

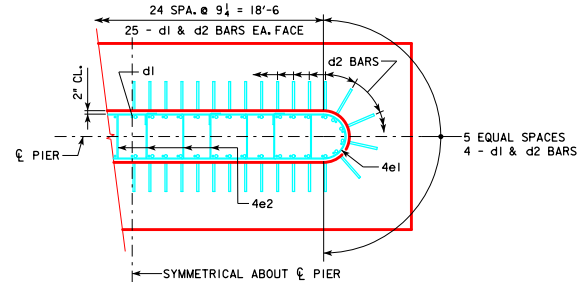
REVISED 02-2017 - CHANGED VERTICAL CLEARANCE OF REBAR "f2" TO TOP OF PIER FOOTING TO 3" WAS 2".

H IN FT.	CL IN FT.	PILING (HP10x57)			FOOTING SIZE
		NO. & LAYOUT	LRFD P <sub>u</sub> , DES. STRENGTH (KIPS)	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		
	320'-0"	16B	217		
	340'-0"	17A	218		
19 TO 21	160'-0"	10B	216		4' x 9' x 26'
	180'-0"	11B	216		
	200'-0"	12B	211		
	220'-0"	13B	214		
	240'-0"	14B	218		
	260'-0"	14D	216		
	280'-0"	16A	210		
	300'-0"	16B	211		
	320'-0"	17A	213		
	340'-0"	18A	212		
22 TO 24	160'-0"	11B	209		4' x 9' 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		
	300'-0"	16B	215		
	320'-0"	17A	217		
	340'-0"	18A	216		
25 TO 27	160'-0"	11C	212		4' x 10' x 26'
	180'-0"	12C	207		
	200'-0"	12C	219		
	220'-0"	14C	211		
	240'-0"	14D	212		
	260'-0"	15A	216		
	280'-0"	16A	218		
	300'-0"	16B	219		
	320'-0"	18A	211		
	340'-0"	18A	220		
28 TO 30	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		
	300'-0"	17A	213		
	320'-0"	18A	214		
	340'-0"	19A	215		
31 TO 33	160'-0"	12D	202		4' x 11' x 26'
	180'-0"	12D	214		
	200'-0"	13C	216		
	220'-0"	14C	219		
	240'-0"	14D	219		
	260'-0"	16A	211		
	280'-0"	16B	213		
	300'-0"	17A	216		
	320'-0"	18A	216		
	340'-0"	19A	218		
34 TO 36	160'-0"	12D	207		4' x 11' x 26'
	180'-0"	12D	219		
	200'-0"	13D	213		
	220'-0"	14D	209		
	240'-0"	15A	214		
	260'-0"	16A	214		
	280'-0"	16B	216		
	300'-0"	17A	219		
	320'-0"	18A	219		
	340'-0"	19B	218		

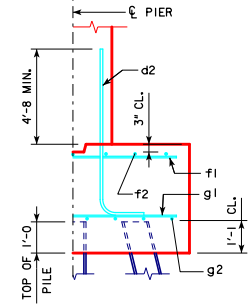
H IN FT.	CL IN FT.	PILING (HP10x57)			FOOTING SIZE
		NO. & LAYOUT	LRFD P <sub>u</sub> , DES. STRENGTH (KIPS)	DES. LOAD (KIPS)	
37 TO 40	160'-0"	12E	205		4' x 11' x 28'
	180'-0"	12E	217		
	200'-0"	13D	218		
	220'-0"	14D	214		
	240'-0"	15A	218		
	260'-0"	16A	218		
	280'-0"	16B	219		
	300'-0"	18A	212		
	320'-0"	19A	215		
	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'-10 1/2"	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'-10 1/2"	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'-11 1/2"	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'-9 1/2"	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'-9 1/2"	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		

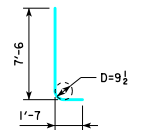
① NOTE: P<sub>u</sub> STRENGTH | DESIGN LOAD (KIPS) IS NOT THE VALUE USED IN THE FIELD FOR DRIVING PILES.



**d2 BAR LAYOUT**  
(SEE SECTION A-A ON SHEET RS40-136-14.)



**TYPICAL SECTION**



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

NOTE: THE REINFORCING STEEL QUANTITY IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.

NOTE: THE CONCRETE QUANTITY IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.

NOTE: THE PILE TYPE IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.

**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 RS40-136-14.

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.

LATEST REVISION DATE 02-2017 APPROVED BY BRIDGE ENGINEER 	 STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES <b>ROLLED STEEL BEAM BRIDGES</b> OCTOBER, 2014
	<b>TEE PIER-HP10x57 SRL-2 STEEL PILE FOOTINGS</b>
	<b>RS40-141-14</b> 20° SKEW - SHEET 1