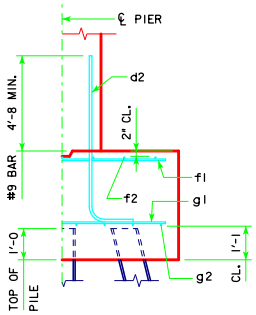
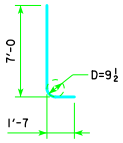


TYPICAL SECTION

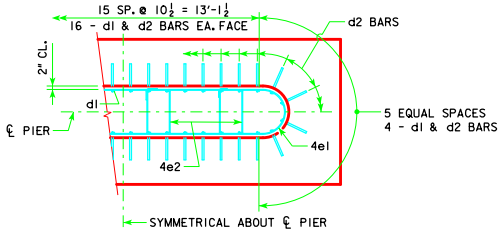


d2

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

H IN FT.	℄ - ℄ ABUT. BRG.	PILING (HP10x57) NO. & LAYOUT	PILING (HP10x57) ① LRFD Pu, STRENGTH I, DES. LOAD (KIPS)	FOOTING SIZE
16 TO 18	201'-4	10A	210	3'-6 x 8' x 20'
	213'-10	10A	218	
	226'-4	11A	213	
	243'-0	12A	204	
19 TO 21	201'-4	10A	216	3'-6 x 8' x 20'
	213'-10	11A	210	
	226'-4	11A	219	
	243'-0	12A	209	
22 TO 24	201'-4	10B	218	3'-6 x 9' x 20'
	213'-10	11B	211	
	226'-4	12B	203	
	243'-0	12B	210	

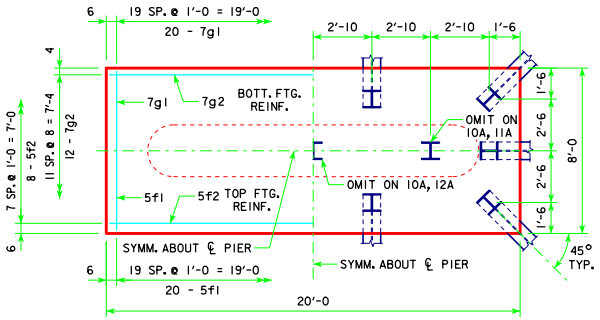
FOOTING SIZE	REINFORCING STEEL (ONE FOOTING) BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)	TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
3'-6 x 8' x 20'	d2	40 - #9 AS SHOWN	8'-7	1167	2286	20.7
	f1	20 - #5 @ 1'-0	7'-8	160		
	f2	8 - #5 @ 1'-0	19'-8	164		
	g1	20 - #7 @ 1'-0	7'-8	313		
	g2	12 - #7 @ 0'-8	19'-8	482		
3'-6 x 9' x 20'	d2	40 - #9 AS SHOWN	8'-7	1167	2501	23.3
	f1	20 - #5 @ 1'-0	8'-8	181		
	f2	9 - #5 @ 1'-0	19'-8	185		
	g1	21 - #8 @ 0'-11½	8'-8	486		
	g2	12 - #7 @ 0'-9	19'-8	482		



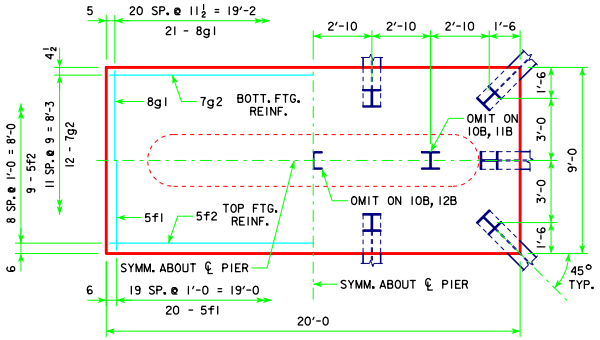
d2 BAR LAYOUT

(SEE SECTION A-A ON SHEET H30-64-06.)

① NOTE: PU, STRENGTH I DESIGN LOAD (KIPS) IS NOT THE VALUE USED IN THE FIELD FOR DRIVING PILES.



3'-6 x 8'-0 x 20'-0 FOR 10A, 11A & 12A



3'-6 x 9'-0 x 20'-0 FOR 10B, 11B & 12B

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 H30-57-06.

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.

REVISED 04-13 - REVISION FOR LRFD PILE DESIGN.

04-13
LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

Iowa Department of Transportation
Highway Division

STANDARD DESIGN - 30' ROADWAY, THREE SPAN BRIDGES

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

DECEMBER, 2006

TEE PIER-HP10x57 SRL-2 STEEL PILE FOOTINGS

15° SKEW - H=16' to 24'

H30-67-06