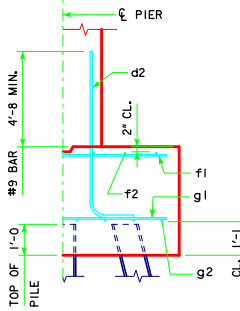
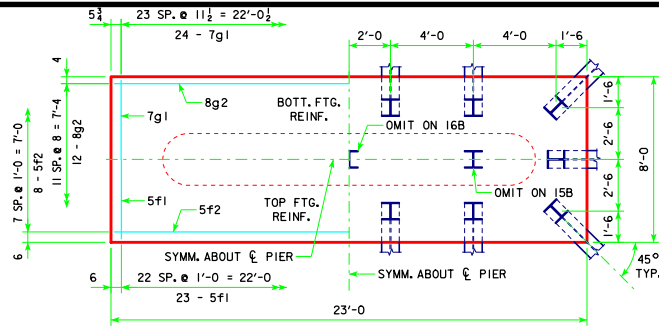


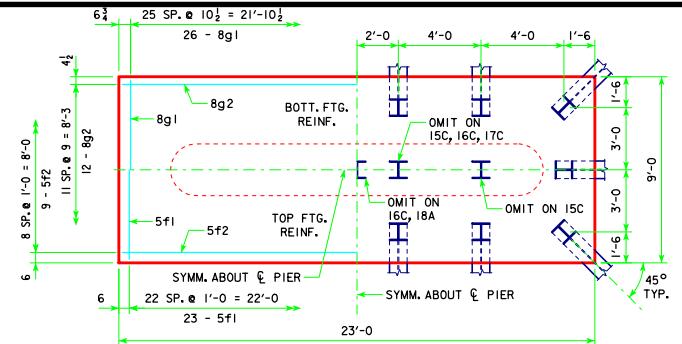
REVISED 05-13 - REVISION FOR LRFD PILE DESIGN.



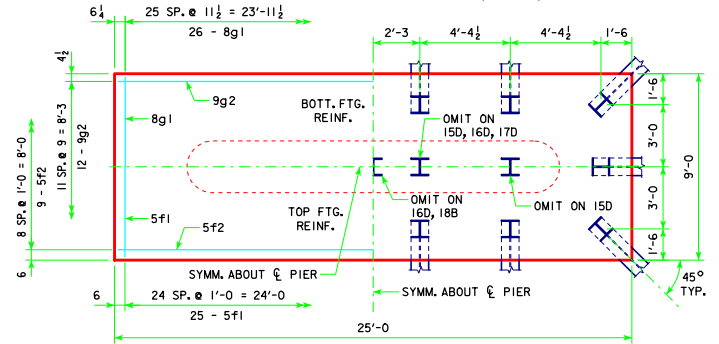
**TYPICAL SECTION**



**4'-0 x 8'-0 x 23'-0 FOR 15B, 16B & 17B**

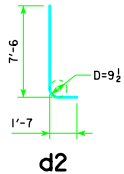


**4'-0 x 9'-0 x 23'-0 FOR 15C, 16C, 17C & 18A**



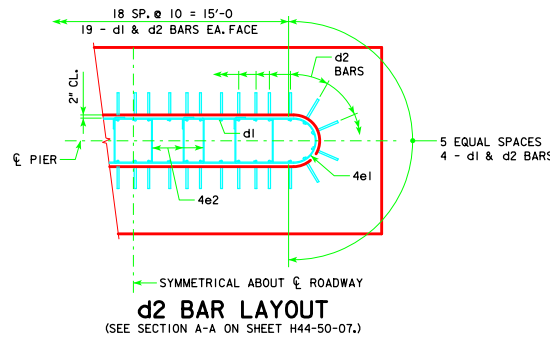
**4'-0 x 9'-0 x 25'-0 FOR 15D, 16D, 17D & 18B**

H IN FT.	C - P C	PILING (HP10x57)		FOOTING SIZE	
		NO. & LAYOUT	① LRFD PU, STRENGTH I DES. BRG. (KIPS)		
27 TO 30	21	201'-4	15B	214	4' x 8' x 23'
		213'-10	16B	208	
		225'-4	16B	218	
		243'-0	17B	219	
30 25 TO 33	27	201'-4	15C	213	4' x 9' x 23'
		213'-10	16C	207	
		226'-4	16C	217	
		243'-0	17C	218	
33 28 TO 36	33	201'-4	15C	216	4' x 9' x 23'
		213'-10	16C	210	
		226'-4	16C	219	
		243'-0	18A	212	
36 31 TO 40	36	201'-4	15D	214	4' x 9' x 25'
		213'-10	16D	208	
		226'-4	16D	217	
		243'-0	18B	209	
40 34 TO 43	40	201'-4	15D	218	4' x 9' x 25'
		213'-10	16D	212	
		226'-4	17D	213	
		243'-0	18B	213	



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

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)			TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
	BAR NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)		
4' x 8' x 23'	d2 46 - #9 AS SHOWN	9'-1	1421	2896	27.3
	f1 23 - #5 @ 1'-0	7'-8	184		
	f2 8 - #5 @ 1'-0	22'-8	189		
	g1 24 - #7 @ 0'-11 1/2	7'-8	376		
	g2 12 - #8 @ 0'-9	22'-8	726		
4' x 9' x 23'	d2 46 - #9 AS SHOWN	9'-1	1421	3170	30.7
	f1 23 - #5 @ 1'-0	8'-8	208		
	f2 9 - #5 @ 1'-0	22'-8	213		
	g1 26 - #8 @ 0'-10 1/2	8'-8	602		
	g2 12 - #8 @ 0'-9	22'-8	726		
4' x 9' x 25'	d2 46 - #9 AS SHOWN	9'-1	1421	3487	33.3
	f1 25 - #5 @ 1'-0	8'-8	232		
	f2 9 - #5 @ 1'-0	24'-8	232		
	g1 26 - #8 @ 0'-11 1/2	8'-8	602		
	g2 12 - #9 @ 0'-9	24'-8	1006		



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 H44-50-07.

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 05-13	APPROVED BY BRIDGE ENGINEER <i>Thomas E. M. ...</i>	 <b>Iowa Department of Transportation</b> Highway Division	STANDARD DESIGN - 44' ROADWAY, THREE SPAN BRIDGE <b>PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES</b> MARCH, 2007
			<b>TEE PIER-HP10x57 SRL-2 STEEL PILE FOOTINGS</b> 0° SKEW - H=25' TO 40'