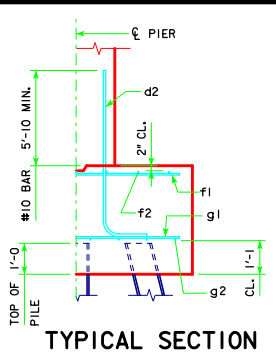
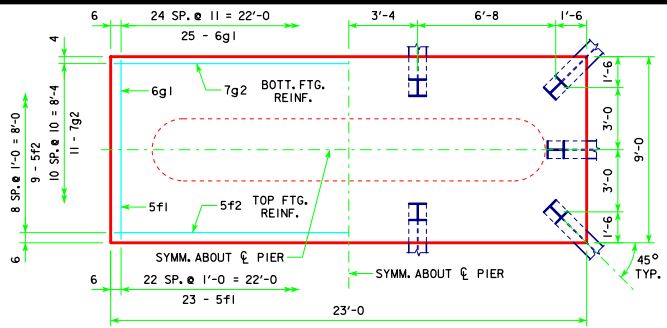


REVISED 05-13 - REVISION FOR LRFD PILE DESIGN.

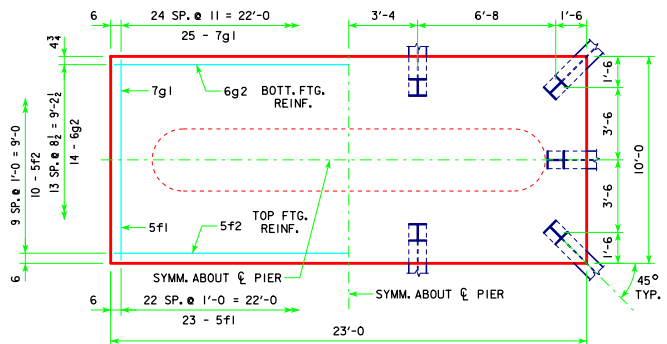


H IN.	CL - CL ABUT. BRG.	PILING (HP10x57)		FOOTING SIZE
		NO. & LAYOUT	(1) LRFD P <sub>u</sub> STRENGTH I <sub>s</sub> DES. LOAD (KIPS)	
201'-4	10B	193		
213'-10	10B	199		4' x 9' x 23'
226'-4	10B	206		
243'-0	10B	212		
201'-4	10C	197		
213'-10	10C	203		4' x 10' x 23'
226'-4	10C	210		
243'-0	10C	216		
201'-4	10D	203		
213'-10	10D	209		4' x 11' x 24'
226'-4	10D	215		
243'-0	10D	220		
201'-4	10E	208		
213'-10	10E	213		4' x 12' x 26'
226'-4	10E	219		
243'-0	11A	211		
201'-4	10E	219		
213'-10	11A	213		4' x 12' x 26'
226'-4	11A	218		
243'-0	12A	203		

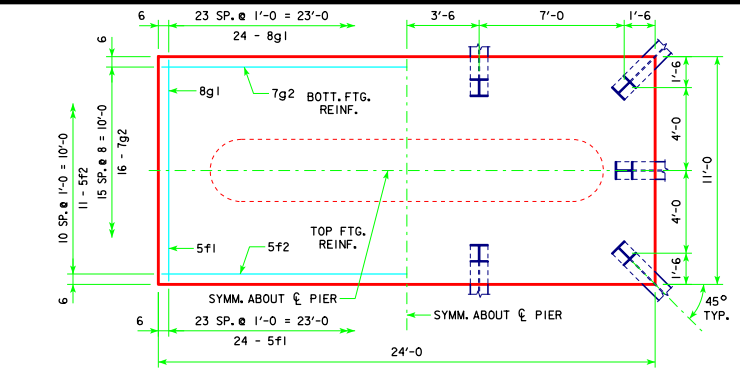
FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)		
4' x 9' x 23'	d2	44 - #10 AS SHOWN	10'-6	1988	3244	30.7
	f1	23 - #5 @ 1'-0	8'-8	208		
	f2	9 - #5 @ 1'-0	22'-8	213		
	g1	25 - #6 @ 0'-11	8'-8	325		
	g2	11 - #7 @ 0'-10	22'-8	510		
4' x 10' x 23'	d2	44 - #10 AS SHOWN	10'-6	1988	3427	34.1
	f1	23 - #5 @ 1'-0	9'-8	232		
	f2	10 - #5 @ 1'-0	22'-8	236		
	g1	25 - #7 @ 0'-11	9'-8	494		
	g2	14 - #6 @ 0'-8	22'-8	477		
4' x 11' x 24'	d2	44 - #10 AS SHOWN	10'-6	1988	3985	39.1
	f1	24 - #5 @ 1'-0	10'-8	267		
	f2	11 - #5 @ 1'-0	23'-8	272		
	g1	24 - #8 @ 1'-0	10'-8	684		
	g2	16 - #7 @ 0'-8	23'-8	774		
4' x 12' x 26'	d2	44 - #10 AS SHOWN	10'-6	1988	4837	46.2
	f1	26 - #5 @ 1'-0	11'-8	316		
	f2	12 - #5 @ 1'-0	25'-8	321		
	g1	29 - #8 @ 0'-10	11'-8	903		
	g2	15 - #9 @ 0'-9	25'-8	1309		



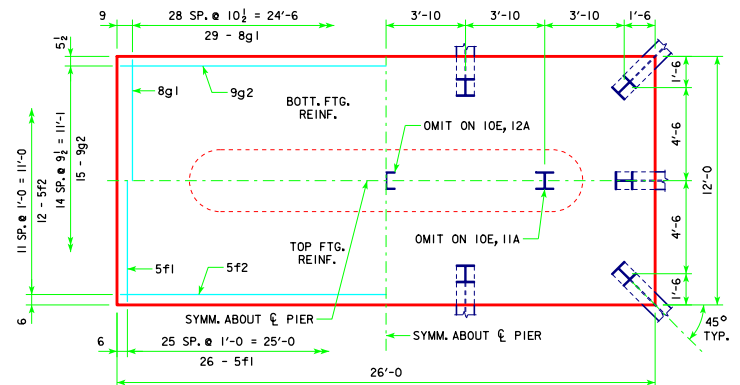
4'-0 x 9'-0 x 23'-0 FOR 10B



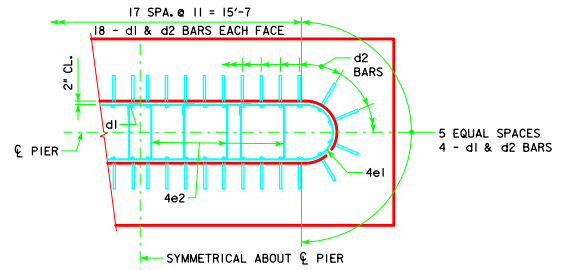
4'-0 x 10'-0 x 23'-0 FOR 10C



4'-0 x 11'-0 x 24'-0 FOR 10D

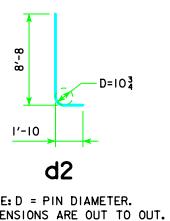


4'-0 x 12'-0 x 26'-0 FOR 10E, 11A & 12A



d2 BAR LAYOUT  
(SEE SECTION A-A ON SHEET H24-64-06.)

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



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 H24-64-06.

BATTER PILES IN EXTERIOR ROWS I4 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  
*Thomas E. McQuill*  
APPROVED BY BRIDGE ENGINEER

**Iowa Department of Transportation**  
Highway Division  
STANDARD DESIGN - 24' ROADWAY, THREE SPAN BRIDGE  
**PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES**  
DECEMBER, 2006  
**TEE PIER-HP10x57 SRL-2 STEEL PILE FOOTINGS**  
30° SKEW - H=25' TO 40'  
**H24-68-06**