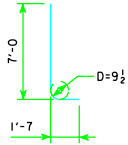


TYPICAL SECTION

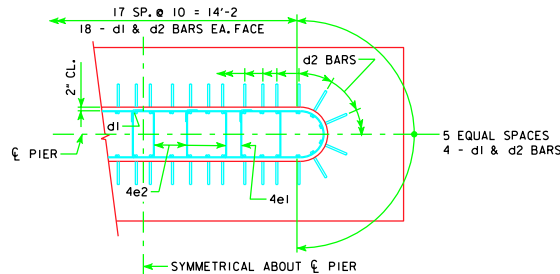


d2

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

H IN FT.	CL - CL ABUT. BRG.	PILING (HP10x57)			FOOTING SIZE
		NO. & LAYOUT	① DES. BRG. (TONS)	② LRFD DES. BRG. (KIPS)	
18	201'-4	12A	49	142	3'-6 x 8' x 21'
	213'-10	13A	49	140	
	226'-4	13A	50	146	
	243'-0	14A	49	143	
21	201'-4	13A	48	139	3'-6 x 8' x 21'
	213'-10	13A	50	144	
	226'-4	14A	49	141	
	243'-0	14A	50	146	
24	201'-4	13B	49	140	3'-6 x 9' x 22'
	213'-10	13B	50	145	
	226'-4	14B	49	141	
	243'-0	14B	50	147	

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH (FT.)	WEIGHT (LB.)		
3'-6 x 8' x 21'	d2	44 - #9 AS SHOWN	8'-7	1284	2218	21.8
	f1	21 - #5 @ 1'-0	7'-8	168		
	f2	8 - #5 @ 1'-0	20'-8	172		
	g1	22 - #6 @ 0'-11 1/2	7'-8	253		
	g2	11 - #6 @ 0'-9	20'-8	341		
	d2	44 - #9 AS SHOWN	8'-7	1284		
3'-6 x 9' x 22'	f1	22 - #5 @ 1'-0	8'-8	199	2624	25.7
	f2	9 - #5 @ 1'-0	21'-8	203		
	g1	23 - #7 @ 0'-11 1/2	8'-8	407		
	g2	12 - #7 @ 0'-9	21'-8	531		

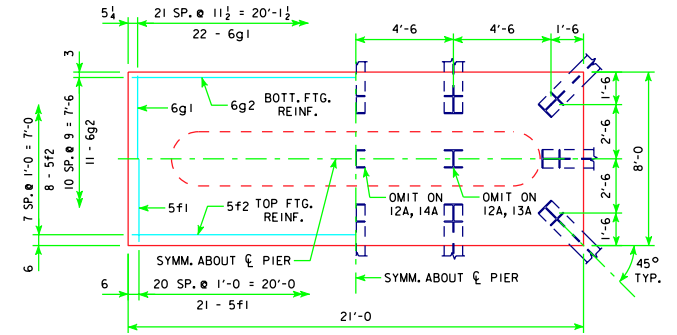


d2 BAR LAYOUT

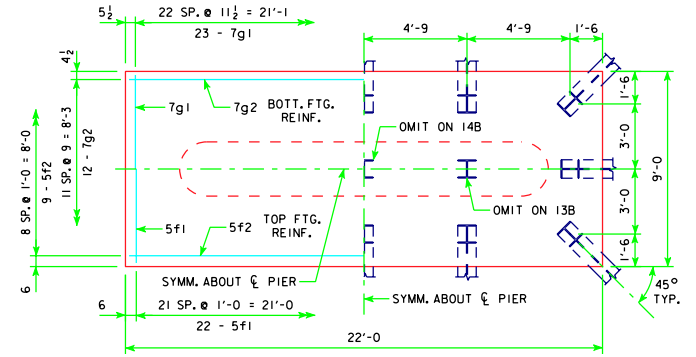
(SEE SECTION A-A ON SHEET H24-57-06.)

① FOR DETERMINING ACTUAL PILE LENGTHS IN FIELD.

② FOR ESTIMATING PILE LENGTHS USING AASHTO LRFD SPECIFICATIONS.



3'-6 x 8'-0 x 21'-0 FOR I2A, I3A & I4A



3'-6 x 9'-0 x 22'-0 FOR I3B & I4B

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 H24-57-06.

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.

LATEST REVISION DATE	APPROVED BY BRIDGE ENGINEER <i>Thomas E. McQuinn</i>	 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 15° SKEW - H=16' TO 24'	H24-58-06