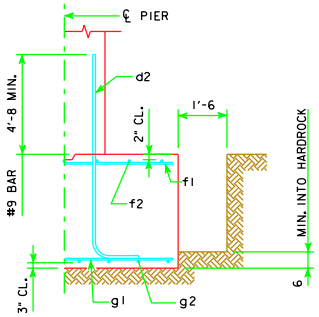
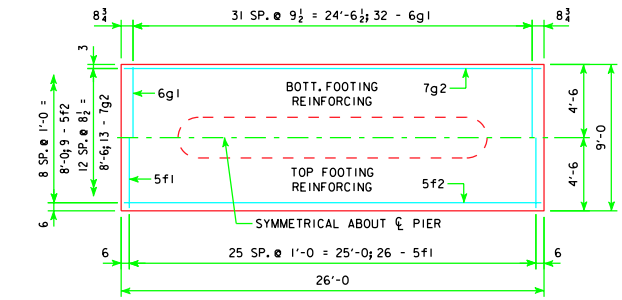
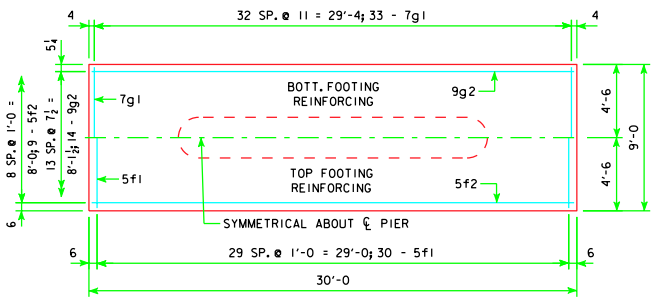


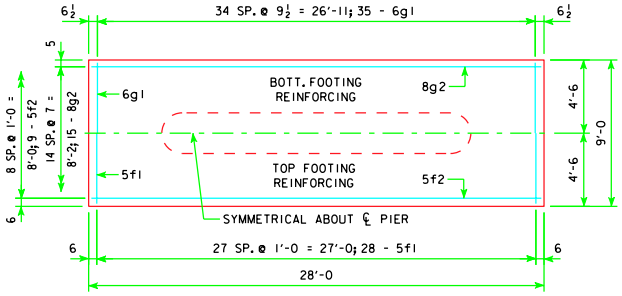
TYPICAL SECTION



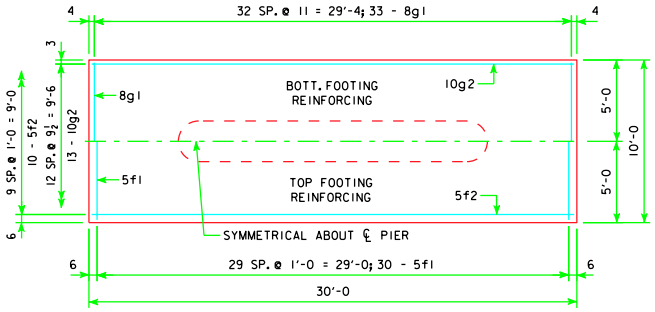
3'-6 x 9'-0 x 26'-0



3'-6 x 9'-0 x 30'-0

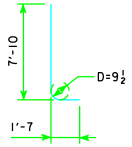


3'-6 x 9'-0 x 28'-0



3'-6 x 10'-0 x 30'-0

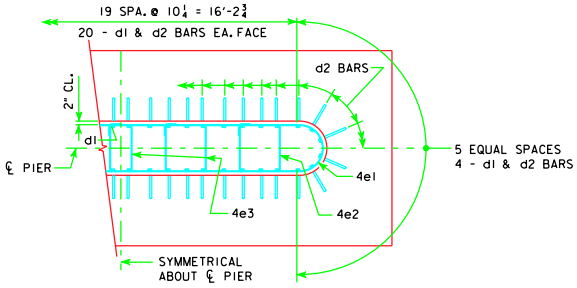
H IN FT.	℄ - ℄ ABUT. BRG.	FOOTING SIZE
16 TO 18	138'-10 151'-4 163'-10 176'-4	3'-6 x 9' x 26'
	188'-10	3'-6 x 9' x 28'
	201'-4 213'-10 226'-4	3'-6 x 9' x 30'
	243'-0	3'-6 x 10' x 30'
19 TO 21	138'-10 151'-4 163'-10	3'-6 x 9' x 26'
	176'-4 188'-10	3'-6 x 9' x 28'
	201'-4 213'-10	3'-6 x 9' x 30'
	226'-4 243'-0	3'-6 x 10' x 30'
22 TO 24	138'-10 151'-4	3'-6 x 9' x 26'
	163'-10 176'-4 188'-10	3'-6 x 9' x 28'
	201'-4 213'-10	3'-6 x 9' x 30'
	226'-4 243'-0	3'-6 x 10' x 30'



d2

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

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)					STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)	TOTAL WEIGHT (LB.)	
3'-6 x 9' x 26'	d2	48 - #9 AS SHOWN	9'-5	1537	3112	30.3
	f1	26 - #5 @ 1'-0	8'-8	235		
	f2	9 - #5 @ 1'-0	25'-8	241		
	g1	32 - #6 @ 0'-9½	8'-8	417		
	g2	13 - #7 @ 0'-8½	25'-8	682		
3'-6 x 9' x 28'	d2	48 - #9 AS SHOWN	9'-5	1537	3614	32.7
	f1	28 - #5 @ 1'-0	8'-8	253		
	f2	9 - #5 @ 1'-0	27'-8	260		
	g1	35 - #6 @ 0'-9½	8'-8	456		
	g2	15 - #8 @ 0'-7	27'-8	1108		
3'-6 x 9' x 30'	d2	48 - #9 AS SHOWN	9'-5	1537	4083	35.0
	f1	30 - #5 @ 1'-0	8'-8	271		
	f2	9 - #5 @ 1'-0	29'-8	278		
	g1	33 - #7 @ 0'-11	8'-8	585		
	g2	14 - #9 @ 0'-7½	29'-8	1412		
3'-6 x 10' x 30'	d2	48 - #9 AS SHOWN	9'-5	1537	4660	38.9
	f1	30 - #5 @ 1'-0	9'-8	302		
	f2	10 - #5 @ 1'-0	29'-8	309		
	g1	33 - #8 @ 0'-11	9'-8	852		
	g2	13 - #10 @ 0'-9½	29'-8	1660		



d2 BAR LAYOUT
(SEE SECTION A-A ON SHEET H44-58-07.)

FOOTING NOTES:

THESE SPREAD FOOTINGS ARE DESIGNED AND DETAILED TO BE USED WITH THE CAP AND COLUMN DETAILS OF THE TEE PIERS AS SHOWN ON SHEET H44-58-07.

THESE SPREAD FOOTINGS SHALL EXTEND AT LEAST 6 INCHES INTO SUITABLE FOUNDATION ROCK AND THE LAST 6 INCHES OF ROCK EXCAVATION SHALL BE TO NEAT LINES OF MASONRY. THE FOUNDATION ROCK SHALL HAVE A MINIMUM LRFD NOMINAL BEARING RESISTANCE OF 30 kips PER SQUARE FOOT (ALLOWABLE BEARING VALUE OF AT LEAST 5 TONS PER SQUARE FOOT).

11-09
LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

Iowa Department of Transportation
Highway Division

STANDARD DESIGN - 44' ROADWAY, THREE SPAN BRIDGE
PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES
MARCH, 2007

TEE PIER - SPREAD FOOTINGS
15° SKEW - H=16' TO 24'

H44-64-07

REVISED 11-09 - SHEET WAS REVISED TO MEET LRFD SPECIFICATIONS.