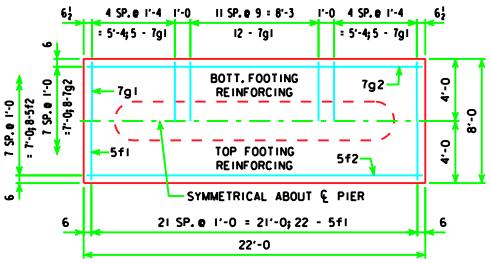
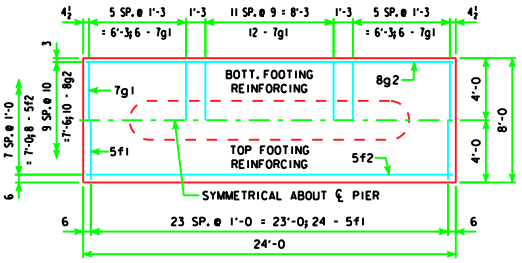
H IN FT.	℄ - ℄ ABUT. BRG.	FOOTING SIZE
25 TO 27	138'-10	4' x 8' x 22'
	151'-4	
	163'-10	
	176'-4	4' x 8' x 24'
	188'-10	
	201'-4	4' x 9' x 25'
	213'-10	
	226'-4	
	243'-0	
28 TO 30	138'-10	4' x 8' x 22'
	151'-4	
	163'-10	
	176'-4	4' x 8' x 24'
	188'-10	
	201'-4	4' x 9' x 25'
	213'-10	
	226'-4	
	243'-0	
31 TO 33	138'-10	4' x 8' x 22'
	151'-4	
	163'-10	4' x 8' x 24'
	176'-4	
	188'-10	
	201'-4	4' x 9' x 25'
	213'-10	
	226'-4	
	243'-0	
34 TO 36	138'-10	4' x 8' x 24'
	151'-4	
	163'-10	
	176'-4	4' x 9' x 25'
	188'-10	
	201'-4	
	213'-10	
	226'-4	4' x 9' x 26'
	243'-0	
37 TO 40	138'-10	4' x 9' x 25'
	151'-4	
	163'-10	
	176'-4	
	188'-10	
	201'-4	4' x 9' x 26'
	213'-10	
	226'-4	
	243'-0	

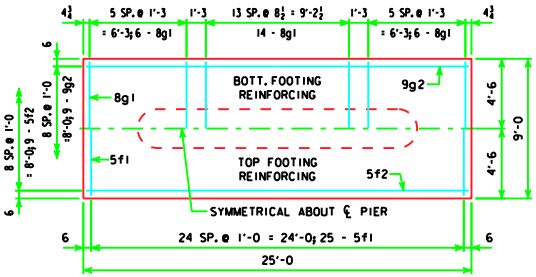
FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)					STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)	TOTAL WEIGHT (LB.)	
4' x 8' x 22'	d2	46 - #9 AS SHOWN	9'-11	1551	2607	26.1
	f1	22 - #5 @ 1'-0	7'-8	176		
	f2	8 - #5 @ 1'-0	21'-8	181		
	g1	22 - #7 AS SHOWN	7'-8	345		
	g2	8 - #7 @ 1'-0	21'-8	354		
4' x 8' x 24'	d2	46 - #9 AS SHOWN	9'-11	1551	2948	28.4
	f1	24 - #5 @ 1'-0	7'-8	192		
	f2	8 - #5 @ 1'-0	23'-8	197		
	g1	24 - #7 AS SHOWN	7'-8	376		
	g2	10 - #8 @ 0'-10	23'-8	632		
4' x 9' x 25'	d2	46 - #9 AS SHOWN	9'-11	1551	3366	33.3
	f1	25 - #5 @ 1'-0	8'-8	226		
	f2	9 - #5 @ 1'-0	24'-8	232		
	g1	26 - #8 AS SHOWN	8'-8	602		
	g2	9 - #9 @ 1'-0	24'-8	755		
4' x 9' x 26'	d2	46 - #9 AS SHOWN	9'-11	1551	3787	34.7
	f1	26 - #5 @ 1'-0	8'-8	235		
	f2	9 - #5 @ 1'-0	25'-8	241		
	g1	26 - #9 AS SHOWN	8'-8	766		
	g2	9 - #10 @ 1'-0	25'-8	994		



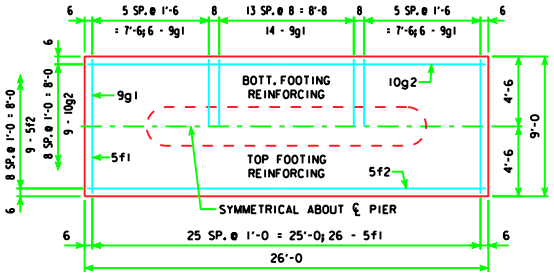
4'-0 x 8'-0 x 22'-0



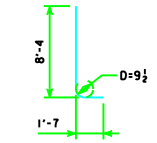
4'-0 x 8'-0 x 24'-0



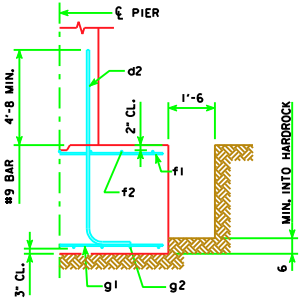
4'-0 x 9'-0 x 25'-0



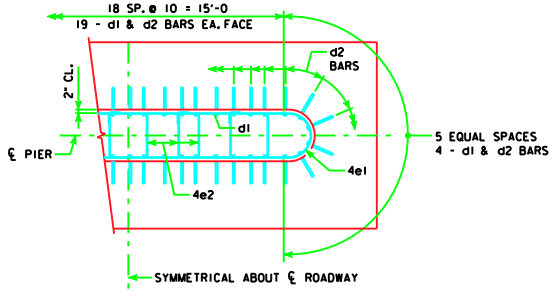
4'-0 x 9'-0 x 26'-0



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



TYPICAL SECTION



d2 BAR LAYOUT
(SEE SECTION A-A ON SHEET H44-44-07.)

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 H44-44-07.

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 AN ALLOWABLE BEARING VALUE OF AT LEAST 5 TONS PER SQUARE FOOT.

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

HL93 SUPERSTRUCTURE MARCH, 2007 HS25 SUBSTRUCTURE

TEE PIER - SPREAD FOOTINGS, H=25' TO 40'

0° SKEW

H44-49-07