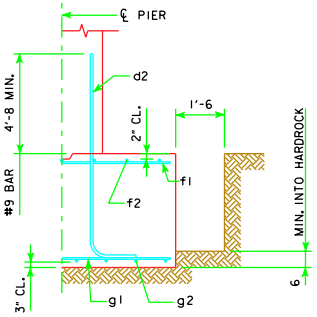
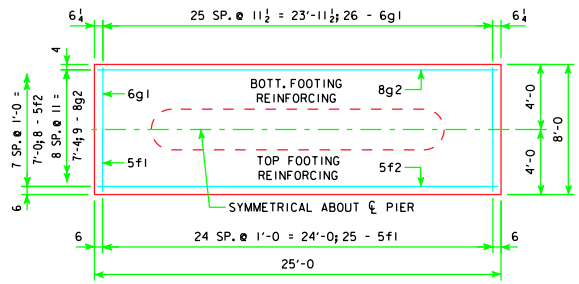
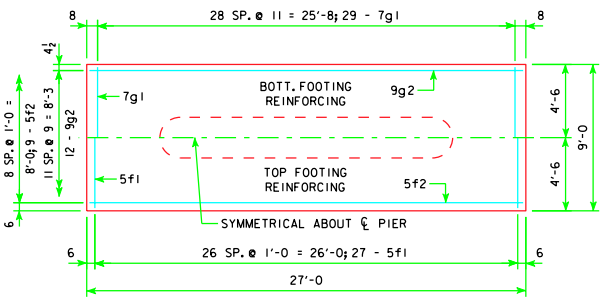


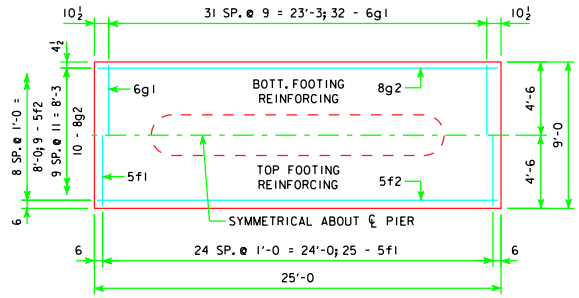
TYPICAL SECTION



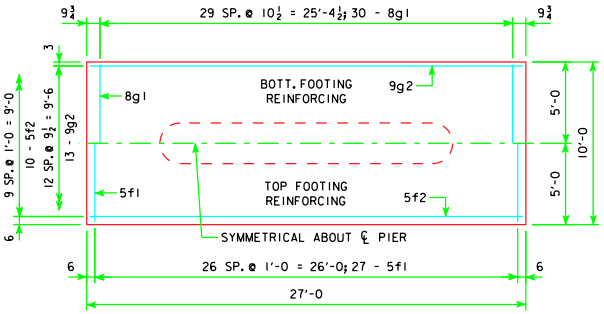
3'-6 x 8'-0 x 25'-0



3'-6 x 9'-0 x 27'-0

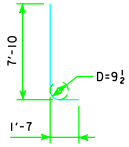


3'-6 x 9'-0 x 25'-0



3'-6 x 10'-0 x 27'-0

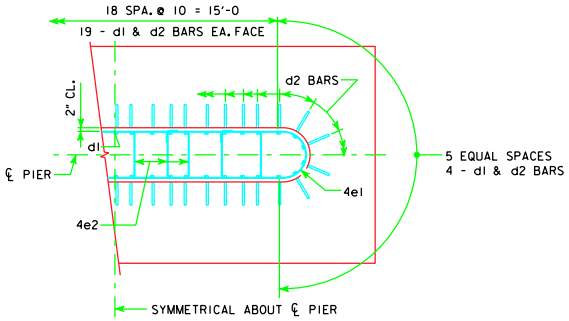
H IN FT.	℄ - ℄ ABUT. BRG.	FOOTING SIZE
16 TO 18	138'-10 151'-4	3'-6 x 8' x 25'
	163'-10 176'-4 188'-10	3'-6 x 9' x 25'
	201'-4 213'-10	3'-6 x 9' x 27'
	226'-4 243'-0	3'-6 x 10' x 27'
19 TO 21	138'-10 151'-4 163'-10 176'-4 188'-10	3'-6 x 9' x 25'
	201'-4	3'-6 x 9' x 27'
	213'-10 226'-4 243'-0	3'-6 x 10' x 27'
22 TO 24	138'-10	3'-6 x 8' x 25'
	151'-4 163'-10 176'-4	3'-6 x 9' x 25'
	188'-10 201'-4	3'-6 x 9' x 27'
	213'-10 226'-4 243'-0	3'-6 x 10' x 27'



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 8' x 25'	d2	46 - #9 AS SHOWN	9'-5	1473	2771	25.9
	f1	25 - #5 @ 1'-0	7'-8	200		
	f2	8 - #5 @ 1'-0	24'-8	206		
	g1	26 - #6 @ 0'-11½	7'-8	299		
	g2	9 - #8 @ 0'-11	24'-8	593		
3'-6 x 9' x 25'	d2	46 - #9 AS SHOWN	9'-5	1473	3007	29.2
	f1	25 - #5 @ 1'-0	8'-8	226		
	f2	9 - #5 @ 1'-0	24'-8	232		
	g1	32 - #6 @ 0'-9	8'-8	417		
	g2	10 - #8 @ 0'-11	24'-8	659		
3'-6 x 9' x 27'	d2	46 - #9 AS SHOWN	9'-5	1473	3569	31.5
	f1	27 - #5 @ 1'-0	8'-8	244		
	f2	9 - #5 @ 1'-0	26'-8	250		
	g1	29 - #7 @ 0'-11	8'-8	514		
	g2	12 - #9 @ 0'-9	26'-8	1088		
3'-6 x 10' x 27'	d2	46 - #9 AS SHOWN	9'-5	1473	3976	35.0
	f1	27 - #5 @ 1'-0	9'-8	272		
	f2	10 - #5 @ 1'-0	26'-8	278		
	g1	30 - #8 @ 0'-10½	9'-8	774		
	g2	13 - #9 @ 0'-9½	26'-8	1179		



d2 BAR LAYOUT
(SEE SECTION A-A ON SHEET H40-65-06.)

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 H40-65-06.

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).

10-09
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
15° SKEW - H=16' TO 24'

H40-71-06

REVISED 10-09 - SHEET WAS REVISED TO MEET LRFD SPECIFICATIONS.