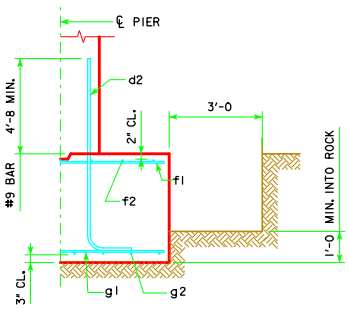
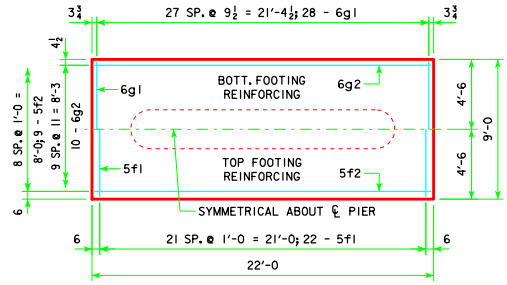
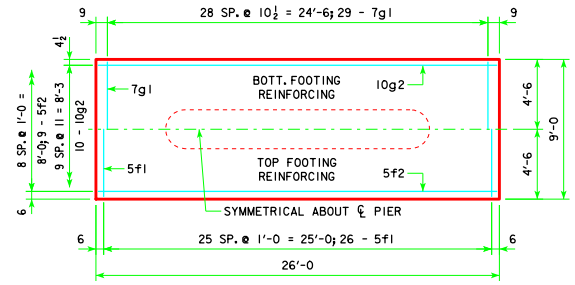


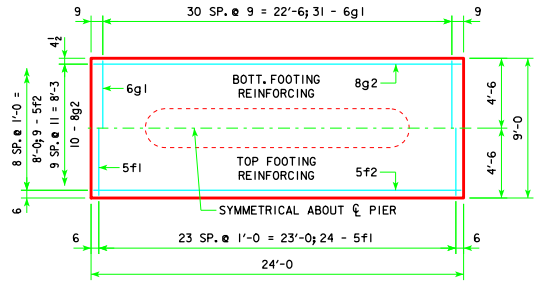
TYPICAL SECTION



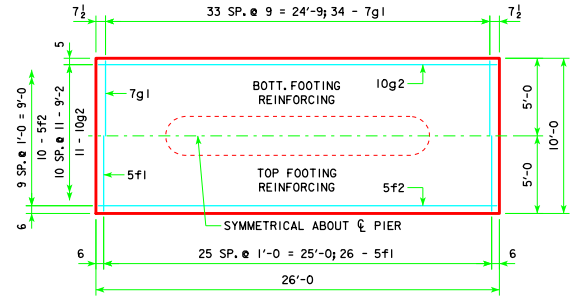
3'-6 x 9'-0 x 22'-0



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

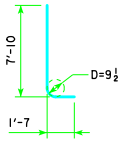


3'-6 x 9'-0 x 24'-0



3'-6 x 10'-0 x 26'-0

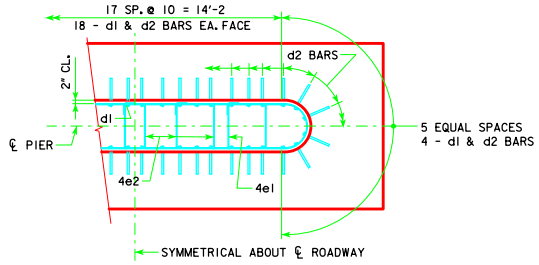
H IN FT.	℄ - ℄ ABUT. BRG.	FOOTING SIZE
16 TO 18	138'-10	3'-6 x 9' x 22'
	151'-4	
	163'-10	3'-6 x 9' x 24'
	176'-4	
	188'-10	
	201'-4	3'-6 x 9' x 26'
	213'-10	
	226'-4	3'-6 x 10' x 26'
	243'-0	
19 TO 21	138'-10	3'-6 x 9' x 22'
	151'-4	
	163'-10	3'-6 x 9' x 24'
	176'-4	
	188'-10	3'-6 x 9' x 26'
	201'-4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



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 22'	d2	44 - #9 AS SHOWN	9'-5	1409	2500	25.7
	f1	22 - #5 @ 1'-0	8'-8	199		
	f2	9 - #5 @ 1'-0	21'-8	203		
	g1	28 - #6 @ 0'-9½	8'-8	364		
	g2	10 - #6 @ 0'-11	21'-8	325		
3'-6 x 9' x 24'	d2	44 - #9 AS SHOWN	9'-5	1409	2884	28.0
	f1	24 - #5 @ 1'-0	8'-8	217		
	f2	9 - #5 @ 1'-0	23'-8	222		
	g1	31 - #6 @ 0'-9	8'-8	404		
	g2	10 - #8 @ 0'-11	23'-8	632		
3'-6 x 9' x 26'	d2	44 - #9 AS SHOWN	9'-5	1409	3503	30.3
	f1	26 - #5 @ 1'-0	8'-8	235		
	f2	9 - #5 @ 1'-0	25'-8	241		
	g1	29 - #7 @ 0'-10½	8'-8	514		
	g2	10 - #10 @ 0'-10	25'-8	1104		
3'-6 x 10' x 26'	d2	44 - #9 AS SHOWN	9'-5	1409	3826	33.7
	f1	26 - #5 @ 1'-0	9'-8	262		
	f2	10 - #5 @ 1'-0	25'-8	268		
	g1	34 - #7 @ 0'-9	9'-8	672		
	g2	11 - #10 @ 0'-11	25'-8	1215		



d2 BAR LAYOUT
(SEE SECTION A-A ON SHEET H40-57-06.)

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 H40-57-06.

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).

04-12
LATEST REVISION DATE

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 - SPREAD FOOTINGS

0° SKEW - H=16' TO 24'

H40-63-06

REVISED 04-12 - EXCAVATION LIMIT WAS CHANGED TO 3'-0.