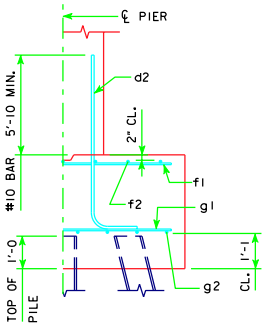
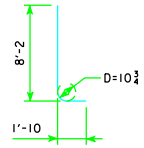
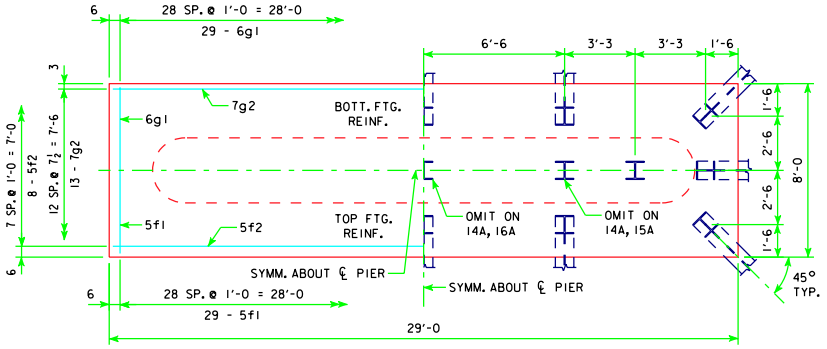


TYPICAL SECTION



d2

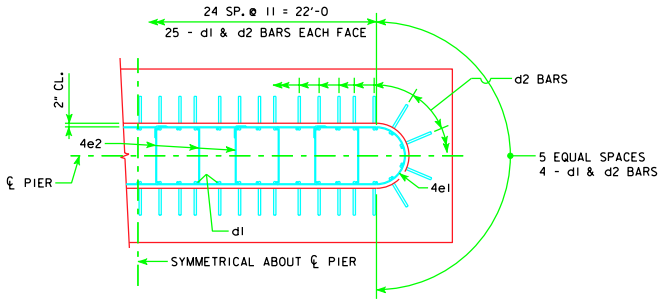
NOTE: D = PIN DIAMETER.
DIMENSIONS ARE OUT TO OUT.



3'-6 x 8'-0 x 29'-0 FOR 14A, 15A, 16A & 17A

H IN FT.	℄ - ℄ ABUT. BRG.	PILING (HP10x57) NO. & LAYOUT	① DES. BRG. (TONS)	② LRFD DES. BRG. (KIPS)	FOOTING SIZE
18 TO 16	201'-4	14A	72	209	3'-6 x 8' x 29'
	213'-10	14A	75	216	
	226'-4	15A	75	216	
	243'-0	16A	73	212	
19 TO 21	201'-4	14A	74	215	3'-6 x 8' x 29'
	213'-10	15A	74	213	
	226'-4	16A	73	210	
	243'-0	16A	75	218	
22 TO 24	201'-4	15A	73	212	3'-6 x 8' x 29'
	213'-10	15A	75	219	
	226'-4	16A	75	215	
	243'-0	17A	75	215	

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING) BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)	TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
3'-6 x 8' x 29'	d2	58 - #10 AS SHOWN	10'-0	2496	4063	30.1
	f1	29 - #5 @ 1'-0	7'-8	232		
	f2	8 - #5 @ 1'-0	28'-8	239		
	g1	29 - #6 @ 1'-0	7'-8	334		
	g2	13 - #7 @ 0'-7½	28'-8	762		



d2 LAYOUT
(SEE SECTION A-A ON SHEET H40-81-06.)

① FOR DETERMINING ACTUAL PILE LENGTHS IN FIELD.

② FOR ESTIMATING PILE LENGTHS USING AASHTO LRFD SPECIFICATIONS.

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.

01-10
LATEST REVISION DATE

Norman E. McDonald
APPROVED BY BRIDGE ENGINEER

Iowa Department of Transportation
Highway Division

STANDARD DESIGN - 40' ROADWAY, THREE SPAN BRIDGE

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

AUGUST, 2009

TEE PIER - 75 TON STEEL PILE FOOTINGS

45° SKEW - H=16' TO 24'

H40-85-06

REVISED 01-10 - ADDED FOOTING NOTES.