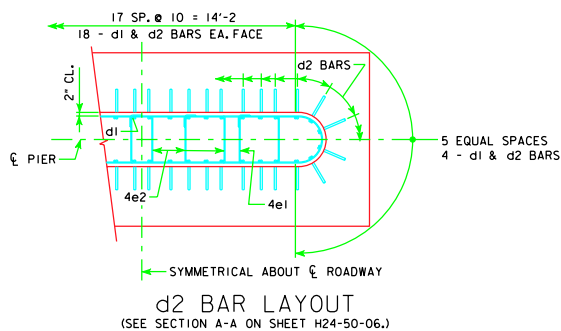
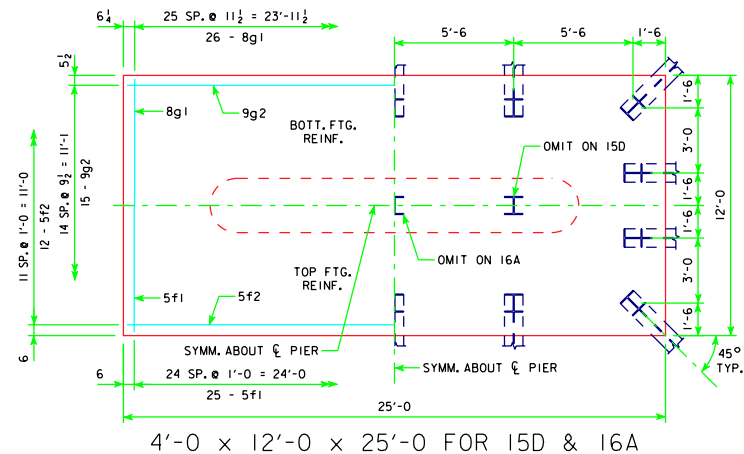
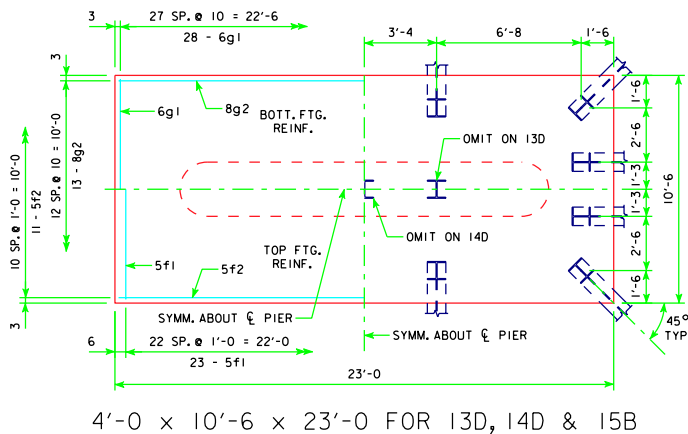
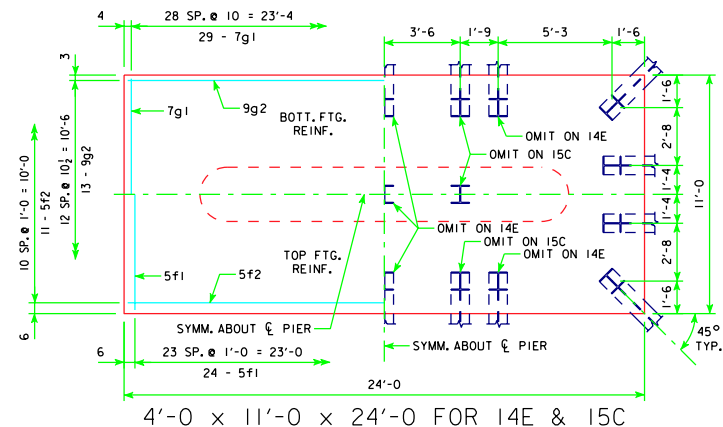
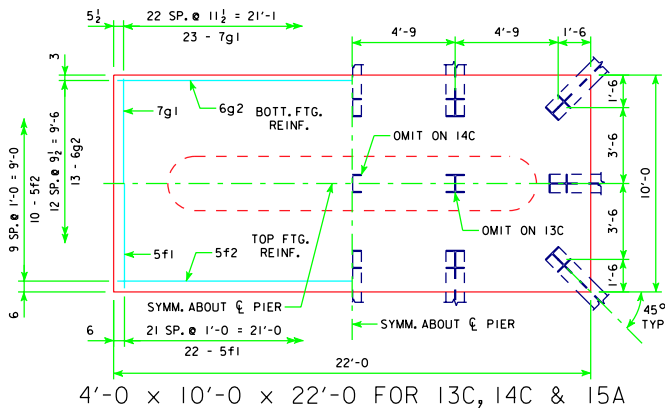


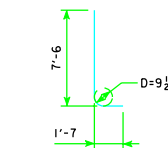
TYPICAL SECTION

H IN FT.	CL. - CL. ABUT. BRG.	PILING (HP10x57)		FOOTING SIZE
		NO. & LAYOUT	(1) DES. BRG. (TONS) (2) LRFD DES. BRG. (KIPS)	
20'-11/4"	13C	50	144	4' x 10' x 22'
213'-10	14C	48	138	
226'-4	14C	49	142	
243'-0	15A	49	141	4' x 10'-6 x 23'
201'-4	13D	50	145	
213'-10	14D	49	143	
226'-4	15B	49	141	4' x 11' x 24'
243'-0	15B	50	146	
201'-4	14E	49	142	
213'-10	14E	50	146	4' x 11' x 24'
226'-4	15C	48	137	
243'-0	15C	49	142	
201'-4	15C	48	137	4' x 12' x 25'
213'-10	15C	48	140	
226'-4	15C	49	142	
243'-0	15C	50	146	
201'-4	15D	49	142	
213'-10	15D	50	145	
226'-4	16A	49	140	
243'-0	16A	50	143	

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)		
4' x 10' x 22'	d2	44 - #9 AS SHOWN	9'-1	1359	2684	32.6
	f1	22 - #5 @ 1'-0	9'-8	222		
	f2	10 - #5 @ 1'-0	21'-8	226		
	g1	23 - #7 @ 0'-11 1/2	9'-8	454		
	g2	13 - #6 @ 0'-9 1/2	21'-8	423		
4' x 10'-6 x 23'	d2	44 - #9 AS SHOWN	9'-1	1359	3078	35.8
	f1	23 - #5 @ 1'-0	10'-2	244		
	f2	11 - #5 @ 1'-0	22'-8	260		
	g1	28 - #6 @ 0'-10	10'-2	428		
	g2	13 - #9 @ 0'-10	22'-8	787		
4' x 11' x 24'	d2	44 - #9 AS SHOWN	9'-1	1359	3576	39.1
	f1	24 - #5 @ 1'-0	10'-8	267		
	f2	11 - #5 @ 1'-0	23'-8	272		
	g1	29 - #7 @ 0'-10	10'-8	632		
	g2	13 - #9 @ 0'-10 1/2	24'-8	1046		
4' x 12' x 25'	d2	44 - #9 AS SHOWN	9'-1	1359	4040	44.4
	f1	25 - #5 @ 1'-0	11'-8	304		
	f2	12 - #5 @ 1'-0	24'-8	309		
	g1	26 - #8 @ 0'-11 1/2	11'-8	810		
	g2	15 - #9 @ 0'-9 1/2	24'-8	1258		



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



d2
NOTE: D = PIN DIAMETER.
DIMENSIONS ARE OUT TO OUT.

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 H24-50-06.

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.

01-10 LATEST REVISION DATE	<i>Thomas E. McQuinn</i> APPROVED BY BRIDGE ENGINEER	 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 0° SKEW - H=25' TO 40'	H24-52-06