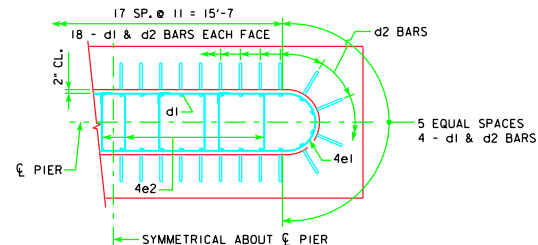




NOTE: D = PIN DIAMETER.
DIMENSIONS ARE OUT TO OUT.

H IN FT.	℄ - ℄ ABUT. BRG.	PILING (HP10x57)				FOOTING SIZE
		NO. & LOU T.	① DES. BRG. (TONS)	② LRFD DES. BRG. (KIPS)		
22 to 24	201'-4	11A	73	210	3'-6" x 8' x 2'	
	213'-10	11A	75	217		
	226'-4	12A	72	208		
	243'-0	12A	75	215		
16 to 21	201'-4	11B	74	214	3'-6" x 9' x 23'	
	213'-10	12B	70	203		
	226'-4	12B	73	212		
	243'-0	12B	75	219		
22 to 24	201'-4	12B	70	202	3'-6" x 9' x 23'	
	213'-10	12B	72	209		
	226'-4	12B	75	217		
	243'-0	13A	74	213		

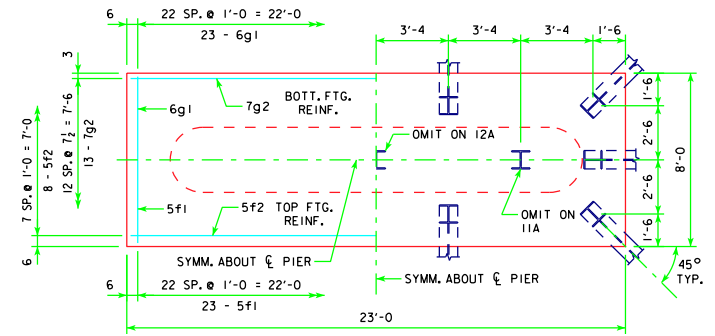
FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				TOTAL WEIGHT (L.B.)	STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (L.B.)		
3'-6 x 8' x 23'	d2	44 - #10 AS SHOWN	10'-0	1893	3133	23.9
	f1	23 - #5 @ 1'-0	7'-8	184		
	f2	8 - #5 @ 1'-0	22'-8	189		
	g1	23 - #6 1'-0	7'-8	265		
	g2	13 - #7 @ 0'-7 1/2	22'-8	602		
	d2	44 - #10 AS SHOWN	10'-0	1893		
3'-6 x 9' x 23'	f1	23 - #5 @ 1'-0	8'-8	208	3323	26.8
	g1	23 - #7 @ 1'-0	8'-8	407		
	g2	13 - #7 @ 0'-8 1/2	22'-8	602		



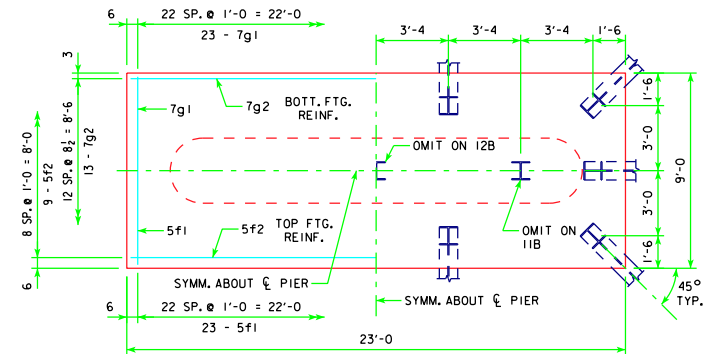
d2 LAYOUT

(SEE SECTION A-A ON SHEET H30-78-06.)

- ① FOR DETERMINING ACTUAL PILE LENGTHS IN FIELD.
- ② FOR ESTIMATING PILE LENGTHS USING AASHTO LRFD SPECIFICATIONS.



3'-6 x 8'-0 x 23'-0 FOR 11A & 12A



3'-6 x 9'-0 x 23'-0 FOR 11B, 12B & 13A

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 H30-78-06.

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".

07-10 LATEST REVISION DATE <i>Kevin E. McQuill</i> 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 - 75 TON STEEL PILE FOOTINGS 45° SKEW - H=16' to 24'	H30-81-06