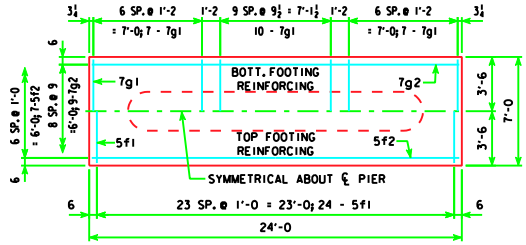
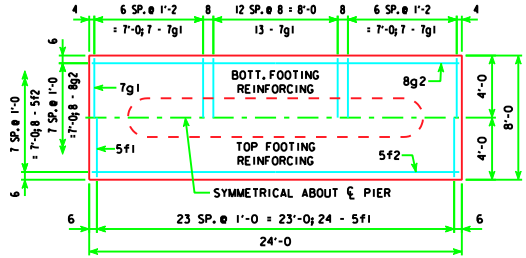
H IN FT.	℄ - ℄ ABUT. BRG.	FOOTING SIZE
16 TO 18	138'-10	3'-6 x 7' x 24'
	151'-4	
	163'-10	
	176'-4	3'-6 x 8' x 24'
	188'-10	
	201'-4	
	213'-10	3'-6 x 9' x 25'
	226'-4	
	243'-0	
19 TO 21	138'-10	3'-6 x 7' x 24'
	151'-4	
	163'-10	3'-6 x 8' x 24'
	176'-4	
	188'-10	
	201'-4	3'-6 x 9' x 25'
	213'-10	
	226'-4	
	243'-0	
22 TO 24	138'-10	3'-6 x 8' x 24'
	151'-4	
	163'-10	
	176'-4	
	188'-10	
	201'-4	3'-6 x 9' x 25'
	213'-10	
	226'-4	
	243'-0	

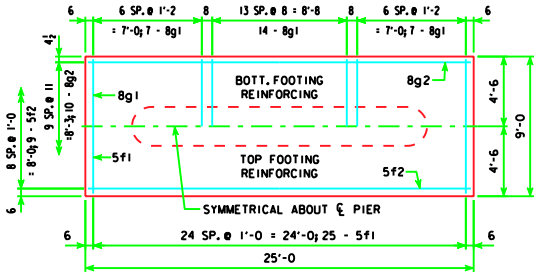
FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)					TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)			
3'-6 x 7' x 24'	d2	48 - #9 AS SHOWN	9'-5	1537		2639	21.8
	f1	24 - #5 @ 1'-0	6'-8	167			
	f2	7 - #5 @ 1'-0	23'-8	173			
	g1	24 - #7 AS SHOWN	6'-8	327			
	g2	9 - #7 @ 0'-9	23'-8	435			
3'-6 x 8' x 24'	d2	48 - #9 AS SHOWN	9'-5	1537		2855	24.9
	f1	24 - #5 @ 1'-0	7'-8	192			
	f2	8 - #5 @ 1'-0	23'-8	197			
	g1	27 - #7 AS SHOWN	7'-8	423			
	g2	8 - #8 @ 1'-0	23'-8	506			
3'-6 x 9' x 25'	d2	48 - #9 AS SHOWN	9'-5	1537		3302	29.2
	f1	25 - #5 @ 1'-0	8'-8	226			
	f2	9 - #5 @ 1'-0	24'-8	232			
	g1	28 - #8 AS SHOWN	8'-8	648			
	g2	10 - #8 @ 0'-11	24'-8	659			



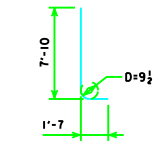
3'-6 x 7'-0 x 24'-0



3'-6 x 8'-0 x 24'-0

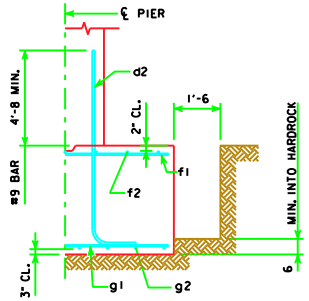


3'-6 x 9'-0 x 25'-0

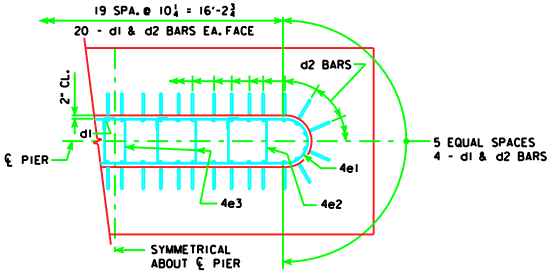


d2

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



TYPICAL SECTION



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

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 H44-50-07.

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 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=16' TO 24'
15° SKEW

H44-54-07