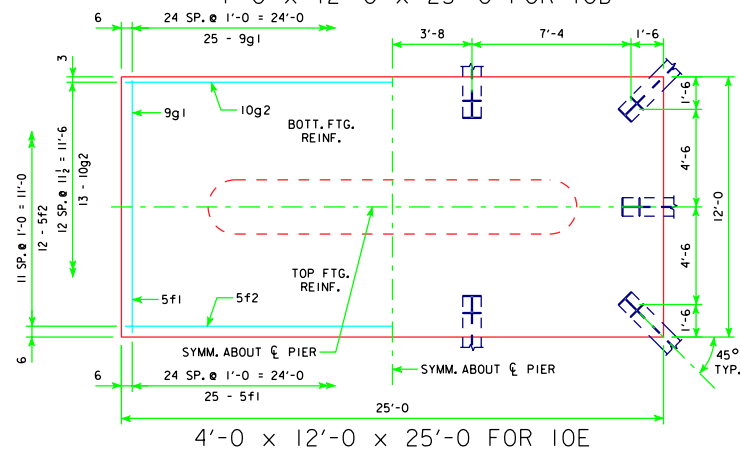
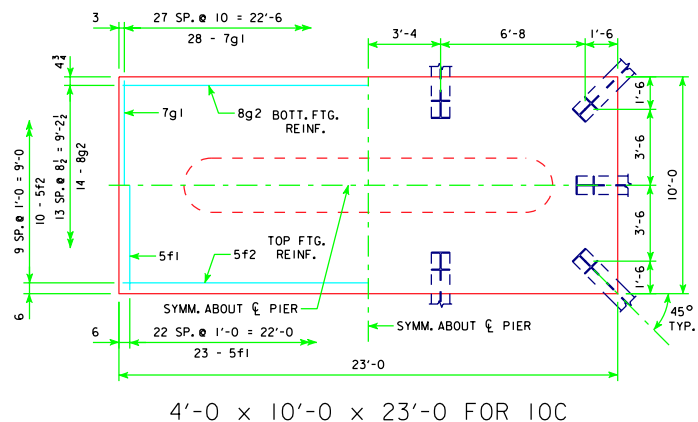
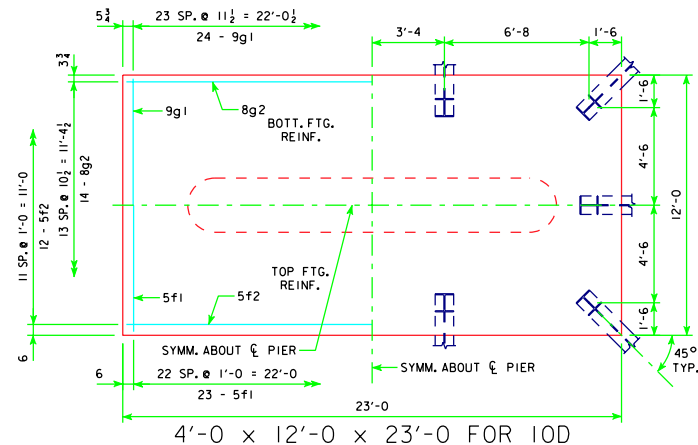
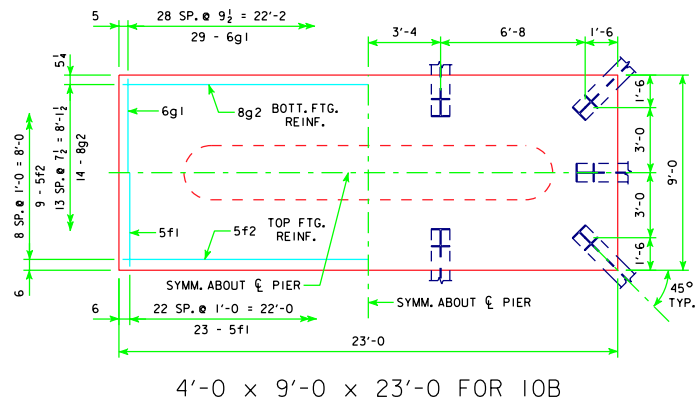
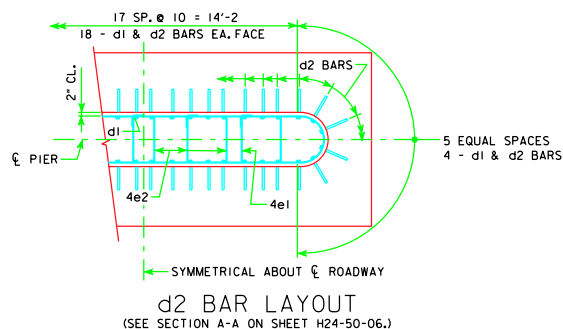


TYPICAL SECTION

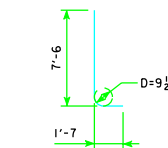


H IN. FT.	CL - CL ABUT. BRG.	NO. & LAYOUT	PILING (HP10x57)	FOOTING SIZE
20'1'-4	IOB	62	180	
21'3'-10	IOB	65	186	
22'6'-4	IOB	67	194	
24'3'-0	IOB	69	200	
20'1'-4	IOB	65	187	
21'3'-10	IOB	67	193	
22'6'-4	IOB	69	200	
24'3'-0	IOB	72	207	
20'1'-4	IOC	67	192	
21'3'-10	IOC	68	196	
22'6'-4	IOC	70	202	
24'3'-0	IOC	72	209	
20'1'-4	IOD	69	198	
21'3'-10	IOD	70	202	
22'6'-4	IOD	72	206	
24'3'-0	IOD	73	211	
20'1'-4	IOE	71	205	
21'3'-10	IOE	72	209	
22'6'-4	IOE	74	213	
24'3'-0	IOE	75	217	

FOOTING SIZE	BAR NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)	TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
4' x 9' x 23'	d2 44 - #9 AS SHOWN f1 23 - #5 @ 1'-0 f2 9 - #5 @ 1'-0 g1 29 - #6 @ 0'-9 1/2 g2 14 - #8 @ 0'-7 1/2	9'-1 22'-8 8'-8 22'-8	1359 208 213 378	3005	30.7
4' x 10' x 23'	d2 44 - #9 AS SHOWN f1 23 - #5 @ 1'-0 f2 10 - #5 @ 1'-0 g1 28 - #7 @ 0'-10 g2 14 - #8 @ 0'-8 1/2	9'-1 9'-8 22'-8 22'-8	1359 232 236 553	3227	34.1
4' x 12' x 23'	d2 44 - #9 AS SHOWN f1 23 - #5 @ 1'-0 f2 12 - #5 @ 1'-0 g1 24 - #9 @ 0'-11 1/2 g2 14 - #8 @ 0'-10 1/2	9'-1 11'-8 22'-8 11'-8 22'-8	1359 280 284 952 847	3722	40.9
4' x 12' x 25'	d2 44 - #9 AS SHOWN f1 25 - #5 @ 1'-0 f2 12 - #5 @ 1'-0 g1 25 - #9 @ 1'-0 g2 13 - #10 @ 0'-11 1/2	9'-1 11'-8 24'-8 11'-8 24'-8	1359 304 309 992 1380	4344	44.4



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



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.

LATEST REVISION DATE	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 - 75 TON STEEL PILE FOOTINGS 0° SKEW - H:25' TO 40'		H24-54-06