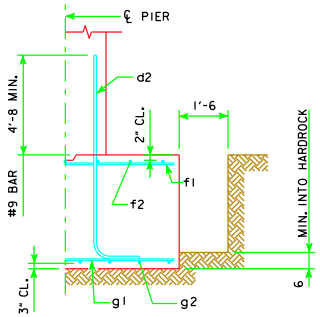
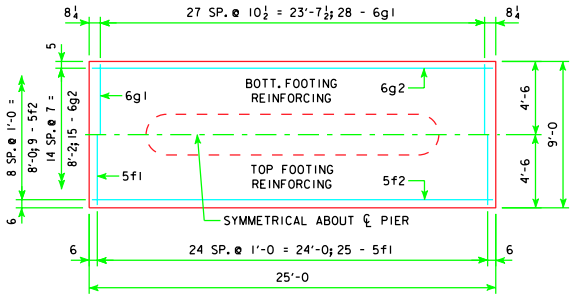
H IN FT.	℄ - ℄ ABUT. BRG.	FOOTING SIZE
25 TO 27	138'-10	4' x 9' x 25'
	151'-4	
	163'-10	4' x 9' x 27'
	176'-4	
	188'-10	4' x 9' x 29'
	201'-4	
	213'-10	4' x 9' x 31'
	226'-4	
	243'-0	4' x 10' x 31'
28 TO 30	138'-10	4' x 9' x 25'
	151'-4	
	163'-10	4' x 9' x 27'
	176'-4	
	188'-10	4' x 9' x 29'
	201'-4	
	213'-10	4' x 9' x 31'
	226'-4	
	243'-0	4' x 10' x 31'
31 TO 33	138'-10	4' x 9' x 25'
	151'-4	
	163'-10	4' x 9' x 27'
	176'-4	
	188'-10	4' x 9' x 29'
	201'-4	
	213'-10	4' x 9' x 31'
	226'-4	
	243'-0	4' x 10' x 31'
34 TO 36	138'-10	4' x 9' x 27'
	151'-4	
	163'-10	
	176'-4	4' x 9' x 29'
	188'-10	
	201'-4	4' x 9' x 31'
	213'-10	
	226'-4	4' x 10' x 31'
	243'-0	
37 TO 40	138'-10	4' x 9' x 27'
	151'-4	
	163'-10	4' x 9' x 29'
	176'-4	
	188'-10	
	201'-4	4' x 9' x 31'
	213'-10	
	226'-4	4' x 10' x 31'
	243'-0	

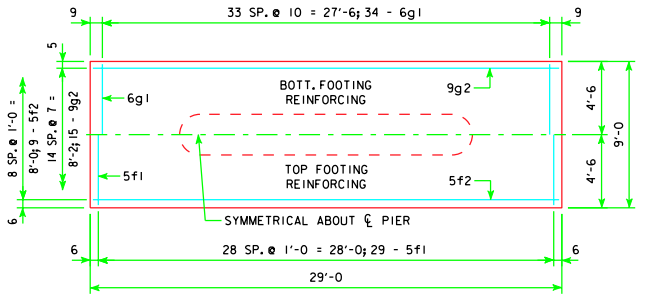


TYPICAL SECTION

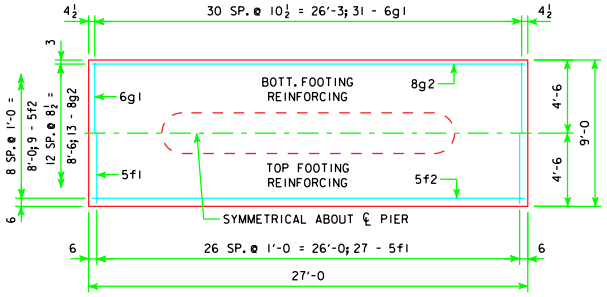
FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)					STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)	TOTAL WEIGHT (LB.)	
4' x 9' x 25'	d2	46 - #9 AS SHOWN	9'-11	1551	2929	33.3
	f1	25 - #5 @ 1'-0	8'-8	226		
	f2	9 - #5 @ 1'-0	24'-8	232		
	g1	28 - #6 @ 0'-10½	8'-8	364		
	g2	15 - #6 @ 0'-7	24'-8	556		
4' x 9' x 27'	d2	46 - #9 AS SHOWN	9'-11	1551	3375	36.0
	f1	27 - #5 @ 1'-0	8'-8	244		
	f2	9 - #5 @ 1'-0	26'-8	250		
	g1	31 - #6 @ 0'-10½	8'-8	404		
	g2	13 - #8 @ 0'-8½	26'-8	926		
4' x 9' x 29'	d2	46 - #9 AS SHOWN	9'-11	1551	3987	38.7
	f1	29 - #5 @ 1'-0	8'-8	262		
	f2	9 - #5 @ 1'-0	28'-8	269		
	g1	34 - #6 @ 0'-10	8'-8	443		
	g2	15 - #9 @ 0'-7	28'-8	1462		
4' x 9' x 31'	d2	46 - #9 AS SHOWN	9'-11	1551	4269	41.3
	f1	31 - #5 @ 1'-0	8'-8	280		
	f2	9 - #5 @ 1'-0	30'-8	288		
	g1	37 - #6 @ 0'-10	8'-8	482		
	g2	16 - #9 @ 0'-6½	30'-8	1668		
4' x 10' x 31'	d2	46 - #9 AS SHOWN	9'-11	1551	4963	45.9
	f1	31 - #5 @ 1'-0	9'-8	313		
	f2	10 - #5 @ 1'-0	30'-8	320		
	g1	31 - #8 @ 1'-0	9'-8	800		
	g2	15 - #10 @ 0'-8	30'-8	1979		



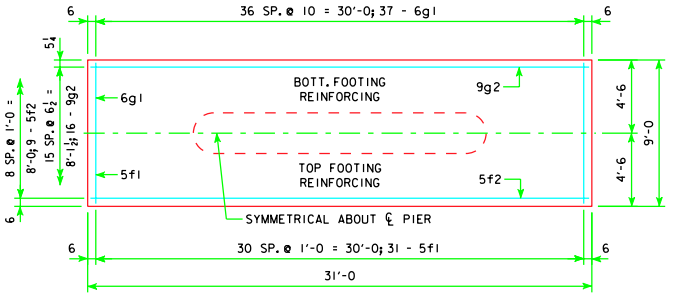
4'-0 x 9'-0 x 25'-0



4'-0 x 9'-0 x 29'-0



4'-0 x 9'-0 x 27'-0

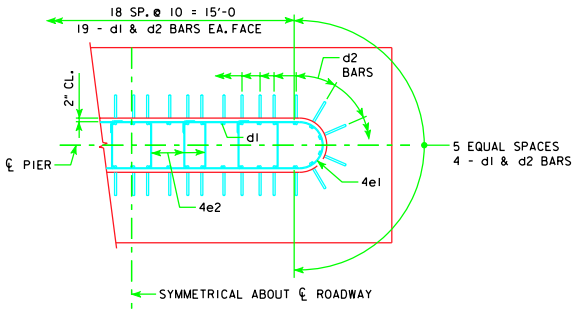


4'-0 x 9'-0 x 31'-0

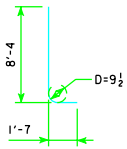
FOOTING NOTES:

THESE SPREAD FOOTINGS ARE DESIGNED AND DETAILED TO BE USED WITH THE CAP AND COLUMN DETAILS OF THE TEE PIERS AS SHOWN ON SHEET H44-50-07.

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).

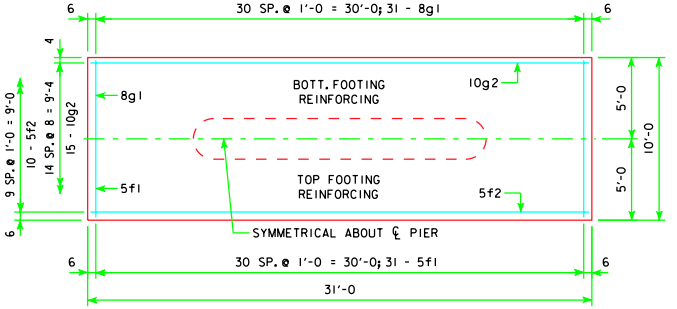


d2 BAR LAYOUT
(SEE SECTION A-A ON SHEET H44-50-07.)



d2

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



4'-0 x 10'-0 x 31'-0

11-09
LATEST REVISION DATE

Norman R. McDonald
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

0° SKEW - H=25' TO 40'

H44-57-07

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