1374447.	4.4828	416536.	0.00
4.8000	-8.15E-06	51.9301	-34.4894	-2.62E-05	528.9559	1374447.	7.4010	181511.	0.00
5.0000	-1.26E-05	45.1803	-32.8673	-1.92E-05	460.2023	1374447.	8.8206	139500.	0.00
5.2000	-1.58E-05	38.7832	-31.0097	-1.31E-05	395.0426	1374447.	9.7553	123310.	0.00
5.4000	-1.79E-05	32.7764	-28.9929	-7.85E-06	333.8575	1374447.	10.4126	116538.	0.00
5.6000	-1.90E-05	27.1861	-26.8640	-3.49E-06	276.9149	1374447.	10.8760	114703.	0.00
5.8000	-1.93E-05	22.0308	-24.6576	9.02E-08	224.4035	1374447.	11.1881	116142.	0.00
6.0000	-1.89E-05	17.3230	-22.4014	2.95E-06	176.4506	1374447.	11.3741	120186.	0.00
6.2000	-1.81E-05	13.0702	-20.1190	5.16E-06	133.1319	1374447.	11.4500	126626.	0.00
6.4000	-1.69E-05	9.2754	-17.8314	6.79E-06	94.4784	1374447.	11.4267	135535.	0.00
6.6000	-1.54E-05	5.9377	-15.5575	7.90E-06	60.4805	1374447.	11.3119	147209.	0.00
6.8000	-1.37E-05	3.0524	-13.3152	8.55E-06	31.0915	1374447.	11.1112	162176.	0.00
7.0000	-1.19E-05	0.6116	-11.1212	8.82E-06	6.2296	1374447.	10.8282	181256.	0.00
7.2000	-1.02E-05	-1.3961	-8.9919	8.76E-06	14.2205	1374447.	10.4652	205695.	0.00
7.4000	-8.44E-06	-2.9852	-6.9431	8.44E-06	30.4067	1374447.	10.0226	237402.	0.00
7.6000	-6.80E-06	-4.1733	-4.9910	7.92E-06	42.5093	1374447.	9.4984	279424.	0.00
7.8000	-5.27E-06	-4.9816	-3.1525	7.26E-06	50.7419	1374447.	8.8867	336936.	0.00
8.0000	-3.90E-06	-5.4343	-1.4464	6.50E-06	55.3538	1374447.	8.1743	419580.	0.00
8.2000	-2.68E-06	-5.5601	0.1043	5.70E-06	56.6351	1374447.	7.3326	548026.	0.00
8.4000	-1.62E-06	-5.3926	1.4669	4.90E-06	54.9289	1374447.	6.2932	778193.	0.00
8.6000	-7.16E-07	-4.9734	2.1123	4.15E-06	50.6586	1374447.	0.1614	45090.	0.00
8.8000	4.12E-08	-4.5477	2.1275	3.45E-06	46.3225	1374447.	-0.00950	46138.	0.00
9.0000	6.66E-07	-4.1224	2.1108	2.82E-06	41.9903	1374447.	-0.1571	47187.	0.00
9.2000	1.17E-06	-3.7034	2.0669	2.25E-06	37.7222	1374447.	-0.2823	48235.	0.00
9.4000	1.57E-06	-3.2956	2.0001	1.74E-06	33.5690	1374447.	-0.3862	49284.	0.00
9.6000	1.87E-06	-2.9033	1.9144	1.29E-06	29.5732	1374447.	-0.4701	50332.	0.00
9.8000	2.08E-06	-2.5299	1.8139	8.98E-07	25.7689	1374447.	-0.5355	51381.	0.00
10.0000	2.23E-06	-2.1778	1.7019	5.56E-07	22.1828	1374447.	-0.5839	52430.	0.00
10.2000	2.31E-06	-1.8491	1.5819	2.63E-07	18.8346	1374447.	-0.6168	53478.	0.00
10.4000	2.33E-06	-1.5450	1.4566	1.56E-08	15.7377	1374447.	-0.6359	54527.	0.00
10.6000	2.31E-06	-1.2665	1.3287	-1.89E-07	12.9000	1374447.	-0.6427	55575.	0.00
10.8000	2.26E-06	-1.0136	1.2006	-3.55E-07	10.3241	1374447.	-0.6389	56624.	0.00
11.0000	2.17E-06	-0.7862	1.0741	-4.86E-07	8.0085	1374447.	-0.6261	57673.	0.00
11.2000	2.06E-06	-0.5839	0.9509	-5.85E-07	5.9480	1374447.	-0.6056	58721.	0.00
11.4000	1.94E-06	-0.4059	0.8325	-6.57E-07	4.1342	1374447.	-0.5788	59770.	0.00
11.6000	1.80E-06	-0.2510	0.7198	-7.05E-07	2.5563	1374447.	-0.5472	60818.	0.00
11.8000	1.65E-06	-0.1179	0.6139	-7.32E-07	1.2013	1374447.	-0.5119	61867.	0.00

12.0000	1.51E-06	-0.00538	0.5154	-7.41E-07	0.05485	1374447.	-0.4740	62916.	0.00
12.2000	1.36E-06	0.08821	0.4245	-7.35E-07	0.8985	1374447.	-0.4344	63964.	0.00
12.4000	1.21E-06	0.1644	0.3417	-7.17E-07	1.6748	1374447.	-0.3942	65013.	0.00
12.6000	1.07E-06	0.2249	0.2668	-6.88E-07	2.2905	1374447.	-0.3540	66061.	0.00
12.8000	9.37E-07	0.2712	0.2000	-6.52E-07	2.7620	1374447.	-0.3145	67110.	0.00
13.0000	8.11E-07	0.3049	0.1409	-6.10E-07	3.1053	1374447.	-0.2763	68159.	0.00
13.2000	6.93E-07	0.3275	0.08929	-5.64E-07	3.3361	1374447.	-0.2399	69207.	0.00
13.4000	5.85E-07	0.3406	0.04475	-5.16E-07	3.4691	1374447.	-0.2055	70256.	0.00
13.6000	4.87E-07	0.3454	0.00685	-4.66E-07	3.5184	1374447.	-0.1736	71304.	0.00
13.8000	3.99E-07	0.3433	-0.02493	-4.16E-07	3.4970	1374447.	-0.1442	72353.	0.00
14.0000	3.21E-07	0.3354	-0.05112	-3.66E-07	3.4168	1374447.	-0.1176	73402.	0.00
14.2000	2.52E-07	0.3229	-0.07228	-3.18E-07	3.2887	1374447.	-0.09387	74450.	0.00
14.4000	1.93E-07	0.3065	-0.08896	-2.73E-07	3.1224	1374447.	-0.07293	75499.	0.00
14.6000	1.43E-07	0.2873	-0.1017	-2.29E-07	2.9263	1374447.	-0.05478	76547.	0.00
14.8000	1.01E-07	0.2658	-0.1111	-1.89E-07	2.7079	1374447.	-0.03935	77596.	0.00
15.0000	6.74E-08	0.2428	-0.1177	-1.52E-07	2.4735	1374447.	-0.02652	78644.	0.00
15.2000	4.05E-08	0.2188	-0.1220	-1.19E-07	2.2282	1374447.	-0.01615	79693.	0.00
15.4000	2.00E-08	0.1940	-0.1372	-8.86E-08	1.9764	1374447.	-0.1358	1358277.	0.00
15.6000	5.11E-09	0.1639	-0.1542	-6.25E-08	1.6693	1374447.	-0.03473	1358277.	0.00
15.8000	-5.01E-09	0.1323	-0.1543	-4.10E-08	1.3479	1374447.	0.03400	1358277.	0.00
16.0000	-1.13E-08	0.1022	-0.1433	-2.39E-08	1.0405	1374447.	0.07658	1358277.	0.00
16.2000	-1.46E-08	0.07503	-0.1257	-1.10E-08	0.7642	1374447.	0.09897	1358277.	0.00
16.4000	-1.57E-08	0.05187	-0.1052	-1.79E-09	0.5283	1374447.	0.1065	1358277.	0.00
16.6000	-1.53E-08	0.03297	-0.08412	4.38E-09	0.3358	1374447.	0.1038	1358277.	0.00
16.8000	-1.39E-08	0.01822	-0.06428	8.11E-09	0.1856	1374447.	0.09462	1358277.	0.00
17.0000	-1.20E-08	0.00725	-0.04664	9.96E-09	0.07389	1374447.	0.08181	1358277.	0.00
17.2000	-9.95E-09	-4.37E-04	-0.03170	1.05E-08	0.00445	1374447.	0.06757	1358277.	0.00
17.4000	-7.86E-09	-0.00543	-0.01960	1.00E-08	0.05526	1374447.	0.05341	1358277.	0.00
17.6000	-5.94E-09	-0.00828	-0.01023	9.03E-09	0.08432	1374447.	0.04032	1358277.	0.00
17.8000	-4.25E-09	-0.00952	-0.00331	7.74E-09	0.09694	1374447.	0.02887	1358277.	0.00
18.0000	-2.84E-09	-0.00960	0.00151	6.35E-09	0.09780	1374447.	0.01930	1358277.	0.00
18.2000	-1.71E-09	-0.00891	0.00460	5.00E-09	0.09079	1374447.	0.01163	1358277.	0.00
18.4000	-8.43E-10	-0.00776	0.00634	3.79E-09	0.07904	1374447.	0.00572	1358277.	0.00
18.6000	-1.99E-10	-0.00638	0.00705	2.76E-09	0.06496	1374447.	0.00135	1358277.	0.00
18.8000	2.60E-10	-0.00494	0.00700	1.93E-09	0.05033	1374447.	-0.00177	1358277.	0.00
19.0000	5.75E-10	-0.00358	0.00644	1.31E-09	0.03642	1374447.	-0.00390	1358277.	0.00
19.2000	7.86E-10	-0.00237	0.00551	8.82E-10	0.02410	1374447.	-0.00534	1358277.	0.00
19.4000	9.27E-10	-0.00137	0.00435	6.10E-10	0.01396	1374447.	-0.00630	1358277.	0.00
19.6000	1.03E-09	-6.26E-04	0.00302	4.65E-10	0.00638	1374447.	-0.00699	1358277.	0.00
19.8000	1.11E-09	-1.62E-04	0.00157	4.07E-10	0.00165	1374447.	-0.00756	1358277.	0.00
20.0000	1.19E-09	0.00	0.00	3.95E-10	0.00	1374447.	-0.00810	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 1:

Pile-head deflection = 0.00086999 meters
Computed slope at pile head = -0.00032698 radians
Maximum bending moment = 118.19916427 kN-m
Maximum shear force = 100.00000000 kN
Depth of maximum bending moment = 2.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 11
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 2

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 200.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00260	1.04E-10	200.0000	-8.30E-04	1.06E-09	1374447.	0.00	0.00	0.00
0.2000	0.00243	40.0000	194.0457	-8.27E-04	407.4367	1374447.	-59.5427	4898.	0.00
0.4000	0.00227	77.6183	180.8603	-8.18E-04	790.6134	1374447.	-72.3112	6381.	0.00
0.6000	0.00210	112.3441	165.3716	-8.04E-04	1144.	1374447.	-82.5767	7850.	0.00
0.8000	0.00194	143.7669	147.9340	-7.86E-04	1464.	1374447.	-91.7988	9441.	0.00
1.0000	0.00179	171.5177	128.7574	-7.63E-04	1747.	1374447.	-99.9670	11172.	0.00
1.2000	0.00164	195.2699	108.0529	-7.36E-04	1989.	1374447.	-107.0785	13061.	0.00
1.4000	0.00150	214.7389	86.0313	-7.06E-04	2187.	1374447.	-113.1368	15133.	0.00
1.6000	0.00136	229.6824	62.9025	-6.74E-04	2340.	1374447.	-118.1516	17412.	0.00
1.8000	0.00123	239.8999	38.8736	-6.40E-04	2444.	1374447.	-122.1370	19929.	0.00
2.0000	0.00110	245.2319	14.1490	-6.04E-04	2498.	1374447.	-125.1098	22721.	0.00
2.2000	9.84E-04	245.5595	-0.8437	-5.69E-04	2501.	1374447.	-24.8171	5044.	0.00
2.4000	8.74E-04	244.8944	-5.8009	-5.33E-04	2494.	1374447.	-24.7544	5666.	0.00
2.6000	7.71E-04	243.2391	-10.7367	-4.97E-04	2478.	1374447.	-24.6041	6384.	0.00
2.8000	6.75E-04	240.5997	-15.6335	-4.62E-04	2451.	1374447.	-24.3639	7221.	0.00

3.0000	5.86E-04	236.9857	-20.4730	-4.28E-04	2414.	1374447.	-24.0310	8204.	0.00
3.2000	5.04E-04	232.4105	-25.2364	-3.93E-04	2367.	1374447.	-23.6023	9370.	0.00
3.4000	4.29E-04	226.8911	-29.9040	-3.60E-04	2311.	1374447.	-23.0736	10769.	0.00
3.6000	3.60E-04	220.4489	-34.4553	-3.27E-04	2245.	1374447.	-22.4396	12473.	0.00
3.8000	2.98E-04	213.1090	-38.8685	-2.96E-04	2171.	1374447.	-21.6930	14582.	0.00
4.0000	2.41E-04	204.9015	-43.1202	-2.65E-04	2087.	1374447.	-20.8236	17248.	0.00
4.2000	1.91E-04	195.8609	-47.1842	-2.36E-04	1995.	1374447.	-19.8165	20712.	0.00
4.4000	1.47E-04	186.0278	-51.0308	-2.09E-04	1895.	1374447.	-18.6489	25382.	0.00
4.6000	1.08E-04	175.4486	-54.6239	-1.82E-04	1787.	1374447.	-17.2830	32020.	0.00
4.8000	7.41E-05	164.1782	-57.9173	-1.58E-04	1672.	1374447.	-15.6501	42261.	0.00
5.0000	4.50E-05	152.2817	-60.8428	-1.34E-04	1551.	1374447.	-13.6054	60532.	0.00
5.2000	2.03E-05	139.8411	-63.2772	-1.13E-04	1424.	1374447.	-10.7381	105933.	0.00
5.4000	-3.36E-07	126.9709	-64.1559	-9.38E-05	1293.	1374447.	1.9501	1160378.	0.00
5.6000	-1.73E-05	114.1787	-62.9120	-7.63E-05	1163.	1374447.	10.4889	121607.	0.00
5.8000	-3.08E-05	101.8061	-60.5555	-6.06E-05	1037.	1374447.	13.0764	84797.	0.00
6.0000	-4.15E-05	89.9565	-57.7701	-4.66E-05	916.2893	1374447.	14.7781	71270.	0.00
6.2000	-4.95E-05	78.6980	-54.6892	-3.43E-05	801.6117	1374447.	16.0304	64794.	0.00
6.4000	-5.52E-05	68.0808	-51.3871	-2.36E-05	693.4654	1374447.	16.9910	61560.	0.00
6.6000	-5.89E-05	58.1432	-47.9142	-1.45E-05	592.2419	1374447.	17.7374	60188.	0.00
6.8000	-6.10E-05	48.9151	-44.3090	-6.68E-06	498.2453	1374447.	18.3147	60060.	0.00
7.0000	-6.16E-05	40.4196	-40.6024	-1.76E-07	411.7107	1374447.	18.7516	60871.	0.00
7.2000	-6.11E-05	32.6742	-36.8204	5.14E-06	332.8162	1374447.	19.0685	62460.	0.00
7.4000	-5.96E-05	25.6914	-32.9855	9.39E-06	261.6909	1374447.	19.2804	64749.	0.00
7.6000	-5.73E-05	19.4799	-29.1176	1.27E-05	198.4211	1374447.	19.3991	67708.	0.00
7.8000	-5.45E-05	14.0444	-25.2342	1.51E-05	143.0552	1374447.	19.4343	71340.	0.00
8.0000	-5.13E-05	9.3863	-21.3514	1.68E-05	95.6076	1374447.	19.3940	75674.	0.00
8.2000	-4.78E-05	5.5039	-17.4835	1.79E-05	56.0618	1374447.	19.2852	80765.	0.00
8.4000	-4.41E-05	2.3929	-13.6436	1.85E-05	24.3734	1374447.	19.1133	86691.	0.00
8.6000	-4.04E-05	0.04640	-10.8223	1.87E-05	0.4726	1374447.	9.1003	45090.	0.00
8.8000	-3.66E-05	-1.9361	-9.0671	1.85E-05	19.7205	1374447.	8.4511	46138.	0.00
9.0000	-3.30E-05	-3.5805	-7.4444	1.81E-05	36.4702	1374447.	7.7760	47187.	0.00
9.2000	-2.94E-05	-4.9138	-5.9581	1.75E-05	50.0518	1374447.	7.0876	48235.	0.00
9.4000	-2.60E-05	-5.9637	-4.6096	1.67E-05	60.7456	1374447.	6.3969	49284.	0.00
9.6000	-2.27E-05	-6.7577	-3.3985	1.58E-05	68.8330	1374447.	5.7140	50332.	0.00
9.8000	-1.96E-05	-7.3231	-2.3224	1.48E-05	74.5923	1374447.	5.0475	51381.	0.00
10.0000	-1.68E-05	-7.6866	-1.3771	1.37E-05	78.2951	1374447.	4.4048	52430.	0.00
10.2000	-1.42E-05	-7.8739	-0.5574	1.25E-05	80.2032	1374447.	3.7921	53478.	0.00
10.4000	-1.18E-05	-7.9096	0.1432	1.14E-05	80.5663	1374447.	3.2143	54527.	0.00
10.6000	-9.63E-06	-7.8167	0.7322	1.02E-05	79.6198	1374447.	2.6755	55575.	0.00
10.8000	-7.69E-06	-7.6167	1.2176	9.12E-06	77.5831	1374447.	2.1784	56624.	0.00
11.0000	-5.98E-06	-7.3296	1.6079	8.03E-06	74.6589	1374447.	1.7249	57673.	0.00
11.2000	-4.48E-06	-6.9735	1.9120	6.99E-06	71.0319	1374447.	1.3161	58721.	0.00
11.4000	-3.19E-06	-6.5648	2.1388	6.00E-06	66.8687	1374447.	0.9522	59770.	0.00
11.6000	-2.08E-06	-6.1180	2.2974	5.08E-06	62.3175	1374447.	0.6329	60818.	0.00

11.8000	-1.15E-06	-5.6459	2.3963	4.22E-06	57.5084	1374447.	0.3570	61867.	0.00
12.0000	-3.91E-07	-5.1595	2.4443	3.44E-06	52.5539	1374447.	0.1231	62916.	0.00
12.2000	2.21E-07	-4.6681	2.4496	2.72E-06	47.5493	1374447.	-0.07079	63964.	0.00
12.4000	6.98E-07	-4.1796	2.4198	2.08E-06	42.5735	1374447.	-0.2269	65013.	0.00
12.6000	1.05E-06	-3.7002	2.3623	1.51E-06	37.6901	1374447.	-0.3479	66061.	0.00
12.8000	1.30E-06	-3.2347	2.2839	1.00E-06	32.9485	1374447.	-0.4365	67110.	0.00
13.0000	1.45E-06	-2.7867	2.1907	5.64E-07	28.3847	1374447.	-0.4955	68159.	0.00
13.2000	1.53E-06	-2.3584	2.0883	1.90E-07	24.0229	1374447.	-0.5282	69207.	0.00
13.4000	1.53E-06	-1.9513	1.9818	-1.24E-07	19.8762	1374447.	-0.5374	70256.	0.00
13.6000	1.48E-06	-1.5657	1.8754	-3.80E-07	15.9485	1374447.	-0.5265	71304.	0.00
13.8000	1.38E-06	-1.2012	1.7729	-5.81E-07	12.2353	1374447.	-0.4985	72353.	0.00
14.0000	1.24E-06	-0.8566	1.6774	-7.31E-07	8.7252	1374447.	-0.4566	73402.	0.00
14.2000	1.09E-06	-0.5303	1.5913	-8.32E-07	5.4011	1374447.	-0.4041	74450.	0.00
14.4000	9.11E-07	-0.2201	1.5165	-8.86E-07	2.2417	1374447.	-0.3441	75499.	0.00
14.6000	7.31E-07	0.07634	1.4541	-8.97E-07	0.7776	1374447.	-0.2798	76547.	0.00
14.8000	5.53E-07	0.3616	1.4047	-8.65E-07	3.6828	1374447.	-0.2144	77596.	0.00
15.0000	3.85E-07	0.6382	1.3681	-7.92E-07	6.5007	1374447.	-0.1514	78644.	0.00
15.2000	2.36E-07	0.9088	1.3436	-6.80E-07	9.2569	1374447.	-0.09394	79693.	0.00
15.4000	1.13E-07	1.1756	0.1998	-5.28E-07	11.9749	1374447.	-11.3437	2.01E+07	0.00
15.6000	2.45E-08	0.9887	-0.9512	-3.71E-07	10.0710	1374447.	-0.1665	1358277.	0.00
15.8000	-3.52E-08	0.7951	-0.9440	-2.41E-07	8.0992	1374447.	0.2392	1358277.	0.00
16.0000	-7.18E-08	0.6111	-0.8713	-1.39E-07	6.2249	1374447.	0.4877	1358277.	0.00
16.2000	-9.06E-08	0.4466	-0.7609	-6.16E-08	4.5494	1374447.	0.6155	1358277.	0.00
16.4000	-9.64E-08	0.3068	-0.6339	-6.75E-09	3.1246	1374447.	0.6550	1358277.	0.00
16.6000	-9.33E-08	0.1931	-0.5050	2.96E-08	1.9666	1374447.	0.6338	1358277.	0.00
16.8000	-8.46E-08	0.1047	-0.3842	5.13E-08	1.0669	1374447.	0.5745	1358277.	0.00
17.0000	-7.28E-08	0.03940	-0.2773	6.18E-08	0.4013	1374447.	0.4945	1358277.	0.00
17.2000	-5.99E-08	-0.00617	-0.1872	6.42E-08	0.06282	1374447.	0.4067	1358277.	0.00
17.4000	-4.71E-08	-0.03546	-0.1145	6.12E-08	0.3612	1374447.	0.3202	1358277.	0.00
17.6000	-3.54E-08	-0.05195	-0.05839	5.48E-08	0.5292	1374447.	0.2406	1358277.	0.00
17.8000	-2.52E-08	-0.05882	-0.01721	4.67E-08	0.5992	1374447.	0.1713	1358277.	0.00
18.0000	-1.67E-08	-0.05884	0.01129	3.82E-08	0.5993	1374447.	0.1136	1358277.	0.00
18.2000	-9.95E-09	-0.05431	0.02941	2.99E-08	0.5532	1374447.	0.06758	1358277.	0.00
18.4000	-4.75E-09	-0.04707	0.03939	2.26E-08	0.4795	1374447.	0.03227	1358277.	0.00
18.6000	-9.23E-10	-0.03855	0.04324	1.63E-08	0.3927	1374447.	0.00627	1358277.	0.00
18.8000	1.78E-09	-0.02978	0.04266	1.14E-08	0.3033	1374447.	-0.01212	1358277.	0.00
19.0000	3.62E-09	-0.02149	0.03899	7.64E-09	0.2189	1374447.	-0.02461	1358277.	0.00
19.2000	4.84E-09	-0.01418	0.03324	5.04E-09	0.1445	1374447.	-0.03287	1358277.	0.00
19.4000	5.64E-09	-0.00819	0.02612	3.42E-09	0.08345	1374447.	-0.03831	1358277.	0.00
19.6000	6.21E-09	-0.00373	0.01807	2.55E-09	0.03804	1374447.	-0.04214	1358277.	0.00
19.8000	6.66E-09	-9.63E-04	0.00934	2.21E-09	0.00981	1374447.	-0.04523	1358277.	0.00
20.0000	7.09E-09	0.00	0.00	2.14E-09	0.00	1374447.	-0.04813	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 2:

Pile-head deflection = 0.00259705 meters
Computed slope at pile head = -0.00082956 radians
Maximum bending moment = 245.55945970 kN-m
Maximum shear force = 200.00000000 kN
Depth of maximum bending moment = 2.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 15
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 3

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 300.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00535	-2.68E-10	300.0000	-0.00152	2.73E-09	1374447.	0.00	0.00	0.00
0.2000	0.00504	60.0000	293.0694	-0.00152	611.1550	1374447.	-69.3065	2748.	0.00
0.4000	0.00474	117.2277	277.0567	-0.00151	1194.	1374447.	-90.8197	3831.	0.00
0.6000	0.00444	170.8227	256.9383	-0.00148	1740.	1374447.	-110.3644	4970.	0.00
0.8000	0.00415	220.0031	233.0979	-0.00146	2241.	1374447.	-128.0395	6175.	0.00
1.0000	0.00386	264.0619	205.9089	-0.00142	2690.	1374447.	-143.8508	7455.	0.00
1.2000	0.00358	302.3666	175.7577	-0.00138	3080.	1374447.	-157.6613	8811.	0.00
1.4000	0.00331	334.3649	143.1661	-0.00133	3406.	1374447.	-168.2549	10175.	0.00
1.6000	0.00305	359.6331	108.6420	-0.00128	3663.	1374447.	-176.9857	11623.	0.00
1.8000	0.00279	377.8218	72.5036	-0.00123	3848.	1374447.	-184.3985	13199.	0.00
2.0000	0.00255	388.6345	35.0129	-0.00117	3959.	1374447.	-190.5089	14920.	0.00
2.2000	0.00232	391.8269	12.6568	-0.00112	3991.	1374447.	-33.0512	2843.	0.00
2.4000	0.00211	393.6972	6.0325	-0.00106	4010.	1374447.	-33.1926	3151.	0.00
2.6000	0.00190	394.2399	-0.6107	-0.00100	4016.	1374447.	-33.2388	3497.	0.00

2.8000	0.00171	393.4530	-7.2533	-9.45E-04	4008.	1374447.	-33.1878	3890.	0.00
3.0000	0.00152	391.3385	-13.8759	-8.88E-04	3986.	1374447.	-33.0375	4338.	0.00
3.2000	0.00135	387.9026	-20.4582	-8.31E-04	3951.	1374447.	-32.7858	4853.	0.00
3.4000	0.00119	383.1553	-26.9798	-7.75E-04	3903.	1374447.	-32.4299	5448.	0.00
3.6000	0.00104	377.1107	-33.4194	-7.20E-04	3841.	1374447.	-31.9666	6140.	0.00
3.8000	9.03E-04	369.7875	-39.7553	-6.65E-04	3767.	1374447.	-31.3921	6954.	0.00
4.0000	7.75E-04	361.2086	-45.9646	-6.12E-04	3679.	1374447.	-30.7015	7922.	0.00
4.2000	6.58E-04	351.4017	-52.0236	-5.60E-04	3579.	1374447.	-29.8886	9085.	0.00
4.4000	5.51E-04	340.3992	-57.9070	-5.10E-04	3467.	1374447.	-28.9452	10506.	0.00
4.6000	4.54E-04	328.2389	-63.5875	-4.61E-04	3343.	1374447.	-27.8598	12273.	0.00
4.8000	3.67E-04	314.9642	-69.0351	-4.14E-04	3208.	1374447.	-26.6163	14523.	0.00
5.0000	2.88E-04	300.6248	-74.2158	-3.70E-04	3062.	1374447.	-25.1904	17478.	0.00
5.2000	2.19E-04	285.2779	-79.0892	-3.27E-04	2906.	1374447.	-23.5440	21532.	0.00
5.4000	1.57E-04	268.9891	-83.6048	-2.87E-04	2740.	1374447.	-21.6120	27454.	0.00
5.6000	1.04E-04	251.8359	-87.6930	-2.49E-04	2565.	1374447.	-19.2699	37051.	0.00
5.8000	5.79E-05	233.9119	-91.2426	-2.13E-04	2383.	1374447.	-16.2257	56025.	0.00
6.0000	1.86E-05	215.3389	-94.0045	-1.81E-04	2193.	1374447.	-11.3937	122268.	0.00
6.2000	-1.44E-05	196.3101	-94.0838	-1.51E-04	2000.	1374447.	10.6007	147415.	0.00
6.4000	-4.17E-05	177.7054	-91.4755	-1.24E-04	1810.	1374447.	15.4825	74277.	0.00
6.6000	-6.38E-05	159.7199	-88.1043	-9.91E-05	1627.	1374447.	18.2291	57124.	0.00
6.8000	-8.13E-05	142.4637	-84.2641	-7.71E-05	1451.	1374447.	20.1732	49621.	0.00
7.0000	-9.46E-05	126.0143	-80.0816	-5.75E-05	1284.	1374447.	21.6523	45753.	0.00
7.2000	-1.04E-04	110.4310	-75.6352	-4.03E-05	1125.	1374447.	22.8107	43731.	0.00
7.4000	-1.11E-04	95.7602	-70.9817	-2.53E-05	975.4053	1374447.	23.7251	42832.	0.00
7.6000	-1.14E-04	82.0384	-66.1649	-1.24E-05	835.6359	1374447.	24.4422	42711.	0.00
7.8000	-1.16E-04	69.2942	-61.2215	-1.38E-06	705.8251	1374447.	24.9925	43188.	0.00
8.0000	-1.15E-04	57.5498	-56.1824	7.85E-06	586.1972	1374447.	25.3979	44168.	0.00
8.2000	-1.13E-04	46.8212	-51.0752	1.54E-05	476.9173	1374447.	25.6744	45603.	0.00
8.4000	-1.09E-04	37.1197	-45.9243	2.15E-05	378.0981	1374447.	25.8343	47477.	0.00
8.6000	-1.04E-04	28.4515	-40.9967	2.63E-05	289.8047	1374447.	23.4420	45090.	0.00
8.8000	-9.83E-05	20.7210	-36.3848	2.99E-05	211.0625	1374447.	22.6773	46138.	0.00
9.0000	-9.20E-05	13.8976	-31.9460	3.24E-05	141.5598	1374447.	21.7109	47187.	0.00
9.2000	-8.53E-05	7.9426	-27.7168	3.40E-05	80.9029	1374447.	20.5810	48235.	0.00
9.4000	-7.84E-05	2.8109	-23.7263	3.48E-05	28.6315	1374447.	19.3241	49284.	0.00
9.6000	-7.14E-05	-1.5479	-19.9965	3.49E-05	15.7666	1374447.	17.9740	50332.	0.00
9.8000	-6.45E-05	-5.1877	-16.5428	3.44E-05	52.8414	1374447.	16.5622	51381.	0.00
10.0000	-5.77E-05	-8.1650	-13.3749	3.34E-05	83.1682	1374447.	15.1170	52430.	0.00
10.2000	-5.11E-05	-10.5377	-10.4968	3.21E-05	107.3357	1374447.	13.6640	53478.	0.00
10.4000	-4.48E-05	-12.3637	-7.9078	3.04E-05	125.9361	1374447.	12.2258	54527.	0.00
10.6000	-3.89E-05	-13.7008	-5.6031	2.85E-05	139.5552	1374447.	10.8220	55575.	0.00
10.8000	-3.34E-05	-14.6050	-3.5740	2.64E-05	148.7650	1374447.	9.4692	56624.	0.00
11.0000	-2.84E-05	-15.1304	-1.8089	2.43E-05	154.1168	1374447.	8.1813	57673.	0.00
11.2000	-2.37E-05	-15.3285	-0.2938	2.21E-05	156.1352	1374447.	6.9694	58721.	0.00
11.4000	-1.95E-05	-15.2479	0.9873	1.98E-05	155.3141	1374447.	5.8423	59770.	0.00

11.6000	-1.58E-05	-14.9336	2.0522	1.76E-05	152.1125	1374447.	4.8063	60818.	0.00
11.8000	-1.25E-05	-14.4270	2.9194	1.55E-05	146.9527	1374447.	3.8654	61867.	0.00
12.0000	-9.61E-06	-13.7659	3.6081	1.34E-05	140.2179	1374447.	3.0219	62916.	0.00
12.2000	-7.12E-06	-12.9838	4.1379	1.15E-05	132.2520	1374447.	2.2762	63964.	0.00
12.4000	-5.01E-06	-12.1107	4.5282	9.67E-06	123.3587	1374447.	1.6272	65013.	0.00
12.6000	-3.25E-06	-11.1725	4.7982	7.98E-06	113.8023	1374447.	1.0726	66061.	0.00
12.8000	-1.81E-06	-10.1914	4.9663	6.43E-06	103.8090	1374447.	0.6085	67110.	0.00
13.0000	-6.77E-07	-9.1860	5.0502	5.02E-06	93.5677	1374447.	0.2306	68159.	0.00
13.2000	1.93E-07	-8.1713	5.0666	3.75E-06	83.2325	1374447.	-0.06681	69207.	0.00
13.4000	8.25E-07	-7.1593	5.0310	2.64E-06	72.9244	1374447.	-0.2898	70256.	0.00
13.6000	1.25E-06	-6.1589	4.9575	1.67E-06	62.7345	1374447.	-0.4451	71304.	0.00
13.8000	1.49E-06	-5.1764	4.8590	8.45E-07	52.7259	1374447.	-0.5400	72353.	0.00
14.0000	1.59E-06	-4.2154	4.7467	1.61E-07	42.9373	1374447.	-0.5822	73402.	0.00
14.2000	1.56E-06	-3.2777	4.6306	-3.84E-07	33.3859	1374447.	-0.5797	74450.	0.00
14.4000	1.43E-06	-2.3631	4.5185	-7.94E-07	24.0707	1374447.	-0.5408	75499.	0.00
14.6000	1.24E-06	-1.4703	4.4170	-1.07E-06	14.9759	1374447.	-0.4744	76547.	0.00
14.8000	1.00E-06	-0.5963	4.3306	-1.22E-06	6.0743	1374447.	-0.3893	77596.	0.00
15.0000	7.50E-07	0.2620	4.2622	-1.25E-06	2.6686	1374447.	-0.2950	78644.	0.00
15.2000	5.04E-07	1.1085	4.2126	-1.15E-06	11.2914	1374447.	-0.2010	79693.	0.00
15.4000	2.91E-07	1.9470	2.3844	-9.26E-07	19.8323	1374447.	-18.0813	1.24E+07	0.00
15.6000	1.34E-07	2.0623	-0.9061	-6.34E-07	21.0062	1374447.	-14.8237	2.21E+07	0.00
15.8000	3.72E-08	1.5846	-2.4138	-3.69E-07	16.1404	1374447.	-0.2526	1358277.	0.00
16.0000	-1.35E-08	1.0968	-2.4298	-1.74E-07	11.1716	1374447.	0.09171	1358277.	0.00
16.2000	-3.23E-08	0.6126	-2.0598	-4.93E-08	6.2403	1374447.	3.6087	2.24E+07	0.00
16.4000	-3.32E-08	0.2728	-1.3658	1.51E-08	2.7792	1374447.	3.3316	2.01E+07	0.00
16.6000	-2.62E-08	0.06632	-0.7742	3.98E-08	0.6755	1374447.	2.5844	1.97E+07	0.00
16.8000	-1.73E-08	-0.03683	-0.3387	4.19E-08	0.3751	1374447.	1.7706	2.04E+07	0.00
17.0000	-9.47E-09	-0.06915	-0.05704	3.42E-08	0.7044	1374447.	1.0458	2.21E+07	0.00
17.2000	-3.63E-09	-0.05964	0.05001	2.48E-08	0.6075	1374447.	0.02468	1358277.	0.00
17.4000	4.68E-10	-0.04915	0.05216	1.69E-08	0.5006	1374447.	-0.00318	1358277.	0.00
17.6000	3.14E-09	-0.03878	0.04971	1.05E-08	0.3950	1374447.	-0.02131	1358277.	0.00
17.8000	4.68E-09	-0.02926	0.04440	5.58E-09	0.2981	1374447.	-0.03179	1358277.	0.00
18.0000	5.37E-09	-0.02102	0.03757	1.92E-09	0.2141	1374447.	-0.03648	1358277.	0.00
18.2000	5.45E-09	-0.01423	0.03022	-6.41E-10	0.1450	1374447.	-0.03702	1358277.	0.00
18.4000	5.12E-09	-0.00893	0.02305	-2.33E-09	0.09095	1374447.	-0.03474	1358277.	0.00
18.6000	4.52E-09	-0.00501	0.01651	-3.34E-09	0.05107	1374447.	-0.03070	1358277.	0.00
18.8000	3.78E-09	-0.00233	0.01087	-3.87E-09	0.02370	1374447.	-0.02566	1358277.	0.00
19.0000	2.97E-09	-6.66E-04	0.00629	-4.09E-09	0.00679	1374447.	-0.02017	1358277.	0.00
19.2000	2.14E-09	1.87E-04	0.00281	-4.13E-09	0.00191	1374447.	-0.01455	1358277.	0.00
19.4000	1.32E-09	4.59E-04	4.62E-04	-4.08E-09	0.00468	1374447.	-0.00896	1358277.	0.00
19.6000	5.10E-10	3.72E-04	-7.80E-04	-4.02E-09	0.00379	1374447.	-0.00346	1358277.	0.00
19.8000	-2.88E-10	1.47E-04	-9.31E-04	-3.98E-09	0.00150	1374447.	0.00196	1358277.	0.00
20.0000	-1.08E-09	0.00	0.00	-3.97E-09	0.00	1374447.	0.00735	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 3:

Pile-head deflection = 0.00534811 meters
Computed slope at pile head = -0.00152268 radians
Maximum bending moment = 394.23988096 kN-m
Maximum shear force = 300.00000000 kN
Depth of maximum bending moment = 2.60000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 19
Number of zero deflection points = 5

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 4

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 400.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.01014	-5.96E-10	400.0000	-0.00256	6.07E-09	1374447.	0.00	0.00	0.00
0.2000	0.00963	80.0000	393.7671	-0.00255	814.8733	1374447.	-62.3289	1295.	0.00
0.4000	0.00912	157.5068	378.1457	-0.00254	1604.	1374447.	-93.8853	2059.	0.00
0.6000	0.00861	231.2583	356.4740	-0.00251	2356.	1374447.	-122.8320	2852.	0.00
0.8000	0.00811	300.0964	329.2440	-0.00247	3057.	1374447.	-149.4676	3684.	0.00
1.0000	0.00762	362.9559	296.9014	-0.00242	3697.	1374447.	-173.9582	4563.	0.00
1.2000	0.00715	418.8570	259.8653	-0.00237	4266.	1374447.	-196.4034	5498.	0.00
1.4000	0.00668	466.9020	218.5383	-0.00230	4756.	1374447.	-216.8666	6495.	0.00
1.6000	0.00622	506.2723	173.3127	-0.00223	5157.	1374447.	-235.3891	7563.	0.00
1.8000	0.00579	536.2271	124.5743	-0.00215	5462.	1374447.	-251.9948	8711.	0.00
2.0000	0.00536	556.1020	72.7059	-0.00207	5664.	1374447.	-266.6894	9946.	0.00
2.2000	0.00496	565.3094	41.7833	-0.00199	5758.	1374447.	-42.5363	1717.	0.00
2.4000	0.00457	572.8154	33.2347	-0.00191	5835.	1374447.	-42.9499	1881.	0.00

2.6000	0.00419	578.6033	24.6135	-0.00183	5894.	1374447.	-43.2619	2064.	0.00
2.8000	0.00383	582.6607	15.9402	-0.00174	5935.	1374447.	-43.4707	2267.	0.00
3.0000	0.00349	584.9794	7.2357	-0.00166	5959.	1374447.	-43.5745	2494.	0.00
3.2000	0.00317	585.5550	-1.4789	-0.00157	5964.	1374447.	-43.5718	2747.	0.00
3.4000	0.00287	584.3878	-10.1821	-0.00149	5953.	1374447.	-43.4605	3033.	0.00
3.6000	0.00258	581.4822	-18.8521	-0.00140	5923.	1374447.	-43.2389	3356.	0.00
3.8000	0.00231	576.8470	-27.4664	-0.00132	5876.	1374447.	-42.9045	3722.	0.00
4.0000	0.00205	570.4956	-36.0024	-0.00123	5811.	1374447.	-42.4550	4142.	0.00
4.2000	0.00181	562.4460	-44.4366	-0.00115	5729.	1374447.	-41.8873	4625.	0.00
4.4000	0.00159	552.7210	-52.7451	-0.00107	5630.	1374447.	-41.1981	5185.	0.00
4.6000	0.00138	541.3480	-60.9032	-9.91E-04	5514.	1374447.	-40.3830	5839.	0.00
4.8000	0.00119	528.3597	-68.8852	-9.13E-04	5382.	1374447.	-39.4368	6613.	0.00
5.0000	0.00102	513.7939	-76.6642	-8.38E-04	5233.	1374447.	-38.3528	7537.	0.00
5.2000	8.58E-04	497.6940	-84.2117	-7.64E-04	5069.	1374447.	-37.1220	8656.	0.00
5.4000	7.12E-04	480.1092	-91.4971	-6.93E-04	4890.	1374447.	-35.7323	10035.	0.00
5.6000	5.81E-04	461.0952	-98.4870	-6.24E-04	4697.	1374447.	-34.1667	11770.	0.00
5.8000	4.62E-04	440.7145	-105.1437	-5.59E-04	4489.	1374447.	-32.4005	14014.	0.00
6.0000	3.57E-04	419.0377	-111.4233	-4.96E-04	4268.	1374447.	-30.3956	17026.	0.00
6.2000	2.64E-04	396.1451	-117.2718	-4.37E-04	4035.	1374447.	-28.0895	21287.	0.00
6.4000	1.82E-04	372.1290	-122.6177	-3.81E-04	3790.	1374447.	-25.3694	27834.	0.00
6.6000	1.12E-04	347.0980	-127.3544	-3.29E-04	3536.	1374447.	-21.9979	39456.	0.00
6.8000	5.08E-05	321.1872	-131.2842	-2.80E-04	3272.	1374447.	-17.2999	68083.	0.00
7.0000	-5.18E-07	294.5844	-132.7002	-2.35E-04	3001.	1374447.	3.1396	1212735.	0.00
7.2000	-4.33E-05	268.1071	-130.6887	-1.94E-04	2731.	1374447.	16.9758	78442.	0.00
7.4000	-7.82E-05	242.3089	-126.8804	-1.57E-04	2468.	1374447.	21.1070	53952.	0.00
7.6000	-1.06E-04	217.3549	-122.3876	-1.24E-04	2214.	1374447.	23.8211	44880.	0.00
7.8000	-1.28E-04	193.3538	-117.4239	-9.39E-05	1969.	1374447.	25.8160	40420.	0.00
8.0000	-1.44E-04	170.3854	-112.1078	-6.74E-05	1736.	1374447.	27.3452	38060.	0.00
8.2000	-1.55E-04	148.5107	-106.5199	-4.42E-05	1513.	1374447.	28.5332	36890.	0.00
8.4000	-1.61E-04	127.7774	-100.7214	-2.41E-05	1302.	1374447.	29.4519	36502.	0.00
8.6000	-1.64E-04	108.2222	-94.0715	-6.92E-06	1102.	1374447.	37.0476	45090.	0.00
8.8000	-1.64E-04	90.1488	-86.5802	7.52E-06	918.2483	1374447.	37.8649	46138.	0.00
9.0000	-1.61E-04	73.5901	-78.9876	1.94E-05	749.5822	1374447.	38.0613	47187.	0.00
9.2000	-1.56E-04	58.5538	-71.4103	2.90E-05	596.4238	1374447.	37.7116	48235.	0.00
9.4000	-1.50E-04	45.0259	-63.9501	3.66E-05	458.6305	1374447.	36.8901	49284.	0.00
9.6000	-1.42E-04	32.9737	-56.6942	4.23E-05	335.8675	1374447.	35.6689	50332.	0.00
9.8000	-1.33E-04	22.3482	-49.7156	4.63E-05	227.6374	1374447.	34.1176	51381.	0.00
10.0000	-1.23E-04	13.0875	-43.0736	4.89E-05	133.3080	1374447.	32.3022	52430.	0.00
10.2000	-1.13E-04	5.1188	-36.8149	5.02E-05	52.1397	1374447.	30.2844	53478.	0.00
10.4000	-1.03E-04	-1.6385	-30.9743	5.04E-05	16.6896	1374447.	28.1216	54527.	0.00
10.6000	-9.31E-05	-7.2709	-25.5756	4.98E-05	74.0611	1374447.	25.8660	55575.	0.00
10.8000	-8.32E-05	-11.8687	-20.6325	4.84E-05	120.8939	1374447.	23.5648	56624.	0.00
11.0000	-7.37E-05	-15.5239	-16.1501	4.64E-05	158.1256	1374447.	21.2598	57673.	0.00
11.2000	-6.47E-05	-18.3288	-12.1253	4.39E-05	186.6952	1374447.	18.9879	58721.	0.00

11.4000	-5.61E-05	-20.3741	-8.5485	4.11E-05	207.5284	1374447.	16.7804	59770.	0.00
11.6000	-4.82E-05	-21.7481	-5.4040	3.81E-05	221.5248	1374447.	14.6638	60818.	0.00
11.8000	-4.09E-05	-22.5357	-2.6717	3.48E-05	229.5465	1374447.	12.6599	61867.	0.00
12.0000	-3.43E-05	-22.8168	-0.3271	3.15E-05	232.4101	1374447.	10.7859	62916.	0.00
12.2000	-2.83E-05	-22.6665	1.6570	2.82E-05	230.8792	1374447.	9.0545	63964.	0.00
12.4000	-2.30E-05	-22.1540	3.3099	2.50E-05	225.6591	1374447.	7.4750	65013.	0.00
12.6000	-1.83E-05	-21.3425	4.6627	2.18E-05	217.3934	1374447.	6.0527	66061.	0.00
12.8000	-1.43E-05	-20.2890	5.7469	1.88E-05	206.6616	1374447.	4.7898	67110.	0.00
13.0000	-1.08E-05	-19.0438	6.5944	1.59E-05	193.9784	1374447.	3.6856	68159.	0.00
13.2000	-7.91E-06	-17.6512	7.2367	1.32E-05	179.7934	1374447.	2.7370	69207.	0.00
13.4000	-5.52E-06	-16.1491	7.7042	1.08E-05	164.4934	1374447.	1.9383	70256.	0.00
13.6000	-3.60E-06	-14.5695	8.0263	8.55E-06	148.4035	1374447.	1.2822	71304.	0.00
13.8000	-2.10E-06	-12.9386	8.2304	6.55E-06	131.7913	1374447.	0.7592	72353.	0.00
14.0000	-9.78E-07	-11.2773	8.3422	4.78E-06	114.8697	1374447.	0.3588	73402.	0.00
14.2000	-1.85E-07	-9.6017	8.3850	3.27E-06	97.8020	1374447.	0.06878	74450.	0.00
14.4000	3.29E-07	-7.9233	8.3795	1.99E-06	80.7062	1374447.	-0.1241	75499.	0.00
14.6000	6.11E-07	-6.2499	8.3437	9.59E-07	63.6610	1374447.	-0.2340	76547.	0.00
14.8000	7.12E-07	-4.5859	8.2926	1.71E-07	46.7111	1374447.	-0.2764	77596.	0.00
15.0000	6.80E-07	-2.9329	8.2382	-3.76E-07	29.8738	1374447.	-0.2674	78644.	0.00
15.2000	5.62E-07	-1.2906	8.1891	-6.83E-07	13.1455	1374447.	-0.2240	79693.	0.00
15.4000	4.07E-07	0.3428	5.9225	-7.52E-07	3.4915	1374447.	-22.4420	1.10E+07	0.00
15.6000	2.61E-07	1.0784	1.6133	-6.49E-07	10.9849	1374447.	-20.6500	1.58E+07	0.00
15.8000	1.47E-07	0.9881	-0.5516	-4.98E-07	10.0647	1374447.	-0.9993	1358277.	0.00
16.0000	6.18E-08	0.8578	-0.6936	-3.64E-07	8.7374	1374447.	-0.4200	1358277.	0.00
16.2000	1.50E-09	0.7107	-0.7366	-2.50E-07	7.2389	1374447.	-0.01022	1358277.	0.00
16.4000	-3.82E-08	0.5632	-0.7117	-1.57E-07	5.7363	1374447.	0.2591	1358277.	0.00
16.6000	-6.14E-08	0.4260	-0.6441	-8.53E-08	4.3392	1374447.	0.4171	1358277.	0.00
16.8000	-7.23E-08	0.3055	-0.5533	-3.21E-08	3.1121	1374447.	0.4909	1358277.	0.00
17.0000	-7.43E-08	0.2047	-0.4537	5.01E-09	2.0850	1374447.	0.5044	1358277.	0.00
17.2000	-7.03E-08	0.1240	-0.3556	2.89E-08	1.2635	1374447.	0.4773	1358277.	0.00
17.4000	-6.27E-08	0.06247	-0.2653	4.25E-08	0.6363	1374447.	0.4258	1358277.	0.00
17.6000	-5.33E-08	0.01794	-0.1865	4.83E-08	0.1827	1374447.	0.3619	1358277.	0.00
17.8000	-4.34E-08	-0.01212	-0.1209	4.88E-08	0.1235	1374447.	0.2945	1358277.	0.00
18.0000	-3.38E-08	-0.03040	-0.06846	4.57E-08	0.3097	1374447.	0.2294	1358277.	0.00
18.2000	-2.51E-08	-0.03951	-0.02848	4.06E-08	0.4024	1374447.	0.1704	1358277.	0.00
18.4000	-1.75E-08	-0.04180	4.69E-04	3.47E-08	0.4257	1374447.	0.1192	1358277.	0.00
18.6000	-1.12E-08	-0.03932	0.02000	2.88E-08	0.4005	1374447.	0.07619	1358277.	0.00
18.8000	-6.04E-09	-0.03379	0.03172	2.35E-08	0.3442	1374447.	0.04100	1358277.	0.00
19.0000	-1.84E-09	-0.02663	0.03707	1.91E-08	0.2713	1374447.	0.01249	1358277.	0.00
19.2000	1.58E-09	-0.01897	0.03724	1.57E-08	0.1932	1374447.	-0.01076	1358277.	0.00
19.4000	4.46E-09	-0.01173	0.03314	1.35E-08	0.1195	1374447.	-0.03027	1358277.	0.00
19.6000	6.99E-09	-0.00571	0.02537	1.22E-08	0.05816	1374447.	-0.04745	1358277.	0.00
19.8000	9.35E-09	-0.00158	0.01427	1.17E-08	0.01614	1374447.	-0.06350	1358277.	0.00
20.0000	1.17E-08	0.00	0.00	1.16E-08	0.00	1374447.	-0.07924	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 4:

Pile-head deflection = 0.01013959 meters
Computed slope at pile head = -0.00256062 radians
Maximum bending moment = 585.55503502 kN-m
Maximum shear force = 400.00000000 kN
Depth of maximum bending moment = 3.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 29
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 5

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 480.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.01826	-5.96E-10	480.0000	-0.00406	6.07E-09	1374447.	0.00	0.00	0.00
0.2000	0.01745	96.0000	475.8083	-0.00405	977.8480	1374447.	-41.9172	480.5399	0.00
0.4000	0.01664	190.3233	464.4208	-0.00403	1939.	1374447.	-71.9580	865.0192	0.00
0.6000	0.01583	281.7683	446.5642	-0.00399	2870.	1374447.	-106.6078	1347.	0.00
0.8000	0.01504	368.9490	421.4232	-0.00395	3758.	1374447.	-144.8017	1926.	0.00
1.0000	0.01426	450.3376	388.9181	-0.00389	4587.	1374447.	-180.2492	2529.	0.00
1.2000	0.01348	524.5162	349.5760	-0.00382	5343.	1374447.	-213.1718	3162.	0.00
1.4000	0.01273	590.1680	303.8870	-0.00374	6011.	1374447.	-243.7182	3829.	0.00
1.6000	0.01199	646.0711	252.3157	-0.00365	6581.	1374447.	-271.9955	4537.	0.00
1.8000	0.01127	691.0943	195.3076	-0.00355	7039.	1374447.	-298.0853	5290.	0.00
2.0000	0.01057	724.1941	133.2938	-0.00345	7377.	1374447.	-322.0526	6093.	0.00
2.2000	0.00989	744.4118	95.7329	-0.00334	7583.	1374447.	-53.5564	1083.	0.00

2.4000	0.00924	762.4873	84.9454	-0.00323	7767.	1374447.	-54.3183	1176.	0.00
2.6000	0.00860	778.3900	74.0164	-0.00312	7929.	1374447.	-54.9725	1278.	0.00
2.8000	0.00799	792.0938	62.9673	-0.00300	8068.	1374447.	-55.5176	1390.	0.00
3.0000	0.00740	803.5769	51.8204	-0.00289	8185.	1374447.	-55.9522	1512.	0.00
3.2000	0.00683	812.8219	40.5977	-0.00277	8279.	1374447.	-56.2746	1647.	0.00
3.4000	0.00629	819.8160	29.3219	-0.00265	8351.	1374447.	-56.4834	1795.	0.00
3.6000	0.00577	824.5507	18.0159	-0.00253	8399.	1374447.	-56.5769	1960.	0.00
3.8000	0.00528	827.0223	6.7028	-0.00241	8424.	1374447.	-56.5535	2142.	0.00
4.0000	0.00481	827.2318	-4.5937	-0.00229	8426.	1374447.	-56.4116	2346.	0.00
4.2000	0.00436	825.1849	-15.8498	-0.00217	8405.	1374447.	-56.1493	2573.	0.00
4.4000	0.00394	820.8919	-27.0412	-0.00205	8362.	1374447.	-55.7648	2829.	0.00
4.6000	0.00354	814.3684	-38.1432	-0.00193	8295.	1374447.	-55.2558	3118.	0.00
4.8000	0.00317	805.6346	-49.1308	-0.00181	8206.	1374447.	-54.6199	3446.	0.00
5.0000	0.00282	794.7161	-59.9783	-0.00170	8095.	1374447.	-53.8545	3821.	0.00
5.2000	0.00249	781.6433	-70.6593	-0.00158	7962.	1374447.	-52.9563	4252.	0.00
5.4000	0.00219	766.4523	-81.1471	-0.00147	7807.	1374447.	-51.9215	4750.	0.00
5.6000	0.00190	749.1845	-91.4138	-0.00136	7631.	1374447.	-50.7455	5332.	0.00
5.8000	0.00164	729.8868	-101.4306	-0.00125	7435.	1374447.	-49.4222	6018.	0.00
6.0000	0.00140	708.6123	-111.1672	-0.00115	7218.	1374447.	-47.9443	6836.	0.00
6.2000	0.00118	685.4199	-120.5918	-0.00105	6982.	1374447.	-46.3017	7823.	0.00
6.4000	9.85E-04	660.3755	-129.6701	-9.47E-04	6727.	1374447.	-44.4811	9036.	0.00
6.6000	8.05E-04	633.5519	-138.3646	-8.53E-04	6453.	1374447.	-42.4635	10554.	0.00
6.8000	6.43E-04	605.0297	-146.6331	-7.63E-04	6163.	1374447.	-40.2218	12506.	0.00
7.0000	4.99E-04	574.8986	-154.4267	-6.77E-04	5856.	1374447.	-37.7145	15103.	0.00
7.2000	3.72E-04	543.2590	-161.6856	-5.96E-04	5534.	1374447.	-34.8744	18734.	0.00
7.4000	2.61E-04	510.2244	-168.3313	-5.19E-04	5197.	1374447.	-31.5826	24199.	0.00
7.6000	1.65E-04	475.9265	-174.2494	-4.48E-04	4848.	1374447.	-27.5980	33537.	0.00
7.8000	8.20E-05	440.5246	-179.2379	-3.81E-04	4487.	1374447.	-22.2870	54365.	0.00
8.0000	1.22E-05	404.2313	-182.6701	-3.19E-04	4117.	1374447.	-12.0351	196989.	0.00
8.2000	-4.58E-05	367.4566	-181.9711	-2.63E-04	3743.	1374447.	19.0251	83101.	0.00
8.4000	-9.31E-05	331.4429	-177.6156	-2.12E-04	3376.	1374447.	24.5296	52695.	0.00
8.6000	-1.31E-04	296.4103	-172.2145	-1.67E-04	3019.	1374447.	29.4814	45090.	0.00
8.8000	-1.60E-04	262.5571	-165.5797	-1.26E-04	2674.	1374447.	36.8665	46138.	0.00
9.0000	-1.81E-04	230.1784	-157.6178	-9.03E-05	2345.	1374447.	42.7533	47187.	0.00
9.2000	-1.96E-04	199.5100	-148.6175	-5.90E-05	2032.	1374447.	47.2489	48235.	0.00
9.4000	-2.05E-04	170.7314	-138.8458	-3.21E-05	1739.	1374447.	50.4679	49284.	0.00
9.6000	-2.09E-04	143.9716	-128.5461	-9.16E-06	1466.	1374447.	52.5297	50332.	0.00
9.8000	-2.08E-04	119.3130	-117.9375	1.00E-05	1215.	1374447.	53.5563	51381.	0.00
10.0000	-2.05E-04	96.7966	-107.2149	2.57E-05	985.9623	1374447.	53.6699	52430.	0.00
10.2000	-1.98E-04	76.4270	-96.5488	3.83E-05	778.4795	1374447.	52.9910	53478.	0.00
10.4000	-1.89E-04	58.1771	-86.0860	4.81E-05	592.5872	1374447.	51.6370	54527.	0.00
10.6000	-1.79E-04	41.9927	-75.9502	5.54E-05	427.7337	1374447.	49.7205	55575.	0.00
10.8000	-1.67E-04	27.7970	-66.2434	6.05E-05	283.1382	1374447.	47.3481	56624.	0.00
11.0000	-1.55E-04	15.4953	-57.0466	6.36E-05	157.8340	1374447.	44.6200	57673.	0.00

11.2000	-1.42E-04	4.9784	-48.4217	6.51E-05	50.7096	1374447.	41.6283	58721.	0.00
11.4000	-1.29E-04	-3.8734	-40.4132	6.52E-05	39.4539	1374447.	38.4575	59770.	0.00
11.6000	-1.16E-04	-11.1869	-33.0491	6.41E-05	113.9485	1374447.	35.1836	60818.	0.00
11.8000	-1.03E-04	-17.0930	-26.3433	6.21E-05	174.1079	1374447.	31.8743	61867.	0.00
12.0000	-9.09E-05	-21.7242	-20.2970	5.92E-05	221.2806	1374447.	28.5887	62916.	0.00
12.2000	-7.93E-05	-25.2118	-14.9003	5.58E-05	256.8053	1374447.	25.3778	63964.	0.00
12.4000	-6.86E-05	-27.6843	-10.1341	5.20E-05	281.9900	1374447.	22.2845	65013.	0.00
12.6000	-5.86E-05	-29.2654	-5.9712	4.78E-05	298.0953	1374447.	19.3441	66061.	0.00
12.8000	-4.94E-05	-30.0728	-2.3784	4.35E-05	306.3191	1374447.	16.5848	67110.	0.00
13.0000	-4.12E-05	-30.2168	0.6829	3.91E-05	307.7856	1374447.	14.0279	68159.	0.00
13.2000	-3.38E-05	-29.7996	3.2546	3.48E-05	303.5366	1374447.	11.6886	69207.	0.00
13.4000	-2.73E-05	-28.9150	5.3811	3.05E-05	294.5253	1374447.	9.5766	70256.	0.00
13.6000	-2.16E-05	-27.6472	7.1084	2.64E-05	281.6121	1374447.	7.6963	71304.	0.00
13.8000	-1.67E-05	-26.0716	8.4828	2.25E-05	265.5631	1374447.	6.0475	72353.	0.00
14.0000	-1.26E-05	-24.2541	9.5501	1.88E-05	247.0502	1374447.	4.6261	73402.	0.00
14.2000	-9.20E-06	-22.2516	10.3552	1.54E-05	226.6525	1374447.	3.4244	74450.	0.00
14.4000	-6.44E-06	-20.1120	10.9407	1.23E-05	204.8595	1374447.	2.4314	75499.	0.00
14.6000	-4.27E-06	-17.8753	11.3472	9.56E-06	182.0760	1374447.	1.6335	76547.	0.00
14.8000	-2.62E-06	-15.5732	11.6120	7.13E-06	158.6268	1374447.	1.0146	77596.	0.00
15.0000	-1.42E-06	-13.2305	11.7691	5.03E-06	134.7644	1374447.	0.5566	78644.	0.00
15.2000	-6.01E-07	-10.8655	11.8488	3.28E-06	110.6751	1374447.	0.2395	79693.	0.00
15.4000	-1.03E-07	-8.4910	12.6165	1.87E-06	86.4882	1374447.	7.4382	1.45E+07	0.00
15.6000	1.48E-07	-5.8189	13.2596	8.32E-07	59.2707	1374447.	-1.0073	1358277.	0.00
15.8000	2.30E-07	-3.1871	11.0629	1.77E-07	32.4637	1374447.	-20.9599	1.82E+07	0.00
16.0000	2.19E-07	-1.3937	7.2234	-1.56E-07	14.1964	1374447.	-17.4351	1.59E+07	0.00
16.2000	1.68E-07	-0.2978	4.1297	-2.79E-07	3.0329	1374447.	-13.5014	1.61E+07	0.00
16.4000	1.08E-07	0.2582	1.8618	-2.82E-07	2.6296	1374447.	-9.1779	1.71E+07	0.00
16.6000	5.49E-08	0.4470	0.4294	-2.31E-07	4.5528	1374447.	-5.1460	1.88E+07	0.00
16.8000	1.52E-08	0.4299	-0.2469	-1.67E-07	4.3792	1374447.	-1.6172	2.13E+07	0.00
17.0000	-1.19E-08	0.3482	-0.4005	-1.10E-07	3.5468	1374447.	0.08101	1358277.	0.00
17.2000	-2.89E-08	0.2697	-0.3728	-6.54E-08	2.7474	1374447.	0.1965	1358277.	0.00
17.4000	-3.81E-08	0.1991	-0.3273	-3.13E-08	2.0280	1374447.	0.2586	1358277.	0.00
17.6000	-4.14E-08	0.1388	-0.2732	-6.69E-09	1.4141	1374447.	0.2815	1358277.	0.00
17.8000	-4.08E-08	0.08981	-0.2174	9.94E-09	0.9148	1374447.	0.2768	1358277.	0.00
18.0000	-3.75E-08	0.05186	-0.1643	2.02E-08	0.5283	1374447.	0.2545	1358277.	0.00
18.2000	-3.27E-08	0.02409	-0.1167	2.58E-08	0.2454	1374447.	0.2218	1358277.	0.00
18.4000	-2.72E-08	0.00520	-0.07603	2.79E-08	0.05297	1374447.	0.1844	1358277.	0.00
18.6000	-2.15E-08	-0.00632	-0.04298	2.78E-08	0.06434	1374447.	0.1460	1358277.	0.00
18.8000	-1.60E-08	-0.01199	-0.01749	2.65E-08	0.1222	1374447.	0.1089	1358277.	0.00
19.0000	-1.09E-08	-0.01331	7.97E-04	2.47E-08	0.1356	1374447.	0.07405	1358277.	0.00
19.2000	-6.17E-09	-0.01167	0.01239	2.28E-08	0.1189	1374447.	0.04189	1358277.	0.00
19.4000	-1.77E-09	-0.00836	0.01778	2.14E-08	0.08513	1374447.	0.01203	1358277.	0.00
19.6000	2.38E-09	-0.00456	0.01737	2.04E-08	0.04645	1374447.	-0.01618	1358277.	0.00
19.8000	6.40E-09	-0.00141	0.01140	2.00E-08	0.01437	1374447.	-0.04349	1358277.	0.00

20.0000	1.04E-08	0.00	0.00	1.99E-08	0.00	1374447.	-0.07052	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 5:

Pile-head deflection = 0.01825722 meters
Computed slope at pile head = -0.00405676 radians
Maximum bending moment = 827.23183945 kN-m
Maximum shear force = 480.00000000 kN
Depth of maximum bending moment = 4.00000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 44
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 6

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 600.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.09568	9.54E-09	600.0000	-0.01494	9.71E-08	1374447.	0.00	0.00	0.00
0.2000	0.09269	120.0000	599.3524	-0.01493	1222.	1374447.	-6.4758	13.9725	0.00
0.4000	0.08971	239.7410	597.4758	-0.01490	2442.	1374447.	-12.2905	27.4005	0.00
0.6000	0.08673	358.9903	594.4322	-0.01486	3657.	1374447.	-18.1455	41.8423	0.00
0.8000	0.08377	477.5138	590.2290	-0.01480	4864.	1374447.	-23.8867	57.0321	0.00
1.0000	0.08081	595.0819	584.8962	-0.01472	6061.	1374447.	-29.4406	72.8611	0.00
1.2000	0.07788	711.4723	578.4741	-0.01463	7247.	1374447.	-34.7811	89.3229	0.00
1.4000	0.07496	826.4715	571.0049	-0.01451	8418.	1374447.	-39.9102	106.4806	0.00
1.6000	0.07207	939.8743	562.5294	-0.01439	9573.	1374447.	-44.8452	124.4462	0.00
1.8000	0.06921	1051.	552.8642	-0.01424	10710.	1374447.	-51.8063	149.7115	0.00
2.0000	0.06638	1161.	539.4065	-0.01408	11826.	1374447.	-82.7708	249.4026	0.00

2.2000	0.06358	1267.	521.1722	-0.01390	12908.	1374447.	-99.5727	313.2394	0.00
2.4000	0.06081	1369.	501.0339	-0.01371	13949.	1374447.	-101.8101	334.8251	0.00
2.6000	0.05809	1468.	480.4616	-0.01351	14949.	1374447.	-103.9125	357.7542	0.00
2.8000	0.05541	1562.	459.4826	-0.01328	15907.	1374447.	-105.8774	382.1466	0.00
3.0000	0.05278	1651.	438.1247	-0.01305	16822.	1374447.	-107.7024	408.1359	0.00
3.2000	0.05019	1737.	416.4159	-0.01280	17692.	1374447.	-109.3851	435.8705	0.00
3.4000	0.04766	1818.	394.3851	-0.01255	18518.	1374447.	-110.9232	465.5165	0.00
3.6000	0.04517	1895.	372.0613	-0.01228	19299.	1374447.	-112.3142	497.2593	0.00
3.8000	0.04275	1967.	349.4743	-0.01199	20034.	1374447.	-113.5557	531.3076	0.00
4.0000	0.04038	2034.	326.6542	-0.01170	20723.	1374447.	-114.6453	567.8960	0.00
4.2000	0.03806	2098.	303.6317	-0.01140	21365.	1374447.	-115.5805	607.2897	0.00
4.4000	0.03581	2156.	280.4377	-0.01109	21960.	1374447.	-116.3588	649.7892	0.00
4.6000	0.03363	2210.	257.1041	-0.01078	22508.	1374447.	-116.9776	695.7362	0.00
4.8000	0.03150	2259.	233.6629	-0.01045	23008.	1374447.	-117.4345	745.5208	0.00
5.0000	0.02945	2303.	210.1468	-0.01012	23460.	1374447.	-117.7266	799.5899	0.00
5.2000	0.02746	2343.	186.5890	-0.00978	23864.	1374447.	-117.8513	858.4582	0.00
5.4000	0.02553	2378.	163.0233	-0.00944	24220.	1374447.	-117.8058	922.7202	0.00
5.6000	0.02368	2408.	139.4840	-0.00909	24528.	1374447.	-117.5871	993.0666	0.00
5.8000	0.02190	2434.	116.0061	-0.00874	24788.	1374447.	-117.1920	1070.	0.00
6.0000	0.02019	2454.	92.6251	-0.00838	25001.	1374447.	-116.6174	1155.	0.00
6.2000	0.01855	2471.	69.3774	-0.00802	25166.	1374447.	-115.8598	1249.	0.00
6.4000	0.01698	2482.	46.2999	-0.00766	25283.	1374447.	-114.9155	1354.	0.00
6.6000	0.01548	2489.	23.4303	-0.00730	25354.	1374447.	-113.7805	1470.	0.00
6.8000	0.01406	2492.	0.8072	-0.00694	25379.	1374447.	-112.4506	1600.	0.00
7.0000	0.01271	2489.	-21.5300	-0.00658	25358.	1374447.	-110.9210	1746.	0.00
7.2000	0.01143	2483.	-43.5408	-0.00621	25291.	1374447.	-109.1866	1911.	0.00
7.4000	0.01022	2472.	-65.1836	-0.00585	25180.	1374447.	-107.2417	2099.	0.00
7.6000	0.00909	2457.	-86.4157	-0.00550	25025.	1374447.	-105.0797	2313.	0.00
7.8000	0.00802	2437.	-107.1930	-0.00514	24828.	1374447.	-102.6933	2560.	0.00
8.0000	0.00703	2414.	-127.4698	-0.00479	24589.	1374447.	-100.0741	2847.	0.00
8.2000	0.00611	2386.	-147.1984	-0.00444	24309.	1374447.	-97.2124	3183.	0.00
8.4000	0.00526	2355.	-166.3293	-0.00409	23989.	1374447.	-94.0965	3581.	0.00
8.6000	0.00447	2320.	-211.3608	-0.00375	23631.	1374447.	-356.2183	15934.	0.00
8.8000	0.00375	2271.	-280.7983	-0.00342	23128.	1374447.	-338.1573	18013.	0.00
9.0000	0.00310	2208.	-346.3661	-0.00309	22487.	1374447.	-317.5204	20459.	0.00
9.2000	0.00252	2132.	-407.5482	-0.00278	21717.	1374447.	-294.3008	23378.	0.00
9.4000	0.00199	2045.	-463.8239	-0.00247	20826.	1374447.	-268.4560	26932.	0.00
9.6000	0.00153	1946.	-514.6567	-0.00218	19827.	1374447.	-239.8718	31378.	0.00
9.8000	0.00112	1839.	-559.4731	-0.00191	18729.	1374447.	-208.2918	37166.	0.00
10.0000	7.66E-04	1723.	-597.6183	-0.00165	17547.	1374447.	-173.1608	45192.	0.00
10.2000	4.62E-04	1600.	-627.2860	-0.00141	16295.	1374447.	-123.5159	53478.	0.00
10.4000	2.04E-04	1472.	-645.2017	-0.00118	14992.	1374447.	-55.6413	54527.	0.00
10.6000	-1.09E-05	1342.	-650.4624	-9.77E-04	13666.	1374447.	3.0348	55575.	0.00
10.8000	-1.87E-04	1212.	-644.8678	-7.92E-04	12341.	1374447.	52.9109	56624.	0.00

11.0000	-3.28E-04	1084.	-630.1303	-6.25E-04	11038.	1374447.	94.4643	57673.	0.00
11.2000	-4.37E-04	959.5520	-607.8605	-4.76E-04	9774.	1374447.	128.2333	58721.	0.00
11.4000	-5.18E-04	840.5446	-579.5570	-3.45E-04	8562.	1374447.	154.8014	59770.	0.00
11.6000	-5.75E-04	727.7292	-546.5986	-2.31E-04	7413.	1374447.	174.7828	60818.	0.00
11.8000	-6.10E-04	621.9051	-510.2395	-1.33E-04	6335.	1374447.	188.8081	61867.	0.00
12.0000	-6.28E-04	523.6334	-471.6074	-4.94E-05	5334.	1374447.	197.5131	62916.	0.00
12.2000	-6.30E-04	433.2622	-431.7033	2.02E-05	4413.	1374447.	201.5279	63964.	0.00
12.4000	-6.20E-04	350.9521	-391.4038	7.73E-05	3575.	1374447.	201.4676	65013.	0.00
12.6000	-5.99E-04	276.7007	-351.4645	1.23E-04	2818.	1374447.	197.9252	66061.	0.00
12.8000	-5.71E-04	210.3663	-312.5255	1.58E-04	2143.	1374447.	191.4650	67110.	0.00
13.0000	-5.36E-04	151.6905	-275.1171	1.85E-04	1545.	1374447.	182.6184	68159.	0.00
13.2000	-4.97E-04	100.3194	-239.6673	2.03E-04	1022.	1374447.	171.8799	69207.	0.00
13.4000	-4.55E-04	55.8235	-206.5088	2.14E-04	568.6139	1374447.	159.7054	70256.	0.00
13.6000	-4.11E-04	17.7159	-175.8872	2.20E-04	180.4526	1374447.	146.5104	71304.	0.00
13.8000	-3.67E-04	-14.5313	-147.9691	2.20E-04	148.0150	1374447.	132.6707	72353.	0.00
14.0000	-3.23E-04	-41.4717	-122.8497	2.16E-04	422.4277	1374447.	118.5227	73402.	0.00
14.2000	-2.80E-04	-63.6712	-100.5610	2.08E-04	648.5499	1374447.	104.3647	74450.	0.00
14.4000	-2.40E-04	-81.6961	-81.0786	1.98E-04	832.1501	1374447.	90.4598	75499.	0.00
14.6000	-2.01E-04	-96.1027	-64.3288	1.85E-04	978.8936	1374447.	77.0377	76547.	0.00
14.8000	-1.66E-04	-107.4277	-50.1952	1.70E-04	1094.	1374447.	64.2986	77596.	0.00
15.0000	-1.33E-04	-116.1807	-38.5237	1.54E-04	1183.	1374447.	52.4161	78644.	0.00
15.2000	-1.04E-04	-122.8372	-29.1280	1.36E-04	1251.	1374447.	41.5408	79693.	0.00
15.4000	-7.88E-05	-127.8319	-12.5083	1.18E-04	1302.	1374447.	124.6565	316468.	0.00
15.6000	-5.70E-05	-127.8405	11.1491	9.95E-05	1302.	1374447.	111.9179	392500.	0.00
15.8000	-3.90E-05	-123.3723	32.1995	8.12E-05	1257.	1374447.	98.5858	505608.	0.00
16.0000	-2.46E-05	-114.9607	50.5058	6.38E-05	1171.	1374447.	84.4772	688033.	0.00
16.2000	-1.35E-05	-103.1700	65.8632	4.80E-05	1051.	1374447.	69.0971	1026626.	0.00
16.4000	-5.37E-06	-88.6154	77.8496	3.40E-05	902.6288	1374447.	50.7664	1891310.	0.00
16.6000	1.45E-07	-72.0301	82.8275	2.23E-05	733.6929	1374447.	-0.9868	1358277.	0.00
16.8000	3.56E-06	-55.4844	78.2681	1.31E-05	565.1591	1374447.	-44.6080	2504156.	0.00
17.0000	5.37E-06	-40.7229	68.7027	6.05E-06	414.8002	1374447.	-51.0454	1902763.	0.00
17.2000	5.98E-06	-28.0033	58.3077	1.05E-06	285.2390	1374447.	-52.9052	1768538.	0.00
17.4000	5.79E-06	-17.3998	47.7866	-2.25E-06	177.2334	1374447.	-52.3058	1808172.	0.00
17.6000	5.08E-06	-8.8887	37.5469	-4.17E-06	90.5391	1374447.	-50.0909	1971432.	0.00
17.8000	4.12E-06	-2.3811	27.8666	-4.99E-06	24.2537	1374447.	-46.7117	2268011.	0.00
18.0000	3.09E-06	2.2580	18.9504	-4.99E-06	22.9997	1374447.	-42.4500	2749902.	0.00
18.2000	2.12E-06	5.1991	10.9558	-4.45E-06	52.9574	1374447.	-37.4966	3535244.	0.00
18.4000	1.31E-06	6.6403	4.0084	-3.59E-06	67.6375	1374447.	-31.9773	4895013.	0.00
18.6000	6.85E-07	6.8024	-1.7827	-2.61E-06	69.2890	1374447.	-25.9337	7571854.	0.00
18.8000	2.61E-07	5.9272	-6.2916	-1.69E-06	60.3741	1374447.	-19.1549	1.47E+07	0.00
19.0000	1.04E-08	4.2858	-8.2141	-9.43E-07	43.6548	1374447.	-0.07053	1358277.	0.00
19.2000	-1.16E-07	2.6416	-8.1424	-4.39E-07	26.9068	1374447.	0.7874	1358277.	0.00
19.4000	-1.65E-07	1.0288	-6.3203	-1.72E-07	10.4796	1374447.	17.4337	2.11E+07	0.00
19.6000	-1.85E-07	0.1134	-2.4986	-8.93E-08	1.1555	1374447.	20.7837	2.25E+07	0.00

19.8000	-2.01E-07	0.02940	-0.2836	-7.89E-08	0.2995	1374447.	1.3659	1358277.	0.00
20.0000	-2.16E-07	0.00	0.00	-7.68E-08	0.00	1374447.	1.4702	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 6:

Pile-head deflection = 0.09568190 meters
Computed slope at pile head = -0.01493865 radians
Maximum bending moment = 2492. kN-m
Maximum shear force = -650.46235979 kN
Depth of maximum bending moment = 6.80000000 meters below pile head
Depth of maximum shear force = 10.60000000 meters below pile head
Number of iterations = 42
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 7

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 2800.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.9615	1.18E-07	2800.	-0.1220	1.20E-06	1374447.	0.00	0.00	0.00
0.2000	0.9371	560.0000	2799.	-0.1220	5704.	1374447.	-6.4758	1.3821	0.00
0.4000	0.9127	1120.	2797.	-0.1219	11406.	1374447.	-12.2905	2.6932	0.00
0.6000	0.8883	1679.	2794.	-0.1217	17102.	1374447.	-18.1454	4.0853	0.00
0.8000	0.8640	2238.	2790.	-0.1214	22791.	1374447.	-23.8867	5.5292	0.00
1.0000	0.8398	2795.	2785.	-0.1210	28470.	1374447.	-29.4406	7.0115	0.00
1.2000	0.8156	3351.	2778.	-0.1206	34138.	1374447.	-34.7811	8.5288	0.00
1.4000	0.7915	3906.	2771.	-0.1200	39791.	1374447.	-39.9101	10.0841	0.00
1.6000	0.7676	4460.	2763.	-0.1194	45428.	1374447.	-44.8451	11.6846	0.00
1.8000	0.7438	5011.	2753.	-0.1188	51047.	1374447.	-49.6106	13.3403	0.00

2.0000	0.7201	5561.	2743.	-0.1180	56645.	1374447.	-54.2334	15.0628	0.00
2.2000	0.6966	6109.	2721.	-0.1171	62221.	1374447.	-167.0125	47.9521	0.00
2.4000	0.6732	6649.	2687.	-0.1162	67730.	1374447.	-173.3125	51.4859	0.00
2.6000	0.6501	7183.	2651.	-0.1152	73167.	1374447.	-179.6125	55.2569	0.00
2.8000	0.6272	7710.	2615.	-0.1141	78532.	1374447.	-185.9125	59.2867	0.00
3.0000	0.6045	8229.	2577.	-0.1130	83821.	1374447.	-192.2125	63.5987	0.00
3.2000	0.5820	8741.	2538.	-0.1117	89031.	1374447.	-198.5125	68.2194	0.00
3.4000	0.5598	9244.	2497.	-0.1104	94160.	1374447.	-204.8125	73.1779	0.00
3.6000	0.5378	9740.	2456.	-0.1090	99207.	1374447.	-211.1125	78.5070	0.00
3.8000	0.5162	10227.	2413.	-0.1076	104167.	1374447.	-217.4125	84.2432	0.00
4.0000	0.4948	10705.	2369.	-0.1061	109038.	1374447.	-223.7125	90.4277	0.00
4.2000	0.4737	11174.	2324.	-0.1045	113819.	1374447.	-230.0125	97.1065	0.00
4.4000	0.4530	11634.	2277.	-0.1028	118505.	1374447.	-236.3125	104.3316	0.00
4.6000	0.4326	12085.	2229.	-0.1011	123096.	1374447.	-242.6125	112.1618	0.00
4.8000	0.4126	12526.	2180.	-0.09929	127587.	1374447.	-248.9125	120.6638	0.00
5.0000	0.3929	12957.	2129.	-0.09743	131977.	1374447.	-255.2125	129.9132	0.00
5.2000	0.3736	13378.	2078.	-0.09552	136263.	1374447.	-261.5125	139.9964	0.00
5.4000	0.3547	13788.	2025.	-0.09354	140443.	1374447.	-267.8125	151.0120	0.00
5.6000	0.3362	14188.	1971.	-0.09150	144513.	1374447.	-274.1126	163.0734	0.00
5.8000	0.3181	14576.	1915.	-0.08941	148472.	1374447.	-280.4126	176.3110	0.00
6.0000	0.3004	14954.	1858.	-0.08726	152316.	1374447.	-286.7126	190.8755	0.00
6.2000	0.2832	15320.	1801.	-0.08506	156044.	1374447.	-287.4319	203.0006	0.00
6.4000	0.2664	15674.	1744.	-0.08281	159655.	1374447.	-287.6908	215.9889	0.00
6.6000	0.2501	16017.	1686.	-0.08050	163148.	1374447.	-287.6158	230.0365	0.00
6.8000	0.2342	16348.	1629.	-0.07815	166524.	1374447.	-287.2000	245.2666	0.00
7.0000	0.2188	16668.	1571.	-0.07574	169783.	1374447.	-286.4362	261.8212	0.00
7.2000	0.2039	16977.	1514.	-0.07330	172926.	1374447.	-285.3172	279.8642	0.00
7.4000	0.1895	17274.	1457.	-0.07080	175952.	1374447.	-283.8353	299.5862	0.00
7.6000	0.1756	17560.	1401.	-0.06827	178863.	1374447.	-281.9828	321.2095	0.00
7.8000	0.1622	17834.	1344.	-0.06569	181658.	1374447.	-279.7516	344.9945	0.00
8.0000	0.1493	18098.	1289.	-0.06308	184340.	1374447.	-277.1335	371.2482	0.00
8.2000	0.1369	18350.	1234.	-0.06043	186909.	1374447.	-274.1202	400.3341	0.00
8.4000	0.1251	18591.	1179.	-0.05774	189366.	1374447.	-270.7033	432.6849	0.00
8.6000	0.1138	18821.	1012.	-0.05502	191713.	1374447.	-1395.	2451.	0.00
8.8000	0.1031	18996.	725.6333	-0.05227	193491.	1374447.	-1473.	2857.	0.00
9.0000	0.09294	19112.	423.0735	-0.04949	194669.	1374447.	-1553.	3341.	0.00
9.2000	0.08332	19165.	104.3645	-0.04671	195215.	1374447.	-1634.	3923.	0.00
9.4000	0.07426	19153.	-230.9050	-0.04392	195094.	1374447.	-1718.	4628.	0.00
9.6000	0.06575	19073.	-583.1459	-0.04114	194274.	1374447.	-1804.	5488.	0.00
9.8000	0.05780	18920.	-952.7693	-0.03838	192719.	1374447.	-1892.	6547.	0.00
10.0000	0.05040	18692.	-1340.	-0.03564	190392.	1374447.	-1982.	7865.	0.00
10.2000	0.04355	18384.	-1746.	-0.03294	187258.	1374447.	-2074.	9526.	0.00
10.4000	0.03723	17993.	-2169.	-0.03029	183279.	1374447.	-2156.	11583.	0.00
10.6000	0.03143	17516.	-2582.	-0.02771	178422.	1374447.	-1980.	12596.	0.00

10.8000	0.02614	16960.	-2961.	-0.02520	172758.	1374447.	-1806.	13820.	0.00
11.0000	0.02135	16332.	-3305.	-0.02278	166357.	1374447.	-1638.	15349.	0.00
11.2000	0.01703	15638.	-3617.	-0.02045	159290.	1374447.	-1477.	17344.	0.00
11.4000	0.01317	14885.	-3896.	-0.01823	151621.	1374447.	-1314.	19963.	0.00
11.6000	0.00974	14080.	-4141.	-0.01613	143416.	1374447.	-1138.	23366.	0.00
11.8000	0.00672	13229.	-4349.	-0.01414	134747.	1374447.	-943.1717	28084.	0.00
12.0000	0.00408	12340.	-4516.	-0.01228	125695.	1374447.	-723.4029	35449.	0.00
12.2000	0.00181	11422.	-4634.	-0.01055	116348.	1374447.	-457.0786	50643.	0.00
12.4000	-1.39E-04	10486.	-4675.	-0.00896	106814.	1374447.	45.1051	65013.	0.00
12.6000	-0.00178	9552.	-4622.	-0.00750	97299.	1374447.	486.5168	54744.	0.00
12.8000	-0.00314	8638.	-4502.	-0.00617	87982.	1374447.	711.8318	45367.	0.00
13.0000	-0.00425	7751.	-4343.	-0.00498	78955.	1374447.	885.5617	41699.	0.00
13.2000	-0.00513	6901.	-4151.	-0.00392	70289.	1374447.	1028.	40051.	0.00
13.4000	-0.00581	6091.	-3934.	-0.00297	62041.	1374447.	1146.	39424.	0.00
13.6000	-0.00632	5327.	-3695.	-0.00214	54261.	1374447.	1246.	39422.	0.00
13.8000	-0.00667	4613.	-3437.	-0.00142	46988.	1374447.	1329.	39856.	0.00
14.0000	-0.00689	3952.	-3164.	-7.94E-04	40256.	1374447.	1399.	40625.	0.00
14.2000	-0.00699	3347.	-2879.	-2.63E-04	34095.	1374447.	1456.	41669.	0.00
14.4000	-0.00699	2801.	-2583.	1.84E-04	28526.	1374447.	1502.	42956.	0.00
14.6000	-0.00691	2314.	-2279.	5.56E-04	23570.	1374447.	1537.	44466.	0.00
14.8000	-0.00677	1889.	-1969.	8.62E-04	19240.	1374447.	1563.	46189.	0.00
15.0000	-0.00657	1526.	-1655.	0.00111	15546.	1374447.	1581.	48123.	0.00
15.2000	-0.00632	1227.	-1338.	0.00131	12497.	1374447.	1590.	50273.	0.00
15.4000	-0.00604	991.1596	-1126.	0.00147	10096.	1374447.	529.8246	17529.	0.00
15.6000	-0.00574	776.5941	-1021.	0.00160	7910.	1374447.	520.6423	18153.	0.00
15.8000	-0.00540	582.8544	-917.6574	0.00170	5937.	1374447.	510.4138	18888.	0.00
16.0000	-0.00506	409.5312	-816.6960	0.00177	4171.	1374447.	499.2004	19746.	0.00
16.2000	-0.00470	256.1760	-718.0712	0.00182	2609.	1374447.	487.0475	20744.	0.00
16.4000	-0.00433	122.3027	-621.9681	0.00185	1246.	1374447.	473.9838	21903.	0.00
16.6000	-0.00396	7.3887	-528.5678	0.00186	75.2609	1374447.	460.0195	23253.	0.00
16.8000	-0.00359	-89.1244	-438.0516	0.00185	907.8141	1374447.	445.1427	24834.	0.00
17.0000	-0.00322	-167.8319	-350.6059	0.00183	1710.	1374447.	429.3144	26699.	0.00
17.2000	-0.00285	-229.3668	-266.4285	0.00180	2336.	1374447.	412.4596	28925.	0.00
17.4000	-0.00249	-274.4033	-185.7371	0.00177	2795.	1374447.	394.4539	31626.	0.00
17.6000	-0.00215	-303.6616	-108.7816	0.00173	3093.	1374447.	375.1007	34974.	0.00
17.8000	-0.00180	-317.9160	-35.8623	0.00168	3238.	1374447.	354.0923	39248.	0.00
18.0000	-0.00147	-318.0066	32.6406	0.00163	3239.	1374447.	330.9368	44932.	0.00
18.2000	-0.00115	-304.8597	96.2150	0.00159	3105.	1374447.	304.8076	52967.	0.00
18.4000	-8.38E-04	-279.5206	154.1142	0.00155	2847.	1374447.	274.1840	65461.	0.00
18.6000	-5.33E-04	-243.2141	205.1095	0.00151	2477.	1374447.	235.7694	88535.	0.00
18.8000	-2.35E-04	-197.4768	246.6259	0.00148	2011.	1374447.	179.3949	152950.	0.00
19.0000	5.77E-05	-144.5637	253.3319	0.00145	1473.	1374447.	-112.3356	389419.	0.00
19.2000	3.46E-04	-96.1440	221.6860	0.00143	979.3150	1374447.	-204.1232	118072.	0.00
19.4000	6.31E-04	-55.8893	176.3278	0.00142	569.2837	1374447.	-249.4584	79064.	0.00

19.6000	9.15E-04	-25.6129	123.1499	0.00142	260.8908	1374447.	-282.3204	61731.	0.00
19.8000	0.00120	-6.6293	64.0322	0.00141	67.5257	1374447.	-308.8565	51581.	0.00
20.0000	0.00148	0.00	0.00	0.00141	0.00	1374447.	-331.4660	22392.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 7:

Pile-head deflection = 0.96149414 meters
Computed slope at pile head = -0.12204083 radians
Maximum bending moment = 19165. kN-m
Maximum shear force = -4675. kN
Depth of maximum bending moment = 9.20000000 meters below pile head
Depth of maximum shear force = 12.40000000 meters below pile head
Number of iterations = 32
Number of zero deflection points = 2

Summary of Pile-head Responses for Conventional Analyses

Definitions of Pile-head Loading Conditions:

Load Type 1: Load 1 = Shear, V, kN, and Load 2 = Moment, M, kN-m
Load Type 2: Load 1 = Shear, V, kN, and Load 2 = Slope, S, radians
Load Type 3: Load 1 = Shear, V, kN, and Load 2 = Rot. Stiffness, R, kN-m/rad.
Load Type 4: Load 1 = Top Deflection, y, m, and Load 2 = Moment, M, kN-m
Load Type 5: Load 1 = Top Deflection, y, m, and Load 2 = Slope, S, radians

Load Case No.	Load Type	Pile-head Load 1	Load Type 2	Pile-head Load 2	Axial Loading kN	Pile-head Deflection meters	Pile-head Rotation radians	Max Shear in Pile kN	Max Moment in Pile kN-m
1	V, kN	100.0000	M, kN-m	0.00	0.00	8.70E-04	-3.27E-04	100.0000	118.1992
2	V, kN	200.0000	M, kN-m	0.00	0.00	0.00260	-8.30E-04	200.0000	245.5595
3	V, kN	300.0000	M, kN-m	0.00	0.00	0.00535	-0.00152	300.0000	394.2399
4	V, kN	400.0000	M, kN-m	0.00	0.00	0.01014	-0.00256	400.0000	585.5550
5	V, kN	480.0000	M, kN-m	0.00	0.00	0.01826	-0.00406	480.0000	827.2318
6	V, kN	600.0000	M, kN-m	0.00	0.00	0.09568	-0.01494	-650.4624	2492.
7	V, kN	2800.	M, kN-m	0.00	0.00	0.9615	-0.1220	-4675.	19165.

Maximum pile-head deflection = 0.9614941431 meters
Maximum pile-head rotation = -0.1220408343 radians = -6.992425 deg.

Summary of Warning Messages

The following warning was reported 736 times

**** Warning ****

An unreasonable input value for shear strength has been specified for a soil defined using the soft clay criteria. The input value is greater than 59.85 kPa. Please check your input data for correctness.

The analysis ended normally.

Opera IV01 (Sp. B) – D1200

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LPile for Windows, Version 2016-09.009

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method
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Files Used for Analysis

Path to file locations:
\m9159\Work\07_Pali\IV01\LPILE\

Name of input data file:
IV01_SpB_D1200.lp9d

Name of output report file:
IV01_SpB_D1200.lp9o

Name of plot output file:
IV01_SpB_D1200.lp9p

Name of runtime message file:
IV01_SpB_D1200.lp9r

Date and Time of Analysis

Date: June 10, 2019 Time: 15:31:39

Problem Title

Project Name: VI02 - Spalle e pila
Job Number:
Client:
Engineer:
Description:

Program Options and Settings

Computational Options:
- Use unfactored loads in computations (conventional analysis)

Engineering Units Used for Data Input and Computations:
- International System Units (kilonewtons, meters, millimeters)

Analysis Control Options:
- Maximum number of iterations allowed = 500
- Deflection tolerance for convergence = 2.5400E-07 m
- Maximum allowable deflection = 2.5400 m
- Number of pile increments = 100

Loading Type and Number of Cycles of Loading:
- Static loading specified

- Use of p-y modification factors for p-y curves not selected
- No distributed lateral loads are entered
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected

- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:
- Output files use decimal points to denote decimal symbols.
- Values of pile-head deflection, bending moment, shear force, and soil reaction are printed for full length of pile.
- Printing Increment (nodal spacing of output points) = 1
- p-y curves computed and reported at user-specified depths
- Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined = 1
Total length of pile = 20.000 m
Depth of ground surface below top of pile = 0.0000 m

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point	Depth Below Pile Head meters	Pile Diameter millimeters
1	0.000	1200.00
2	20.000	1200.00

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is an elastic pile
Cross-sectional Shape = Circular Pile
Length of section = 20.000000 m

Width of top of section = 1.200000 m
Width of bottom of section = 1.200000 m
Top Area = 1.130973 sq. m
Bottom Area = 1.130973 sq. m
Moment of Inertia at Top = 0.101788 m^4
Moment of Inertia at Bottom = 0.101788 m^4
Elastic Modulus = 28000000. kPa

Ground Slope and Pile Batter Angles

Ground Slope Angle = 0.000 degrees
= 0.000 radians

Pile Batter Angle = 0.000 degrees
= 0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 4 layers

Layer 1 is stiff clay with water-induced erosion

Distance from top of pile to top of layer = 0.0000 m
Distance from top of pile to bottom of layer = 2.100000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 80.000000 kPa
Undrained cohesion at bottom of layer = 80.000000 kPa
Epsilon-50 at top of layer = 0.007000
Epsilon-50 at bottom of layer = 0.007000
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 2 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 2.100000 m
Distance from top of pile to bottom of layer = 8.500000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 45.000000 kPa
Undrained cohesion at bottom of layer = 45.000000 kPa
Epsilon-50 at top of layer = 0.015000
Epsilon-50 at bottom of layer = 0.015000

Layer 3 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer = 8.500000 m
Distance from top of pile to bottom of layer = 15.400000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Friction angle at top of layer = 36.000000 deg.
Friction angle at bottom of layer = 36.000000 deg.
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 4 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 15.400000 m
Distance from top of pile to bottom of layer = 20.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 150.000000 kPa
Undrained cohesion at bottom of layer = 150.000000 kPa
Epsilon-50 at top of layer = 0.005000
Epsilon-50 at bottom of layer = 0.005000

(Depth of the lowest soil layer extends 0.000 m below the pile tip)

Summary of Input Soil Properties

Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth m	Effective Unit Wt. kN/m3	Undrained Cohesion kPa	Angle of Friction deg.	E50 or krm	kpy kN/m3
1	Stiff Clay	0.00	9.0000	80.0000	--	0.00700	default
	with Free Water	2.1000	9.0000	80.0000	--	0.00700	default
2	Soft	2.1000	9.0000	45.0000	--	0.01500	--
	Clay	8.5000	9.0000	45.0000	--	0.01500	--
3	Sand	8.5000	9.0000	--	36.0000	--	default
	(Reese, et al.)	15.4000	9.0000	--	36.0000	--	default
4	Soft	15.4000	9.0000	150.0000	--	0.00500	--
	Clay	20.0000	9.0000	150.0000	--	0.00500	--

Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 6

Load No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, kN	Compute Top y vs. Pile Length
1	1	V = 100.000000 kN	M = 0.0000 m-kN	0.0000000	No
2	1	V = 300.000000 kN	M = 0.0000 m-kN	0.0000000	No
3	1	V = 500.000000 kN	M = 0.0000 m-kN	0.0000000	No
4	1	V = 750.000000 kN	M = 0.0000 m-kN	0.0000000	No
5	1	V = 1000.000000 kN	M = 0.0000 m-kN	0.0000000	No
6	1	V = 4200. kN	M = 0.0000 m-kN	0.0000000	No

V = shear force applied normal to pile axis

M = bending moment applied to pile head

y = lateral deflection normal to pile axis

S = pile slope relative to original pile batter angle

R = rotational stiffness applied to pile head

Values of top y vs. pile lengths can be computed only for load types with

specified shear loading (Load Types 1, 2, and 3).

Thrust force is assumed to be acting axially for all pile batter angles.

Specified Depths for Output of p-y Curves

Lateral load-transfer (p-y) curves are computed and output at 8 depths.
(Note that load-transfer values are computeded at the specified depths and
may differ from values computed at nodal points)

Depth No.	Depth Below Pile Head m	Depth Below Ground Surface m
1	0.200	0.200
2	1.900	1.900
3	2.300	2.300
4	8.300	8.300
5	8.700	8.700
6	15.200	15.200
7	15.600	15.600
8	19.800	19.800

Depth of ground surface below top of pile = 0.0000 m

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

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Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Moment-curvature properties were derived from elastic section properties

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Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head meters	Equivalent Top Depth Below Grnd Surf meters	Same Layer Type As Layer Above	Layer is Rock or is Below Rock Layer	F0 Integral for Layer kN	F1 Integral for Layer kN
1	0.00	0.00	N.A.	No	0.00	64.3936
2	2.1000	0.3825	No	No	64.3936	1920.
3	8.5000	5.0750	No	No	1985.	21574.
4	15.4000	15.4000	No	No	23559.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals for Layer n. Layering correction equivalent depths are computed only for soil types with both shallow-depth and deep-depth expressions for peak lateral load transfer. These soil types are soft and stiff clays, non-liquefied sands, and cemented c-phi soil.

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p-y Curves Reported for Specified Depths

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p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 0.200 m
Depth of p-y curve below ground surface = 0.200 m
Equivalent depth of p-y curve = 0.200 m
Pile diameter = 1200.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees

k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.008 m
As = 0.28166
Ac (not used) = 0.22353
pct = 239.440 kN/m
pcd = 1056.000 kN/m
pc = 239.440 kN/m
pu = 6.644 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00118	32.11161
0.00237	63.53756
0.00355	72.28033
0.00473	76.68647
0.00591	78.60052
0.00710	78.72846
0.00828	77.46940
0.00946	75.08018
0.01065	71.73941
0.01183	67.57805
0.01301	62.69601
0.01420	57.17185
0.02366	40.36449
0.03312	23.50423
0.04259	6.64397
0.04495	6.64397

p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 1.900 m
Depth of p-y curve below ground surface = 1.900 m
Equivalent depth of p-y curve = 1.900 m
Pile diameter = 1200.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa

Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.008 m
As = 0.53328
Ac (not used) = 0.30000
pct = 642.680 kN/m
pcd = 1056.000 kN/m
pc = 642.680 kN/m
pu = 53.614 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00224	165.93146
0.00448	234.66253
0.00672	272.53997
0.00896	296.51553
0.01120	312.35654
0.01344	322.37666
0.01568	327.89588
0.01792	329.76567
0.02016	328.57796
0.02240	324.76627
0.02464	318.66063
0.02688	310.51999
0.04480	224.97936
0.06271	139.29675
0.08063	53.61413
0.08511	53.61413

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2

Depth of top of Layer 2 below pile head = 2.100 m
Depth of p-y curve below pile head = 2.300 m
Depth of p-y curve below ground surface = 2.300 m
Equiv. depth of p-y curve below ground surface = 0.582 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1200.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 9.730 m
Static pu_s for flat ground = 199.945 kN/m
Static pu_d for flat ground = 486.000 kN/m
y_50 = 0.04500 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 199.945 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00010667	13.32968
0.00085333	26.65937
0.00288	39.98905
0.00683	53.31873
0.01333	66.64842
0.02304	79.97810
0.03659	93.30778
0.05461	106.63747
0.07776	119.96715
0.10667	133.29684
0.14197	146.62652
0.18432	159.95620
0.23435	173.28589
0.29269	186.61557
0.36000	199.94525
0.38250	199.94525

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 2.100 m
Depth of p-y curve below pile head = 8.300 m
Depth of p-y curve below ground surface = 8.300 m
Equiv. depth of p-y curve below ground surface = 6.582 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1200.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 9.730 m
Static pu_s for flat ground = 399.745 kN/m
Static pu_d for flat ground = 486.000 kN/m
y_50 = 0.04500 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 399.745 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00010667	26.64968
0.00085333	53.29937
0.00288	79.94905
0.00683	106.59873
0.01333	133.24842
0.02304	159.89810
0.03659	186.54778
0.05461	213.19747
0.07776	239.84715
0.10667	266.49684
0.14197	293.14652
0.18432	319.79620
0.23435	346.44589
0.29269	373.09557
0.36000	399.74525

0.38250 399.74525

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 8.500 m
Depth of p-y curve below pile head = 8.700 m
Depth of p-y curve below ground surface = 8.700 m
Equiv. depth of p-y curve below ground surface = 5.275 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 1200.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3
K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 1677.302 kN/m
Psd = 5750.414 kN/m
Ps = Pst (shallow controls) = 1677.302 kN/m
A (static) = 0.8921
B (static) = 0.5181
C = Pm/(Ym^(1/n)) = 8318.3055
n = Pm/(m Ym) = 1.7319
m = (Pu-Pm)/(Yu-Ym) = 25089.6395
Yk = [c/(kx)]^(n/(n-1)) = 0.0004 m
Pk = 90.205 kN/m
Ym = b/60 = 0.0200 m
Pm = B ps = 869.053 kN/m
Yu = 3b/80 = 0.0450 m
Pu = A Ps = 1496.294 kN/m
Maximum Es value = 228069.029 kN/m/m
p-multiplier = 1.00000
y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters	p, kN/m
0.00000	0.00000
0.00039552	90.20496
0.00218	241.54290
0.00396	341.14348
0.00574	422.78716
0.00752	494.20371
0.00931	558.74269
0.01109	618.22816
0.01287	673.78757
0.01465	726.17719
0.01644	775.93437
0.01822	823.45767
0.02000	869.05265
0.03250	1182.67314
0.04500	1496.29364
0.05400	1496.29364
0.06300	1496.29364

The above p-y curve was computed using internal default values of k.

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 8.500 m
Depth of p-y curve below pile head = 15.200 m
Depth of p-y curve below ground surface = 15.200 m
Equiv. depth of p-y curve below ground surface = 11.775 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 1200.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3
K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 5814.813 kN/m
Psd = 10046.700 kN/m

Ps = Pst (shallow controls) = 5814.813 kN/m
A (static) = 0.8800
B (static) = 0.5000
C = Pm/(Ym^(1/n)) = 31367.4727
n = Pm/(m Ym) = 1.6447
m = (Pu-Pm)/(Yu-Ym) = 88385.1594
Yk = [c/(kx)]^(n/(n-1)) = 0.0015 m
Pk = 608.542 kN/m
Ym = b/60 = 0.0200 m
Pm = B ps = 2907.407 kN/m
Yu = 3b/80 = 0.0450 m
Pu = A Ps = 5117.036 kN/m
Maximum Es value = 398465.430 kN/m/m
p-multiplier = 1.00000
y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters	p, kN/m
0.00000	0.00000
0.00153	608.54241
0.00321	955.32556
0.00489	1234.12175
0.00657	1476.95816
0.00824	1696.33008
0.00992	1898.73064
0.01160	2088.06796
0.01328	2266.91961
0.01496	2437.09617
0.01664	2599.92945
0.01832	2756.43444
0.02000	2907.40656
0.03250	4012.22105
0.04500	5117.03554
0.05400	5117.03554
0.06300	5117.03554

The above p-y curve was computed using internal default values of k.

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 4
Depth of top of Layer 4 below pile head = 15.400 m
Depth of p-y curve below pile head = 15.600 m
Depth of p-y curve below ground surface = 15.600 m
Equiv. depth of p-y curve below ground surface = 15.600 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1200.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 150.000 kPa
Epsilon_50 = 0.0050
J (default value) = 0.5000
Transition depth Xr = 12.587 m
Static pu_s for flat ground = 1878.480 kN/m
Static pu_d for flat ground = 1620.000 kN/m
y_50 = 0.01500 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 1620.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00003556	108.00000
0.00028444	216.00000
0.00096000	324.00000
0.00228	432.00000
0.00444	540.00000
0.00768	648.00000
0.01220	756.00000
0.01820	864.00000
0.02592	972.00000
0.03556	1080.00000
0.04732	1188.00000
0.06144	1296.00000

0.07812	1404.00000
0.09756	1512.00000
0.12000	1620.00000
0.12750	1620.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 4
Depth of top of Layer 4 below pile head = 15.400 m
Depth of p-y curve below pile head = 19.800 m
Depth of p-y curve below ground surface = 19.800 m
Equiv. depth of p-y curve below ground surface = 19.800 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1200.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 150.000 kPa
Epsilon_50 = 0.0050
J (default value) = 0.5000
Transition depth Xr = 12.587 m
Static pu_s for flat ground = 2238.840 kN/m
Static pu_d for flat ground = 1620.000 kN/m
y_50 = 0.01500 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 1620.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00003556	108.00000
0.00028444	216.00000
0.00096000	324.00000
0.00228	432.00000
0.00444	540.00000
0.00768	648.00000
0.01220	756.00000
0.01820	864.00000
0.02592	972.00000

0.03556	1080.00000
0.04732	1188.00000
0.06144	1296.00000
0.07812	1404.00000
0.09756	1512.00000
0.12000	1620.00000
0.12750	1620.00000

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 1

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 100.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	6.54E-04	1.08E-10	100.0000	-2.10E-04	6.38E-10	2850053.	0.00	0.00	0.00
0.2000	6.12E-04	20.0000	98.3400	-2.10E-04	117.8926	2850053.	-16.5996	5429.	0.00
0.4000	5.70E-04	39.3360	93.5869	-2.07E-04	231.8712	2850053.	-30.9318	10858.	0.00
0.6000	5.29E-04	57.4348	86.2998	-2.04E-04	338.5565	2850053.	-41.9397	15870.	0.00
0.8000	4.88E-04	73.8559	77.5033	-1.99E-04	435.3531	2850053.	-46.0247	18857.	0.00
1.0000	4.49E-04	88.4361	67.9394	-1.94E-04	521.2978	2850053.	-49.6145	22111.	0.00
1.2000	4.11E-04	101.0317	57.7073	-1.87E-04	595.5441	2850053.	-52.7070	25670.	0.00
1.4000	3.74E-04	111.5190	46.9062	-1.80E-04	657.3629	2850053.	-55.3032	29579.	0.00
1.6000	3.39E-04	119.7942	35.6353	-1.72E-04	706.1420	2850053.	-57.4067	33889.	0.00
1.8000	3.05E-04	125.7731	23.9922	-1.63E-04	741.3855	2850053.	-59.0234	38662.	0.00
2.0000	2.74E-04	129.3911	12.0738	-1.54E-04	762.7121	2850053.	-60.1604	43972.	0.00
2.2000	2.44E-04	130.6026	4.3304	-1.45E-04	769.8538	2850053.	-17.2745	14174.	0.00
2.4000	2.16E-04	131.1232	0.8881	-1.36E-04	772.9225	2850053.	-17.1476	15900.	0.00
2.6000	1.89E-04	130.9579	-2.5228	-1.26E-04	771.9479	2850053.	-16.9623	17903.	0.00
2.8000	1.65E-04	130.1141	-5.8908	-1.17E-04	766.9740	2850053.	-16.7170	20249.	0.00
3.0000	1.43E-04	128.6016	-9.2035	-1.08E-04	758.0584	2850053.	-16.4100	23020.	0.00
3.2000	1.22E-04	126.4327	-12.4484	-9.93E-05	745.2736	2850053.	-16.0389	26329.	0.00

3.4000	1.03E-04	123.6222	-15.6124	-9.05E-05	728.7070	2850053.	-15.6011	30332.	0.00
3.6000	8.56E-05	120.1877	-18.6817	-8.19E-05	708.4619	2850053.	-15.0927	35248.	0.00
3.8000	7.01E-05	116.1495	-21.6419	-7.36E-05	684.6582	2850053.	-14.5086	41398.	0.00
4.0000	5.62E-05	111.5310	-24.4769	-6.57E-05	657.4336	2850053.	-13.8414	49275.	0.00
4.2000	4.38E-05	106.3588	-27.1690	-5.80E-05	626.9454	2850053.	-13.0799	59681.	0.00
4.4000	3.30E-05	100.6634	-29.6977	-5.07E-05	593.3731	2850053.	-12.2066	74030.	0.00
4.6000	2.35E-05	94.4797	-32.0374	-4.39E-05	556.9227	2850053.	-11.1911	95102.	0.00
4.8000	1.54E-05	87.8484	-34.1541	-3.75E-05	517.8336	2850053.	-9.9754	129398.	0.00
5.0000	8.53E-06	80.8181	-35.9942	-3.16E-05	476.3925	2850053.	-8.4257	197447.	0.00
5.2000	2.79E-06	73.4507	-37.4444	-2.62E-05	432.9647	2850053.	-6.0760	436290.	0.00
5.4000	-1.93E-06	65.8403	-37.5449	-2.13E-05	388.1043	2850053.	5.0704	524571.	0.00
5.6000	-5.73E-06	58.4328	-36.2703	-1.69E-05	344.4394	2850053.	7.6753	268014.	0.00
5.8000	-8.70E-06	51.3322	-34.5964	-1.31E-05	302.5842	2850053.	9.0641	208326.	0.00
6.0000	-1.10E-05	44.5942	-32.6883	-9.70E-06	262.8662	2850053.	10.0168	182860.	0.00
6.2000	-1.26E-05	38.2569	-30.6146	-6.80E-06	225.5101	2850053.	10.7201	170380.	0.00
6.4000	-1.37E-05	32.3484	-28.4173	-4.32E-06	190.6815	2850053.	11.2528	164577.	0.00
6.6000	-1.43E-05	26.8900	-26.1263	-2.24E-06	158.5063	2850053.	11.6573	162903.	0.00
6.8000	-1.46E-05	21.8978	-23.7646	-5.30E-07	129.0796	2850053.	11.9595	164148.	0.00
7.0000	-1.45E-05	17.3841	-21.3510	8.48E-07	102.4728	2850053.	12.1774	167687.	0.00
7.2000	-1.42E-05	13.3575	-18.9008	1.93E-06	78.7372	2850053.	12.3240	173184.	0.00
7.4000	-1.38E-05	9.8238	-16.4274	2.74E-06	57.9075	2850053.	12.4098	180464.	0.00
7.6000	-1.31E-05	6.7865	-13.9421	3.32E-06	40.0038	2850053.	12.4432	189450.	0.00
7.8000	-1.24E-05	4.2469	-11.4546	3.71E-06	25.0340	2850053.	12.4318	200126.	0.00
8.0000	-1.17E-05	2.2046	-8.9733	3.94E-06	12.9954	2850053.	12.3818	212524.	0.00
8.2000	-1.08E-05	0.6576	-6.5053	4.04E-06	3.8763	2850053.	12.2985	226714.	0.00
8.4000	-1.00E-05	-0.3975	-4.0568	4.05E-06	2.3430	2850053.	12.1862	242819.	0.00
8.6000	-9.23E-06	-0.9651	-2.6301	4.00E-06	5.6890	2850053.	2.0811	45090.	0.00
8.8000	-8.44E-06	-1.4495	-2.2273	3.91E-06	8.5443	2850053.	1.9466	46138.	0.00
9.0000	-7.67E-06	-1.8560	-1.8518	3.80E-06	10.9406	2850053.	1.8085	47187.	0.00
9.2000	-6.92E-06	-2.1902	-1.5041	3.66E-06	12.9105	2850053.	1.6687	48235.	0.00
9.4000	-6.20E-06	-2.4577	-1.1843	3.49E-06	14.4870	2850053.	1.5286	49284.	0.00
9.6000	-5.52E-06	-2.6640	-0.8925	3.31E-06	15.7030	2850053.	1.3897	50332.	0.00
9.8000	-4.88E-06	-2.8147	-0.6282	3.12E-06	16.5914	2850053.	1.2532	51381.	0.00
10.0000	-4.27E-06	-2.9152	-0.3909	2.92E-06	17.1842	2850053.	1.1203	52430.	0.00
10.2000	-3.71E-06	-2.9710	-0.1796	2.71E-06	17.5130	2850053.	0.9921	53478.	0.00
10.4000	-3.19E-06	-2.9871	0.00652	2.50E-06	17.6078	2850053.	0.8693	54527.	0.00
10.6000	-2.71E-06	-2.9684	0.1687	2.30E-06	17.4976	2850053.	0.7527	55575.	0.00
10.8000	-2.27E-06	-2.9196	0.3083	2.09E-06	17.2099	2850053.	0.6428	56624.	0.00
11.0000	-1.87E-06	-2.8451	0.4266	1.89E-06	16.7707	2850053.	0.5402	57673.	0.00
11.2000	-1.52E-06	-2.7490	0.5251	1.69E-06	16.2042	2850053.	0.4451	58721.	0.00
11.4000	-1.20E-06	-2.6350	0.6054	1.50E-06	15.5326	2850053.	0.3578	59770.	0.00
11.6000	-9.16E-07	-2.5068	0.6690	1.32E-06	14.7767	2850053.	0.2784	60818.	0.00
11.8000	-6.69E-07	-2.3674	0.7176	1.15E-06	13.9552	2850053.	0.2070	61867.	0.00
12.0000	-4.56E-07	-2.2198	0.7526	9.89E-07	13.0848	2850053.	0.1434	62916.	0.00

12.2000	-2.74E-07	-2.0664	0.7757	8.38E-07	12.1807	2850053.	0.08753	63964.	0.00
12.4000	-1.21E-07	-1.9095	0.7884	6.99E-07	11.2559	2850053.	0.03919	65013.	0.00
12.6000	5.78E-09	-1.7511	0.7921	5.70E-07	10.3218	2850053.	-0.00191	66061.	0.00
12.8000	1.08E-07	-1.5927	0.7883	4.53E-07	9.3882	2850053.	-0.03609	67110.	0.00
13.0000	1.87E-07	-1.4357	0.7783	3.47E-07	8.4631	2850053.	-0.06371	68159.	0.00
13.2000	2.46E-07	-1.2813	0.7634	2.51E-07	7.5531	2850053.	-0.08520	69207.	0.00
13.4000	2.87E-07	-1.1304	0.7448	1.67E-07	6.6631	2850053.	-0.1010	70256.	0.00
13.6000	3.13E-07	-0.9834	0.7236	9.25E-08	5.7969	2850053.	-0.1116	71304.	0.00
13.8000	3.25E-07	-0.8409	0.7007	2.85E-08	4.9571	2850053.	-0.1174	72353.	0.00
14.0000	3.24E-07	-0.7032	0.6770	-2.56E-08	4.1449	2850053.	-0.1190	73402.	0.00
14.2000	3.14E-07	-0.5701	0.6534	-7.03E-08	3.3608	2850053.	-0.1170	74450.	0.00
14.4000	2.96E-07	-0.4418	0.6305	-1.06E-07	2.6042	2850053.	-0.1118	75499.	0.00
14.6000	2.72E-07	-0.3179	0.6089	-1.32E-07	1.8741	2850053.	-0.1041	76547.	0.00
14.8000	2.43E-07	-0.1982	0.5891	-1.51E-07	1.1684	2850053.	-0.09435	77596.	0.00
15.0000	2.12E-07	-0.08228	0.5713	-1.60E-07	0.4850	2850053.	-0.08324	78644.	0.00
15.2000	1.79E-07	0.03032	0.5559	-1.62E-07	0.1787	2850053.	-0.07133	79693.	0.00
15.4000	1.47E-07	0.1401	0.4491	-1.56E-07	0.8257	2850053.	-0.9968	1358277.	0.00
15.6000	1.17E-07	0.2100	0.2703	-1.44E-07	1.2376	2850053.	-0.7912	1358277.	0.00
15.8000	8.92E-08	0.2482	0.1306	-1.28E-07	1.4630	2850053.	-0.6056	1358277.	0.00
16.0000	6.53E-08	0.2622	0.02567	-1.10E-07	1.5455	2850053.	-0.4437	1358277.	0.00
16.2000	4.52E-08	0.2585	-0.04937	-9.17E-08	1.5235	2850053.	-0.3067	1358277.	0.00
16.4000	2.86E-08	0.2424	-0.09949	-7.42E-08	1.4291	2850053.	-0.1944	1358277.	0.00
16.6000	1.55E-08	0.2187	-0.1295	-5.80E-08	1.2889	2850053.	-0.1053	1358277.	0.00
16.8000	5.43E-09	0.1907	-0.1437	-4.36E-08	1.1239	2850053.	-0.03690	1358277.	0.00
17.0000	-1.96E-09	0.1612	-0.1460	-3.13E-08	0.9501	2850053.	0.01328	1358277.	0.00
17.2000	-7.08E-09	0.1322	-0.1399	-2.10E-08	0.7795	2850053.	0.04809	1358277.	0.00
17.4000	-1.04E-08	0.1052	-0.1281	-1.27E-08	0.6202	2850053.	0.07031	1358277.	0.00
17.6000	-1.21E-08	0.08101	-0.1128	-6.13E-09	0.4776	2850053.	0.08249	1358277.	0.00
17.8000	-1.28E-08	0.06011	-0.09584	-1.17E-09	0.3543	2850053.	0.08695	1358277.	0.00
18.0000	-1.26E-08	0.04268	-0.07858	2.43E-09	0.2516	2850053.	0.08568	1358277.	0.00
18.2000	-1.18E-08	0.02868	-0.06198	4.94E-09	0.1690	2850053.	0.08034	1358277.	0.00
18.4000	-1.06E-08	0.01789	-0.04672	6.57E-09	0.1054	2850053.	0.07227	1358277.	0.00
18.6000	-9.20E-09	0.00999	-0.03324	7.55E-09	0.05889	2850053.	0.06250	1358277.	0.00
18.8000	-7.62E-09	0.00459	-0.02181	8.06E-09	0.02707	2850053.	0.05177	1358277.	0.00
19.0000	-5.98E-09	0.00127	-0.01257	8.26E-09	0.00746	2850053.	0.04061	1358277.	0.00
19.2000	-4.32E-09	-4.38E-04	-0.00558	8.29E-09	0.00258	2850053.	0.02932	1358277.	0.00
19.4000	-2.66E-09	-9.67E-04	-8.42E-04	8.24E-09	0.00570	2850053.	0.01808	1358277.	0.00
19.6000	-1.02E-09	-7.74E-04	0.00166	8.18E-09	0.00456	2850053.	0.00692	1358277.	0.00
19.8000	6.12E-10	-3.04E-04	0.00194	8.15E-09	0.00179	2850053.	-0.00415	1358277.	0.00
20.0000	2.24E-09	0.00	0.00	8.13E-09	0.00	2850053.	-0.01520	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 1:

Pile-head deflection = 0.00065357 meters
Computed slope at pile head = -0.00021022 radians
Maximum bending moment = 131.12320775 kN-m
Maximum shear force = 100.00000000 kN
Depth of maximum bending moment = 2.40000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 10
Number of zero deflection points = 4

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 2

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 300.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00388	-6.80E-10	300.0000	-9.53E-04	4.01E-09	2850053.	0.00	0.00	0.00
0.2000	0.00369	60.0000	292.7029	-9.51E-04	353.6777	2850053.	-72.9711	3956.	0.00
0.4000	0.00350	117.0812	276.4737	-9.45E-04	690.1498	2850053.	-89.3212	5106.	0.00
0.6000	0.00331	170.5895	257.1298	-9.35E-04	1006.	2850053.	-104.1169	6290.	0.00
0.8000	0.00312	219.9331	235.0755	-9.21E-04	1296.	2850053.	-116.4264	7451.	0.00
1.0000	0.00294	264.6197	210.7319	-9.04E-04	1560.	2850053.	-127.0098	8634.	0.00
1.2000	0.00276	304.2258	184.3619	-8.84E-04	1793.	2850053.	-136.6902	9894.	0.00
1.4000	0.00259	338.3644	156.1464	-8.62E-04	1995.	2850053.	-145.4651	11239.	0.00
1.6000	0.00242	366.6844	126.2663	-8.37E-04	2161.	2850053.	-153.3353	12680.	0.00
1.8000	0.00225	388.8709	94.9024	-8.11E-04	2292.	2850053.	-160.3037	14226.	0.00
2.0000	0.00209	404.6453	62.2346	-7.83E-04	2385.	2850053.	-166.3749	15889.	0.00
2.2000	0.00194	413.7648	42.1496	-7.54E-04	2439.	2850053.	-34.4749	3553.	0.00
2.4000	0.00179	421.5052	35.2308	-7.25E-04	2485.	2850053.	-34.7132	3873.	0.00
2.6000	0.00165	427.8571	28.2717	-6.95E-04	2522.	2850053.	-34.8778	4226.	0.00
2.8000	0.00151	432.8138	21.2871	-6.65E-04	2551.	2850053.	-34.9677	4617.	0.00
3.0000	0.00138	436.3719	14.2922	-6.34E-04	2572.	2850053.	-34.9816	5053.	0.00

3.2000	0.00126	438.5307	7.3022	-6.04E-04	2585.	2850053.	-34.9180	5538.	0.00
3.4000	0.00114	439.2928	0.3329	-5.73E-04	2589.	2850053.	-34.7756	6083.	0.00
3.6000	0.00103	438.6638	-6.6000	-5.42E-04	2586.	2850053.	-34.5528	6697.	0.00
3.8000	9.27E-04	436.6528	-13.4800	-5.11E-04	2574.	2850053.	-34.2477	7393.	0.00
4.0000	8.27E-04	433.2718	-20.2906	-4.81E-04	2554.	2850053.	-33.8583	8185.	0.00
4.2000	7.34E-04	428.5365	-27.0147	-4.50E-04	2526.	2850053.	-33.3821	9093.	0.00
4.4000	6.47E-04	422.4660	-33.6345	-4.21E-04	2490.	2850053.	-32.8164	10142.	0.00
4.6000	5.66E-04	415.0827	-40.1319	-3.91E-04	2447.	2850053.	-32.1575	11363.	0.00
4.8000	4.91E-04	406.4132	-46.4878	-3.62E-04	2396.	2850053.	-31.4010	12799.	0.00
5.0000	4.21E-04	396.4876	-52.6820	-3.34E-04	2337.	2850053.	-30.5413	14508.	0.00
5.2000	3.57E-04	385.3404	-58.6932	-3.07E-04	2271.	2850053.	-29.5707	16567.	0.00
5.4000	2.98E-04	373.0103	-64.4982	-2.80E-04	2199.	2850053.	-28.4792	19093.	0.00
5.6000	2.45E-04	359.5411	-70.0714	-2.54E-04	2119.	2850053.	-27.2524	22256.	0.00
5.8000	1.97E-04	344.9818	-75.3836	-2.30E-04	2034.	2850053.	-25.8698	26327.	0.00
6.0000	1.53E-04	329.3877	-80.4005	-2.06E-04	1942.	2850053.	-24.2995	31766.	0.00
6.2000	1.14E-04	312.8216	-85.0795	-1.84E-04	1844.	2850053.	-22.4900	39427.	0.00
6.4000	7.96E-05	295.3559	-89.3633	-1.62E-04	1741.	2850053.	-20.3484	51149.	0.00
6.6000	4.92E-05	277.0763	-93.1662	-1.42E-04	1633.	2850053.	-17.6800	71881.	0.00
6.8000	2.27E-05	258.0894	-96.3275	-1.23E-04	1521.	2850053.	-13.9338	122724.	0.00
7.0000	-1.55E-07	238.5453	-97.7132	-1.06E-04	1406.	2850053.	0.07715	99622.	0.00
7.2000	-1.97E-05	219.0042	-96.3285	-8.99E-05	1291.	2850053.	13.7696	140011.	0.00
7.4000	-3.61E-05	200.0139	-93.2340	-7.52E-05	1179.	2850053.	17.1754	95128.	0.00
7.6000	-4.97E-05	181.7106	-89.5708	-6.18E-05	1071.	2850053.	19.4570	78229.	0.00
7.8000	-6.08E-05	164.1855	-85.5075	-4.97E-05	967.8126	2850053.	21.1756	69626.	0.00
8.0000	-6.96E-05	147.5075	-81.1365	-3.87E-05	869.5020	2850053.	22.5347	64749.	0.00
8.2000	-7.63E-05	131.7309	-76.5196	-2.89E-05	776.5048	2850053.	23.6341	61939.	0.00
8.4000	-8.12E-05	116.8997	-71.7031	-2.02E-05	689.0802	2850053.	24.5311	60441.	0.00
8.6000	-8.44E-05	103.0497	-67.3474	-1.25E-05	607.4396	2850053.	19.0263	45090.	0.00
8.8000	-8.62E-05	89.9608	-63.4569	-5.71E-06	530.2851	2850053.	19.8778	46138.	0.00
9.0000	-8.67E-05	77.6669	-59.4242	1.73E-07	457.8176	2850053.	20.4500	47187.	0.00
9.2000	-8.61E-05	66.1911	-55.3027	5.22E-06	390.1718	2850053.	20.7646	48235.	0.00
9.4000	-8.46E-05	55.5459	-51.1418	9.49E-06	327.4221	2850053.	20.8443	49284.	0.00
9.6000	-8.23E-05	45.7344	-46.9862	1.30E-05	269.5871	2850053.	20.7119	50332.	0.00
9.8000	-7.94E-05	36.7514	-42.8759	1.59E-05	216.6357	2850053.	20.3907	51381.	0.00
10.0000	-7.59E-05	28.5840	-38.8465	1.82E-05	168.4921	2850053.	19.9035	52430.	0.00
10.2000	-7.21E-05	21.2128	-34.9289	2.00E-05	125.0415	2850053.	19.2729	53478.	0.00
10.4000	-6.79E-05	14.6125	-31.1495	2.12E-05	86.1351	2850053.	18.5207	54527.	0.00
10.6000	-6.36E-05	8.7530	-27.5306	2.21E-05	51.5956	2850053.	17.6682	55575.	0.00
10.8000	-5.91E-05	3.6002	-24.0903	2.25E-05	21.2220	2850053.	16.7352	56624.	0.00
11.0000	-5.46E-05	-0.8831	-20.8427	2.26E-05	5.2057	2850053.	15.7408	57673.	0.00
11.2000	-5.01E-05	-4.7368	-17.7983	2.24E-05	27.9219	2850053.	14.7026	58721.	0.00
11.4000	-4.56E-05	-8.0025	-14.9644	2.19E-05	47.1715	2850053.	13.6369	59770.	0.00
11.6000	-4.13E-05	-10.7226	-12.3448	2.13E-05	63.2057	2850053.	12.5588	60818.	0.00
11.8000	-3.71E-05	-12.9404	-9.9407	2.05E-05	76.2787	2850053.	11.4819	61867.	0.00

12.0000	-3.31E-05	-14.6989	-7.7507	1.95E-05	86.6445	2850053.	10.4182	62916.	0.00
12.2000	-2.93E-05	-16.0407	-5.7711	1.84E-05	94.5538	2850053.	9.3785	63964.	0.00
12.4000	-2.58E-05	-17.0073	-3.9960	1.72E-05	100.2518	2850053.	8.3723	65013.	0.00
12.6000	-2.24E-05	-17.6391	-2.4180	1.60E-05	103.9758	2850053.	7.4074	66061.	0.00
12.8000	-1.93E-05	-17.9745	-1.0282	1.48E-05	105.9531	2850053.	6.4907	67110.	0.00
13.0000	-1.65E-05	-18.0504	0.1836	1.35E-05	106.4001	2850053.	5.6277	68159.	0.00
13.2000	-1.39E-05	-17.9011	1.2287	1.23E-05	105.5202	2850053.	4.8227	69207.	0.00
13.4000	-1.16E-05	-17.5589	2.1188	1.10E-05	103.5031	2850053.	4.0789	70256.	0.00
13.6000	-9.53E-06	-17.0535	2.8666	9.80E-06	100.5243	2850053.	3.3985	71304.	0.00
13.8000	-7.69E-06	-16.4123	3.4847	8.62E-06	96.7442	2850053.	2.7830	72353.	0.00
14.0000	-6.08E-06	-15.6597	3.9863	7.50E-06	92.3078	2850053.	2.2327	73402.	0.00
14.2000	-4.69E-06	-14.8177	4.3843	6.43E-06	87.3451	2850053.	1.7473	74450.	0.00
14.4000	-3.51E-06	-13.9059	4.6916	5.42E-06	81.9703	2850053.	1.3259	75499.	0.00
14.6000	-2.53E-06	-12.9411	4.9209	4.48E-06	76.2830	2850053.	0.9668	76547.	0.00
14.8000	-1.72E-06	-11.9376	5.0843	3.61E-06	70.3676	2850053.	0.6678	77596.	0.00
15.0000	-1.08E-06	-10.9074	5.1938	2.80E-06	64.2948	2850053.	0.4263	78644.	0.00
15.2000	-6.00E-07	-9.8601	5.2603	2.07E-06	58.1215	2850053.	0.2390	79693.	0.00
15.4000	-2.54E-07	-8.8032	7.1994	1.42E-06	51.8919	2850053.	19.1522	1.51E+07	0.00
15.6000	-3.19E-08	-6.9803	9.1363	8.66E-07	41.1464	2850053.	0.2165	1358277.	0.00
15.8000	9.24E-08	-5.1487	9.0952	4.41E-07	30.3499	2850053.	-0.6273	1358277.	0.00
16.0000	1.44E-07	-3.3422	8.9344	1.43E-07	19.7013	2850053.	-0.9803	1358277.	0.00
16.2000	1.49E-07	-1.5750	7.2240	-2.99E-08	9.2838	2850053.	-16.1241	2.16E+07	0.00
16.4000	1.32E-07	-0.4526	4.1726	-1.01E-07	2.6682	2850053.	-14.3899	2.17E+07	0.00
16.6000	1.09E-07	0.09407	1.4999	-1.14E-07	0.5545	2850053.	-12.3371	2.26E+07	0.00
16.8000	8.69E-08	0.1473	0.2071	-1.05E-07	0.8683	2850053.	-0.5905	1358277.	0.00
17.0000	6.70E-08	0.1769	0.1026	-9.38E-08	1.0429	2850053.	-0.4547	1358277.	0.00
17.2000	4.94E-08	0.1884	0.02356	-8.09E-08	1.1103	2850053.	-0.3358	1358277.	0.00
17.4000	3.46E-08	0.1864	-0.03350	-6.78E-08	1.0985	2850053.	-0.2348	1358277.	0.00
17.6000	2.23E-08	0.1750	-0.07214	-5.51E-08	1.0313	2850053.	-0.1516	1358277.	0.00
17.8000	1.25E-08	0.1575	-0.09581	-4.35E-08	0.9284	2850053.	-0.08507	1358277.	0.00
18.0000	4.94E-09	0.1366	-0.1077	-3.31E-08	0.8054	2850053.	-0.03355	1358277.	0.00
18.2000	-7.29E-10	0.1144	-0.1105	-2.43E-08	0.6745	2850053.	0.00495	1358277.	0.00
18.4000	-4.79E-09	0.09242	-0.1068	-1.71E-08	0.5448	2850053.	0.03254	1358277.	0.00
18.6000	-7.56E-09	0.07172	-0.09839	-1.13E-08	0.4228	2850053.	0.05132	1358277.	0.00
18.8000	-9.32E-09	0.05307	-0.08693	-6.93E-09	0.3128	2850053.	0.06327	1358277.	0.00
19.0000	-1.03E-08	0.03695	-0.07359	-3.77E-09	0.2178	2850053.	0.07016	1358277.	0.00
19.2000	-1.08E-08	0.02363	-0.05922	-1.65E-09	0.1393	2850053.	0.07352	1358277.	0.00
19.4000	-1.10E-08	0.01326	-0.04441	-3.55E-10	0.07814	2850053.	0.07463	1358277.	0.00
19.6000	-1.10E-08	0.00587	-0.02950	3.16E-10	0.03459	2850053.	0.07448	1358277.	0.00
19.8000	-1.09E-08	0.00146	-0.01467	5.74E-10	0.00860	2850053.	0.07377	1358277.	0.00
20.0000	-1.07E-08	0.00	0.00	6.25E-10	0.00	2850053.	0.07293	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 2:

Pile-head deflection = 0.00387953 meters
Computed slope at pile head = -0.00095348 radians
Maximum bending moment = 439.29278823 kN-m
Maximum shear force = 300.00000000 kN
Depth of maximum bending moment = 3.40000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 17
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 3

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 500.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.01132	4.20E-09	500.0000	-0.00231	2.48E-08	2850053.	0.00	0.00	0.00
0.2000	0.01086	100.0000	492.8946	-0.00230	589.4628	2850053.	-71.0538	1309.	0.00
0.4000	0.01040	197.1578	475.5780	-0.00229	1162.	2850053.	-102.1120	1964.	0.00
0.6000	0.00994	290.2312	452.2612	-0.00228	1711.	2850053.	-131.0565	2637.	0.00
0.8000	0.00949	378.0623	423.3436	-0.00225	2229.	2850053.	-158.1198	3333.	0.00
1.0000	0.00904	459.5686	389.1875	-0.00222	2709.	2850053.	-183.4406	4058.	0.00
1.2000	0.00860	533.7373	350.1328	-0.00219	3146.	2850053.	-207.1062	4817.	0.00
1.4000	0.00816	599.6218	306.5048	-0.00215	3535.	2850053.	-229.1742	5614.	0.00
1.6000	0.00774	656.3392	258.6190	-0.00210	3869.	2850053.	-249.6835	6452.	0.00
1.8000	0.00732	703.0694	206.7847	-0.00206	4144.	2850053.	-268.6594	7337.	0.00
2.0000	0.00692	739.0531	151.3072	-0.00201	4356.	2850053.	-286.1163	8273.	0.00
2.2000	0.00652	763.5923	117.5319	-0.00195	4501.	2850053.	-51.6361	1584.	0.00
2.4000	0.00614	786.0659	107.1371	-0.00190	4634.	2850053.	-52.3122	1705.	0.00
2.6000	0.00576	806.4471	96.6155	-0.00184	4754.	2850053.	-52.9043	1837.	0.00
2.8000	0.00540	824.7121	85.9839	-0.00179	4861.	2850053.	-53.4114	1979.	0.00

3.0000	0.00505	840.8407	75.2595	-0.00173	4956.	2850053.	-53.8322	2133.	0.00
3.2000	0.00471	854.8159	64.4597	-0.00167	5039.	2850053.	-54.1656	2301.	0.00
3.4000	0.00438	866.6245	53.6021	-0.00161	5108.	2850053.	-54.4105	2485.	0.00
3.6000	0.00406	876.2568	42.7045	-0.00155	5165.	2850053.	-54.5655	2685.	0.00
3.8000	0.00376	883.7064	31.7850	-0.00148	5209.	2850053.	-54.6296	2905.	0.00
4.0000	0.00347	888.9708	20.8619	-0.00142	5240.	2850053.	-54.6014	3147.	0.00
4.2000	0.00319	892.0511	9.9538	-0.00136	5258.	2850053.	-54.4796	3414.	0.00
4.4000	0.00293	892.9523	-0.9204	-0.00130	5264.	2850053.	-54.2628	3709.	0.00
4.6000	0.00267	891.6830	-11.7416	-0.00123	5256.	2850053.	-53.9494	4037.	0.00
4.8000	0.00243	888.2556	-22.4904	-0.00117	5236.	2850053.	-53.5380	4402.	0.00
5.0000	0.00220	882.6868	-33.1468	-0.00111	5203.	2850053.	-53.0265	4812.	0.00
5.2000	0.00199	874.9969	-43.6908	-0.00105	5158.	2850053.	-52.4130	5273.	0.00
5.4000	0.00178	865.2105	-54.1016	-9.87E-04	5100.	2850053.	-51.6951	5794.	0.00
5.6000	0.00159	853.3563	-64.3581	-9.27E-04	5030.	2850053.	-50.8700	6386.	0.00
5.8000	0.00141	839.4673	-74.4385	-8.68E-04	4948.	2850053.	-49.9344	7064.	0.00
6.0000	0.00125	823.5809	-84.3204	-8.09E-04	4855.	2850053.	-48.8844	7846.	0.00
6.2000	0.00109	805.7391	-93.9803	-7.52E-04	4750.	2850053.	-47.7149	8755.	0.00
6.4000	9.45E-04	785.9887	-103.3938	-6.96E-04	4633.	2850053.	-46.4199	9822.	0.00
6.6000	8.11E-04	764.3816	-112.5349	-6.42E-04	4506.	2850053.	-44.9912	11090.	0.00
6.8000	6.88E-04	740.9748	-121.3759	-5.89E-04	4368.	2850053.	-43.4183	12615.	0.00
7.0000	5.76E-04	715.8312	-129.8864	-5.38E-04	4220.	2850053.	-41.6869	14481.	0.00
7.2000	4.73E-04	689.0202	-138.0328	-4.89E-04	4062.	2850053.	-39.7771	16813.	0.00
7.4000	3.80E-04	660.6181	-145.7765	-4.41E-04	3894.	2850053.	-37.6600	19808.	0.00
7.6000	2.97E-04	630.7096	-153.0716	-3.96E-04	3718.	2850053.	-35.2916	23798.	0.00
7.8000	2.22E-04	599.3895	-159.8609	-3.53E-04	3533.	2850053.	-32.6007	29396.	0.00
8.0000	1.55E-04	566.7653	-166.0670	-3.12E-04	3341.	2850053.	-29.4602	37909.	0.00
8.2000	9.70E-05	532.9627	-171.5737	-2.73E-04	3142.	2850053.	-25.6069	52799.	0.00
8.4000	4.61E-05	498.1358	-176.1658	-2.37E-04	2936.	2850053.	-20.3141	88223.	0.00
8.6000	2.10E-06	462.4964	-178.2444	-2.04E-04	2726.	2850053.	-0.4727	45090.	0.00
8.8000	-3.54E-05	426.8380	-177.4758	-1.72E-04	2516.	2850053.	8.1590	46138.	0.00
9.0000	-6.68E-05	391.5060	-175.0829	-1.44E-04	2308.	2850053.	15.7700	47187.	0.00
9.2000	-9.28E-05	356.8049	-171.2673	-1.17E-04	2103.	2850053.	22.3860	48235.	0.00
9.4000	-1.14E-04	322.9991	-166.2247	-9.35E-05	1904.	2850053.	28.0403	49284.	0.00
9.6000	-1.30E-04	290.3150	-160.1433	-7.20E-05	1711.	2850053.	32.7737	50332.	0.00
9.8000	-1.43E-04	258.9418	-153.2026	-5.27E-05	1526.	2850053.	36.6327	51381.	0.00
10.0000	-1.51E-04	229.0339	-145.5725	-3.56E-05	1350.	2850053.	39.6687	52430.	0.00
10.2000	-1.57E-04	200.7128	-137.4119	-2.05E-05	1183.	2850053.	41.9367	53478.	0.00
10.4000	-1.60E-04	174.0692	-128.8688	-7.38E-06	1026.	2850053.	43.4944	54527.	0.00
10.6000	-1.60E-04	149.1653	-120.0792	3.96E-06	879.2738	2850053.	44.4017	55575.	0.00
10.8000	-1.58E-04	126.0375	-111.1672	1.36E-05	742.9440	2850053.	44.7188	56624.	0.00
11.0000	-1.54E-04	104.6984	-102.2446	2.17E-05	617.1582	2850053.	44.5066	57673.	0.00
11.2000	-1.49E-04	85.1396	-93.4114	2.84E-05	501.8664	2850053.	43.8252	58721.	0.00
11.4000	-1.43E-04	67.3338	-84.7556	3.37E-05	396.9079	2850053.	42.7334	59770.	0.00
11.6000	-1.36E-04	51.2374	-76.3534	3.79E-05	302.0254	2850053.	41.2884	60818.	0.00

11.8000	-1.28E-04	36.7925	-68.2700	4.10E-05	216.8780	2850053.	39.5454	61867.	0.00
12.0000	-1.19E-04	23.9294	-60.5598	4.31E-05	141.0548	2850053.	37.5567	62916.	0.00
12.2000	-1.11E-04	12.5686	-53.2670	4.44E-05	74.0869	2850053.	35.3719	63964.	0.00
12.4000	-1.02E-04	2.6226	-46.4260	4.49E-05	15.4592	2850053.	33.0376	65013.	0.00
12.6000	-9.26E-05	-6.0019	-40.0625	4.48E-05	35.3787	2850053.	30.5972	66061.	0.00
12.8000	-8.37E-05	-13.4024	-34.1937	4.41E-05	79.0022	2850053.	28.0907	67110.	0.00
13.0000	-7.50E-05	-19.6793	-28.8292	4.30E-05	116.0024	2850053.	25.5547	68159.	0.00
13.2000	-6.65E-05	-24.9341	-23.9715	4.14E-05	146.9772	2850053.	23.0228	69207.	0.00
13.4000	-5.84E-05	-29.2679	-19.6167	3.95E-05	172.5235	2850053.	20.5252	70256.	0.00
13.6000	-5.07E-05	-32.7808	-15.7552	3.73E-05	193.2303	2850053.	18.0890	71304.	0.00
13.8000	-4.35E-05	-35.5700	-12.3725	3.49E-05	209.6720	2850053.	15.7387	72353.	0.00
14.0000	-3.68E-05	-37.7297	-9.4490	3.23E-05	222.4028	2850053.	13.4957	73402.	0.00
14.2000	-3.06E-05	-39.3496	-6.9615	2.96E-05	231.9514	2850053.	11.3792	74450.	0.00
14.4000	-2.49E-05	-40.5143	-4.8830	2.68E-05	238.8170	2850053.	9.4062	75499.	0.00
14.6000	-1.98E-05	-41.3028	-3.1832	2.40E-05	243.4647	2850053.	7.5915	76547.	0.00
14.8000	-1.53E-05	-41.7876	-1.8292	2.10E-05	246.3225	2850053.	5.9485	77596.	0.00
15.0000	-1.14E-05	-42.0345	-0.7855	1.81E-05	247.7778	2850053.	4.4888	78644.	0.00
15.2000	-8.09E-06	-42.1018	-0.01429	1.52E-05	248.1746	2850053.	3.2231	79693.	0.00
15.4000	-5.35E-06	-42.0402	6.0354	1.22E-05	247.8115	2850053.	57.2743	2139800.	0.00
15.6000	-3.21E-06	-39.6876	16.5778	9.34E-06	233.9439	2850053.	48.1494	3002187.	0.00
15.8000	-1.62E-06	-35.4091	25.1990	6.70E-06	208.7234	2850053.	38.0628	4701959.	0.00
16.0000	-5.27E-07	-29.6080	31.5484	4.42E-06	174.5283	2850053.	25.4307	9644284.	0.00
16.2000	1.49E-07	-22.7897	33.9905	2.58E-06	134.3370	2850053.	-1.0101	1358277.	0.00
16.4000	5.05E-07	-16.0119	31.1669	1.22E-06	94.3839	2850053.	-27.2254	1.08E+07	0.00
16.6000	6.37E-07	-10.3230	25.5518	2.95E-07	60.8501	2850053.	-28.9261	9089068.	0.00
16.8000	6.23E-07	-5.7912	19.8087	-2.70E-07	34.1367	2850053.	-28.5048	9148652.	0.00
17.0000	5.29E-07	-2.3995	14.2740	-5.57E-07	14.1442	2850053.	-26.8421	1.02E+07	0.00
17.2000	4.00E-07	-0.08156	9.1545	-6.44E-07	0.4808	2850053.	-24.3522	1.22E+07	0.00
17.4000	2.71E-07	1.2623	4.5933	-6.03E-07	7.4408	2850053.	-21.2607	1.57E+07	0.00
17.6000	1.59E-07	1.7557	0.7029	-4.97E-07	10.3494	2850053.	-17.6430	2.22E+07	0.00
17.8000	7.19E-08	1.5435	-1.1103	-3.81E-07	9.0981	2850053.	-0.4884	1358277.	0.00
18.0000	6.48E-09	1.3116	-1.1635	-2.81E-07	7.7316	2850053.	-0.04404	1358277.	0.00
18.2000	-4.05E-08	1.0781	-1.1404	-1.97E-07	6.3547	2850053.	0.2753	1358277.	0.00
18.4000	-7.24E-08	0.8555	-1.0637	-1.29E-07	5.0427	2850053.	0.4919	1358277.	0.00
18.6000	-9.23E-08	0.6526	-0.9518	-7.65E-08	3.8468	2850053.	0.6270	1358277.	0.00
18.8000	-1.03E-07	0.4748	-0.8191	-3.70E-08	2.7986	2850053.	0.6999	1358277.	0.00
19.0000	-1.07E-07	0.3250	-0.6763	-8.93E-09	1.9155	2850053.	0.7275	1358277.	0.00
19.2000	-1.07E-07	0.2042	-0.5312	9.64E-09	1.2039	2850053.	0.7241	1358277.	0.00
19.4000	-1.03E-07	0.1125	-0.3886	2.08E-08	0.6631	2850053.	0.7013	1358277.	0.00
19.6000	-9.83E-08	0.04879	-0.2517	2.64E-08	0.2876	2850053.	0.6678	1358277.	0.00
19.8000	-9.27E-08	0.01180	-0.1220	2.85E-08	0.06959	2850053.	0.6296	1358277.	0.00
20.0000	-8.69E-08	0.00	0.00	2.90E-08	0.00	2850053.	0.5902	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 3:

Pile-head deflection = 0.01131986 meters
Computed slope at pile head = -0.00230701 radians
Maximum bending moment = 892.95229738 kN-m
Maximum shear force = 500.00000000 kN
Depth of maximum bending moment = 4.40000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 28
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 4

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 750.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.05829	1.83E-08	750.0000	-0.00875	1.08E-07	2850053.	0.00	0.00	0.00
0.2000	0.05654	150.0000	749.3356	-0.00874	884.1941	2850053.	-6.6440	23.5038	0.00
0.4000	0.05479	299.7342	747.4276	-0.00873	1767.	2850053.	-12.4356	45.3958	0.00
0.6000	0.05304	448.9711	743.8685	-0.00870	2647.	2850053.	-23.1555	87.3070	0.00
0.8000	0.05131	597.2817	736.5779	-0.00867	3521.	2850053.	-49.7513	193.9379	0.00
1.0000	0.04958	743.6022	723.6581	-0.00862	4383.	2850053.	-79.4463	320.4940	0.00
1.2000	0.04786	886.7449	704.5426	-0.00856	5227.	2850053.	-111.7090	466.8270	0.00
1.4000	0.04615	1025.	678.7645	-0.00849	6044.	2850053.	-146.0713	632.9912	0.00
1.6000	0.04446	1158.	645.9454	-0.00842	6827.	2850053.	-182.1199	819.2345	0.00
1.8000	0.04279	1284.	605.7845	-0.00833	7568.	2850053.	-219.4897	1026.	0.00
2.0000	0.04113	1401.	558.0494	-0.00824	8256.	2850053.	-257.8604	1254.	0.00
2.2000	0.03949	1507.	522.8514	-0.00814	8883.	2850053.	-94.1198	476.6737	0.00
2.4000	0.03787	1610.	503.8433	-0.00803	9489.	2850053.	-95.9615	506.7464	0.00
2.6000	0.03628	1709.	484.4776	-0.00791	10071.	2850053.	-97.6952	538.5691	0.00

2.8000	0.03471	1803.	464.7762	-0.00779	10631.	2850053.	-99.3189	572.2875	0.00
3.0000	0.03316	1894.	444.7612	-0.00766	11167.	2850053.	-100.8310	608.0627	0.00
3.2000	0.03165	1981.	424.4551	-0.00752	11680.	2850053.	-102.2297	646.0724	0.00
3.4000	0.03016	2064.	403.8809	-0.00738	12168.	2850053.	-103.5131	686.5141	0.00
3.6000	0.02869	2143.	383.0616	-0.00723	12632.	2850053.	-104.6794	729.6070	0.00
3.8000	0.02726	2217.	362.0210	-0.00708	13071.	2850053.	-105.7269	775.5953	0.00
4.0000	0.02586	2288.	340.7829	-0.00692	13486.	2850053.	-106.6536	824.7519	0.00
4.2000	0.02450	2354.	319.3718	-0.00676	13875.	2850053.	-107.4579	877.3821	0.00
4.4000	0.02316	2416.	297.8122	-0.00659	14239.	2850053.	-108.1376	933.8290	0.00
4.6000	0.02186	2473.	276.1294	-0.00642	14577.	2850053.	-108.6911	994.4792	0.00
4.8000	0.02059	2526.	254.3486	-0.00624	14890.	2850053.	-109.1162	1060.	0.00
5.0000	0.01936	2575.	232.4959	-0.00606	15177.	2850053.	-109.4110	1130.	0.00
5.2000	0.01817	2619.	210.5975	-0.00588	15438.	2850053.	-109.5735	1206.	0.00
5.4000	0.01701	2659.	188.6800	-0.00570	15673.	2850053.	-109.6014	1289.	0.00
5.6000	0.01589	2694.	166.7706	-0.00551	15883.	2850053.	-109.4927	1378.	0.00
5.8000	0.01480	2726.	144.8968	-0.00532	16066.	2850053.	-109.2449	1476.	0.00
6.0000	0.01376	2752.	123.0867	-0.00513	16224.	2850053.	-108.8558	1582.	0.00
6.2000	0.01275	2775.	101.3689	-0.00493	16357.	2850053.	-108.3226	1699.	0.00
6.4000	0.01179	2793.	79.7723	-0.00474	16463.	2850053.	-107.6429	1827.	0.00
6.6000	0.01086	2807.	58.3267	-0.00454	16545.	2850053.	-106.8137	1967.	0.00
6.8000	0.00997	2816.	37.0621	-0.00434	16601.	2850053.	-105.8319	2123.	0.00
7.0000	0.00912	2822.	16.0095	-0.00415	16632.	2850053.	-104.6944	2296.	0.00
7.2000	0.00831	2823.	-4.7997	-0.00395	16639.	2850053.	-103.3975	2488.	0.00
7.4000	0.00754	2820.	-25.3332	-0.00375	16621.	2850053.	-101.9374	2703.	0.00
7.6000	0.00681	2813.	-45.5579	-0.00355	16579.	2850053.	-100.3098	2945.	0.00
7.8000	0.00612	2801.	-65.4399	-0.00336	16513.	2850053.	-98.5101	3219.	0.00
8.0000	0.00547	2786.	-84.9442	-0.00316	16425.	2850053.	-96.5329	3530.	0.00
8.2000	0.00486	2767.	-104.0348	-0.00296	16313.	2850053.	-94.3725	3886.	0.00
8.4000	0.00428	2745.	-122.6742	-0.00277	16179.	2850053.	-92.0220	4296.	0.00
8.6000	0.00375	2718.	-164.4284	-0.00258	16024.	2850053.	-325.5198	17367.	0.00
8.8000	0.00325	2679.	-227.8616	-0.00239	15792.	2850053.	-308.8125	18993.	0.00
9.0000	0.00279	2627.	-287.7457	-0.00220	15487.	2850053.	-290.0285	20771.	0.00
9.2000	0.00237	2564.	-343.6804	-0.00202	15113.	2850053.	-269.3188	22725.	0.00
9.4000	0.00198	2490.	-395.2980	-0.00184	14676.	2850053.	-246.8569	24887.	0.00
9.6000	0.00163	2406.	-442.9028	-0.00167	14181.	2850053.	-229.1913	28080.	0.00
9.8000	0.00131	2313.	-486.8807	-0.00151	13632.	2850053.	-210.5873	32034.	0.00
10.0000	0.00103	2211.	-526.9400	-0.00135	13033.	2850053.	-190.0062	36911.	0.00
10.2000	7.75E-04	2102.	-562.6651	-0.00120	12389.	2850053.	-167.2447	43139.	0.00
10.4000	5.51E-04	1986.	-593.5809	-0.00105	11706.	2850053.	-141.9133	51541.	0.00
10.6000	3.54E-04	1864.	-617.6057	-9.19E-04	10990.	2850053.	-98.3344	55575.	0.00
10.8000	1.83E-04	1739.	-632.6269	-7.92E-04	10250.	2850053.	-51.8774	56624.	0.00
11.0000	3.70E-05	1611.	-638.8815	-6.75E-04	9498.	2850053.	-10.6686	57673.	0.00
11.2000	-8.66E-05	1483.	-637.4050	-5.66E-04	8744.	2850053.	25.4338	58721.	0.00
11.4000	-1.89E-04	1356.	-629.2005	-4.66E-04	7995.	2850053.	56.6108	59770.	0.00

11.6000	-2.73E-04	1232.	-615.2317	-3.76E-04	7260.	2850053.	83.0770	60818.	0.00
11.8000	-3.40E-04	1110.	-596.4166	-2.93E-04	6545.	2850053.	105.0744	61867.	0.00
12.0000	-3.91E-04	993.1009	-573.6224	-2.20E-04	5854.	2850053.	122.8669	62916.	0.00
12.2000	-4.28E-04	880.8337	-547.6622	-1.54E-04	5192.	2850053.	136.7355	63964.	0.00
12.4000	-4.52E-04	774.0360	-519.2913	-9.58E-05	4563.	2850053.	146.9731	65013.	0.00
12.6000	-4.66E-04	673.1172	-489.2060	-4.51E-05	3968.	2850053.	153.8803	66061.	0.00
12.8000	-4.70E-04	578.3536	-458.0418	-1.15E-06	3409.	2850053.	157.7616	67110.	0.00
13.0000	-4.66E-04	489.9005	-426.3735	3.63E-05	2888.	2850053.	158.9217	68159.	0.00
13.2000	-4.56E-04	407.8042	-394.7151	6.78E-05	2404.	2850053.	157.6623	69207.	0.00
13.4000	-4.39E-04	332.0144	-363.5208	9.38E-05	1957.	2850053.	154.2802	70256.	0.00
13.6000	-4.18E-04	262.3959	-333.1864	1.15E-04	1547.	2850053.	149.0645	71304.	0.00
13.8000	-3.93E-04	198.7399	-304.0504	1.31E-04	1171.	2850053.	142.2954	72353.	0.00
14.0000	-3.66E-04	140.7757	-276.3966	1.43E-04	829.8206	2850053.	134.2428	73402.	0.00
14.2000	-3.36E-04	88.1813	-250.4557	1.51E-04	519.7958	2850053.	125.1658	74450.	0.00
14.4000	-3.05E-04	40.5935	-226.4079	1.55E-04	239.2833	2850053.	115.3119	75499.	0.00
14.6000	-2.74E-04	-2.3819	-204.3850	1.57E-04	14.0403	2850053.	104.9172	76547.	0.00
14.8000	-2.43E-04	-41.1605	-184.4726	1.55E-04	242.6261	2850053.	94.2069	77596.	0.00
15.0000	-2.12E-04	-76.1709	-166.7124	1.51E-04	448.9992	2850053.	83.3954	78644.	0.00
15.2000	-1.82E-04	-107.8455	-151.1041	1.45E-04	635.7090	2850053.	72.6876	79693.	0.00
15.4000	-1.54E-04	-136.6126	-126.2202	1.36E-04	805.2802	2850053.	176.1510	228368.	0.00
15.6000	-1.28E-04	-158.3336	-92.0511	1.26E-04	933.3175	2850053.	165.5402	258582.	0.00
15.8000	-1.04E-04	-173.4330	-60.0503	1.14E-04	1022.	2850053.	154.4682	296977.	0.00
16.0000	-8.25E-05	-182.3537	-30.3084	1.01E-04	1075.	2850053.	142.9509	346753.	0.00
16.2000	-6.34E-05	-185.5564	-2.9147	8.86E-05	1094.	2850053.	130.9862	412980.	0.00
16.4000	-4.70E-05	-183.5196	22.0383	7.56E-05	1082.	2850053.	118.5432	504200.	0.00
16.6000	-3.32E-05	-176.7410	44.4464	6.30E-05	1042.	2850053.	105.5383	636049.	0.00
16.8000	-2.18E-05	-165.7410	64.1781	5.10E-05	976.9814	2850053.	91.7790	840874.	0.00
17.0000	-1.28E-05	-151.0698	81.0365	3.98E-05	890.5001	2850053.	76.8048	1200128.	0.00
17.2000	-5.89E-06	-133.3264	94.6436	2.99E-05	785.9094	2850053.	59.2659	2012535.	0.00
17.4000	-8.51E-07	-113.2123	103.6626	2.12E-05	667.3446	2850053.	30.9244	7266689.	0.00
17.6000	2.60E-06	-91.8613	102.2288	1.40E-05	541.4883	2850053.	-45.2631	3483781.	0.00
17.8000	4.76E-06	-72.3208	92.1703	8.26E-06	426.3044	2850053.	-55.3213	2324971.	0.00
18.0000	5.90E-06	-54.9932	80.6957	3.80E-06	324.1645	2850053.	-59.4248	2012951.	0.00
18.2000	6.28E-06	-40.0426	68.6898	4.63E-07	236.0360	2850053.	-60.6345	1931716.	0.00
18.4000	6.09E-06	-27.5173	56.6270	-1.91E-06	162.2042	2850053.	-59.9937	1970451.	0.00
18.6000	5.51E-06	-17.3918	44.8282	-3.48E-06	102.5180	2850053.	-57.9938	2103248.	0.00
18.8000	4.70E-06	-9.5860	33.5410	-4.43E-06	56.5059	2850053.	-54.8778	2337239.	0.00
19.0000	3.74E-06	-3.9754	22.9818	-4.91E-06	23.4332	2850053.	-50.7149	2710087.	0.00
19.2000	2.73E-06	-0.3933	13.3739	-5.06E-06	2.3183	2850053.	-45.3635	3318946.	0.00
19.4000	1.72E-06	1.3742	5.0142	-5.02E-06	8.1005	2850053.	-38.2339	4448329.	0.00
19.6000	7.24E-07	1.6124	-1.5046	-4.92E-06	9.5044	2850053.	-26.9541	7448762.	0.00
19.8000	-2.49E-07	0.7724	-4.0309	-4.84E-06	4.5529	2850053.	1.6907	1358277.	0.00
20.0000	-1.21E-06	0.00	0.00	-4.81E-06	0.00	2850053.	38.6187	3189563.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 4:

Pile-head deflection = 0.05828539 meters
Computed slope at pile head = -0.00875001 radians
Maximum bending moment = 2823. kN-m
Maximum shear force = 750.00000000 kN
Depth of maximum bending moment = 7.20000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 57
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 5

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 1000.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.1187	1.98E-09	1000.0000	-0.01630	1.17E-08	2850053.	0.00	0.00	0.00
0.2000	0.1154	200.0000	999.3356	-0.01630	1179.	2850053.	-6.6440	11.5155	0.00
0.4000	0.1121	399.7342	997.4276	-0.01628	2356.	2850053.	-12.4356	22.1799	0.00
0.6000	0.1089	598.9711	994.3512	-0.01624	3531.	2850053.	-18.3291	33.6682	0.00
0.8000	0.1056	797.4747	990.0999	-0.01619	4701.	2850053.	-24.1833	45.7857	0.00
1.0000	0.1024	995.0110	984.6899	-0.01613	5865.	2850053.	-29.9173	58.4298	0.00
1.2000	0.09919	1191.	978.1492	-0.01605	7023.	2850053.	-35.4895	71.5621	0.00
1.4000	0.09598	1386.	970.5119	-0.01596	8172.	2850053.	-40.8838	85.1895	0.00
1.6000	0.09280	1580.	961.8135	-0.01586	9311.	2850053.	-46.1001	99.3532	0.00
1.8000	0.08964	1771.	952.0886	-0.01574	10439.	2850053.	-51.1483	114.1196	0.00
2.0000	0.08650	1960.	941.3694	-0.01561	11556.	2850053.	-56.0442	129.5757	0.00
2.2000	0.08340	2148.	923.6897	-0.01547	12659.	2850053.	-120.7531	289.5899	0.00
2.4000	0.08032	2330.	899.2855	-0.01531	13734.	2850053.	-123.2882	307.0004	0.00

2.6000	0.07727	2507.	874.3869	-0.01514	14779.	2850053.	-125.6975	325.3353	0.00
2.8000	0.07426	2680.	849.0193	-0.01496	15795.	2850053.	-127.9789	344.6664	0.00
3.0000	0.07129	2847.	823.2084	-0.01476	16781.	2850053.	-130.1299	365.0725	0.00
3.2000	0.06836	3009.	796.9806	-0.01456	17736.	2850053.	-132.1485	386.6404	0.00
3.4000	0.06547	3166.	770.3625	-0.01434	18660.	2850053.	-134.0323	409.4655	0.00
3.6000	0.06262	3317.	743.3813	-0.01411	19553.	2850053.	-135.7791	433.6532	0.00
3.8000	0.05982	3463.	716.0648	-0.01388	20413.	2850053.	-137.3864	459.3198	0.00
4.0000	0.05707	3603.	688.4410	-0.01363	21241.	2850053.	-138.8520	486.5946	0.00
4.2000	0.05437	3738.	660.5384	-0.01337	22036.	2850053.	-140.1734	515.6210	0.00
4.4000	0.05172	3868.	632.3862	-0.01310	22799.	2850053.	-141.3483	546.5588	0.00
4.6000	0.04913	3991.	604.0140	-0.01283	23527.	2850053.	-142.3741	579.5865	0.00
4.8000	0.04659	4109.	575.4518	-0.01254	24223.	2850053.	-143.2484	614.9040	0.00
5.0000	0.04411	4222.	546.7301	-0.01225	24884.	2850053.	-143.9685	652.7355	0.00
5.2000	0.04169	4328.	517.8800	-0.01195	25512.	2850053.	-144.5319	693.3340	0.00
5.4000	0.03933	4429.	488.9332	-0.01164	26105.	2850053.	-144.9358	736.9850	0.00
5.6000	0.03703	4524.	459.9219	-0.01133	26665.	2850053.	-145.1775	784.0124	0.00
5.8000	0.03480	4613.	430.8788	-0.01101	27190.	2850053.	-145.2540	834.7843	0.00
6.0000	0.03263	4696.	401.8371	-0.01068	27681.	2850053.	-145.1625	889.7215	0.00
6.2000	0.03053	4773.	372.8309	-0.01035	28137.	2850053.	-144.8997	949.3058	0.00
6.4000	0.02849	4845.	343.8947	-0.01001	28560.	2850053.	-144.4626	1014.	0.00
6.6000	0.02652	4911.	315.0636	-0.00967	28948.	2850053.	-143.8479	1085.	0.00
6.8000	0.02462	4971.	286.3736	-0.00932	29303.	2850053.	-143.0520	1162.	0.00
7.0000	0.02279	5025.	257.8613	-0.00897	29623.	2850053.	-142.0714	1247.	0.00
7.2000	0.02103	5074.	229.5639	-0.00862	29911.	2850053.	-140.9022	1340.	0.00
7.4000	0.01935	5117.	201.5196	-0.00826	30165.	2850053.	-139.5406	1443.	0.00
7.6000	0.01773	5155.	173.7673	-0.00790	30386.	2850053.	-137.9824	1557.	0.00
7.8000	0.01619	5187.	146.3468	-0.00754	30574.	2850053.	-136.2233	1683.	0.00
8.0000	0.01471	5213.	119.2986	-0.00717	30731.	2850053.	-134.2587	1825.	0.00
8.2000	0.01332	5235.	92.6643	-0.00681	30856.	2850053.	-132.0841	1984.	0.00
8.4000	0.01199	5250.	66.4864	-0.00644	30949.	2850053.	-129.6944	2163.	0.00
8.6000	0.01074	5261.	-6.0092	-0.00607	31012.	2850053.	-595.2620	11083.	0.00
8.8000	0.00956	5248.	-123.3649	-0.00570	30935.	2850053.	-578.2953	12092.	0.00
9.0000	0.00846	5212.	-236.9632	-0.00533	30722.	2850053.	-557.6872	13182.	0.00
9.2000	0.00743	5153.	-346.0865	-0.00497	30376.	2850053.	-533.5456	14359.	0.00
9.4000	0.00647	5073.	-450.0434	-0.00461	29906.	2850053.	-506.0233	15634.	0.00
9.6000	0.00559	4973.	-549.0714	-0.00426	29315.	2850053.	-484.2575	17335.	0.00
9.8000	0.00477	4854.	-643.5993	-0.00391	28611.	2850053.	-461.0210	19329.	0.00
10.0000	0.00402	4716.	-733.2070	-0.00358	27798.	2850053.	-435.0558	21637.	0.00
10.2000	0.00334	4560.	-817.3466	-0.00325	26882.	2850053.	-406.3404	24339.	0.00
10.4000	0.00272	4389.	-895.4625	-0.00294	25871.	2850053.	-374.8188	27555.	0.00
10.6000	0.00216	4202.	-966.9817	-0.00264	24771.	2850053.	-340.3725	31463.	0.00
10.8000	0.00167	4002.	-1031.	-0.00235	23591.	2850053.	-302.7702	36352.	0.00
11.0000	0.00122	3790.	-1088.	-0.00208	22339.	2850053.	-261.5679	42739.	0.00
11.2000	8.35E-04	3567.	-1135.	-0.00182	21026.	2850053.	-215.8823	51679.	0.00

11.4000	4.97E-04	3336.	-1172.	-0.00158	19662.	2850053.	-148.5245	59770.	0.00
11.6000	2.05E-04	3098.	-1193.	-0.00135	18263.	2850053.	-62.4356	60818.	0.00
11.8000	-4.29E-05	2858.	-1198.	-0.00114	16849.	2850053.	13.2611	61867.	0.00
12.0000	-2.51E-04	2619.	-1189.	-9.48E-04	15438.	2850053.	78.9405	62916.	0.00
12.2000	-4.22E-04	2383.	-1167.	-7.73E-04	14046.	2850053.	135.0459	63964.	0.00
12.4000	-5.60E-04	2152.	-1136.	-6.14E-04	12686.	2850053.	182.0766	65013.	0.00
12.6000	-6.68E-04	1929.	-1095.	-4.71E-04	11368.	2850053.	220.5763	66061.	0.00
12.8000	-7.48E-04	1714.	-1048.	-3.43E-04	10103.	2850053.	251.1224	67110.	0.00
13.0000	-8.05E-04	1509.	-995.6189	-2.30E-04	8897.	2850053.	274.3157	68159.	0.00
13.2000	-8.40E-04	1316.	-939.1101	-1.31E-04	7756.	2850053.	290.7718	69207.	0.00
13.4000	-8.57E-04	1134.	-879.9218	-4.47E-05	6683.	2850053.	301.1119	70256.	0.00
13.6000	-8.58E-04	963.7479	-819.2149	2.89E-05	5681.	2850053.	305.9565	71304.	0.00
13.8000	-8.46E-04	806.0240	-758.0275	9.10E-05	4751.	2850053.	305.9181	72353.	0.00
14.0000	-8.22E-04	660.5369	-697.2760	1.42E-04	3894.	2850053.	301.5964	73402.	0.00
14.2000	-7.89E-04	527.1136	-637.7590	1.84E-04	3107.	2850053.	293.5736	74450.	0.00
14.4000	-7.48E-04	405.4333	-580.1606	2.17E-04	2390.	2850053.	282.4108	75499.	0.00
14.6000	-7.02E-04	295.0494	-525.0550	2.41E-04	1739.	2850053.	268.6452	76547.	0.00
14.8000	-6.52E-04	195.4113	-472.9116	2.59E-04	1152.	2850053.	252.7884	77596.	0.00
15.0000	-5.98E-04	105.8847	-424.1002	2.69E-04	624.1511	2850053.	235.3252	78644.	0.00
15.2000	-5.44E-04	25.7712	-378.8964	2.74E-04	151.9116	2850053.	216.7130	79693.	0.00
15.4000	-4.89E-04	-45.6738	-331.3502	2.73E-04	269.2302	2850053.	258.7489	105844.	0.00
15.6000	-4.35E-04	-106.7689	-280.5962	2.68E-04	629.3628	2850053.	248.7918	114487.	0.00
15.8000	-3.82E-04	-157.9123	-231.8891	2.58E-04	930.8341	2850053.	238.2787	124815.	0.00
16.0000	-3.31E-04	-199.5245	-185.3359	2.46E-04	1176.	2850053.	227.2536	137221.	0.00
16.2000	-2.83E-04	-232.0466	-141.0352	2.31E-04	1368.	2850053.	215.7531	152243.	0.00
16.4000	-2.39E-04	-255.9386	-99.0794	2.14E-04	1509.	2850053.	203.8053	170620.	0.00
16.6000	-1.98E-04	-271.6784	-59.5560	1.95E-04	1601.	2850053.	191.4282	193402.	0.00
16.8000	-1.61E-04	-279.7610	-22.5507	1.76E-04	1649.	2850053.	178.6250	222128.	0.00
17.0000	-1.28E-04	-280.6986	11.8495	1.56E-04	1655.	2850053.	165.3771	259152.	0.00
17.2000	-9.84E-05	-275.0212	43.5502	1.37E-04	1621.	2850053.	151.6292	308292.	0.00
17.4000	-7.30E-05	-263.2786	72.4392	1.18E-04	1552.	2850053.	137.2610	376237.	0.00
17.6000	-5.13E-05	-246.0455	98.3676	9.99E-05	1450.	2850053.	122.0231	476113.	0.00
17.8000	-3.30E-05	-223.9316	121.1072	8.34E-05	1320.	2850053.	105.3731	638543.	0.00
18.0000	-1.79E-05	-197.6027	140.2373	6.86E-05	1165.	2850053.	85.9283	960456.	0.00
18.2000	-5.56E-06	-167.8366	154.6504	5.58E-05	989.3343	2850053.	58.2026	2095292.	0.00
18.4000	4.43E-06	-135.7425	155.0794	4.51E-05	800.1513	2850053.	-53.9125	2435869.	0.00
18.6000	1.25E-05	-105.8048	142.0646	3.67E-05	623.6801	2850053.	-76.2362	1219432.	0.00
18.8000	1.91E-05	-78.9166	125.6608	3.02E-05	465.1842	2850053.	-87.8012	919596.	0.00
19.0000	2.46E-05	-55.5405	107.3292	2.55E-05	327.3906	2850053.	-95.5157	777181.	0.00
19.2000	2.93E-05	-35.9850	87.6513	2.23E-05	212.1181	2850053.	-101.2625	691565.	0.00
19.4000	3.35E-05	-20.4800	66.9358	2.03E-05	120.7218	2850053.	-105.8928	632480.	0.00
19.6000	3.74E-05	-9.2107	45.3596	1.92E-05	54.2934	2850053.	-109.8697	587579.	0.00
19.8000	4.12E-05	-2.3361	23.0266	1.88E-05	13.7707	2850053.	-113.4594	551033.	0.00
20.0000	4.49E-05	0.00	0.00	1.88E-05	0.00	2850053.	-116.8070	259969.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 5:

Pile-head deflection = 0.11865245 meters
Computed slope at pile head = -0.01630436 radians
Maximum bending moment = 5261. kN-m
Maximum shear force = -1198. kN
Depth of maximum bending moment = 8.60000000 meters below pile head
Depth of maximum shear force = 11.80000000 meters below pile head
Number of iterations = 24
Number of zero deflection points = 2

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 6

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 4200.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.9465	-1.42E-07	4200.	-0.1087	8.39E-07	2850053.	0.00	0.00	0.00
0.2000	0.9247	840.0000	4199.	-0.1087	4951.	2850053.	-6.6440	1.4369	0.00
0.4000	0.9030	1680.	4197.	-0.1086	9901.	2850053.	-12.4356	2.7543	0.00
0.6000	0.8813	2519.	4194.	-0.1085	14848.	2850053.	-18.3291	4.1596	0.00
0.8000	0.8596	3357.	4190.	-0.1083	19791.	2850053.	-24.1833	5.6266	0.00
1.0000	0.8380	4195.	4185.	-0.1080	24728.	2850053.	-29.9173	7.1404	0.00
1.2000	0.8164	5031.	4178.	-0.1077	29658.	2850053.	-35.4895	8.6941	0.00
1.4000	0.7949	5866.	4171.	-0.1073	34579.	2850053.	-40.8837	10.2865	0.00
1.6000	0.7735	6700.	4162.	-0.1069	39491.	2850053.	-46.1000	11.9201	0.00
1.8000	0.7522	7531.	4152.	-0.1064	44392.	2850053.	-51.1483	13.6005	0.00
2.0000	0.7309	8360.	4141.	-0.1058	49281.	2850053.	-56.0441	15.3349	0.00
2.2000	0.7098	9188.	4116.	-0.1052	54157.	2850053.	-196.6153	55.3975	0.00

2.4000	0.6889	10007.	4076.	-0.1045	58987.	2850053.	-203.2753	59.0178	0.00
2.6000	0.6680	10818.	4035.	-0.1038	63768.	2850053.	-209.9353	62.8522	0.00
2.8000	0.6473	11621.	3992.	-0.1030	68500.	2850053.	-216.5953	66.9178	0.00
3.0000	0.6268	12415.	3948.	-0.1022	73181.	2850053.	-223.2553	71.2332	0.00
3.2000	0.6065	13200.	3903.	-0.1013	77809.	2850053.	-229.9153	75.8188	0.00
3.4000	0.5863	13976.	3856.	-0.1003	82383.	2850053.	-236.5753	80.6973	0.00
3.6000	0.5664	14742.	3808.	-0.09929	86901.	2850053.	-243.2353	85.8934	0.00
3.8000	0.5466	15499.	3759.	-0.09823	91362.	2850053.	-249.8953	91.4345	0.00
4.0000	0.5271	16246.	3708.	-0.09712	95764.	2850053.	-256.5553	97.3510	0.00
4.2000	0.5078	16983.	3656.	-0.09595	100106.	2850053.	-263.2153	103.6764	0.00
4.4000	0.4887	17709.	3603.	-0.09474	104385.	2850053.	-269.8753	110.4481	0.00
4.6000	0.4699	18424.	3548.	-0.09347	108601.	2850053.	-276.5353	117.7074	0.00
4.8000	0.4513	19128.	3492.	-0.09215	112752.	2850053.	-283.1953	125.5007	0.00
5.0000	0.4330	19821.	3435.	-0.09078	116836.	2850053.	-289.8553	133.8796	0.00
5.2000	0.4150	20502.	3376.	-0.08937	120851.	2850053.	-296.5153	142.9019	0.00
5.4000	0.3973	21171.	3316.	-0.08791	124797.	2850053.	-303.1753	152.6326	0.00
5.6000	0.3798	21828.	3255.	-0.08640	128671.	2850053.	-309.8354	163.1447	0.00
5.8000	0.3627	22473.	3193.	-0.08484	132472.	2850053.	-316.4954	174.5206	0.00
6.0000	0.3459	23105.	3129.	-0.08324	136198.	2850053.	-318.8775	184.3800	0.00
6.2000	0.3294	23725.	3065.	-0.08160	139849.	2850053.	-320.1942	194.4076	0.00
6.4000	0.3133	24332.	3001.	-0.07991	143425.	2850053.	-321.2305	205.0944	0.00
6.6000	0.2974	24925.	2937.	-0.07819	146925.	2850053.	-321.9813	216.5023	0.00
6.8000	0.2820	25506.	2872.	-0.07642	150349.	2850053.	-322.4415	228.7007	0.00
7.0000	0.2669	26074.	2808.	-0.07461	153697.	2850053.	-322.6058	241.7678	0.00
7.2000	0.2521	26629.	2743.	-0.07276	156969.	2850053.	-322.4687	255.7916	0.00
7.4000	0.2378	27171.	2679.	-0.07087	160165.	2850053.	-322.0246	270.8715	0.00
7.6000	0.2238	27701.	2614.	-0.06894	163285.	2850053.	-321.2678	287.1207	0.00
7.8000	0.2102	28217.	2550.	-0.06698	166329.	2850053.	-320.1924	304.6676	0.00
8.0000	0.1970	28721.	2486.	-0.06499	169298.	2850053.	-318.7924	323.6591	0.00
8.2000	0.1842	29212.	2423.	-0.06295	172192.	2850053.	-317.0619	344.2634	0.00
8.4000	0.1718	29690.	2360.	-0.06089	175011.	2850053.	-314.9946	366.6740	0.00
8.6000	0.1598	30155.	2182.	-0.05879	177755.	2850053.	-1459.	1826.	0.00
8.8000	0.1483	30563.	1883.	-0.05666	180156.	2850053.	-1534.	2068.	0.00
9.0000	0.1372	30909.	1569.	-0.05450	182195.	2850053.	-1609.	2346.	0.00
9.2000	0.1265	31190.	1239.	-0.05232	183854.	2850053.	-1686.	2666.	0.00
9.4000	0.1163	31404.	893.9041	-0.05012	185116.	2850053.	-1765.	3036.	0.00
9.6000	0.1064	31548.	532.3688	-0.04791	185962.	2850053.	-1851.	3477.	0.00
9.8000	0.09709	31617.	153.3406	-0.04570	186371.	2850053.	-1940.	3996.	0.00
10.0000	0.08817	31609.	-243.6750	-0.04348	186323.	2850053.	-2031.	4606.	0.00
10.2000	0.07969	31520.	-659.0891	-0.04127	185797.	2850053.	-2124.	5329.	0.00
10.4000	0.07166	31345.	-1093.	-0.03906	184769.	2850053.	-2219.	6192.	0.00
10.6000	0.06407	31082.	-1547.	-0.03687	183219.	2850053.	-2316.	7229.	0.00
10.8000	0.05692	30727.	-2020.	-0.03470	181122.	2850053.	-2415.	8486.	0.00
11.0000	0.05019	30274.	-2513.	-0.03256	178456.	2850053.	-2516.	10027.	0.00

11.2000	0.04389	29721.	-3022.	-0.03045	175197.	2850053.	-2569.	11708.	0.00
11.4000	0.03801	29066.	-3518.	-0.02839	171332.	2850053.	-2396.	12607.	0.00
11.6000	0.03253	28314.	-3980.	-0.02638	166902.	2850053.	-2222.	13662.	0.00
11.8000	0.02746	27474.	-4407.	-0.02442	161948.	2850053.	-2050.	14935.	0.00
12.0000	0.02277	26551.	-4800.	-0.02253	156511.	2850053.	-1881.	16522.	0.00
12.2000	0.01845	25554.	-5160.	-0.02070	150630.	2850053.	-1713.	18572.	0.00
12.4000	0.01449	24488.	-5484.	-0.01894	144345.	2850053.	-1533.	21163.	0.00
12.6000	0.01087	23360.	-5771.	-0.01726	137699.	2850053.	-1334.	24534.	0.00
12.8000	0.00758	22179.	-6015.	-0.01567	130738.	2850053.	-1109.	29251.	0.00
13.0000	0.00460	20954.	-6211.	-0.01415	123516.	2850053.	-847.1764	36798.	0.00
13.2000	0.00192	19695.	-6347.	-0.01273	116094.	2850053.	-514.8647	53599.	0.00
13.4000	-4.86E-04	18415.	-6381.	-0.01139	108551.	2850053.	170.6216	70256.	0.00
13.6000	-0.00263	17142.	-6298.	-0.01014	101048.	2850053.	665.8370	50554.	0.00
13.8000	-0.00454	15896.	-6135.	-0.00898	93702.	2850053.	957.3045	42154.	0.00
14.0000	-0.00623	14688.	-5920.	-0.00791	86582.	2850053.	1197.	38436.	0.00
14.2000	-0.00771	13528.	-5660.	-0.00692	79744.	2850053.	1405.	36463.	0.00
14.4000	-0.00899	12424.	-5360.	-0.00601	73237.	2850053.	1591.	35377.	0.00
14.6000	-0.01011	11384.	-5025.	-0.00517	67105.	2850053.	1760.	34820.	0.00
14.8000	-0.01106	10414.	-4658.	-0.00441	61388.	2850053.	1915.	34615.	0.00
15.0000	-0.01187	9521.	-4261.	-0.00371	56123.	2850053.	2058.	34664.	0.00
15.2000	-0.01255	8710.	-3836.	-0.00307	51342.	2850053.	2190.	34905.	0.00
15.4000	-0.01310	7987.	-3539.	-0.00248	47078.	2850053.	774.2201	11821.	0.00
15.6000	-0.01354	7294.	-3384.	-0.00195	42997.	2850053.	782.8026	11564.	0.00
15.8000	-0.01388	6633.	-3226.	-0.00146	39100.	2850053.	789.2648	11375.	0.00
16.0000	-0.01412	6004.	-3068.	-0.00101	35389.	2850053.	793.8823	11243.	0.00
16.2000	-0.01428	5406.	-2909.	-6.14E-04	31866.	2850053.	796.8827	11159.	0.00
16.4000	-0.01437	4840.	-2750.	-2.54E-04	28530.	2850053.	798.4578	11115.	0.00
16.6000	-0.01438	4306.	-2590.	6.65E-05	25383.	2850053.	798.7712	11106.	0.00
16.8000	-0.01434	3804.	-2430.	3.51E-04	22424.	2850053.	797.9651	11128.	0.00
17.0000	-0.01424	3334.	-2271.	6.01E-04	19653.	2850053.	796.1639	11179.	0.00
17.2000	-0.01410	2896.	-2112.	8.20E-04	17070.	2850053.	793.4778	11255.	0.00
17.4000	-0.01392	2489.	-1953.	0.00101	14674.	2850053.	790.0050	11354.	0.00
17.6000	-0.01370	2114.	-1796.	0.00117	12464.	2850053.	785.8339	11475.	0.00
17.8000	-0.01345	1771.	-1639.	0.00131	10439.	2850053.	781.0439	11616.	0.00
18.0000	-0.01317	1459.	-1484.	0.00142	8599.	2850053.	775.7070	11776.	0.00
18.2000	-0.01288	1178.	-1329.	0.00151	6941.	2850053.	769.8878	11955.	0.00
18.4000	-0.01257	927.1662	-1176.	0.00159	5465.	2850053.	763.6448	12151.	0.00
18.6000	-0.01225	707.3216	-1024.	0.00164	4169.	2850053.	757.0300	12364.	0.00
18.8000	-0.01191	517.7581	-872.8083	0.00169	3052.	2850053.	750.0892	12594.	0.00
19.0000	-0.01157	358.1983	-723.5131	0.00172	2111.	2850053.	742.8620	12840.	0.00
19.2000	-0.01122	228.3529	-575.6888	0.00174	1346.	2850053.	735.3816	13103.	0.00
19.4000	-0.01088	127.9228	-429.3832	0.00175	754.0571	2850053.	727.6744	13382.	0.00
19.6000	-0.01052	56.5996	-284.6398	0.00176	333.6337	2850053.	719.7595	13678.	0.00
19.8000	-0.01017	14.0669	-141.4990	0.00176	82.9188	2850053.	711.6480	13992.	0.00

20.0000	-0.00982	0.00	0.00	0.00176	0.00	2850053.	703.3425	7162.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 6:

Pile-head deflection = 0.94648175 meters
Computed slope at pile head = -0.10874402 radians
Maximum bending moment = 31617. kN-m
Maximum shear force = -6381. kN
Depth of maximum bending moment = 9.80000000 meters below pile head
Depth of maximum shear force = 13.40000000 meters below pile head
Number of iterations = 40
Number of zero deflection points = 1

Summary of Pile-head Responses for Conventional Analyses

Definitions of Pile-head Loading Conditions:

Load Type 1: Load 1 = Shear, V, kN, and Load 2 = Moment, M, kN-m
Load Type 2: Load 1 = Shear, V, kN, and Load 2 = Slope, S, radians
Load Type 3: Load 1 = Shear, V, kN, and Load 2 = Rot. Stiffness, R, kN-m/rad.
Load Type 4: Load 1 = Top Deflection, y, m, and Load 2 = Moment, M, kN-m
Load Type 5: Load 1 = Top Deflection, y, m, and Load 2 = Slope, S, radians

Load Case No.	Load Type	Pile-head Load 1	Load Type 2	Pile-head Load 2	Axial Loading kN	Pile-head Deflection meters	Pile-head Rotation radians	Max Shear in Pile kN	Max Moment in Pile kN-m
1	V, kN	100.0000	M, kN-m	0.00	0.00	6.54E-04	-2.10E-04	100.0000	131.1232
2	V, kN	300.0000	M, kN-m	0.00	0.00	0.00388	-9.53E-04	300.0000	439.2928
3	V, kN	500.0000	M, kN-m	0.00	0.00	0.01132	-0.00231	500.0000	892.9523
4	V, kN	750.0000	M, kN-m	0.00	0.00	0.05829	-0.00875	750.0000	2823.
5	V, kN	1000.0000	M, kN-m	0.00	0.00	0.1187	-0.01630	-1198.	5261.
6	V, kN	4200.	M, kN-m	0.00	0.00	0.9465	-0.1087	-6381.	31617.

Maximum pile-head deflection = 0.9464817457 meters
Maximum pile-head rotation = -0.1087440239 radians = -6.230574 deg.

Summary of Warning Messages

The following warning was reported 920 times

**** Warning ****

An unreasonable input value for shear strength has been specified for a soil defined using the soft clay criteria. The input value is greater than 59.85 kPa. Please check your input data for correctness.

The analysis ended normally.

Opera IV01 (Sp. B) – D1500

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LPile for Windows, Version 2016-09.009

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method
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Files Used for Analysis

Path to file locations:
\m9159\Work\07_Pali\IV01\LPILE\

Name of input data file:
IV01_SpB_D1500.lp9d

Name of output report file:
IV01_SpB_D1500.lp9o

Name of plot output file:
IV01_SpB_D1500.lp9p

Name of runtime message file:
IV01_SpB_D1500.lp9r

Date and Time of Analysis

Date: June 10, 2019 Time: 15:32:25

Problem Title

Project Name: VI02 - Spalle e pila
Job Number:
Client:
Engineer:
Description:

Program Options and Settings

Computational Options:
- Use unfactored loads in computations (conventional analysis)

Engineering Units Used for Data Input and Computations:
- International System Units (kilonewtons, meters, millimeters)

Analysis Control Options:
- Maximum number of iterations allowed = 500
- Deflection tolerance for convergence = 2.5400E-07 m
- Maximum allowable deflection = 2.5400 m
- Number of pile increments = 100

Loading Type and Number of Cycles of Loading:
- Static loading specified

- Use of p-y modification factors for p-y curves not selected
- No distributed lateral loads are entered
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected

- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:
- Output files use decimal points to denote decimal symbols.
- Values of pile-head deflection, bending moment, shear force, and soil reaction are printed for full length of pile.
- Printing Increment (nodal spacing of output points) = 1
- p-y curves computed and reported at user-specified depths
- Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined = 1
Total length of pile = 20.000 m
Depth of ground surface below top of pile = 0.0000 m

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point	Depth Below Pile Head meters	Pile Diameter millimeters
1	0.000	1500.00
2	20.000	1500.00

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is an elastic pile
Cross-sectional Shape = Circular Pile
Length of section = 20.000000 m

Width of top of section = 1.500000 m
Width of bottom of section = 1.500000 m
Top Area = 1.767146 sq. m
Bottom Area = 1.767146 sq. m
Moment of Inertia at Top = 0.248505 m^4
Moment of Inertia at Bottom = 0.248505 m^4
Elastic Modulus = 28000000. kPa

Ground Slope and Pile Batter Angles

Ground Slope Angle = 0.000 degrees
= 0.000 radians

Pile Batter Angle = 0.000 degrees
= 0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 4 layers

Layer 1 is stiff clay with water-induced erosion

Distance from top of pile to top of layer = 0.0000 m
Distance from top of pile to bottom of layer = 2.100000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 80.000000 kPa
Undrained cohesion at bottom of layer = 80.000000 kPa
Epsilon-50 at top of layer = 0.007000
Epsilon-50 at bottom of layer = 0.007000
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 2 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 2.100000 m
Distance from top of pile to bottom of layer = 8.500000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 45.000000 kPa
Undrained cohesion at bottom of layer = 45.000000 kPa
Epsilon-50 at top of layer = 0.015000
Epsilon-50 at bottom of layer = 0.015000

Layer 3 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer = 8.500000 m
Distance from top of pile to bottom of layer = 15.400000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Friction angle at top of layer = 36.000000 deg.
Friction angle at bottom of layer = 36.000000 deg.
Subgrade k at top of layer = 0.0000 kN/m3
Subgrade k at bottom of layer = 0.0000 kN/m3

NOTE: Default values for subgrade k will be computed for this layer.

Layer 4 is soft clay, p-y criteria by Matlock, 1970

Distance from top of pile to top of layer = 15.400000 m
Distance from top of pile to bottom of layer = 20.000000 m
Effective unit weight at top of layer = 9.000000 kN/m3
Effective unit weight at bottom of layer = 9.000000 kN/m3
Undrained cohesion at top of layer = 150.000000 kPa
Undrained cohesion at bottom of layer = 150.000000 kPa
Epsilon-50 at top of layer = 0.005000
Epsilon-50 at bottom of layer = 0.005000

(Depth of the lowest soil layer extends 0.000 m below the pile tip)

Summary of Input Soil Properties

Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth m	Effective Unit Wt. kN/m3	Undrained Cohesion kPa	Angle of Friction deg.	E50 or krm	kpy kN/m3
1	Stiff Clay	0.00	9.0000	80.0000	--	0.00700	default
	with Free Water	2.1000	9.0000	80.0000	--	0.00700	default
2	Soft	2.1000	9.0000	45.0000	--	0.01500	--
	Clay	8.5000	9.0000	45.0000	--	0.01500	--
3	Sand	8.5000	9.0000	--	36.0000	--	default
	(Reese, et al.)	15.4000	9.0000	--	36.0000	--	default
4	Soft	15.4000	9.0000	150.0000	--	0.00500	--
	Clay	20.0000	9.0000	150.0000	--	0.00500	--

Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 6

Load No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, kN	Compute Top y vs. Pile Length
1	1	V = 200.000000 kN	M = 0.0000 m-kN	0.0000000	No
2	1	V = 600.000000 kN	M = 0.0000 m-kN	0.0000000	No
3	1	V = 1000.000000 kN	M = 0.0000 m-kN	0.0000000	No
4	1	V = 1250. kN	M = 0.0000 m-kN	0.0000000	No
5	1	V = 1500. kN	M = 0.0000 m-kN	0.0000000	No
6	1	V = 6000. kN	M = 0.0000 m-kN	0.0000000	No

V = shear force applied normal to pile axis

M = bending moment applied to pile head

y = lateral deflection normal to pile axis

S = pile slope relative to original pile batter angle

R = rotational stiffness applied to pile head

Values of top y vs. pile lengths can be computed only for load types with

specified shear loading (Load Types 1, 2, and 3).

Thrust force is assumed to be acting axially for all pile batter angles.

Specified Depths for Output of p-y Curves

Lateral load-transfer (p-y) curves are computed and output at 8 depths.
(Note that load-transfer values are computeded at the specified depths and
may differ from values computed at nodal points)

Depth No.	Depth Below Pile Head m	Depth Below Ground Surface m
1	0.200	0.200
2	1.900	1.900
3	2.300	2.300
4	8.300	8.300
5	8.700	8.700
6	15.200	15.200
7	15.600	15.600
8	19.800	19.800

Depth of ground surface below top of pile = 0.0000 m

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

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Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Moment-curvature properties were derived from elastic section properties

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Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head meters	Equivalent Top Depth Below Grnd Surf meters	Same Layer Type As Layer Above	Layer is Rock or is Below Rock Layer	F0 Integral for Layer kN	F1 Integral for Layer kN
1	0.00	0.00	N.A.	No	0.00	66.0690
2	2.1000	0.3173	No	No	66.0690	2262.
3	8.5000	4.9165	No	No	2328.	22003.
4	15.4000	15.4000	No	No	24331.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals for Layer n. Layering correction equivalent depths are computed only for soil types with both shallow-depth and deep-depth expressions for peak lateral load transfer. These soil types are soft and stiff clays, non-liquefied sands, and cemented c-phi soil.

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p-y Curves Reported for Specified Depths

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p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 0.200 m
Depth of p-y curve below ground surface = 0.200 m
Equivalent depth of p-y curve = 0.200 m
Pile diameter = 1500.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa
Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees

k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.011 m
As = 0.27257
Ac (not used) = 0.21914
pct = 287.980 kN/m
pcd = 1320.000 kN/m
pc = 287.980 kN/m
pu = 6.909 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00143	38.84380
0.00286	75.17456
0.00429	85.41022
0.00572	90.47399
0.00715	92.56848
0.00859	92.53470
0.01002	90.84782
0.01145	87.81363
0.01288	83.64474
0.01431	78.49708
0.01574	72.48962
0.01717	65.71592
0.02862	46.15590
0.04007	26.53227
0.05152	6.90863
0.05438	6.90863

p-y Curve Computed Using Static Criteria for Stiff Clay with Free Water

Soil Layer Number = 1
Depth of top of Layer 1 below pile head = 0.000 m
Depth of p-y curve below pile head = 1.900 m
Depth of p-y curve below ground surface = 1.900 m
Equivalent depth of p-y curve = 1.900 m
Pile diameter = 1500.000 mm
Undrained cohesion at curve depth = 80.000 kPa
Average cohesion between ground surface and depth = 80.00000 kPa

Average Eff. Unit Weight = 9.00000 kN/m3
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
k = 135723.550 kN/m3
Epsilon50 = 0.00700
y50 = 0.011 m
As = 0.49717
Ac (not used) = 0.29760
pct = 695.810 kN/m
pcd = 1320.000 kN/m
pc = 695.810 kN/m
pu = 55.452 kN/m
p-multiplier = 1.00000
y-multiplier = 1.00000
Sloping Ground Factor = 1.000

y, meters	p, kN/m
0.00000	0.00000
0.00261	173.45998
0.00522	245.30946
0.00783	284.35114
0.01044	308.65041
0.01305	324.33998
0.01566	333.86760
0.01827	338.62844
0.02088	339.52223
0.02349	337.17448
0.02610	332.04336
0.02871	324.47773
0.03132	314.75138
0.05220	228.42066
0.07308	141.93623
0.09397	55.45181
0.09919	55.45181

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2

Depth of top of Layer 2 below pile head = 2.100 m
Depth of p-y curve below pile head = 2.300 m
Depth of p-y curve below ground surface = 2.300 m
Equiv. depth of p-y curve below ground surface = 0.517 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1500.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 11.250 m
Static pu_s for flat ground = 245.190 kN/m
Static pu_d for flat ground = 607.500 kN/m
y_50 = 0.05625 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 245.190 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00013333	16.34597
0.00107	32.69194
0.00360	49.03792
0.00853	65.38389
0.01667	81.72986
0.02880	98.07583
0.04573	114.42180
0.06827	130.76778
0.09720	147.11375
0.13333	163.45972
0.17747	179.80569
0.23040	196.15166
0.29293	212.49764
0.36587	228.84361
0.45000	245.18958
0.47812	245.18958

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 2
Depth of top of Layer 2 below pile head = 2.100 m
Depth of p-y curve below pile head = 8.300 m
Depth of p-y curve below ground surface = 8.300 m
Equiv. depth of p-y curve below ground surface = 6.517 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1500.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 45.000 kPa
Epsilon_50 = 0.0150
J (default value) = 0.5000
Transition depth Xr = 11.250 m
Static pu_s for flat ground = 461.190 kN/m
Static pu_d for flat ground = 607.500 kN/m
y_50 = 0.05625 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 461.190 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00013333	30.74597
0.00107	61.49194
0.00360	92.23792
0.00853	122.98389
0.01667	153.72986
0.02880	184.47583
0.04573	215.22180
0.06827	245.96778
0.09720	276.71375
0.13333	307.45972
0.17747	338.20569
0.23040	368.95166
0.29293	399.69764
0.36587	430.44361
0.45000	461.18958

0.47812 461.18958

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 8.500 m
Depth of p-y curve below pile head = 8.700 m
Depth of p-y curve below ground surface = 8.700 m
Equiv. depth of p-y curve below ground surface = 5.116 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 1500.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3
K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 1721.422 kN/m
Psd = 7188.017 kN/m
Ps = Pst (shallow controls) = 1721.422 kN/m
A (static) = 0.9942
B (static) = 0.6360
C = Pm/(Ym^(1/n)) = 5770.4155
n = Pm/(m Ym) = 2.2194
m = (Pu-Pm)/(Yu-Ym) = 19732.7052
Yk = [c/(kx)]^(n/(n-1)) = 0.0012 m
Pk = 282.913 kN/m
Ym = b/60 = 0.0250 m
Pm = B ps = 1094.865 kN/m
Yu = 3b/80 = 0.0563 m
Pu = A Ps = 1711.512 kN/m
Maximum Es value = 228069.029 kN/m/m
p-multiplier = 1.00000
y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters	p, kN/m
0.00000	0.00000
0.00124	282.91285
0.00340	445.63601
0.00556	556.17307
0.00772	644.80892
0.00988	720.61389
0.01204	787.75552
0.01420	848.55345
0.01636	904.45368
0.01852	956.42851
0.02068	1005.16825
0.02284	1051.18364
0.02500	1094.86484
0.04063	1403.18836
0.05625	1711.51188
0.06750	1711.51188
0.07875	1711.51188

The above p-y curve was computed using internal default values of k.

p-y Curve in Sand for Static Loading Conditions Computed Using Reese Criteria

Soil Layer Number = 3
Depth of top of Layer 3 below pile head = 8.500 m
Depth of p-y curve below pile head = 15.200 m
Depth of p-y curve below ground surface = 15.200 m
Equiv. depth of p-y curve below ground surface = 11.616 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile Diameter = 1500.000 mm
Angle of Friction = 36.000 degrees
Average Effective Unit Weight = 9.000 kN/m3
k_py = 26214.831 kN/m3
K active = 0.260
K passive = 3.852
K0 = 0.400
Pst = 5891.896 kN/m
Psd = 12558.375 kN/m

Ps = Pst (shallow controls) = 5891.896 kN/m
A (static) = 0.8800
B (static) = 0.5000
C = Pm/(Ym^(1/n)) = 27750.9290
n = Pm/(m Ym) = 1.6447
m = (Pu-Pm)/(Yu-Ym) = 71645.4511
Yk = [c/(kx)]^(n/(n-1)) = 0.0011 m
Pk = 445.217 kN/m
Ym = b/60 = 0.0250 m
Pm = B ps = 2945.948 kN/m
Yu = 3b/80 = 0.0563 m
Pu = A Ps = 5184.868 kN/m
Maximum Es value = 398465.430 kN/m/m
p-multiplier = 1.00000
y-multiplier = 1.00000

This p-y curve is computed using the equivalent depth.

This curve has the normal shape where Yk < Ym < Yu.

y, meters	p, kN/m
0.00000	0.00000
0.00112	445.21671
0.00329	858.24372
0.00546	1168.08075
0.00763	1431.79085
0.00980	1667.22857
0.01197	1882.89839
0.01414	2083.67478
0.01632	2272.67228
0.01849	2452.03017
0.02066	2623.29608
0.02283	2787.63428
0.02500	2945.94783
0.04063	4065.40800
0.05625	5184.86817
0.06750	5184.86817
0.07875	5184.86817

The above p-y curve was computed using internal default values of k.

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 4
Depth of top of Layer 4 below pile head = 15.400 m
Depth of p-y curve below pile head = 15.600 m
Depth of p-y curve below ground surface = 15.600 m
Equiv. depth of p-y curve below ground surface = 15.600 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1500.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 150.000 kPa
Epsilon_50 = 0.0050
J (default value) = 0.5000
Transition depth Xr = 15.254 m
Static pu_s for flat ground = 2055.600 kN/m
Static pu_d for flat ground = 2025.000 kN/m
y_50 = 0.01875 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 2025.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00004444	135.00000
0.00035556	270.00000
0.00120	405.00000
0.00284	540.00000
0.00556	675.00000
0.00960	810.00000
0.01524	945.00000
0.02276	1080.00000
0.03240	1215.00000
0.04444	1350.00000
0.05916	1485.00000
0.07680	1620.00000

0.09764	1755.00000
0.12196	1890.00000
0.15000	2025.00000
0.15938	2025.00000

p-y Curve Computed Using the Soft Clay Criteria for Static Loading

Soil Layer Number = 4
Depth of top of Layer 4 below pile head = 15.400 m
Depth of p-y curve below pile head = 19.800 m
Depth of p-y curve below ground surface = 19.800 m
Equiv. depth of p-y curve below ground surface = 19.800 m
Ground slope angle = 0.000 degrees
Pile batter angle = 0.000 degrees
Effective slope angle = 0.000 degrees
Pile diameter = 1500.000 mm
Average effective unit weight = 9.00000 kN/m3
Undrained cohesion = 150.000 kPa
Epsilon_50 = 0.0050
J (default value) = 0.5000
Transition depth Xr = 15.254 m
Static pu_s for flat ground = 2427.300 kN/m
Static pu_d for flat ground = 2025.000 kN/m
y_50 = 0.01875 m
p-multiplier = 1.000
y-multiplier = 1.000
Positive-y Sloping Ground Factor = 1.000
Negative-y Sloping Ground Factor = 1.000
Sloping Ground Factor = 1.000
Positive-y, static pu = 2025.000 kN/m

y, meters	p, kN/m
0.00000	0.00000
0.00004444	135.00000
0.00035556	270.00000
0.00120	405.00000
0.00284	540.00000
0.00556	675.00000
0.00960	810.00000
0.01524	945.00000
0.02276	1080.00000
0.03240	1215.00000

0.04444	1350.00000
0.05916	1485.00000
0.07680	1620.00000
0.09764	1755.00000
0.12196	1890.00000
0.15000	2025.00000
0.15938	2025.00000

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 1

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 200.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00136	-3.77E-10	200.0000	-3.13E-04	1.14E-09	6958137.	0.00	0.00	0.00
0.2000	0.00130	40.0000	196.4823	-3.12E-04	120.7220	6958137.	-35.1766	5429.	0.00
0.4000	0.00123	78.5929	187.2068	-3.10E-04	237.1974	6958137.	-57.5788	9335.	0.00
0.6000	0.00117	114.8827	175.0357	-3.07E-04	346.7217	6958137.	-64.1320	10946.	0.00
0.8000	0.00111	148.6072	161.5987	-3.04E-04	448.5040	6958137.	-70.2384	12648.	0.00
1.0000	0.00105	179.5222	146.9856	-2.99E-04	541.8069	6958137.	-75.8926	14451.	0.00
1.2000	9.91E-04	207.4015	131.2873	-2.93E-04	625.9479	6958137.	-81.0906	16365.	0.00
1.4000	9.33E-04	232.0371	114.5953	-2.87E-04	700.2995	6958137.	-85.8298	18399.	0.00
1.6000	8.76E-04	253.2396	97.0014	-2.80E-04	764.2895	6958137.	-90.1090	20568.	0.00
1.8000	8.21E-04	270.8377	78.5977	-2.73E-04	817.4014	6958137.	-93.9279	22883.	0.00
2.0000	7.67E-04	284.6786	59.4762	-2.65E-04	859.1742	6958137.	-97.2868	25362.	0.00
2.2000	7.15E-04	294.6282	46.9282	-2.56E-04	889.2023	6958137.	-28.1935	7885.	0.00
2.4000	6.65E-04	303.4499	41.2753	-2.48E-04	915.8268	6958137.	-28.3350	8526.	0.00
2.6000	6.16E-04	311.1383	35.5993	-2.39E-04	939.0307	6958137.	-28.4255	9229.	0.00
2.8000	5.69E-04	317.6896	29.9103	-2.30E-04	958.8030	6958137.	-28.4642	10002.	0.00
3.0000	5.24E-04	323.1024	24.2189	-2.21E-04	975.1390	6958137.	-28.4503	10857.	0.00
3.2000	4.81E-04	327.3772	18.5356	-2.11E-04	988.0405	6958137.	-28.3826	11804.	0.00

3.4000	4.40E-04	330.5167	12.8713	-2.02E-04	997.5156	6958137.	-28.2602	12857.	0.00
3.6000	4.00E-04	332.5257	7.2371	-1.92E-04	1004.	6958137.	-28.0818	14034.	0.00
3.8000	3.63E-04	333.4115	1.6443	-1.83E-04	1006.	6958137.	-27.8463	15355.	0.00
4.0000	3.27E-04	333.1834	-3.8955	-1.73E-04	1006.	6958137.	-27.5520	16845.	0.00
4.2000	2.93E-04	331.8533	-9.3704	-1.64E-04	1002.	6958137.	-27.1972	18535.	0.00
4.4000	2.62E-04	329.4353	-14.7682	-1.54E-04	994.2518	6958137.	-26.7799	20465.	0.00
4.6000	2.32E-04	325.9460	-20.0759	-1.45E-04	983.7212	6958137.	-26.2976	22685.	0.00
4.8000	2.04E-04	321.4049	-25.2804	-1.35E-04	970.0158	6958137.	-25.7472	25259.	0.00
5.0000	1.78E-04	315.8339	-30.3676	-1.26E-04	953.2022	6958137.	-25.1249	28274.	0.00
5.2000	1.53E-04	309.2579	-35.3227	-1.17E-04	933.3554	6958137.	-24.4256	31846.	0.00
5.4000	1.31E-04	301.7048	-40.1295	-1.08E-04	910.5600	6958137.	-23.6428	36137.	0.00
5.6000	1.10E-04	293.2061	-44.7705	-9.98E-05	884.9103	6958137.	-22.7675	41381.	0.00
5.8000	9.09E-05	283.7966	-49.2260	-9.16E-05	856.5121	6958137.	-21.7874	47931.	0.00
6.0000	7.34E-05	273.5156	-53.4732	-8.35E-05	825.4837	6958137.	-20.6841	56348.	0.00
6.2000	5.75E-05	262.4073	-57.4846	-7.58E-05	791.9582	6958137.	-19.4302	67593.	0.00
6.4000	4.31E-05	250.5218	-61.2257	-6.85E-05	756.0871	6958137.	-17.9803	83479.	0.00
6.6000	3.01E-05	237.9171	-64.6490	-6.15E-05	718.0454	6958137.	-16.2528	107981.	0.00
6.8000	1.85E-05	224.6622	-67.6817	-5.48E-05	678.0416	6958137.	-14.0741	152184.	0.00
7.0000	8.18E-06	210.8444	-70.1824	-4.85E-05	636.3388	6958137.	-10.9338	267302.	0.00
7.2000	-9.22E-07	196.5892	-70.7559	-4.27E-05	593.3160	6958137.	5.1989	1127332.	0.00
7.4000	-8.90E-06	182.5420	-69.0802	-3.72E-05	550.9208	6958137.	11.5579	259862.	0.00
7.6000	-1.58E-05	168.9571	-66.4987	-3.22E-05	509.9210	6958137.	14.2576	180258.	0.00
7.8000	-2.18E-05	155.9426	-63.4600	-2.75E-05	470.6423	6958137.	16.1289	148165.	0.00
8.0000	-2.68E-05	143.5731	-60.0895	-2.32E-05	433.3108	6958137.	17.5768	131036.	0.00
8.2000	-3.11E-05	131.9068	-56.4564	-1.93E-05	398.1011	6958137.	18.7538	120766.	0.00
8.4000	-3.45E-05	120.9906	-52.6075	-1.56E-05	365.1555	6958137.	19.7357	114309.	0.00
8.6000	-3.73E-05	110.8638	-49.7928	-1.23E-05	334.5924	6958137.	8.4108	45090.	0.00
8.8000	-3.94E-05	101.0734	-48.0417	-9.24E-06	305.0446	6958137.	9.1000	46138.	0.00
9.0000	-4.10E-05	91.6471	-46.1643	-6.48E-06	276.5955	6958137.	9.6745	47187.	0.00
9.2000	-4.20E-05	82.6077	-44.1830	-3.97E-06	249.3142	6958137.	10.1383	48235.	0.00
9.4000	-4.26E-05	73.9739	-42.1196	-1.72E-06	223.2569	6958137.	10.4958	49284.	0.00
9.6000	-4.27E-05	65.7599	-39.9948	2.88E-07	198.4666	6958137.	10.7522	50332.	0.00
9.8000	-4.25E-05	57.9760	-37.8283	2.07E-06	174.9744	6958137.	10.9129	51381.	0.00
10.0000	-4.19E-05	50.6286	-35.6386	3.63E-06	152.7996	6958137.	10.9836	52430.	0.00
10.2000	-4.10E-05	43.7205	-33.4432	4.98E-06	131.9507	6958137.	10.9704	53478.	0.00
10.4000	-3.99E-05	37.2513	-31.2582	6.15E-06	112.4263	6958137.	10.8795	54527.	0.00
10.6000	-3.86E-05	31.2172	-29.0985	7.13E-06	94.2152	6958137.	10.7174	55575.	0.00
10.8000	-3.71E-05	25.6119	-26.9778	7.95E-06	77.2979	6958137.	10.4904	56624.	0.00
11.0000	-3.54E-05	20.4261	-24.9082	8.61E-06	61.6471	6958137.	10.2051	57673.	0.00
11.2000	-3.36E-05	15.6486	-22.9009	9.13E-06	47.2282	6958137.	9.8679	58721.	0.00
11.4000	-3.17E-05	11.2658	-20.9656	9.51E-06	34.0007	6958137.	9.4851	59770.	0.00
11.6000	-2.98E-05	7.2624	-19.1108	9.78E-06	21.9182	6958137.	9.0631	60818.	0.00
11.8000	-2.78E-05	3.6215	-17.3437	9.94E-06	10.9298	6958137.	8.6078	61867.	0.00
12.0000	-2.58E-05	0.3249	-15.6704	9.99E-06	0.9805	6958137.	8.1252	62916.	0.00

12.2000	-2.38E-05	-2.6467	-14.0958	9.96E-06	7.9878	6958137.	7.6211	63964.	0.00
12.4000	-2.18E-05	-5.3134	-12.6236	9.85E-06	16.0362	6958137.	7.1009	65013.	0.00
12.6000	-1.99E-05	-7.6961	-11.2565	9.66E-06	23.2272	6958137.	6.5701	66061.	0.00
12.8000	-1.80E-05	-9.8160	-9.9961	9.41E-06	29.6252	6958137.	6.0336	67110.	0.00
13.0000	-1.61E-05	-11.6945	-8.8431	9.10E-06	35.2947	6958137.	5.4963	68159.	0.00
13.2000	-1.43E-05	-13.3532	-7.7972	8.74E-06	40.3007	6958137.	4.9628	69207.	0.00
13.4000	-1.26E-05	-14.8134	-6.8572	8.33E-06	44.7076	6958137.	4.4376	70256.	0.00
13.6000	-1.10E-05	-16.0961	-6.0209	7.89E-06	48.5788	6958137.	3.9248	71304.	0.00
13.8000	-9.48E-06	-17.2218	-5.2856	7.41E-06	51.9762	6958137.	3.4285	72353.	0.00
14.0000	-8.04E-06	-18.2103	-4.6475	6.90E-06	54.9597	6958137.	2.9524	73402.	0.00
14.2000	-6.72E-06	-19.0808	-4.1022	6.37E-06	57.5868	6958137.	2.5003	74450.	0.00
14.4000	-5.50E-06	-19.8512	-3.6446	5.81E-06	59.9120	6958137.	2.0756	75499.	0.00
14.6000	-4.39E-06	-20.5386	-3.2689	5.23E-06	61.9866	6958137.	1.6819	76547.	0.00
14.8000	-3.41E-06	-21.1588	-2.9685	4.63E-06	63.8583	6958137.	1.3224	77596.	0.00
15.0000	-2.54E-06	-21.7260	-2.7362	4.01E-06	65.5702	6958137.	1.0004	78644.	0.00
15.2000	-1.80E-06	-22.2533	-2.5643	3.38E-06	67.1614	6958137.	0.7191	79693.	0.00
15.4000	-1.19E-06	-22.7517	1.5484	2.73E-06	68.6659	6958137.	40.4071	6773891.	0.00
15.6000	-7.12E-07	-21.6339	9.0188	2.09E-06	65.2922	6958137.	34.2974	9630320.	0.00
15.8000	-3.56E-07	-19.1442	15.2479	1.51E-06	57.7782	6958137.	27.9931	1.57E+07	0.00
16.0000	-1.10E-07	-15.5348	18.1216	1.01E-06	46.8847	6958137.	0.7442	1358277.	0.00
16.2000	4.74E-08	-11.8956	18.1638	6.14E-07	35.9014	6958137.	-0.3222	1358277.	0.00
16.4000	1.36E-07	-8.2693	16.5983	3.24E-07	24.9570	6958137.	-15.3325	2.25E+07	0.00
16.6000	1.77E-07	-5.2562	13.3422	1.30E-07	15.8636	6958137.	-17.2290	1.94E+07	0.00
16.8000	1.88E-07	-2.9324	9.8431	1.23E-08	8.8501	6958137.	-17.7620	1.89E+07	0.00
17.0000	1.82E-07	-1.3190	6.2809	-4.88E-08	3.9808	6958137.	-17.8595	1.96E+07	0.00
17.2000	1.69E-07	-0.4200	2.6945	-7.38E-08	1.2676	6958137.	-18.0044	2.14E+07	0.00
17.4000	1.53E-07	-0.2412	0.7905	-8.33E-08	0.7280	6958137.	-1.0361	1358277.	0.00
17.6000	1.35E-07	-0.1038	0.5951	-8.83E-08	0.3134	6958137.	-0.9182	1358277.	0.00
17.8000	1.17E-07	-0.00318	0.4236	-8.98E-08	0.00960	6958137.	-0.7963	1358277.	0.00
18.0000	9.93E-08	0.06562	0.2766	-8.89E-08	0.1980	6958137.	-0.6742	1358277.	0.00
18.2000	8.17E-08	0.1074	0.1537	-8.64E-08	0.3243	6958137.	-0.5547	1358277.	0.00
18.4000	6.47E-08	0.1271	0.05427	-8.31E-08	0.3836	6958137.	-0.4394	1358277.	0.00
18.6000	4.84E-08	0.1292	-0.02257	-7.94E-08	0.3898	6958137.	-0.3290	1358277.	0.00
18.8000	3.29E-08	0.1181	-0.07784	-7.58E-08	0.3563	6958137.	-0.2237	1358277.	0.00
19.0000	1.81E-08	0.09802	-0.1125	-7.27E-08	0.2958	6958137.	-0.1230	1358277.	0.00
19.2000	3.85E-09	0.07305	-0.1274	-7.03E-08	0.2205	6958137.	-0.02617	1358277.	0.00
19.4000	-9.99E-09	0.04704	-0.1233	-6.85E-08	0.1420	6958137.	0.06785	1358277.	0.00
19.6000	-2.36E-08	0.02374	-0.1005	-6.75E-08	0.07165	6958137.	0.1600	1358277.	0.00
19.8000	-3.70E-08	0.00685	-0.05935	-6.71E-08	0.02066	6958137.	0.2513	1358277.	0.00
20.0000	-5.04E-08	0.00	0.00	-6.70E-08	0.00	6958137.	0.3423	679139.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 1:

Pile-head deflection = 0.00135839 meters
Computed slope at pile head = -0.00031252 radians
Maximum bending moment = 333.41149743 kN-m
Maximum shear force = 200.00000000 kN
Depth of maximum bending moment = 3.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 16
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 2

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 600.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.00977	6.04E-10	600.0000	-0.00165	1.82E-09	6958137.	0.00	0.00	0.00
0.2000	0.00944	120.0000	590.8290	-0.00165	362.1659	6958137.	-91.7103	1944.	0.00
0.4000	0.00911	236.3316	569.9104	-0.00164	713.2604	6958137.	-117.4755	2580.	0.00
0.6000	0.00878	347.9642	543.9805	-0.00164	1050.	6958137.	-141.8237	3231.	0.00
0.8000	0.00845	453.9238	513.3115	-0.00162	1370.	6958137.	-164.8663	3901.	0.00
1.0000	0.00813	553.2887	478.1576	-0.00161	1670.	6958137.	-186.6721	4592.	0.00
1.2000	0.00781	645.1868	438.7620	-0.00159	1947.	6958137.	-207.2845	5309.	0.00
1.4000	0.00749	728.7935	395.3606	-0.00157	2200.	6958137.	-226.7293	6052.	0.00
1.6000	0.00718	803.3311	348.1857	-0.00155	2424.	6958137.	-245.0193	6825.	0.00
1.8000	0.00687	868.0678	297.4683	-0.00153	2620.	6958137.	-262.1550	7629.	0.00
2.0000	0.00657	922.3184	243.4405	-0.00150	2784.	6958137.	-278.1229	8467.	0.00
2.2000	0.00627	965.4440	209.8140	-0.00147	2914.	6958137.	-58.1417	1854.	0.00
2.4000	0.00598	1006.	198.1068	-0.00145	3037.	6958137.	-58.9305	1971.	0.00
2.6000	0.00569	1045.	186.2485	-0.00142	3153.	6958137.	-59.6528	2095.	0.00
2.8000	0.00541	1081.	174.2524	-0.00139	3262.	6958137.	-60.3076	2228.	0.00
3.0000	0.00514	1114.	162.1323	-0.00135	3363.	6958137.	-60.8941	2370.	0.00

3.2000	0.00487	1146.	149.9017	-0.00132	3457.	6958137.	-61.4114	2521.	0.00
3.4000	0.00461	1174.	137.5747	-0.00129	3544.	6958137.	-61.8585	2683.	0.00
3.6000	0.00436	1201.	125.1654	-0.00125	3624.	6958137.	-62.2347	2857.	0.00
3.8000	0.00411	1224.	112.6880	-0.00122	3695.	6958137.	-62.5390	3044.	0.00
4.0000	0.00387	1246.	100.1571	-0.00118	3760.	6958137.	-62.7706	3245.	0.00
4.2000	0.00364	1264.	87.5872	-0.00115	3816.	6958137.	-62.9285	3461.	0.00
4.4000	0.00341	1281.	74.9931	-0.00111	3865.	6958137.	-63.0118	3695.	0.00
4.6000	0.00319	1294.	62.3900	-0.00107	3907.	6958137.	-63.0196	3949.	0.00
4.8000	0.00298	1306.	49.7929	-0.00104	3941.	6958137.	-62.9509	4224.	0.00
5.0000	0.00278	1314.	37.2174	-9.99E-04	3967.	6958137.	-62.8047	4523.	0.00
5.2000	0.00258	1321.	24.6789	-9.61E-04	3986.	6958137.	-62.5798	4849.	0.00
5.4000	0.00239	1324.	12.1934	-9.23E-04	3997.	6958137.	-62.2752	5205.	0.00
5.6000	0.00221	1325.	-0.2231	-8.85E-04	4000.	6958137.	-61.8896	5596.	0.00
5.8000	0.00204	1324.	-12.5542	-8.47E-04	3996.	6958137.	-61.4217	6025.	0.00
6.0000	0.00187	1320.	-24.7834	-8.09E-04	3985.	6958137.	-60.8700	6499.	0.00
6.2000	0.00172	1314.	-36.8937	-7.71E-04	3967.	6958137.	-60.2330	7024.	0.00
6.4000	0.00156	1306.	-48.8679	-7.33E-04	3941.	6958137.	-59.5088	7606.	0.00
6.6000	0.00142	1295.	-60.6883	-6.96E-04	3908.	6958137.	-58.6955	8256.	0.00
6.8000	0.00129	1281.	-72.3369	-6.59E-04	3867.	6958137.	-57.7906	8985.	0.00
7.0000	0.00116	1266.	-83.7951	-6.22E-04	3820.	6958137.	-56.7914	9807.	0.00
7.2000	0.00104	1248.	-95.0437	-5.86E-04	3766.	6958137.	-55.6946	10737.	0.00
7.4000	9.24E-04	1228.	-106.0628	-5.51E-04	3705.	6958137.	-54.4966	11799.	0.00
7.6000	8.17E-04	1205.	-116.8317	-5.16E-04	3638.	6958137.	-53.1924	13019.	0.00
7.8000	7.17E-04	1181.	-127.3286	-4.81E-04	3564.	6958137.	-51.7764	14433.	0.00
8.0000	6.25E-04	1155.	-137.5303	-4.48E-04	3484.	6958137.	-50.2412	16088.	0.00
8.2000	5.38E-04	1126.	-147.4122	-4.15E-04	3398.	6958137.	-48.5775	18048.	0.00
8.4000	4.59E-04	1096.	-156.9473	-3.83E-04	3306.	6958137.	-46.7732	20401.	0.00
8.6000	3.85E-04	1063.	-170.3060	-3.52E-04	3209.	6958137.	-86.8134	45090.	0.00
8.8000	3.18E-04	1027.	-186.3165	-3.22E-04	3101.	6958137.	-73.2918	46138.	0.00
9.0000	2.56E-04	988.7112	-199.6914	-2.93E-04	2984.	6958137.	-60.4574	47187.	0.00
9.2000	2.00E-04	947.5637	-210.5721	-2.65E-04	2860.	6958137.	-48.3492	48235.	0.00
9.4000	1.50E-04	904.4823	-219.1068	-2.39E-04	2730.	6958137.	-36.9985	49284.	0.00
9.6000	1.05E-04	859.9210	-225.4496	-2.13E-04	2595.	6958137.	-26.4287	50332.	0.00
9.8000	6.48E-05	814.3025	-229.7580	-1.89E-04	2458.	6958137.	-16.6555	51381.	0.00
10.0000	2.93E-05	768.0178	-232.1923	-1.66E-04	2318.	6958137.	-7.6882	52430.	0.00
10.2000	-1.76E-06	721.4256	-232.9141	-1.45E-04	2177.	6958137.	0.4709	53478.	0.00
10.4000	-2.87E-05	674.8522	-232.0845	-1.25E-04	2037.	6958137.	7.8252	54527.	0.00
10.6000	-5.18E-05	628.5918	-229.8635	-1.06E-04	1897.	6958137.	14.3841	55575.	0.00
10.8000	-7.12E-05	582.9068	-226.4090	-8.89E-05	1759.	6958137.	20.1617	56624.	0.00
11.0000	-8.73E-05	538.0282	-221.8751	-7.28E-05	1624.	6958137.	25.1770	57673.	0.00
11.2000	-1.00E-04	494.1567	-216.4121	-5.79E-05	1491.	6958137.	29.4529	58721.	0.00
11.4000	-1.10E-04	451.4634	-210.1652	-4.43E-05	1363.	6958137.	33.0163	59770.	0.00
11.6000	-1.18E-04	410.0906	-203.2738	-3.19E-05	1238.	6958137.	35.8970	60818.	0.00
11.8000	-1.23E-04	370.1538	-195.8714	-2.07E-05	1117.	6958137.	38.1279	61867.	0.00

12.0000	-1.26E-04	331.7421	-188.0842	-1.06E-05	1001.	6958137.	39.7440	62916.	0.00
12.2000	-1.28E-04	294.9201	-180.0315	-1.64E-06	890.0835	6958137.	40.7825	63964.	0.00
12.4000	-1.27E-04	259.7295	-171.8251	6.33E-06	783.8764	6958137.	41.2822	65013.	0.00
12.6000	-1.25E-04	226.1901	-163.5685	1.33E-05	682.6529	6958137.	41.2833	66061.	0.00
12.8000	-1.22E-04	194.3021	-155.3575	1.94E-05	586.4132	6958137.	40.8269	67110.	0.00
13.0000	-1.17E-04	164.0471	-147.2793	2.45E-05	495.1023	6958137.	39.9552	68159.	0.00
13.2000	-1.12E-04	135.3904	-139.4127	2.88E-05	408.6148	6958137.	38.7107	69207.	0.00
13.4000	-1.06E-04	108.2820	-131.8280	3.23E-05	326.8005	6958137.	37.1365	70256.	0.00
13.6000	-9.89E-05	82.6592	-124.5868	3.51E-05	249.4694	6958137.	35.2758	71304.	0.00
13.8000	-9.17E-05	58.4473	-117.7420	3.71E-05	176.3969	6958137.	33.1722	72353.	0.00
14.0000	-8.41E-05	35.5624	-111.3378	3.84E-05	107.3290	6958137.	30.8693	73402.	0.00
14.2000	-7.63E-05	13.9122	-105.4098	3.91E-05	41.9877	6958137.	28.4107	74450.	0.00
14.4000	-6.85E-05	-6.6015	-99.9847	3.93E-05	19.9238	6958137.	25.8403	75499.	0.00
14.6000	-6.06E-05	-26.0817	-95.0805	3.88E-05	78.7158	6958137.	23.2019	76547.	0.00
14.8000	-5.29E-05	-44.6337	-90.7064	3.78E-05	134.7068	6958137.	20.5395	77596.	0.00
15.0000	-4.55E-05	-62.3642	-86.8627	3.62E-05	188.2183	6958137.	17.8975	78644.	0.00
15.2000	-3.84E-05	-79.3788	-83.5409	3.42E-05	239.5692	6958137.	15.3204	79693.	0.00
15.4000	-3.18E-05	-95.7806	-69.9289	3.17E-05	289.0705	6958137.	120.7993	758820.	0.00
15.6000	-2.58E-05	-107.3504	-46.5899	2.88E-05	323.9887	6958137.	112.5912	873498.	0.00
15.8000	-2.03E-05	-114.4165	-24.9273	2.56E-05	345.3147	6958137.	104.0347	1023097.	0.00
16.0000	-1.56E-05	-117.3213	-5.0101	2.22E-05	354.0814	6958137.	95.1372	1223412.	0.00
16.2000	-1.14E-05	-116.4205	13.0923	1.89E-05	351.3629	6958137.	85.8861	1501144.	0.00
16.4000	-8.00E-06	-112.0844	29.3041	1.56E-05	338.2762	6958137.	76.2327	1905338.	0.00
16.6000	-5.21E-06	-104.6989	43.5326	1.25E-05	315.9864	6958137.	66.0522	2537733.	0.00
16.8000	-3.01E-06	-94.6713	55.6410	9.61E-06	285.7227	6958137.	55.0312	3655250.	0.00
17.0000	-1.36E-06	-82.4425	65.3663	7.07E-06	248.8155	6958137.	42.2223	6205587.	0.00
17.2000	-1.84E-07	-68.5248	69.7138	4.90E-06	206.8112	6958137.	1.2525	1358277.	0.00
17.4000	5.98E-07	-54.5570	66.6250	3.13E-06	164.6557	6958137.	-32.1405	1.07E+07	0.00
17.6000	1.07E-06	-41.8748	59.5146	1.74E-06	126.3802	6958137.	-38.9638	7304691.	0.00
17.8000	1.29E-06	-30.7512	51.4626	6.98E-07	92.8085	6958137.	-41.5562	6418466.	0.00
18.0000	1.35E-06	-21.2898	43.0979	-4.95E-08	64.2536	6958137.	-42.0908	6253292.	0.00
18.2000	1.28E-06	-13.5120	34.7562	-5.50E-07	40.7799	6958137.	-41.3262	6481978.	0.00
18.4000	1.13E-06	-7.3873	26.6600	-8.50E-07	22.2953	6958137.	-39.6356	7037887.	0.00
18.6000	9.35E-07	-2.8480	18.9740	-9.97E-07	8.5955	6958137.	-37.2245	7961459.	0.00
18.8000	7.28E-07	0.2023	11.8325	-1.04E-06	0.6105	6958137.	-34.1903	9399168.	0.00
19.0000	5.21E-07	1.8850	5.3625	-1.01E-06	5.6890	6958137.	-30.5100	1.17E+07	0.00
19.2000	3.25E-07	2.3473	-0.2809	-9.44E-07	7.0842	6958137.	-25.9237	1.59E+07	0.00
19.4000	1.43E-07	1.7726	-2.9706	-8.85E-07	5.3499	6958137.	-0.9737	1358277.	0.00
19.6000	-2.86E-08	1.1590	-3.0486	-8.43E-07	3.4980	6958137.	0.1939	1358277.	0.00
19.8000	-1.94E-07	0.5532	-2.8976	-8.18E-07	1.6696	6958137.	1.3162	1358277.	0.00
20.0000	-3.56E-07	0.00	0.00	-8.10E-07	0.00	6958137.	27.6596	7772115.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 2:

Pile-head deflection = 0.00976738 meters
Computed slope at pile head = -0.00165095 radians
Maximum bending moment = 1325. kN-m
Maximum shear force = 600.00000000 kN
Depth of maximum bending moment = 5.60000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 22
Number of zero deflection points = 3

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 3

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 1000.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.03728	-1.09E-08	1000.0000	-0.00520	3.28E-08	6958137.	0.00	0.00	0.00
0.2000	0.03624	200.0000	996.6903	-0.00520	603.6099	6958137.	-33.0971	182.6637	0.00
0.4000	0.03520	398.6761	987.5145	-0.00519	1203.	6958137.	-58.6609	333.3133	0.00
0.6000	0.03416	595.0058	972.8821	-0.00518	1796.	6958137.	-87.6628	513.2292	0.00
0.8000	0.03313	787.8290	952.1553	-0.00516	2378.	6958137.	-119.6051	722.0937	0.00
1.0000	0.03210	975.8679	924.7897	-0.00513	2945.	6958137.	-154.0514	959.8849	0.00
1.2000	0.03107	1158.	890.3232	-0.00510	3494.	6958137.	-190.6138	1227.	0.00
1.4000	0.03006	1332.	848.3673	-0.00507	4020.	6958137.	-228.9450	1523.	0.00
1.6000	0.02905	1497.	798.5941	-0.00503	4518.	6958137.	-268.7869	1851.	0.00
1.8000	0.02805	1651.	740.8348	-0.00498	4984.	6958137.	-308.8056	2202.	0.00
2.0000	0.02706	1793.	675.2532	-0.00493	5413.	6958137.	-347.0112	2565.	0.00
2.2000	0.02607	1922.	631.2035	-0.00488	5799.	6958137.	-93.4858	717.0792	0.00
2.4000	0.02510	2046.	612.3486	-0.00482	6175.	6958137.	-95.0629	757.3526	0.00
2.6000	0.02415	2166.	593.1870	-0.00476	6539.	6958137.	-96.5532	799.7546	0.00
2.8000	0.02320	2283.	573.7361	-0.00470	6891.	6958137.	-97.9554	844.4475	0.00

3.0000	0.02227	2396.	554.0138	-0.00463	7231.	6958137.	-99.2681	891.6087	0.00
3.2000	0.02135	2505.	534.0380	-0.00456	7560.	6958137.	-100.4898	941.4331	0.00
3.4000	0.02044	2610.	513.8271	-0.00449	7876.	6958137.	-101.6191	994.1349	0.00
3.6000	0.01955	2710.	493.3997	-0.00441	8180.	6958137.	-102.6547	1050.	0.00
3.8000	0.01868	2807.	472.7748	-0.00433	8471.	6958137.	-103.5950	1109.	0.00
4.0000	0.01782	2899.	451.9714	-0.00425	8751.	6958137.	-104.4386	1172.	0.00
4.2000	0.01698	2988.	431.0092	-0.00416	9017.	6958137.	-105.1841	1239.	0.00
4.4000	0.01616	3072.	409.9078	-0.00408	9271.	6958137.	-105.8298	1310.	0.00
4.6000	0.01535	3152.	388.6873	-0.00399	9512.	6958137.	-106.3744	1386.	0.00
4.8000	0.01456	3227.	367.3683	-0.00389	9740.	6958137.	-106.8162	1467.	0.00
5.0000	0.01379	3299.	345.9713	-0.00380	9955.	6958137.	-107.1536	1554.	0.00
5.2000	0.01304	3366.	324.5174	-0.00371	10158.	6958137.	-107.3850	1647.	0.00
5.4000	0.01231	3428.	303.0280	-0.00361	10347.	6958137.	-107.5087	1747.	0.00
5.6000	0.01160	3487.	281.5249	-0.00351	10524.	6958137.	-107.5229	1854.	0.00
5.8000	0.01091	3541.	260.0300	-0.00341	10687.	6958137.	-107.4259	1970.	0.00
6.0000	0.01024	3591.	238.5658	-0.00330	10838.	6958137.	-107.2158	2095.	0.00
6.2000	0.00959	3636.	217.1552	-0.00320	10975.	6958137.	-106.8905	2230.	0.00
6.4000	0.00896	3678.	195.8213	-0.00310	11100.	6958137.	-106.4482	2377.	0.00
6.6000	0.00835	3715.	174.5878	-0.00299	11211.	6958137.	-105.8867	2537.	0.00
6.8000	0.00776	3748.	153.4788	-0.00288	11310.	6958137.	-105.2038	2711.	0.00
7.0000	0.00720	3776.	132.5187	-0.00277	11397.	6958137.	-104.3971	2902.	0.00
7.2000	0.00665	3801.	111.7325	-0.00266	11470.	6958137.	-103.4643	3111.	0.00
7.4000	0.00613	3821.	91.1458	-0.00256	11532.	6958137.	-102.4027	3341.	0.00
7.6000	0.00563	3837.	70.7846	-0.00245	11581.	6958137.	-101.2096	3596.	0.00
7.8000	0.00515	3849.	50.6754	-0.00233	11617.	6958137.	-99.8821	3878.	0.00
8.0000	0.00470	3857.	30.8455	-0.00222	11642.	6958137.	-98.4171	4192.	0.00
8.2000	0.00426	3862.	11.3227	-0.00211	11654.	6958137.	-96.8113	4544.	0.00
8.4000	0.00385	3862.	-7.8646	-0.00200	11655.	6958137.	-95.0613	4938.	0.00
8.6000	0.00346	3858.	-62.8308	-0.00189	11645.	6958137.	-454.6016	26274.	0.00
8.8000	0.00309	3837.	-150.3734	-0.00178	11579.	6958137.	-420.8236	27208.	0.00
9.0000	0.00275	3798.	-230.8713	-0.00167	11463.	6958137.	-384.1555	27956.	0.00
9.2000	0.00242	3744.	-303.8042	-0.00156	11301.	6958137.	-345.1743	28468.	0.00
9.4000	0.00212	3677.	-368.7788	-0.00146	11097.	6958137.	-304.5717	28690.	0.00
9.6000	0.00184	3597.	-425.7650	-0.00135	10856.	6958137.	-265.2901	28795.	0.00
9.8000	0.00158	3506.	-477.1886	-0.00125	10583.	6958137.	-248.9455	31459.	0.00
10.0000	0.00134	3406.	-525.2046	-0.00115	10280.	6958137.	-231.2149	34435.	0.00
10.2000	0.00112	3296.	-569.5440	-0.00105	9949.	6958137.	-212.1786	37798.	0.00
10.4000	9.21E-04	3178.	-609.9532	-9.61E-04	9592.	6958137.	-191.9131	41655.	0.00
10.6000	7.38E-04	3052.	-646.1925	-8.71E-04	9212.	6958137.	-170.4803	46171.	0.00
10.8000	5.73E-04	2920.	-678.0314	-7.85E-04	8812.	6958137.	-147.9088	51623.	0.00
11.0000	4.24E-04	2781.	-705.0602	-7.03E-04	8394.	6958137.	-122.3786	57673.	0.00
11.2000	2.92E-04	2638.	-725.8635	-6.25E-04	7961.	6958137.	-85.6544	58721.	0.00
11.4000	1.74E-04	2491.	-739.6360	-5.52E-04	7517.	6958137.	-52.0707	59770.	0.00
11.6000	7.11E-05	2342.	-747.0040	-4.82E-04	7068.	6958137.	-21.6092	60818.	0.00

11.8000	-1.87E-05	2192.	-748.5879	-4.17E-04	6616.	6958137.	5.7699	61867.	0.00
12.0000	-9.58E-05	2042.	-744.9983	-3.56E-04	6164.	6958137.	30.1256	62916.	0.00
12.2000	-1.61E-04	1894.	-736.8323	-3.00E-04	5716.	6958137.	51.5348	63964.	0.00
12.4000	-2.16E-04	1748.	-724.6698	-2.47E-04	5275.	6958137.	70.0903	65013.	0.00
12.6000	-2.60E-04	1604.	-709.0709	-1.99E-04	4841.	6958137.	85.8985	66061.	0.00
12.8000	-2.95E-04	1464.	-690.5732	-1.55E-04	4419.	6958137.	99.0784	67110.	0.00
13.0000	-3.22E-04	1328.	-669.6894	-1.15E-04	4008.	6958137.	109.7593	68159.	0.00
13.2000	-3.41E-04	1196.	-646.9055	-7.86E-05	3610.	6958137.	118.0797	69207.	0.00
13.4000	-3.54E-04	1069.	-622.6790	-4.61E-05	3227.	6958137.	124.1855	70256.	0.00
13.6000	-3.60E-04	947.0961	-597.4376	-1.71E-05	2858.	6958137.	128.2290	71304.	0.00
13.8000	-3.60E-04	830.1731	-571.5780	8.44E-06	2506.	6958137.	130.3672	72353.	0.00
14.0000	-3.56E-04	718.4649	-545.4651	3.07E-05	2168.	6958137.	130.7612	73402.	0.00
14.2000	-3.48E-04	611.9871	-519.4315	4.98E-05	1847.	6958137.	129.5751	74450.	0.00
14.4000	-3.36E-04	510.6923	-493.7765	6.60E-05	1541.	6958137.	126.9748	75499.	0.00
14.6000	-3.22E-04	414.4765	-468.7662	7.92E-05	1251.	6958137.	123.1280	76547.	0.00
14.8000	-3.05E-04	323.1858	-444.6331	8.99E-05	975.3906	6958137.	118.2030	77596.	0.00
15.0000	-2.86E-04	236.6232	-421.5760	9.79E-05	714.1405	6958137.	112.3688	78644.	0.00
15.2000	-2.66E-04	154.5554	-399.7597	1.04E-04	466.4558	6958137.	105.7943	79693.	0.00
15.4000	-2.44E-04	76.7194	-365.3530	1.07E-04	231.5428	6958137.	238.2723	195020.	0.00
15.6000	-2.23E-04	8.4142	-318.4220	1.08E-04	25.3945	6958137.	231.0379	207425.	0.00
15.8000	-2.01E-04	-50.6494	-272.9880	1.07E-04	152.8625	6958137.	223.3018	222047.	0.00
16.0000	-1.80E-04	-100.7810	-229.1473	1.05E-04	304.1620	6958137.	215.1051	239293.	0.00
16.2000	-1.59E-04	-142.3084	-186.9886	1.02E-04	429.4936	6958137.	206.4821	259697.	0.00
16.4000	-1.39E-04	-175.5764	-146.5944	9.72E-05	529.8983	6958137.	197.4595	283974.	0.00
16.6000	-1.20E-04	-200.9461	-108.0430	9.18E-05	606.4653	6958137.	188.0552	313088.	0.00
16.8000	-1.02E-04	-218.7936	-71.4098	8.58E-05	660.3299	6958137.	178.2758	348381.	0.00
17.0000	-8.58E-05	-229.5101	-36.7711	7.93E-05	692.6727	6958137.	168.1119	391783.	0.00
17.2000	-7.06E-05	-233.5020	-4.2068	7.27E-05	704.7207	6958137.	157.5306	446188.	0.00
17.4000	-5.67E-05	-231.1928	26.1923	6.60E-05	697.7513	6958137.	146.4610	516189.	0.00
17.6000	-4.42E-05	-223.0251	54.3153	5.95E-05	673.1008	6958137.	134.7684	609655.	0.00
17.8000	-3.30E-05	-209.4667	80.0120	5.33E-05	632.1808	6958137.	122.1986	741545.	0.00
18.0000	-2.29E-05	-191.0203	103.0566	4.75E-05	576.5087	6958137.	108.2474	945045.	0.00
18.2000	-1.40E-05	-168.2440	123.0582	4.23E-05	507.7688	6958137.	91.7690	1315012.	0.00
18.4000	-5.97E-06	-141.7970	139.1513	3.79E-05	427.9504	6958137.	69.1617	2315808.	0.00
18.6000	1.20E-06	-112.5835	142.0249	3.42E-05	339.7826	6958137.	-40.4256	6760299.	0.00
18.8000	7.72E-06	-84.9871	130.4514	3.14E-05	256.4951	6958137.	-75.3098	1951601.	0.00
19.0000	1.38E-05	-60.4030	113.7900	2.93E-05	182.2992	6958137.	-91.3036	1327960.	0.00
19.2000	1.94E-05	-39.4711	94.4127	2.79E-05	119.1256	6958137.	-102.4695	1054380.	0.00
19.4000	2.49E-05	-22.6379	73.0374	2.70E-05	68.3223	6958137.	-111.2841	893992.	0.00
19.6000	3.02E-05	-10.2561	50.0372	2.65E-05	30.9534	6958137.	-118.7175	785560.	0.00
19.8000	3.55E-05	-2.6230	25.6403	2.63E-05	7.9164	6958137.	-125.2517	705745.	0.00
20.0000	4.07E-05	0.00	0.00	2.63E-05	0.00	6958137.	-131.1510	321845.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 3:

Pile-head deflection = 0.03727911 meters
Computed slope at pile head = -0.00520406 radians
Maximum bending moment = 3862. kN-m
Maximum shear force = 1000.00000000 kN
Depth of maximum bending moment = 8.40000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 34
Number of zero deflection points = 2

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 4

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 1250.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.06911	-1.21E-08	1250.	-0.00892	3.64E-08	6958137.	0.00	0.00	0.00
0.2000	0.06732	250.0000	1249.	-0.00891	754.5123	6958137.	-6.9086	20.5237	0.00
0.4000	0.06554	499.7237	1247.	-0.00890	1508.	6958137.	-12.6608	38.6343	0.00
0.6000	0.06376	748.9409	1244.	-0.00888	2260.	6958137.	-20.0125	62.7719	0.00
0.8000	0.06199	997.3576	1238.	-0.00886	3010.	6958137.	-45.4054	146.4978	0.00
1.0000	0.06022	1244.	1226.	-0.00883	3754.	6958137.	-73.7219	244.8471	0.00
1.2000	0.05846	1488.	1208.	-0.00879	4490.	6958137.	-104.5722	357.7760	0.00
1.4000	0.05670	1727.	1184.	-0.00874	5212.	6958137.	-137.6064	485.3547	0.00
1.6000	0.05496	1961.	1153.	-0.00869	5919.	6958137.	-172.5085	627.7602	0.00
1.8000	0.05323	2188.	1114.	-0.00863	6604.	6958137.	-208.9925	785.2752	0.00
2.0000	0.05151	2407.	1069.	-0.00856	7264.	6958137.	-246.7991	958.2898	0.00
2.2000	0.04980	2616.	1033.	-0.00849	7894.	6958137.	-115.9912	465.8050	0.00
2.4000	0.04811	2820.	1009.	-0.00841	8510.	6958137.	-118.0808	490.8603	0.00
2.6000	0.04644	3019.	985.3408	-0.00833	9112.	6958137.	-120.0718	517.1356	0.00

2.8000	0.04478	3214.	961.1374	-0.00824	9700.	6958137.	-121.9627	544.7181	0.00
3.0000	0.04314	3404.	936.5659	-0.00814	10273.	6958137.	-123.7518	573.7026	0.00
3.2000	0.04152	3589.	911.6470	-0.00804	10831.	6958137.	-125.4374	604.1924	0.00
3.4000	0.03992	3768.	886.4015	-0.00794	11373.	6958137.	-127.0179	636.3007	0.00
3.6000	0.03835	3943.	860.8505	-0.00783	11901.	6958137.	-128.4916	670.1511	0.00
3.8000	0.03679	4113.	835.0157	-0.00771	12413.	6958137.	-129.8567	705.8793	0.00
4.0000	0.03526	4277.	808.9189	-0.00759	12909.	6958137.	-131.1116	743.6343	0.00
4.2000	0.03376	4436.	782.5823	-0.00747	13389.	6958137.	-132.2546	783.5802	0.00
4.4000	0.03228	4590.	756.0284	-0.00734	13853.	6958137.	-133.2837	825.8981	0.00
4.6000	0.03082	4739.	729.2803	-0.00720	14302.	6958137.	-134.1973	870.7879	0.00
4.8000	0.02940	4882.	702.3612	-0.00706	14734.	6958137.	-134.9936	918.4713	0.00
5.0000	0.02800	5020.	675.2948	-0.00692	15150.	6958137.	-135.6705	969.1944	0.00
5.2000	0.02663	5152.	648.1051	-0.00678	15549.	6958137.	-136.2263	1023.	0.00
5.4000	0.02529	5279.	620.8166	-0.00663	15932.	6958137.	-136.6590	1081.	0.00
5.6000	0.02398	5400.	593.4541	-0.00647	16299.	6958137.	-136.9666	1143.	0.00
5.8000	0.02270	5516.	566.0427	-0.00631	16648.	6958137.	-137.1470	1208.	0.00
6.0000	0.02145	5627.	538.6082	-0.00615	16982.	6958137.	-137.1983	1279.	0.00
6.2000	0.02024	5732.	511.1765	-0.00599	17299.	6958137.	-137.1182	1355.	0.00
6.4000	0.01905	5831.	483.7742	-0.00583	17599.	6958137.	-136.9046	1437.	0.00
6.6000	0.01791	5925.	456.4282	-0.00566	17883.	6958137.	-136.5552	1525.	0.00
6.8000	0.01679	6014.	429.1659	-0.00548	18150.	6958137.	-136.0678	1621.	0.00
7.0000	0.01571	6097.	402.0152	-0.00531	18401.	6958137.	-135.4398	1724.	0.00
7.2000	0.01467	6175.	375.0043	-0.00513	18635.	6958137.	-134.6689	1836.	0.00
7.4000	0.01366	6247.	348.1622	-0.00496	18854.	6958137.	-133.7525	1959.	0.00
7.6000	0.01268	6314.	321.5181	-0.00478	19056.	6958137.	-132.6882	2092.	0.00
7.8000	0.01175	6376.	295.1020	-0.00459	19242.	6958137.	-131.4732	2238.	0.00
8.0000	0.01085	6432.	268.9441	-0.00441	19412.	6958137.	-130.1050	2399.	0.00
8.2000	0.00998	6483.	243.0756	-0.00422	19566.	6958137.	-128.5808	2576.	0.00
8.4000	0.00916	6529.	217.5277	-0.00404	19705.	6958137.	-126.8979	2771.	0.00
8.6000	0.00837	6570.	137.7537	-0.00385	19829.	6958137.	-670.8422	16031.	0.00
8.8000	0.00762	6584.	6.9107	-0.00366	19872.	6958137.	-637.5881	16737.	0.00
9.0000	0.00691	6573.	-116.7944	-0.00347	19837.	6958137.	-599.4628	17361.	0.00
9.2000	0.00623	6538.	-232.4246	-0.00328	19731.	6958137.	-556.8389	17874.	0.00
9.4000	0.00559	6480.	-339.1314	-0.00309	19557.	6958137.	-510.2291	18244.	0.00
9.6000	0.00499	6402.	-436.4702	-0.00291	19321.	6958137.	-463.1591	18552.	0.00
9.8000	0.00443	6305.	-527.3281	-0.00273	19030.	6958137.	-445.4196	20111.	0.00
10.0000	0.00390	6191.	-614.4160	-0.00255	18685.	6958137.	-425.4594	21805.	0.00
10.2000	0.00341	6060.	-697.2988	-0.00237	18288.	6958137.	-403.3691	23653.	0.00
10.4000	0.00295	5912.	-775.5612	-0.00220	17843.	6958137.	-379.2543	25678.	0.00
10.6000	0.00253	5749.	-848.8099	-0.00203	17352.	6958137.	-353.2330	27911.	0.00
10.8000	0.00214	5573.	-916.6764	-0.00187	16818.	6958137.	-325.4317	30395.	0.00
11.0000	0.00178	5383.	-978.8175	-0.00171	16245.	6958137.	-295.9796	33188.	0.00
11.2000	0.00146	5181.	-1035.	-0.00156	15636.	6958137.	-269.3559	36978.	0.00
11.4000	0.00116	4969.	-1087.	-0.00141	14995.	6958137.	-243.8245	42044.	0.00

11.6000	8.91E-04	4746.	-1133.	-0.00127	14325.	6958137.	-215.8705	48433.	0.00
11.8000	6.50E-04	4515.	-1173.	-0.00114	13628.	6958137.	-185.0177	56904.	0.00
12.0000	4.35E-04	4277.	-1205.	-0.00101	12909.	6958137.	-136.8683	62916.	0.00
12.2000	2.44E-04	4034.	-1226.	-8.95E-04	12173.	6958137.	-78.1908	63964.	0.00
12.4000	7.71E-05	3787.	-1237.	-7.83E-04	11428.	6958137.	-25.0520	65013.	0.00
12.6000	-6.86E-05	3539.	-1237.	-6.77E-04	10680.	6958137.	22.6521	66061.	0.00
12.8000	-1.94E-04	3292.	-1228.	-5.79E-04	9935.	6958137.	65.0572	67110.	0.00
13.0000	-3.00E-04	3048.	-1211.	-4.88E-04	9198.	6958137.	102.3271	68159.	0.00
13.2000	-3.89E-04	2807.	-1188.	-4.04E-04	8472.	6958137.	134.6502	69207.	0.00
13.4000	-4.62E-04	2572.	-1158.	-3.27E-04	7764.	6958137.	162.2362	70256.	0.00
13.6000	-5.20E-04	2344.	-1123.	-2.56E-04	7074.	6958137.	185.3125	71304.	0.00
13.8000	-5.64E-04	2123.	-1084.	-1.92E-04	6408.	6958137.	204.1215	72353.	0.00
14.0000	-5.96E-04	1910.	-1042.	-1.34E-04	5765.	6958137.	218.9174	73402.	0.00
14.2000	-6.18E-04	1706.	-997.2002	-8.18E-05	5150.	6958137.	229.9636	74450.	0.00
14.4000	-6.29E-04	1511.	-950.4508	-3.56E-05	4561.	6958137.	237.5303	75499.	0.00
14.6000	-6.32E-04	1326.	-902.5086	5.18E-06	4002.	6958137.	241.8917	76547.	0.00
14.8000	-6.27E-04	1150.	-853.9870	4.08E-05	3472.	6958137.	243.3246	77596.	0.00
15.0000	-6.16E-04	984.4663	-805.4439	7.15E-05	2971.	6958137.	242.1062	78644.	0.00
15.2000	-5.99E-04	828.2196	-757.3821	9.75E-05	2500.	6958137.	238.5126	79693.	0.00
15.4000	-5.77E-04	681.5134	-701.8075	1.19E-04	2057.	6958137.	317.2331	110017.	0.00
15.6000	-5.51E-04	547.4966	-638.8412	1.37E-04	1652.	6958137.	312.4303	113426.	0.00
15.8000	-5.22E-04	425.9770	-576.9122	1.51E-04	1286.	6958137.	306.8595	117582.	0.00
16.0000	-4.91E-04	316.7317	-516.1683	1.62E-04	955.9120	6958137.	300.5795	122546.	0.00
16.2000	-4.57E-04	219.5097	-456.7467	1.69E-04	662.4910	6958137.	293.6363	128410.	0.00
16.4000	-4.23E-04	134.0330	-398.7767	1.74E-04	404.5183	6958137.	286.0640	135299.	0.00
16.6000	-3.88E-04	59.9990	-342.3819	1.77E-04	181.0799	6958137.	277.8840	143382.	0.00
16.8000	-3.52E-04	-2.9197	-287.6831	1.78E-04	8.8118	6958137.	269.1039	152891.	0.00
17.0000	-3.16E-04	-55.0742	-234.8012	1.77E-04	166.2168	6958137.	259.7147	164145.	0.00
17.2000	-2.81E-04	-96.8402	-183.8611	1.75E-04	292.2685	6958137.	249.6864	177596.	0.00
17.4000	-2.46E-04	-128.6187	-134.9964	1.72E-04	388.1775	6958137.	238.9605	193897.	0.00
17.6000	-2.13E-04	-150.8388	-88.3565	1.68E-04	455.2388	6958137.	227.4383	214041.	0.00
17.8000	-1.79E-04	-163.9613	-44.1167	1.63E-04	494.8433	6958137.	214.9596	239614.	0.00
18.0000	-1.47E-04	-168.4855	-2.4943	1.58E-04	508.4974	6958137.	201.2650	273332.	0.00
18.2000	-1.16E-04	-164.9590	36.2240	1.54E-04	497.8544	6958137.	185.9182	320321.	0.00
18.4000	-8.58E-05	-153.9958	71.6286	1.49E-04	464.7671	6958137.	168.1278	391700.	0.00
18.6000	-5.65E-05	-136.3076	103.0655	1.45E-04	411.3830	6958137.	146.2410	517728.	0.00
18.8000	-2.79E-05	-112.7696	129.2527	1.41E-04	340.3444	6958137.	115.6312	828153.	0.00
19.0000	-5.05E-09	-84.6065	140.8193	1.38E-04	255.3465	6958137.	0.03431	1358277.	0.00
19.2000	2.74E-05	-56.4419	129.3292	1.36E-04	170.3446	6958137.	-114.9346	838064.	0.00
19.4000	5.45E-05	-32.8748	103.3829	1.35E-04	99.2177	6958137.	-144.5291	530015.	0.00
19.6000	8.15E-05	-15.0888	72.4089	1.34E-04	45.5387	6958137.	-165.2101	405633.	0.00
19.8000	1.08E-04	-3.9112	37.7220	1.34E-04	11.8042	6958137.	-181.6594	335501.	0.00
20.0000	1.35E-04	0.00	0.00	1.34E-04	0.00	6958137.	-195.5607	144750.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 4:

Pile-head deflection = 0.06910712 meters
Computed slope at pile head = -0.00891710 radians
Maximum bending moment = 6584. kN-m
Maximum shear force = 1250. kN
Depth of maximum bending moment = 8.80000000 meters below pile head
Depth of maximum shear force = 0.000000 meters below pile head
Number of iterations = 32
Number of zero deflection points = 2

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 5

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 1500.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.1010	-1.13E-07	1500.	-0.01251	3.42E-07	6958137.	0.00	0.00	0.00
0.2000	0.09850	300.0000	1499.	-0.01251	905.4148	6958137.	-6.9086	14.0271	0.00
0.4000	0.09600	599.7237	1497.	-0.01249	1810.	6958137.	-12.6608	26.3756	0.00
0.6000	0.09351	898.9409	1494.	-0.01247	2713.	6958137.	-18.5663	39.7111	0.00
0.8000	0.09102	1197.	1490.	-0.01244	3614.	6958137.	-24.5056	53.8494	0.00
1.0000	0.08853	1495.	1484.	-0.01240	4512.	6958137.	-30.4002	68.6773	0.00
1.2000	0.08605	1791.	1478.	-0.01236	5406.	6958137.	-36.2004	84.1337	0.00
1.4000	0.08359	2086.	1470.	-0.01230	6296.	6958137.	-45.4510	108.7493	0.00
1.6000	0.08113	2379.	1458.	-0.01224	7180.	6958137.	-75.3129	185.6490	0.00
1.8000	0.07869	2669.	1439.	-0.01216	8055.	6958137.	-107.1528	272.3259	0.00
2.0000	0.07627	2955.	1414.	-0.01208	8918.	6958137.	-140.7080	368.9748	0.00
2.2000	0.07386	3235.	1387.	-0.01199	9763.	6958137.	-132.2761	358.1718	0.00
2.4000	0.07147	3510.	1360.	-0.01190	10592.	6958137.	-134.7334	377.0212	0.00

2.6000	0.06910	3779.	1333.	-0.01179	11405.	6958137.	-137.0836	396.7487	0.00
2.8000	0.06676	4043.	1306.	-0.01168	12202.	6958137.	-139.3250	417.4148	0.00
3.0000	0.06443	4301.	1278.	-0.01156	12982.	6958137.	-141.4557	439.0852	0.00
3.2000	0.06213	4554.	1249.	-0.01143	13744.	6958137.	-143.4739	461.8313	0.00
3.4000	0.05986	4801.	1220.	-0.01130	14489.	6958137.	-145.3778	485.7310	0.00
3.6000	0.05761	5042.	1191.	-0.01116	15217.	6958137.	-147.1655	510.8693	0.00
3.8000	0.05540	5277.	1161.	-0.01101	15927.	6958137.	-148.8352	537.3388	0.00
4.0000	0.05321	5507.	1131.	-0.01085	16619.	6958137.	-150.3848	565.2413	0.00
4.2000	0.05106	5730.	1101.	-0.01069	17293.	6958137.	-151.8126	594.6881	0.00
4.4000	0.04893	5947.	1071.	-0.01052	17949.	6958137.	-153.1165	625.8018	0.00
4.6000	0.04685	6158.	1040.	-0.01035	18586.	6958137.	-154.2946	658.7171	0.00
4.8000	0.04479	6363.	1009.	-0.01017	19204.	6958137.	-155.3448	693.5828	0.00
5.0000	0.04278	6562.	977.8643	-0.00998	19804.	6958137.	-156.2651	730.5632	0.00
5.2000	0.04080	6754.	946.5324	-0.00979	20385.	6958137.	-157.0534	769.8406	0.00
5.4000	0.03886	6940.	915.0563	-0.00960	20947.	6958137.	-157.7076	811.6173	0.00
5.6000	0.03696	7120.	883.4630	-0.00939	21489.	6958137.	-158.2256	856.1184	0.00
5.8000	0.03511	7294.	851.7799	-0.00919	22013.	6958137.	-158.6050	903.5952	0.00
6.0000	0.03329	7461.	820.0351	-0.00897	22518.	6958137.	-158.8437	954.3286	0.00
6.2000	0.03152	7622.	788.2567	-0.00876	23003.	6958137.	-158.9393	1009.	0.00
6.4000	0.02979	7776.	756.4739	-0.00854	23469.	6958137.	-158.8896	1067.	0.00
6.6000	0.02810	7924.	724.7157	-0.00831	23916.	6958137.	-158.6920	1129.	0.00
6.8000	0.02646	8066.	693.0121	-0.00808	24344.	6958137.	-158.3442	1197.	0.00
7.0000	0.02487	8202.	661.3933	-0.00785	24753.	6958137.	-157.8436	1269.	0.00
7.2000	0.02332	8331.	629.8902	-0.00761	25143.	6958137.	-157.1876	1348.	0.00
7.4000	0.02183	8454.	598.5340	-0.00737	25513.	6958137.	-156.3738	1433.	0.00
7.6000	0.02038	8570.	567.3567	-0.00712	25865.	6958137.	-155.3994	1525.	0.00
7.8000	0.01898	8681.	536.3906	-0.00688	26198.	6958137.	-154.2618	1626.	0.00
8.0000	0.01763	8785.	505.6686	-0.00662	26513.	6958137.	-152.9583	1736.	0.00
8.2000	0.01633	8883.	475.2241	-0.00637	26809.	6958137.	-151.4864	1856.	0.00
8.4000	0.01508	8975.	445.0911	-0.00611	27086.	6958137.	-149.8433	1988.	0.00
8.6000	0.01388	9061.	346.2709	-0.00585	27346.	6958137.	-838.3590	12079.	0.00
8.8000	0.01274	9113.	181.6358	-0.00559	27504.	6958137.	-807.9920	12688.	0.00
9.0000	0.01164	9133.	23.6871	-0.00533	27565.	6958137.	-771.4954	13251.	0.00
9.2000	0.01060	9123.	-126.3674	-0.00507	27533.	6958137.	-729.0491	13750.	0.00
9.4000	0.00962	9083.	-267.3696	-0.00481	27413.	6958137.	-680.9729	14162.	0.00
9.6000	0.00868	9016.	-398.5649	-0.00455	27210.	6958137.	-630.9797	14536.	0.00
9.8000	0.00780	8923.	-522.9843	-0.00429	26932.	6958137.	-613.2146	15728.	0.00
10.0000	0.00697	8807.	-643.5590	-0.00403	26579.	6958137.	-592.5327	17013.	0.00
10.2000	0.00618	8666.	-759.7128	-0.00378	26155.	6958137.	-569.0054	18402.	0.00
10.4000	0.00545	8503.	-870.8859	-0.00354	25662.	6958137.	-542.7257	19908.	0.00
10.6000	0.00477	8318.	-976.5392	-0.00329	25103.	6958137.	-513.8072	21545.	0.00
10.8000	0.00413	8112.	-1076.	-0.00306	24483.	6958137.	-482.3820	23334.	0.00
11.0000	0.00355	7887.	-1169.	-0.00283	23804.	6958137.	-448.5981	25300.	0.00
11.2000	0.00300	7644.	-1256.	-0.00261	23071.	6958137.	-418.1578	27848.	0.00

11.4000	0.00250	7385.	-1337.	-0.00239	22288.	6958137.	-389.3130	31094.	0.00
11.6000	0.00205	7110.	-1411.	-0.00218	21458.	6958137.	-357.8982	34960.	0.00
11.8000	0.00163	6820.	-1480.	-0.00198	20584.	6958137.	-323.6915	39676.	0.00
12.0000	0.00126	6518.	-1541.	-0.00179	19671.	6958137.	-286.3212	45625.	0.00
12.2000	9.16E-04	6204.	-1594.	-0.00161	18724.	6958137.	-245.1348	53522.	0.00
12.4000	6.13E-04	5880.	-1638.	-0.00143	17748.	6958137.	-198.8829	64933.	0.00
12.6000	3.43E-04	5549.	-1669.	-0.00127	16747.	6958137.	-113.2809	66061.	0.00
12.8000	1.05E-04	5213.	-1684.	-0.00111	15732.	6958137.	-35.3095	67110.	0.00
13.0000	-1.03E-04	4875.	-1684.	-9.69E-04	14714.	6958137.	34.9424	68159.	0.00
13.2000	-2.82E-04	4539.	-1671.	-8.33E-04	13699.	6958137.	97.6750	69207.	0.00
13.4000	-4.36E-04	4207.	-1646.	-7.08E-04	12696.	6958137.	153.1261	70256.	0.00
13.6000	-5.65E-04	3881.	-1610.	-5.92E-04	11712.	6958137.	201.5665	71304.	0.00
13.8000	-6.73E-04	3563.	-1566.	-4.85E-04	10752.	6958137.	243.2938	72353.	0.00
14.0000	-7.59E-04	3254.	-1514.	-3.87E-04	9822.	6958137.	278.6282	73402.	0.00
14.2000	-8.27E-04	2957.	-1455.	-2.97E-04	8925.	6958137.	307.9073	74450.	0.00
14.4000	-8.78E-04	2672.	-1391.	-2.16E-04	8065.	6958137.	331.4819	75499.	0.00
14.6000	-9.14E-04	2401.	-1323.	-1.43E-04	7245.	6958137.	349.7112	76547.	0.00
14.8000	-9.36E-04	2143.	-1252.	-7.82E-05	6468.	6958137.	362.9594	77596.	0.00
15.0000	-9.45E-04	1900.	-1178.	-2.01E-05	5734.	6958137.	371.5917	78644.	0.00
15.2000	-9.44E-04	1672.	-1104.	3.12E-05	5045.	6958137.	375.9712	79693.	0.00
15.4000	-9.32E-04	1459.	-1029.	7.62E-05	4402.	6958137.	372.3483	79861.	0.00
15.6000	-9.13E-04	1260.	-954.4990	1.15E-04	3804.	6958137.	369.7436	80990.	0.00
15.8000	-8.86E-04	1077.	-880.9140	1.49E-04	3250.	6958137.	366.1069	82608.	0.00
16.0000	-8.53E-04	907.9118	-808.1508	1.77E-04	2740.	6958137.	361.5246	84716.	0.00
16.2000	-8.15E-04	753.5121	-736.3918	2.01E-04	2274.	6958137.	356.0652	87334.	0.00
16.4000	-7.73E-04	613.3550	-665.8072	2.21E-04	1851.	6958137.	349.7808	90502.	0.00
16.6000	-7.27E-04	487.1892	-596.5582	2.37E-04	1470.	6958137.	342.7091	94276.	0.00
16.8000	-6.78E-04	374.7317	-528.8001	2.49E-04	1131.	6958137.	334.8726	98741.	0.00
17.0000	-6.27E-04	275.6692	-462.6850	2.58E-04	831.9831	6958137.	326.2781	104013.	0.00
17.2000	-5.75E-04	189.6577	-398.3658	2.65E-04	572.3964	6958137.	316.9144	110253.	0.00
17.4000	-5.21E-04	116.3229	-335.9995	2.70E-04	351.0681	6958137.	306.7484	117684.	0.00
17.6000	-4.67E-04	55.2579	-275.7528	2.72E-04	166.7712	6958137.	295.7187	126630.	0.00
17.8000	-4.12E-04	6.0218	-217.8083	2.73E-04	18.1740	6958137.	283.7258	137567.	0.00
18.0000	-3.58E-04	-31.8654	-162.3743	2.73E-04	96.1713	6958137.	270.6142	151227.	0.00
18.2000	-3.03E-04	-58.9280	-109.6986	2.71E-04	177.8475	6958137.	256.1433	168808.	0.00
18.4000	-2.49E-04	-75.7448	-60.0912	2.69E-04	228.6016	6958137.	239.9300	192411.	0.00
18.6000	-1.96E-04	-82.9645	-13.9651	2.67E-04	250.3909	6958137.	221.3317	226137.	0.00
18.8000	-1.43E-04	-81.3308	28.0841	2.65E-04	245.4605	6958137.	199.1595	279359.	0.00
19.0000	-8.99E-05	-71.7308	65.0798	2.62E-04	216.4872	6958137.	170.7975	380040.	0.00
19.2000	-3.76E-05	-55.2989	94.9413	2.61E-04	166.8949	6958137.	127.8179	679936.	0.00
19.4000	1.44E-05	-33.7543	98.4845	2.59E-04	101.8722	6958137.	-92.3855	1285641.	0.00
19.6000	6.61E-05	-15.9051	73.8430	2.59E-04	48.0025	6958137.	-154.0301	465722.	0.00
19.8000	1.18E-04	-4.2171	39.7628	2.58E-04	12.7275	6958137.	-186.7716	317018.	0.00
20.0000	1.69E-04	0.00	0.00	2.58E-04	0.00	6958137.	-210.8566	124407.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 5:

Pile-head deflection = 0.10100602 meters
Computed slope at pile head = -0.01250986 radians
Maximum bending moment = 9133. kN-m
Maximum shear force = -1684. kN
Depth of maximum bending moment = 9.00000000 meters below pile head
Depth of maximum shear force = 13.00000000 meters below pile head
Number of iterations = 26
Number of zero deflection points = 2

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 6

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 6000.000 kN
Applied moment at pile head = 0.000 kN-m
Axial thrust load on pile head = 0.000 kN

Depth X meters	Deflect. y meters	Bending Moment kN-m	Shear Force kN	Slope S radians	Total Stress kPa*	Bending Stiffness kN-m^2	Soil Res. p kN/m	Soil Spr. Es*h kN/m	Distrib. Lat. Load kN/m
0.00	0.9588	-6.18E-07	6000.	-0.09263	1.87E-06	6958137.	0.00	0.00	0.00
0.2000	0.9403	1200.	5999.	-0.09261	3622.	6958137.	-6.9086	1.4695	0.00
0.4000	0.9217	2400.	5997.	-0.09256	7242.	6958137.	-12.6608	2.7472	0.00
0.6000	0.9032	3599.	5994.	-0.09248	10862.	6958137.	-18.5663	4.1111	0.00
0.8000	0.8847	4797.	5990.	-0.09236	14479.	6958137.	-24.5056	5.5396	0.00
1.0000	0.8663	5995.	5984.	-0.09220	18093.	6958137.	-30.4001	7.0185	0.00
1.2000	0.8479	7191.	5978.	-0.09201	21703.	6958137.	-36.2003	8.5392	0.00
1.4000	0.8295	8386.	5970.	-0.09179	25309.	6958137.	-41.8768	10.0971	0.00
1.6000	0.8111	9579.	5961.	-0.09153	28910.	6958137.	-47.4144	11.6907	0.00
1.8000	0.7929	10770.	5951.	-0.09124	32506.	6958137.	-52.8083	13.3208	0.00
2.0000	0.7747	11960.	5940.	-0.09091	36095.	6958137.	-58.0606	14.9901	0.00
2.2000	0.7565	13146.	5910.	-0.09055	39676.	6958137.	-241.5896	63.8700	0.00

2.4000	0.7384	14324.	5861.	-0.09015	43229.	6958137.	-248.7896	67.3832	0.00
2.6000	0.7204	15491.	5810.	-0.08973	46752.	6958137.	-255.9896	71.0645	0.00
2.8000	0.7025	16648.	5759.	-0.08926	50244.	6958137.	-263.1896	74.9249	0.00
3.0000	0.6847	17794.	5705.	-0.08877	53704.	6958137.	-270.3896	78.9761	0.00
3.2000	0.6670	18930.	5650.	-0.08824	57131.	6958137.	-277.5896	83.2309	0.00
3.4000	0.6494	20054.	5594.	-0.08768	60525.	6958137.	-284.7896	87.7030	0.00
3.6000	0.6320	21167.	5536.	-0.08709	63884.	6958137.	-291.9897	92.4072	0.00
3.8000	0.6146	22269.	5477.	-0.08646	67209.	6958137.	-299.1897	97.3598	0.00
4.0000	0.5974	23358.	5417.	-0.08581	70497.	6958137.	-306.3897	102.5782	0.00
4.2000	0.5803	24436.	5355.	-0.08512	73748.	6958137.	-313.5897	108.0816	0.00
4.4000	0.5633	25500.	5291.	-0.08440	76961.	6958137.	-320.7897	113.8907	0.00
4.6000	0.5465	26552.	5226.	-0.08366	80136.	6958137.	-327.9897	120.0280	0.00
4.8000	0.5299	27591.	5160.	-0.08288	83271.	6958137.	-335.1897	126.5184	0.00
5.0000	0.5134	28616.	5092.	-0.08207	86365.	6958137.	-342.3897	133.3888	0.00
5.2000	0.4970	29628.	5023.	-0.08123	89418.	6958137.	-349.5897	140.6688	0.00
5.4000	0.4809	30625.	4953.	-0.08037	92429.	6958137.	-356.7897	148.3910	0.00
5.6000	0.4649	31609.	4880.	-0.07947	95397.	6958137.	-363.9897	156.5908	0.00
5.8000	0.4491	32578.	4807.	-0.07855	98321.	6958137.	-370.9390	165.1962	0.00
6.0000	0.4335	33532.	4733.	-0.07760	101200.	6958137.	-373.6994	172.4211	0.00
6.2000	0.4180	34471.	4658.	-0.07662	104034.	6958137.	-376.2389	179.9974	0.00
6.4000	0.4028	35395.	4582.	-0.07562	106823.	6958137.	-378.5539	187.9500	0.00
6.6000	0.3878	36304.	4506.	-0.07459	109566.	6958137.	-380.6402	196.3064	0.00
6.8000	0.3730	37197.	4430.	-0.07353	112263.	6958137.	-382.4940	205.0966	0.00
7.0000	0.3584	38075.	4353.	-0.07245	114914.	6958137.	-384.1109	214.3537	0.00
7.2000	0.3440	38938.	4276.	-0.07134	117518.	6958137.	-385.4865	224.1140	0.00
7.4000	0.3299	39786.	4199.	-0.07021	120076.	6958137.	-386.6163	234.4176	0.00
7.6000	0.3159	40618.	4122.	-0.06906	122587.	6958137.	-387.4954	245.3087	0.00
7.8000	0.3022	41435.	4044.	-0.06788	125052.	6958137.	-388.1189	256.8365	0.00
8.0000	0.2888	42236.	3966.	-0.06667	127469.	6958137.	-388.4815	269.0556	0.00
8.2000	0.2756	43021.	3889.	-0.06545	129840.	6958137.	-388.5777	282.0268	0.00
8.4000	0.2626	43791.	3811.	-0.06420	132164.	6958137.	-388.4016	295.8183	0.00
8.6000	0.2499	44545.	3604.	-0.06293	134440.	6958137.	-1685.	1348.	0.00
8.8000	0.2374	45232.	3261.	-0.06164	136514.	6958137.	-1738.	1464.	0.00
9.0000	0.2252	45850.	2909.	-0.06033	138378.	6958137.	-1789.	1589.	0.00
9.2000	0.2133	46396.	2546.	-0.05901	140025.	6958137.	-1839.	1725.	0.00
9.4000	0.2016	46868.	2173.	-0.05767	141451.	6958137.	-1887.	1872.	0.00
9.6000	0.1902	47265.	1791.	-0.05631	142649.	6958137.	-1936.	2036.	0.00
9.8000	0.1791	47585.	1395.	-0.05495	143613.	6958137.	-2022.	2258.	0.00
10.0000	0.1682	47823.	981.9480	-0.05358	144333.	6958137.	-2109.	2507.	0.00
10.2000	0.1577	47977.	551.2088	-0.05220	144798.	6958137.	-2198.	2788.	0.00
10.4000	0.1474	48044.	102.5425	-0.05082	144998.	6958137.	-2289.	3106.	0.00
10.6000	0.1373	48018.	-364.3503	-0.04944	144922.	6958137.	-2380.	3467.	0.00
10.8000	0.1276	47898.	-849.7656	-0.04806	144558.	6958137.	-2474.	3878.	0.00
11.0000	0.1181	47679.	-1354.	-0.04669	143896.	6958137.	-2569.	4349.	0.00

11.2000	0.1089	47356.	-1878.	-0.04532	142924.	6958137.	-2669.	4902.	0.00
11.4000	0.09998	46927.	-2422.	-0.04397	141629.	6958137.	-2776.	5553.	0.00
11.6000	0.09132	46387.	-2988.	-0.04263	140000.	6958137.	-2884.	6316.	0.00
11.8000	0.08293	45732.	-3576.	-0.04130	138022.	6958137.	-2994.	7222.	0.00
12.0000	0.07480	44957.	-4186.	-0.04000	135682.	6958137.	-3107.	8307.	0.00
12.2000	0.06693	44058.	-4819.	-0.03872	132968.	6958137.	-3221.	9626.	0.00
12.4000	0.05931	43029.	-5475.	-0.03747	129865.	6958137.	-3338.	11255.	0.00
12.6000	0.05194	41868.	-6134.	-0.03625	126359.	6958137.	-3251.	12516.	0.00
12.8000	0.04481	40576.	-6760.	-0.03506	122460.	6958137.	-3012.	13441.	0.00
13.0000	0.03792	39164.	-7337.	-0.03392	118198.	6958137.	-2762.	14571.	0.00
13.2000	0.03124	37641.	-7864.	-0.03281	113602.	6958137.	-2503.	16022.	0.00
13.4000	0.02479	36018.	-8338.	-0.03176	108704.	6958137.	-2234.	18020.	0.00
13.6000	0.01854	34306.	-8754.	-0.03075	103537.	6958137.	-1933.	20851.	0.00
13.8000	0.01249	32516.	-9105.	-0.02979	98136.	6958137.	-1569.	25123.	0.00
14.0000	0.00663	30664.	-9372.	-0.02888	92546.	6958137.	-1101.	33225.	0.00
14.2000	9.41E-04	28768.	-9516.	-0.02802	86822.	6958137.	-346.4604	73638.	0.00
14.4000	-0.00458	26858.	-9457.	-0.02722	81057.	6958137.	934.6900	40808.	0.00
14.6000	-0.00995	24985.	-9210.	-0.02648	75405.	6958137.	1543.	31018.	0.00
14.8000	-0.01517	23174.	-8850.	-0.02579	69939.	6958137.	2053.	27069.	0.00
15.0000	-0.02026	21445.	-8393.	-0.02515	64721.	6958137.	2520.	24873.	0.00
15.2000	-0.02523	19817.	-7844.	-0.02455	59807.	6958137.	2962.	23483.	0.00
15.4000	-0.03008	18307.	-7430.	-0.02400	55251.	6958137.	1185.	7880.	0.00
15.6000	-0.03483	16845.	-7187.	-0.02350	50838.	6958137.	1245.	7147.	0.00
15.8000	-0.03948	15432.	-6932.	-0.02304	46575.	6958137.	1298.	6574.	0.00
16.0000	-0.04405	14072.	-6668.	-0.02261	42469.	6958137.	1346.	6112.	0.00
16.2000	-0.04853	12765.	-6394.	-0.02223	38525.	6958137.	1390.	5729.	0.00
16.4000	-0.05294	11514.	-6112.	-0.02188	34749.	6958137.	1431.	5407.	0.00
16.6000	-0.05728	10320.	-5822.	-0.02156	31146.	6958137.	1469.	5130.	0.00
16.8000	-0.06156	9185.	-5525.	-0.02128	27721.	6958137.	1505.	4889.	0.00
17.0000	-0.06579	8110.	-5221.	-0.02103	24477.	6958137.	1539.	4677.	0.00
17.2000	-0.06998	7097.	-4910.	-0.02082	21418.	6958137.	1571.	4489.	0.00
17.4000	-0.07412	6146.	-4593.	-0.02063	18550.	6958137.	1601.	4320.	0.00
17.6000	-0.07823	5260.	-4269.	-0.02046	15874.	6958137.	1630.	4167.	0.00
17.8000	-0.08230	4438.	-3941.	-0.02032	13395.	6958137.	1658.	4029.	0.00
18.0000	-0.08635	3683.	-3606.	-0.02020	11117.	6958137.	1685.	3902.	0.00
18.2000	-0.09038	2996.	-3267.	-0.02011	9042.	6958137.	1710.	3785.	0.00
18.4000	-0.09440	2377.	-2922.	-0.02003	7173.	6958137.	1735.	3677.	0.00
18.6000	-0.09840	1827.	-2573.	-0.01997	5514.	6958137.	1759.	3576.	0.00
18.8000	-0.1024	1347.	-2219.	-0.01993	4067.	6958137.	1783.	3483.	0.00
19.0000	-0.1064	939.4244	-1860.	-0.01989	2835.	6958137.	1806.	3395.	0.00
19.2000	-0.1103	603.5852	-1496.	-0.01987	1822.	6958137.	1828.	3313.	0.00
19.4000	-0.1143	340.8660	-1129.	-0.01986	1029.	6958137.	1850.	3236.	0.00
19.6000	-0.1183	152.1340	-756.5750	-0.01985	459.1480	6958137.	1871.	3163.	0.00
19.8000	-0.1223	38.2360	-380.3351	-0.01985	115.3983	6958137.	1892.	3094.	0.00

20.0000	-0.1262	0.00	0.00	-0.01985	0.00	6958137.	1912.	1515.	0.00

* The above values of total stress are combined axial and bending stresses.

Output Summary for Load Case No. 6:

Pile-head deflection = 0.95877681 meters
Computed slope at pile head = -0.09263098 radians
Maximum bending moment = 48044. kN-m
Maximum shear force = -9516. kN
Depth of maximum bending moment = 10.40000000 meters below pile head
Depth of maximum shear force = 14.20000000 meters below pile head
Number of iterations = 64
Number of zero deflection points = 1

Summary of Pile-head Responses for Conventional Analyses

Definitions of Pile-head Loading Conditions:

Load Type 1: Load 1 = Shear, V, kN, and Load 2 = Moment, M, kN-m
Load Type 2: Load 1 = Shear, V, kN, and Load 2 = Slope, S, radians
Load Type 3: Load 1 = Shear, V, kN, and Load 2 = Rot. Stiffness, R, kN-m/rad.
Load Type 4: Load 1 = Top Deflection, y, m, and Load 2 = Moment, M, kN-m
Load Type 5: Load 1 = Top Deflection, y, m, and Load 2 = Slope, S, radians

Load Case No.	Load Type	Pile-head Load 1	Load Type	Pile-head Load 2	Axial Loading kN	Pile-head Deflection meters	Pile-head Rotation radians	Max Shear in Pile kN	Max Moment in Pile kN-m
1	V, kN	200.0000	M, kN-m	0.00	0.00	0.00136	-3.13E-04	200.0000	333.4115
2	V, kN	600.0000	M, kN-m	0.00	0.00	0.00977	-0.00165	600.0000	1325.
3	V, kN	1000.0000	M, kN-m	0.00	0.00	0.03728	-0.00520	1000.0000	3862.
4	V, kN	1250.	M, kN-m	0.00	0.00	0.06911	-0.00892	1250.	6584.
5	V, kN	1500.	M, kN-m	0.00	0.00	0.1010	-0.01251	-1684.	9133.
6	V, kN	6000.	M, kN-m	0.00	0.00	0.9588	-0.09263	-9516.	48044.

Maximum pile-head deflection = 0.9587768113 meters
Maximum pile-head rotation = -0.0926309830 radians = -5.307364 deg.

Summary of Warning Messages

The following warning was reported 1472 times

**** Warning ****

An unreasonable input value for shear strength has been specified for a soil defined using the soft clay criteria. The input value is greater than 59.85 kPa. Please check your input data for correctness.

The analysis ended normally.