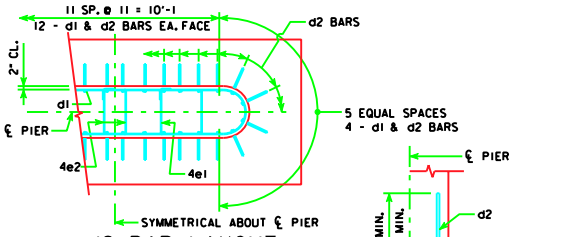
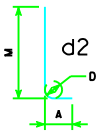


d2 BAR LAYOUT

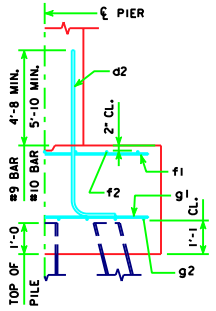
(SEE SECTION A-A ON SHEET H30-54-06.)



d2 DIMENSIONS			
H IN FT.	D	M	A
25 TO 36	9½	7'-6	1'-7
37 TO 40	10¾	8'-8	1'-10

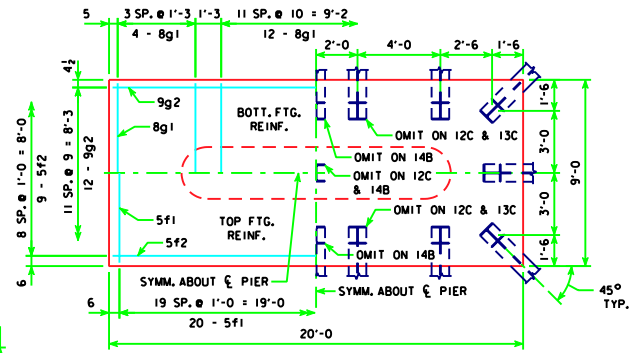
NOTE: D = PIN DIAMETER.
DIMENSIONS ARE OUT TO OUT.

H IN FT.	℄ - ℄ ABUT. BRG.	PILING NO. & LAYOUT	PILING DES. BRG. (TONS)	FOOTING SIZE
25 TO 27	201'-4	12C	49	4' x 9' x 20'
	213'-10	12C	50	
	226'-4	13C	49	
	243'-0	14B	48	
28 TO 30	201'-4	12D	50	4' x 10' x 20'
	213'-10	14C	45	
	226'-4	14C	47	
	243'-0	14C	49	
31 TO 33	201'-4	12E	50	4' x 11' x 21'
	213'-10	13D	49	
	226'-4	13D	50	
	243'-0	14D	49	
34 TO 36	201'-4	14E	46	4' x 11'-6 x 23'
	213'-10	14E	47	
	226'-4	14E	48	
	243'-0	14E	50	
37 TO 40	201'-4	14F	46	4' x 11'-6 x 25'
	213'-10	14F	47	
	226'-4	14F	49	
	243'-0	14F	50	

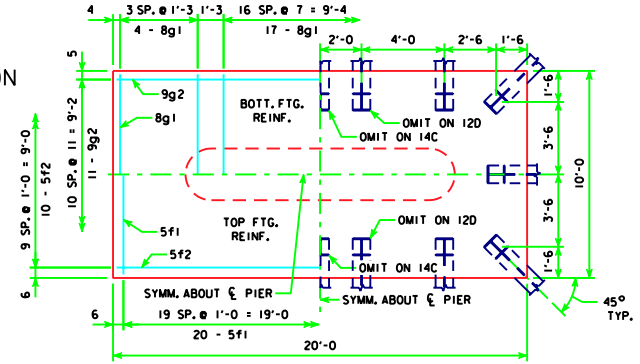


TYPICAL SECTION

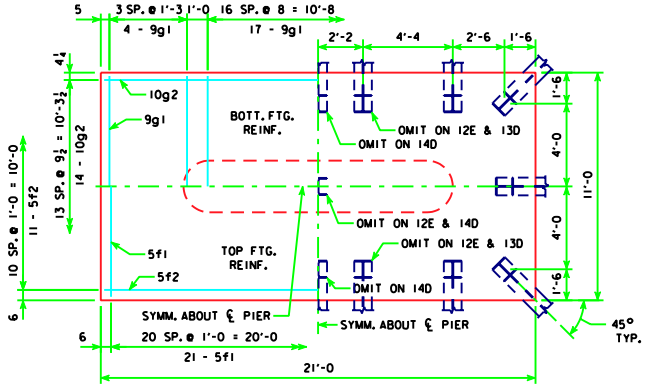
FOOTING SIZE	REINFORCING STEEL (ONE FOOTING) BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)	TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
4' x 9' x 20'	d2	32 - #9 AS SHOWN	9'-1	988	2619	26.7
	f1	20 - #5 @ 1'-0	8'-8	181		
	f2	9 - #5 @ 1'-0	19'-8	185		
	g1	20 - #8 AS SHOWN	8'-8	463		
	g2	12 - #9 @ 0'-9	19'-8	802		
4' x 10' x 20'	d2	32 - #9 AS SHOWN	9'-1	988	2776	29.6
	f1	20 - #5 @ 1'-0	9'-8	202		
	f2	10 - #5 @ 1'-0	19'-8	205		
	g1	25 - #8 AS SHOWN	9'-8	645		
	g2	11 - #9 @ 0'-11	19'-8	736		
4' x 11' x 21'	d2	32 - #9 AS SHOWN	9'-1	988	3611	34.2
	f1	21 - #5 @ 1'-0	10'-8	234		
	f2	11 - #5 @ 1'-0	20'-8	237		
	g1	25 - #9 AS SHOWN	10'-8	907		
	g2	14 - #10 @ 0'-9½	20'-8	1245		
4' x 11'-6 x 23'	d2	32 - #9 AS SHOWN	9'-1	988	4414	39.2
	f1	23 - #5 @ 1'-0	11'-2	268		
	f2	12 - #6 @ 1'-0	22'-8	409		
	g1	28 - #9 AS SHOWN	11'-2	1063		
	g2	14 - #11 @ 0'-10	22'-8	1686		
4' x 11'-6 x 25'	d2	32 - #10 AS SHOWN	10'-6	1446	5473	42.6
	f1	25 - #5 @ 1'-0	11'-2	291		
	f2	12 - #6 @ 1'-0	24'-8	445		
	g1	28 - #9 AS SHOWN	11'-2	1063		
	g2	17 - #11 @ 0'-8	24'-8	2228		



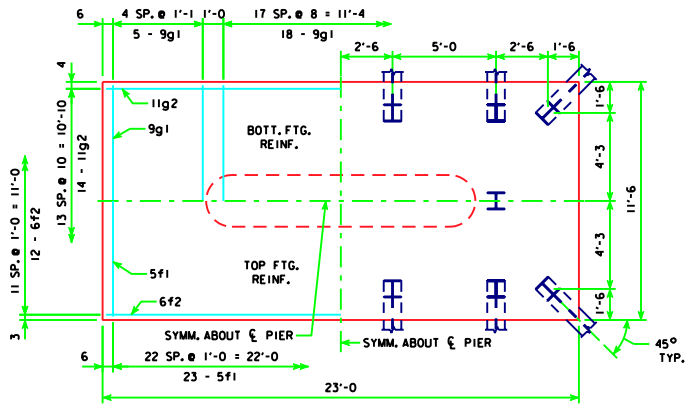
4'-0 x 9'-0 x 20'-0 FOR 12C, 13C & 14B



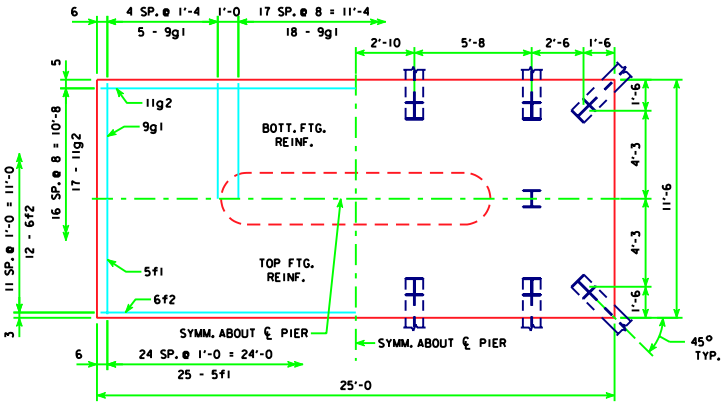
4'-0 x 10'-0 x 20'-0 FOR 12D & 14C



4'-0 x 11'-0 x 21'-0 FOR 12E, 13D & 14D



4'-0 x 11'-6 x 23'-0 FOR 14E



4'-0 x 11'-6 x 25'-0 FOR 14F

NOTE:
SEE SHEET H30-55-06 FOR FOOTING NOTES.

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

HL93 SUPERSTRUCTURE DECEMBER, 2006 HS25 SUBSTRUCTURE

TEE PIER - STEEL PILE FOOTINGS, H=25' TO 40'

15° SKEW

H30-56-06