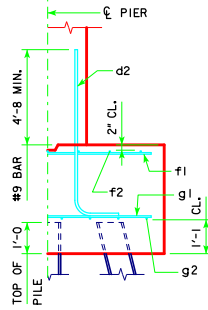
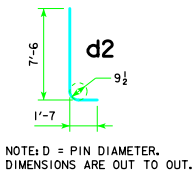


REVISED 05-13 - REVISION FOR LRFD PILE DESIGN.



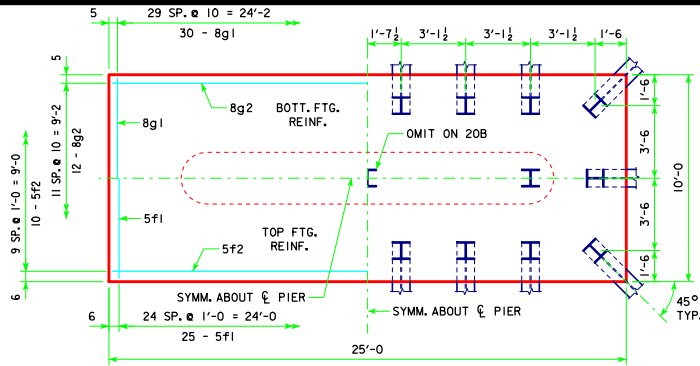
TYPICAL SECTION



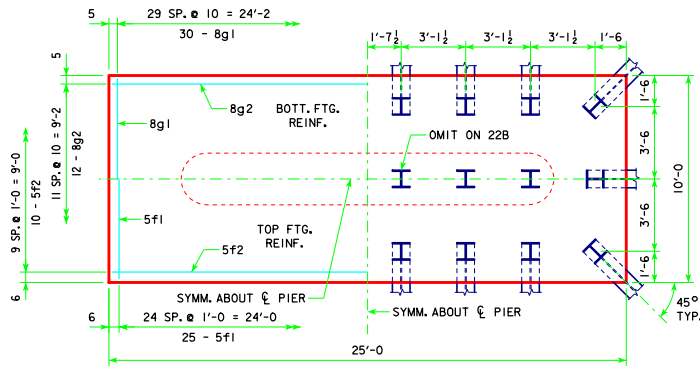
NOTE: D = PIN DIAMETER. DIMENSIONS ARE OUT TO OUT.

H IN. FT.	CL. ABUT. BRG.	P. NO. & LAYOUT	PILING (HP10x57)		FOOTING SIZE
			(1) LRFD PU. STRENGTH I DES. LOAD (KIPS)		
201'-4	20B	145			4' x 10' x 25'
213'-10	21B	146			
226'-4	22B	147			
243'-0	24A	144			
201'-4	21C	142			4' x 10' x 26'
213'-10	21C	147			
226'-4	22C	144			
243'-0	24B	140			
201'-4	21C	144			4' x 10' x 26'
213'-10	22C	146			
226'-4	22C	146			
243'-0	24B	142			
201'-4	21C	146			4' x 10' x 26'
213'-10	22C	144			
226'-4	23B	144			
243'-0	24B	144			
201'-4	22C	140			4' x 10' x 26'
213'-10	22C	145			
226'-4	23B	147			
243'-0	24B	146			

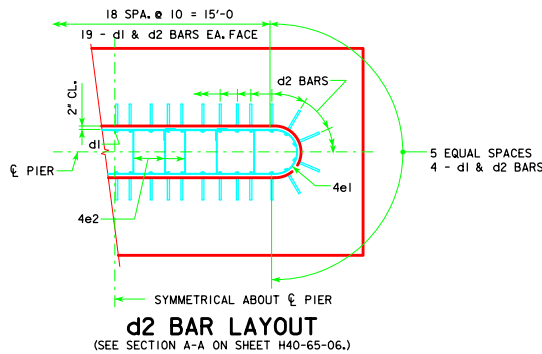
FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)		
4' x 10' x 25'	d2	46 - #9 AS SHOWN	9'-1	1421	3494	37.0
	f1	25 - #5 @ 1'-0	9'-8	252		
	f2	10 - #5 @ 1'-0	24'-8	257		
	g1	30 - #8 @ 0'-10	9'-8	774		
4' x 10' x 26'	g2	12 - #8 @ 0'-10	24'-8	790	3876	38.5
	d2	46 - #9 AS SHOWN	9'-1	1421		
	f1	26 - #5 @ 1'-0	9'-8	262		
	f2	10 - #5 @ 1'-0	25'-8	268		
	g1	34 - #8 @ 0'-9	9'-8	878		
	g2	12 - #9 @ 0'-10	25'-8	1047		



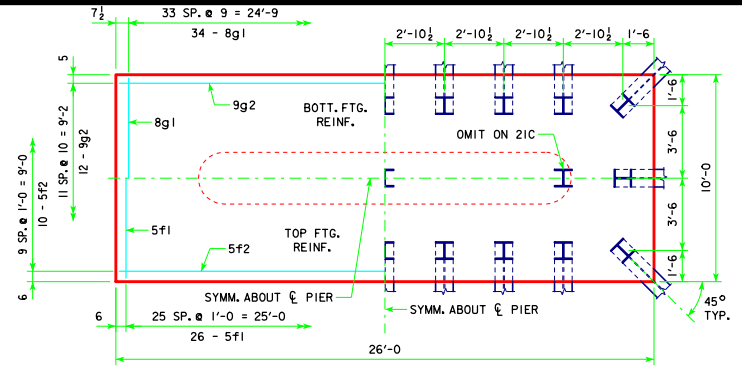
4'-0 x 10'-0 x 25'-0 FOR 20B & 21B



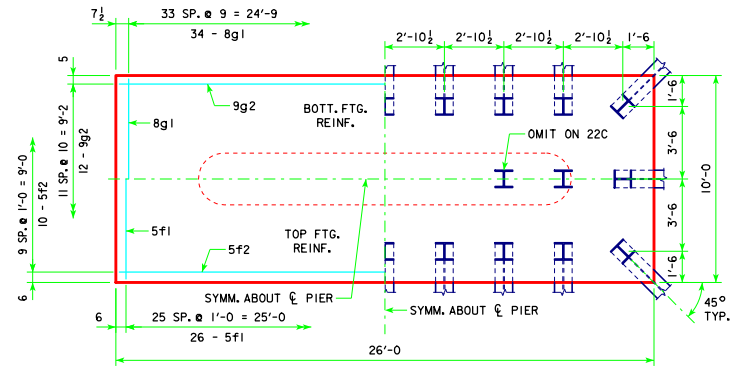
4'-0 x 10'-0 x 25'-0 FOR 22B & 24A



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



4'-0 x 10'-0 x 26'-0 FOR 21C & 23B



4'-0 x 10'-0 x 26'-0 FOR 22C & 24B

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 H40-65-06.

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
Thomas E. McQuinn

Iowa Department of Transportation
Highway Division
STANDARD DESIGN - 40' ROADWAY, THREE SPAN BRIDGE
PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES
AUGUST, 2009

TEE PIER-HP10x57 SRL-1 STEEL PILE FOOTINGS **H40-68-06**
15° SKEW - H-25' TO 40'