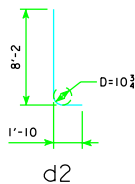


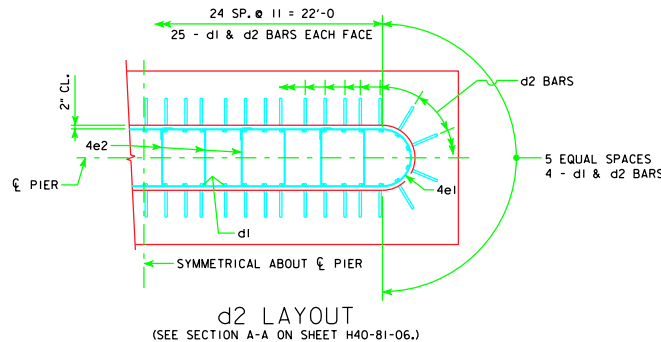
TYPICAL SECTION



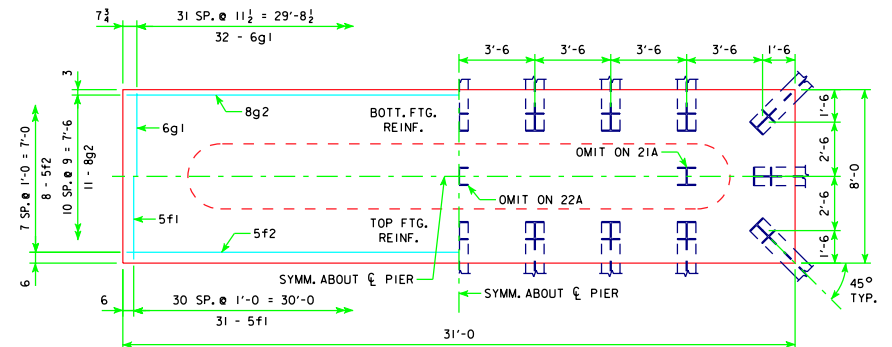
NOTE: D = PIN DIAMETER.
DIMENSIONS ARE OUT TO OUT.

H IN FT.	CL - CL ABUT. BRG.	PILING (HP10x57)		FOOTING SIZE
		NO. & LAYOUT	DES. BRG. (TONS)	
18 TO 21	201'-4"	21A	50	145
21 TO 24	213'-10"	22A	49	141
24 TO 27	226'-4"	23A	50	144
27 TO 30	243'-0"	24A	50	143
30 TO 33	201'-4"	22A	49	140
33 TO 36	213'-10"	22A	50	145
36 TO 39	226'-4"	24A	49	142
39 TO 42	243'-0"	25A	50	144
42 TO 45	201'-4"	22A	50	144
45 TO 48	213'-10"	23A	50	145
48 TO 51	226'-4"	24A	50	145
51 TO 54	243'-0"	26A	50	143

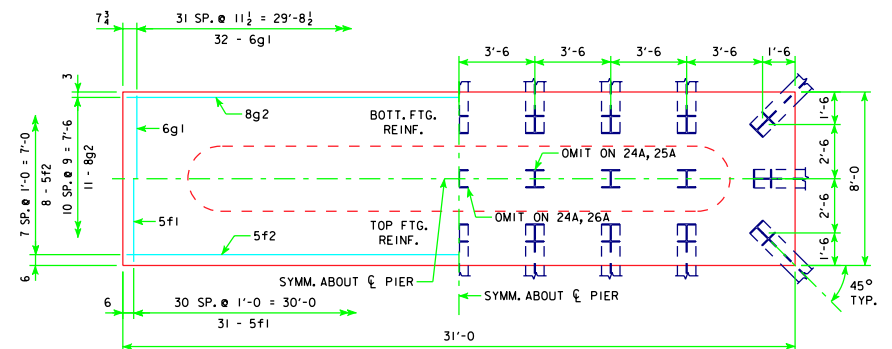
FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)		
3'-6" x 8' x 31'	d2	58 - #10 AS SHOWN	10'-0"	2496	4269	32.1
	f1	31 - #5 @ 1'-0"	7'-8"	248		
	f2	8 - #5 @ 1'-0"	30'-8"	256		
	g1	32 - #6 @ 0'-11 1/2"	7'-8"	368		
	g2	11 - #8 @ 0'-9"	30'-8"	901		



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



3'-6" x 8'-0" x 31'-0" FOR 21A, 22A & 23A



3'-6" x 8'-0" x 31'-0" FOR 24A, 25A & 26A

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 H40-81-06.

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".

10-09 LATEST REVISION DATE	APPROVED BY BRIDGE ENGINEER <i>Thomas L. McDaniel</i>	 Iowa Department of Transportation Highway Division	
		STANDARD DESIGN - 40' ROADWAY, THREE SPAN BRIDGE PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES AUGUST, 2009	
		TEE PIER - 50 TON STEEL PILE FOOTINGS 45° SKEW - H=16' TO 24'	H40-83-06