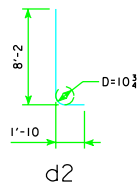


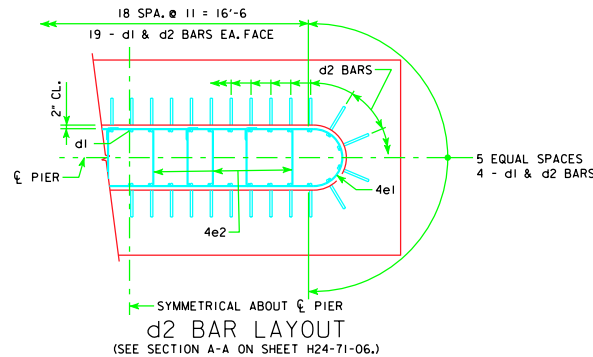
TYPICAL SECTION



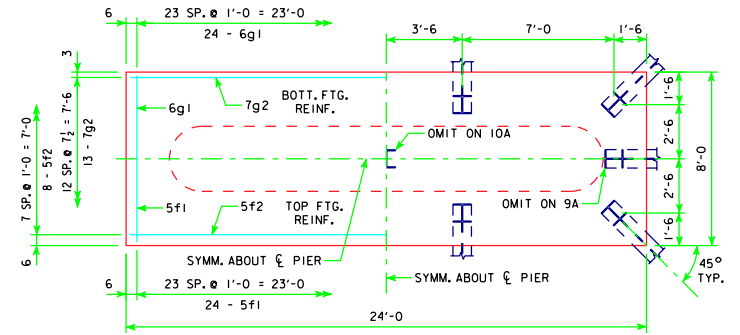
NOTE: D = PIN DIAMETER.
DIMENSIONS ARE OUT TO OUT.

H IN FT.	CL - CL ABUT. BRG.	PILING (HP10x57)			FOOTING SIZE
		NO. & LAYOUT	① DES. BRG. (TONS)	② LRFD DES. BRG. (KIPS)	
18 16 TO 21	201'-4	9A	74	214	3'-6 x 8' x 24'
	213'-10	10A	65	187	
	226'-4	10A	68	197	
	243'-0	10A	70	202	
19 21 TO 24	201'-4	10A	65	186	3'-6 x 8' x 24'
	213'-10	10A	67	193	
	226'-4	10A	70	201	
	243'-0	10A	72	208	
22 24 TO 27	201'-4	10B	66	191	3'-6 x 9' x 24'
	213'-10	10B	68	198	
	226'-4	10B	71	206	
	243'-0	10B	74	213	

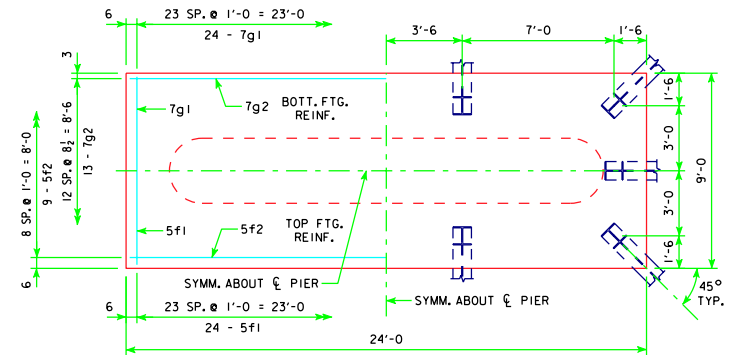
FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH (LB.)	TOTAL WEIGHT (LB.)	
3'-6 x 8' x 24'	d2	46 - #10 AS SHOWN	10'-0"	1979	3273
	f1	24 - #5 @ 1'-0"	7'-8"	192	
	f2	8 - #5 @ 1'-0"	23'-8"	197	
	g1	24 - #6 @ 1'-0"	7'-8"	276	
	g2	13 - #7 @ 0'-7 1/2"	23'-8"	629	
	d2	46 - #10 AS SHOWN	10'-0"	1979	
3'-6 x 9' x 24'	f1	24 - #5 @ 1'-0"	8'-8"	217	3472
	f2	9 - #5 @ 1'-0"	23'-8"	222	
	g1	24 - #7 @ 1'-0"	8'-8"	425	
	g2	13 - #7 @ 0'-8 1/2"	23'-8"	629	



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



3'-6 x 8'-0 x 24'-0 FOR 9A & 10A



3'-6 x 9'-0 x 24'-0 FOR 10B

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 H24-71-06.

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 - 75 TON STEEL PILE FOOTINGS 45° SKEW - H=16' TO 24'	H24-74-06