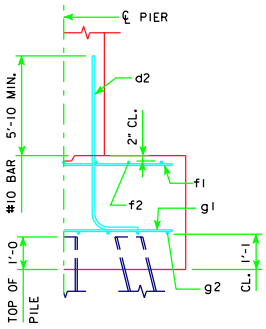
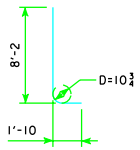


TYPICAL SECTION

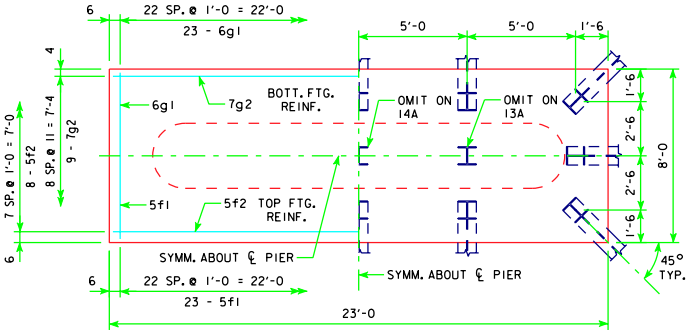


d2

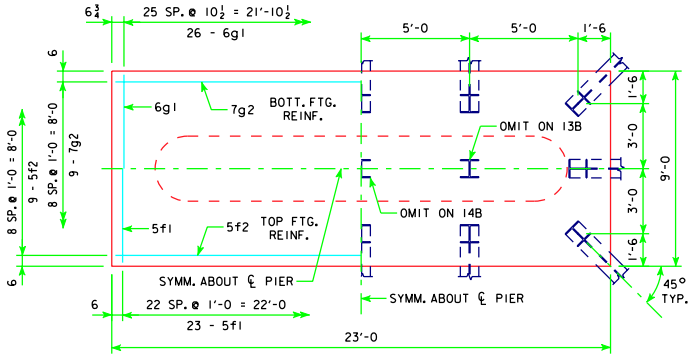
NOTE: D = PIN DIAMETER.
DIMENSIONS ARE OUT TO OUT.

H IN FT.	℄ - ℄ ABUT. BRG.	PILING (HP10x57) NO. & LAYOUT	① DES. BRG. (TONS)	② LRFD DES. BRG. (KIPS)	FOOTING SIZE
16 TO 18	201'-4	13A	48	139	3'-6 x 8' x 23'
	213'-10	13A	50	145	
	226'-4	14A	49	141	
	243'-0	15A	49	140	
19 TO 21	201'-4	13B	50	143	3'-6 x 9' x 23'
	213'-10	14B	48	139	
	226'-4	14B	50	145	
	243'-0	15B	50	143	
22 TO 24	201'-4	13C	50	147	3'-6 x 10' x 23'
	213'-10	14C	49	142	
	226'-4	15C	49	141	
	243'-0	15C	50	146	

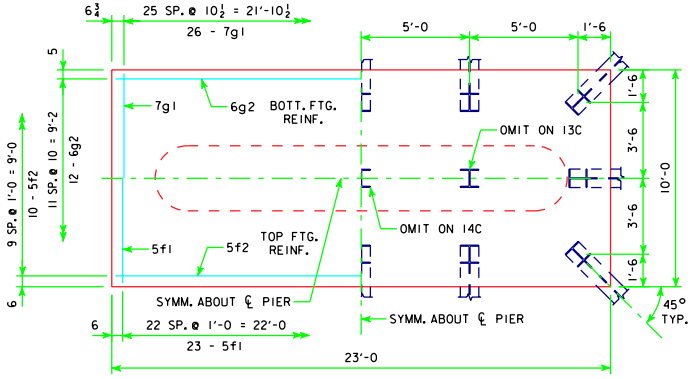
FOOTING SIZE	REINFORCING STEEL (ONE FOOTING) BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)	TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
3'-6 x 8' x 23'	d2	44 - #10 AS SHOWN	10'-0	1893	2948	23.9
	f1	23 - #5 @ 1'-0	7'-8	184		
	f2	8 - #5 @ 1'-0	22'-8	189		
	g1	23 - #6 @ 1'-0	7'-8	265		
	g2	9 - #7 @ 0'-11	22'-8	417		
3'-6 x 9' x 23'	d2	44 - #10 AS SHOWN	10'-0	1893	3069	26.8
	f1	23 - #5 @ 1'-0	8'-8	208		
	f2	9 - #5 @ 1'-0	22'-8	213		
	g1	26 - #6 @ 0'-10½	8'-8	338		
	g2	9 - #7 @ 1'-0	22'-8	417		
3'-6 x 10' x 23'	d2	44 - #10 AS SHOWN	10'-0	1893	3284	29.8
	f1	23 - #5 @ 1'-0	9'-8	232		
	f2	10 - #5 @ 1'-0	22'-8	236		
	g1	26 - #7 @ 0'-10½	9'-8	514		
	g2	12 - #6 @ 0'-10	22'-8	409		



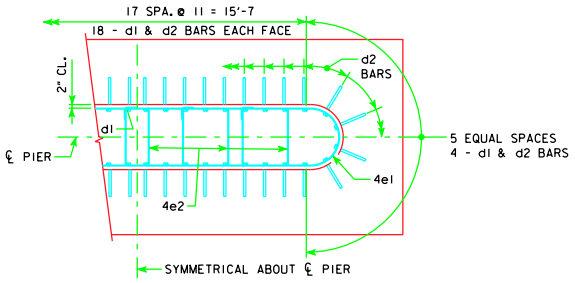
3'-6 x 8'-0 x 23'-0 FOR 13A, 14A & 15A



3'-6 x 9'-0 x 23'-0 FOR 13B, 14B & 15B



3'-6 x 10'-0 x 23'-0 FOR 13C, 14C & 15C



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

① FOR DETERMINING ACTUAL PILE LENGTHS IN FIELD.

② FOR ESTIMATING PILE LENGTHS USING AASHTO LRFD SPECIFICATIONS.

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 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.

01-10
LATEST REVISION DATE

Norman R. McDonald
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 - 50 TON STEEL PILE FOOTINGS

30° SKEW - H=16' TO 24'

H24-65-06

REVISED 01-10 - SHEET WAS REVISED TO MEET LRFD SPECIFICATIONS.