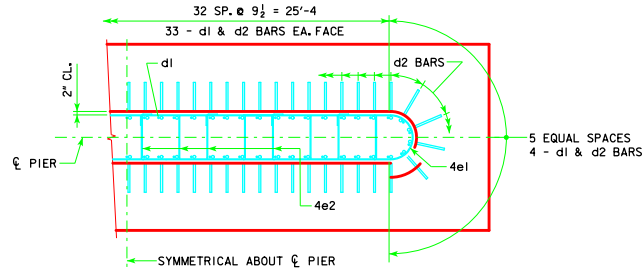


H IN ABUT. FT.	C - C	PILING (HP10x57)			FOOTING SIZE	
		NO. & LAYOUT	① LRFD P <sub>u</sub> , STRENGTH I, DES. LOAD (KIPS)			
16 TO 18	160'-0	12A	197	4' x 7' x 32'		
	180'-0	12A	210			
	200'-0	12B	212			
	220'-0	13A	217			
	240'-0	14A	214			
	260'-0	15A	218			
	280'-0	16A	219			
	300'-0	16C	218			
19 TO 21	320'-0	18A	210	4' x 11' x 32'		
	340'-0	18A	219			
	160'-0	12A	204		4' x 7' x 32'	
	180'-0	12A	218			
200'-0	12B	218				
220'-0	14A	205				
22 TO 24	240'-0	15A	211	4' x 8' x 32'		
	260'-0	16A	210			
	280'-0	17A	215			
	300'-0	17B	214			
	320'-0	18A	215			
	340'-0	19A	217			
	25 TO 27	160'-0	12A		211	4' x 9' x 32'
		180'-0	12B		213	
200'-0		13A	214			
220'-0		14A	212			
240'-0		15B	214			
260'-0		16A	215			
280'-0		17B	208			
300'-0		17B	219			
28 TO 30	320'-0	18A	220	4' x 11' x 32'		
	340'-0	20A	214			
	160'-0	12B	206		4' x 8' x 32'	
	180'-0	12B	219			
	200'-0	14A	203			
	220'-0	14B	214			
	240'-0	15C	218			
	260'-0	16B	218			
280'-0	17B	212				
31 TO 33	300'-0	18A	213	4' x 10' x 32'		
	320'-0	19A	217			
	340'-0	20B	217			
	160'-0	12B	212		4' x 9' x 32'	
	180'-0	13A	214			
	200'-0	14B	205			
	220'-0	14B	219			
	240'-0	16B	210			
260'-0	16C	211				
280'-0	17B	216				
34 TO 36	300'-0	18A	217	4' x 12' x 32'		
	320'-0	19B	219			
	340'-0	20C	219			
	160'-0	12C	215		4' x 10' x 32'	
	180'-0	13B	217			
	200'-0	14B	212			
	220'-0	15C	213			
	240'-0	16B	215			
260'-0	16C	215				
280'-0	17C	219				
37 TO 40	300'-0	18B	220	4' x 11' x 32'		
	320'-0	20C	213			
	340'-0	21A	215			
	160'-0	13B	211		4' x 12' x 32'	
	180'-0	14B	208			
	200'-0	14C	214			
	220'-0	15C	219			
	240'-0	16C	208			
260'-0	17B	212				
280'-0	18B	212				
37 TO 40	300'-0	19C	219	4' x 14' x 32'		
	320'-0	20C	217			
	340'-0	21A	219			
	160'-0	13C	215		4' x 14' x 34'	
180'-0	14C	211				
200'-0	15C	214				
220'-0	15D	217				
37 TO 40	240'-0	16C	216	4' x 12' x 32'		
	260'-0	17C	216			
	280'-0	18B	219			
	300'-0	19C	219			
37 TO 40	320'-0	20D	211	4' x 14' x 32'		
	340'-0	21B	211			

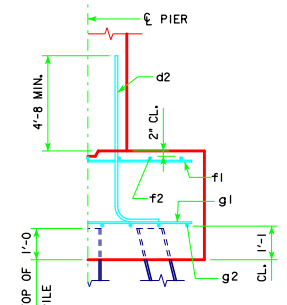
H IN ABUT. FT.	C - C	PILING (HP10x57)			FOOTING SIZE
		NO. & LAYOUT	① LRFD P <sub>u</sub> , STRENGTH I, DES. LOAD (KIPS)		
16 TO 18	160'-0	13C	215	4' x 10' x 32'	
	180'-0	14C	211		
	200'-0	15C	214		
	220'-0	15D	217		
	240'-0	16C	216		
	260'-0	17C	216		
	280'-0	18B	219		
	300'-0	19C	219		
19 TO 21	320'-0	20D	211	4' x 14' x 32'	
	340'-0	21B	211		

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				TOTAL WEIGHT (L.B.)	STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (L.B.)		
4' x 7' x 32'	d2	74 - #9 AS SHOWN	9'-1	2285	3487	33.2
	f1	32 - #5 @ 1'-0	6'-8	223		
	f2	7 - #5 @ 1'-0	31'-8	231		
	g1	32 - #6 @ 1'-0	6'-8	320		
	g2	9 - #6 @ 0'-9½	31'-8	428		
4' x 8' x 32'	d2	74 - #9 AS SHOWN	9'-1	2285	3791	37.9
	f1	32 - #5 @ 1'-0	7'-8	256		
	f2	8 - #5 @ 1'-0	31'-8	264		
	g1	32 - #6 @ 1'-0	7'-8	368		
	g2	13 - #6 @ 0'-7½	31'-8	618		
4' x 9' x 32'	d2	74 - #9 AS SHOWN	9'-1	2285	3984	42.7
	f1	32 - #5 @ 1'-0	8'-8	289		
	f2	9 - #5 @ 1'-0	31'-8	297		
	g1	38 - #6 @ 0'-10	8'-8	495		
	g2	13 - #6 @ 0'-8½	31'-8	618		
4' x 10' x 32'	d2	74 - #9 AS SHOWN	9'-1	2285	4267	47.4
	f1	32 - #5 @ 1'-0	9'-8	323		
	f2	10 - #5 @ 1'-0	31'-8	330		
	g1	36 - #7 @ 0'-10½	9'-8	711		
	g2	13 - #6 @ 0'-9½	31'-8	618		
4' x 11' x 32'	d2	74 - #9 AS SHOWN	9'-1	2285	4813	52.1
	f1	32 - #5 @ 1'-0	10'-8	356		
	f2	11 - #5 @ 1'-0	31'-8	363		
	g1	34 - #8 @ 0'-11	10'-8	968		
	g2	13 - #7 @ 0'-10½	31'-8	841		
4' x 12' x 32'	d2	74 - #9 AS SHOWN	9'-1	2285	5180	56.9
	f1	32 - #5 @ 1'-0	11'-8	389		
	f2	12 - #5 @ 1'-0	31'-8	396		
	g1	32 - #9 @ 1'-0	11'-8	1269		
	g2	13 - #7 @ 0'-11½	31'-8	841		
4' x 14' x 32'	d2	74 - #9 AS SHOWN	9'-1	2285	5871	66.4
	f1	32 - #5 @ 1'-0	13'-8	456		
	f2	14 - #5 @ 1'-0	31'-8	462		
	g1	39 - #9 @ 0'-9½	13'-8	1812		
	g2	18 - #6 @ 0'-9½	31'-8	856		
4' x 14' x 34'	d2	74 - #9 AS SHOWN	9'-1	2285	6875	70.5
	f1	34 - #5 @ 1'-0	13'-8	485		
	f2	14 - #5 @ 1'-0	33'-8	492		
	g1	41 - #9 @ 0'-10	13'-8	1905		
	g2	19 - #8 @ 0'-9	33'-8	1708		

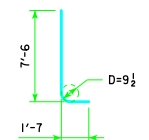
① NOTE: P<sub>u</sub>, STRENGTH I DESIGN LOAD (KIPS) IS NOT THE VALUE USED IN THE FIELD FOR DRIVING PILES.



**d2 LAYOUT**  
(SEE SECTION A-A ON SHEET RS40-156-10.)



**TYPICAL SECTION**



**d2**  
NOTE: D = PIN DIAMETER. DIMENSIONS ARE OUT TO OUT.

**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 RS40-156-10.

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>Norman 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> 45° SKEW - SHEET 1	<b>RS40-161-10</b>