Table 1 - Summary of Pile Lateral Load Analyses (Individual Pile Response)

Pile Diameter	Pile Loading Condition	Lateral Load (kips)	Axial Load (kips)	Pile Head Deflection (in)	Max. Moment Bending (kip-in)	Max. Shear (kips)
18" Pile ($I = 5{,}153\ in^4$)	Fixed Head	21.5	300	0.25	1,272	21.5
	Free Head	10.25	300	0.25	508	10.25
24" Pile ($I = 16{,}286\ in^4$)	Fixed Head	34	400	0.25	2,510	34
	Free Head	16.5	400	0.25	1,001	16.5

Table 2 - Summary of Pile Lateral Load Analyses (Applying Reduction Factor for 1st Pile Row, P-multiplier = 0.8)

Pile Diameter	Pile Loading Condition	Lateral Load (kips)	Axial Load (kips)	Pile Head Deflection (in)	Max. Moment Bending (kip-in)	Max. Shear (kips)
18" Pile ($I = 5{,}153\ in^4$)	Fixed Head	18.3	300	0.25	1,140	18.3
	Free Head	8.75	300	0.25	462	8.75
24" Pile ($I = 16{,}286\ in^4$)	Fixed Head	29.5	400	0.25	2,307	29.5
	Free Head	14.25	400	0.25	922	14.25

Table 3 - Summary of Pile Lateral Load Analyses (Applying Reduction Factor for 2nd Pile Row, P-multiplier = 0.55)

Pile Diameter	Pile Loading Condition	Lateral Load (kips)	Axial Load (kips)	Pile Head Deflection (in)	Max. Moment Bending (kip-in)	Max. Shear (kips)
18" Pile ($I = 5{,}153\ in^4$)	Fixed Head	14.25	300	0.25	1,140	18.3
	Free Head	6.7	300	0.25	462	8.75
24" Pile ($I = 16{,}286\ in^4$)	Fixed Head	22.5	400	0.25	1,915	22.5
	Free Head	10.75	400	0.25	764	10.75

Table 4 - Summary of Pile Lateral Load Analyses (Applying Reduction Factor for 3rd to 5th Pile Rows, P-multiplier = 0.4)

Pile Diameter	Pile Loading Condition	Lateral Load (kips)	Axial Load (kips)	Pile Head Deflection (in)	Max. Moment Bending (kip-in)	Max. Shear (kips)
18" Pile ($I = 5{,}153\ in^4$)	Fixed Head	11.3	300	0.25	834	11.3
	Free Head	5.25	300	0.25	337	5.25
24" Pile ($I = 16{,}286\ in^4$)	Fixed Head	18.25	400	0.25	1,684	18.25
	Free Head	8.6	400	0.25	669	8.6