

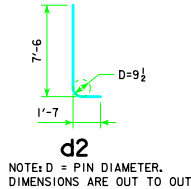
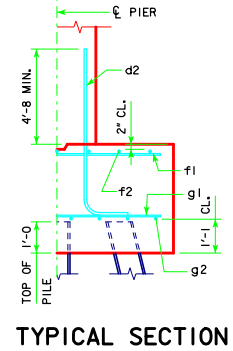
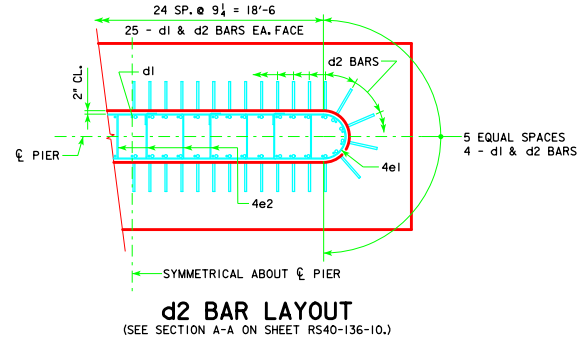
REVISED 05-13 - REVISION FOR LRFD PILE DESIGN.

H IN FT.	℄ - ℄ ABUT. BRG.	PILING (HP10x57)		FOOTING SIZE	
		NO. & LAYOUT	① LRFD Pu, STRENGTH I, DES. LOAD (KIPS)		
16 TO 18	160'-0	10A	211	4' x 8' x 26'	
	180'-0	11A	213		
	200'-0	12A	208		
	220'-0	13A	215		
	240'-0	14A	215		
	260'-0	14D	211		
	280'-0	15A	216		
	300'-0	16A	217		
19 TO 21	320'-0	16B	217	4' x 11' x 28'	
	340'-0	17A	218		
	160'-0	10B	215		4' x 9' x 26'
	180'-0	11B	216		
200'-0	12B	211			
220'-0	13B	214			
240'-0	14B	218			
260'-0	14D	210			
280'-0	16A	210			
22 TO 24	300'-0	16B	211	4' x 12' x 28'	
	320'-0	17A	213		
	340'-0	18A	212		
	160'-0	11B	209		4' x 10' x 26'
180'-0	12B	205			
200'-0	12C	214			
220'-0	13C	217			
240'-0	14D	208			
260'-0	15A	211			
280'-0	16A	214			
25 TO 27	300'-0	16B	215	4' x 11' x 28'	
	320'-0	17A	217		
	340'-0	18A	216		
	160'-0	11C	212		4' x 12' x 28'
180'-0	12C	207			
200'-0	12C	219			
220'-0	14C	211			
240'-0	14D	212			
260'-0	15A	216			
280'-0	16A	218			
28 TO 30	300'-0	16B	219	4' x 11' x 28'	
	320'-0	18A	211		
	340'-0	18A	220		
	160'-0	11C	217		4' x 10' x 26'
180'-0	12C	212			
200'-0	13B	214			
220'-0	14C	215			
240'-0	14D	216			
260'-0	15A	219			
280'-0	16B	210			
31 TO 33	300'-0	17A	213	4' x 11' x 28'	
	320'-0	18A	216		
	340'-0	19A	218		
	160'-0	12D	202		4' x 12' x 28'
180'-0	12D	214			
200'-0	13C	216			
220'-0	14C	219			
240'-0	14D	219			
260'-0	16A	211			
280'-0	16B	213			
34 TO 36	300'-0	17A	216	4' x 11' x 28'	
	320'-0	18A	216		
	340'-0	19A	218		
	160'-0	12D	207		4' x 12' x 28'
180'-0	12D	219			
200'-0	13D	213			
220'-0	14D	209			
240'-0	15A	214			
260'-0	16A	214			
280'-0	16B	216			
37 TO 40	300'-0	17A	219	4' x 13' x 28'	
	320'-0	18A	219		
	340'-0	19B	218		

H IN FT.	℄ - ℄ ABUT. BRG.	PILING (HP10x57)		FOOTING SIZE
		NO. & LAYOUT	① LRFD Pu, STRENGTH I, DES. LOAD (KIPS)	
37 TO 40	160'-0	12E	205	4' x 11' x 28'
	180'-0	12E	217	
	200'-0	13D	218	
	220'-0	14D	214	
	240'-0	15A	218	
	260'-0	16A	218	
	280'-0	16B	219	
	300'-0	18A	212	
37 TO 40	320'-0	19A	215	4' x 12' x 28'
	340'-0	20A	214	

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				TOTAL WEIGHT (L.B.)	STRUCTURAL CONCRETE (CY)
	BAR NO., SIZE & SPACING	LENGTH	WEIGHT (L.B.)			
4' x 8' x 26'	d2	58 - #9 AS SHOWN	9'-1	1791	3299	30.8
	f1	26 - #5 @ 1'-0	7'-8	208		
	f2	8 - #5 @ 1'-0	25'-8	214		
	g1	26 - #6 @ 1'-0	7'-8	299		
	g2	15 - #7 @ 0'-6	25'-8	787		
4' x 9' x 26'	d2	58 - #9 AS SHOWN	9'-1	1791	3445	34.7
	f1	26 - #5 @ 1'-0	8'-8	235		
	f2	9 - #5 @ 1'-0	25'-8	241		
	g1	30 - #6 @ 0'-10½	8'-8	391		
	g2	15 - #7 @ 0'-7	25'-8	787		
4' x 10' x 26'	d2	58 - #9 AS SHOWN	9'-1	1791	3716	38.5
	f1	26 - #5 @ 1'-0	9'-8	262		
	f2	10 - #5 @ 1'-0	25'-8	268		
	g1	29 - #7 @ 0'-10½	9'-8	573		
	g2	12 - #8 @ 0'-10	25'-8	822		
4' x 11' x 26'	d2	58 - #9 AS SHOWN	9'-1	1791	3965	42.4
	f1	26 - #5 @ 1'-0	10'-8	289		
	f2	11 - #5 @ 1'-0	25'-8	294		
	g1	27 - #8 @ 0'-11½	10'-8	769		
	g2	12 - #8 @ 0'-11	25'-8	822		
4' x 11' x 28'	d2	58 - #9 AS SHOWN	9'-1	1791	4705	45.6
	f1	28 - #5 @ 1'-0	10'-8	312		
	f2	11 - #5 @ 1'-0	27'-8	317		
	g1	34 - #8 @ 0'-10	10'-8	968		
	g2	14 - #9 @ 0'-9½	27'-8	1317		
4' x 12' x 28'	d2	58 - #9 AS SHOWN	9'-1	1791	5198	49.8
	f1	28 - #5 @ 1'-0	11'-8	341		
	f2	12 - #5 @ 1'-0	27'-8	346		
	g1	33 - #9 @ 0'-10	11'-8	1309		
	g2	15 - #9 @ 0'-9½	27'-8	1411		
4' x 13' x 28'	d2	58 - #9 AS SHOWN	9'-1	1791	5505	53.9
	f1	28 - #5 @ 1'-0	12'-8	370		
	f2	13 - #5 @ 1'-0	27'-8	375		
	g1	34 - #9 @ 0'-10	12'-8	1464		
	g2	16 - #9 @ 0'-10	27'-8	1505		

① NOTE: Pu, STRENGTH I DESIGN LOAD (KIPS) IS NOT THE VALUE USED IN THE FIELD FOR DRIVING PILES.



**FOOTING NOTES:**  
 THESE FOOTINGS ARE DESIGNED AND DETAILED TO BE USED WITH THE CAP AND COLUMN DETAILS OF THE TEE PIERS AS SHOWN ON SHEET RS40-136-10.  
 BATTER PILES IN EXTERIOR ROWS 1-4 IN THE DIRECTION SHOWN.  
 STEEL PILING USED AS POINT BEARING SHALL HAVE A MINIMUM DISTANCE OF APPROXIMATELY 10 FEET FROM BOTTOM OF FOOTING TO TOP OF BEARING ROCK. THE PILE LAYOUTS ARE SUCH THAT THE DISTANCE CENTER TO CENTER OF ADJACENT PILING SHALL NOT EXCEED 8'-0.  
 PIER PILES SHALL BE DRIVEN TO VALUES SHOWN IN DESIGN PLANS.

05-13 LATEST REVISION DATE  <i>Thomas E. McQuinn</i> APPROVED BY BRIDGE ENGINEER	STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES <b>ROLLED STEEL BEAM BRIDGES</b> JUNE, 2010	
	<b>TEE PIER-HP10x57 SRL-2 STEEL PILE FOOTINGS</b>	<b>RS40-141-10</b>
	20° SKEW - SHEET 1	