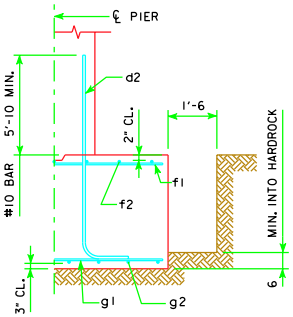
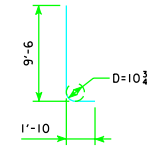
H IN FT.	℄ - ℄ ABUT. BRG.	FOOTING SIZE
25 TO 27	138'-10 151'-4	4' x 8' x 30'
	163'-10 176'-4 188'-10	4' x 9' x 30'
	201'-4 213'-10	4' x 9' x 32'
	226'-4 243'-0	4' x 10' x 32'
28 TO 30	138'-10	4' x 8' x 30'
	151'-4 163'-10 176'-4 188'-10	4' x 9' x 30'
	201'-4 213'-10	4' x 9' x 32'
	226'-4 243'-0	4' x 10' x 32'
31 TO 33	138'-10 151'-4 163'-10 176'-4	4' x 9' x 30'
	188'-10 201'-4	4' x 9' x 32'
	213'-10 226'-4 243'-0	4' x 10' x 32'
34 TO 36	138'-10 151'-4 163'-10	4' x 9' x 30'
	176'-4 188'-10	4' x 9' x 32'
	201'-4 213'-10 226'-4	4' x 10' x 32'
	243'-0	4' x 10' x 34'
37 TO 40	138'-10 151'-4	4' x 9' x 30'
	163'-10 176'-4	4' x 9' x 32'
	188'-10 201'-4 213'-10	4' x 10' x 32'
	226'-4 243'-0	4' x 10' x 34'



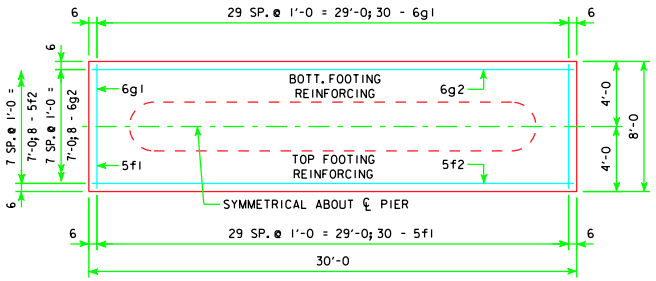
TYPICAL SECTION



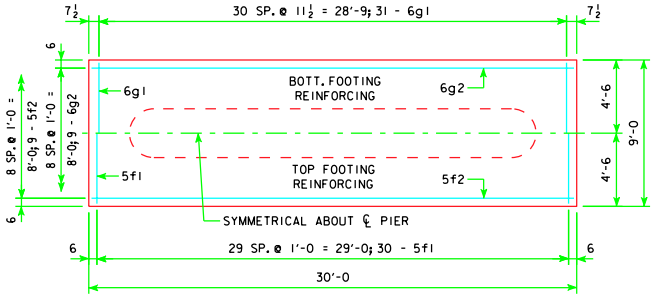
d2

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

FOOTING SIZE	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)	TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
		REINFORCING STEEL (ONE FOOTING)				
4' x 8' x 30'	d2	58 - #10 AS SHOWN	11'-4	2828	4017	35.6
	f1	30 - #5 @ 1'-0	7'-8	240		
	f2	8 - #5 @ 1'-0	29'-8	248		
	g1	30 - #6 @ 1'-0	7'-8	345		
	g2	8 - #6 @ 1'-0	29'-8	356		
4' x 9' x 30'	d2	58 - #10 AS SHOWN	11'-4	2828	4182	40.0
	f1	30 - #5 @ 1'-0	8'-8	271		
	f2	9 - #5 @ 1'-0	29'-8	278		
	g1	31 - #6 @ 0'-11½	8'-8	404		
	g2	9 - #6 @ 1'-0	29'-8	401		
4' x 9' x 32'	d2	58 - #10 AS SHOWN	11'-4	2828	4634	42.7
	f1	32 - #5 @ 1'-0	8'-8	289		
	f2	9 - #5 @ 1'-0	31'-8	297		
	g1	34 - #6 @ 0'-11	8'-8	443		
	g2	12 - #7 @ 0'-9	31'-8	777		
4' x 10' x 32'	d2	58 - #10 AS SHOWN	11'-4	2828	4994	47.4
	f1	32 - #5 @ 1'-0	9'-8	323		
	f2	10 - #5 @ 1'-0	31'-8	330		
	g1	34 - #7 @ 0'-11	9'-8	672		
	g2	13 - #7 @ 0'-9½	31'-8	841		
4' x 10' x 34'	d2	58 - #10 AS SHOWN	11'-4	2828	5627	50.4
	f1	34 - #5 @ 1'-0	9'-8	343		
	f2	10 - #5 @ 1'-0	33'-8	351		
	g1	37 - #7 @ 0'-11	9'-8	731		
	g2	12 - #9 @ 0'-10	33'-8	1374		



4'-0 x 8'-0 x 30'-0

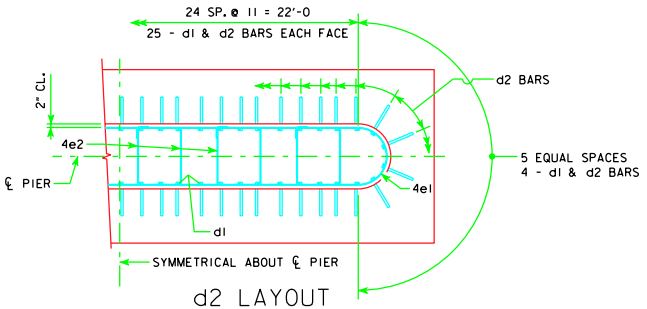


4'-0 x 9'-0 x 30'-0

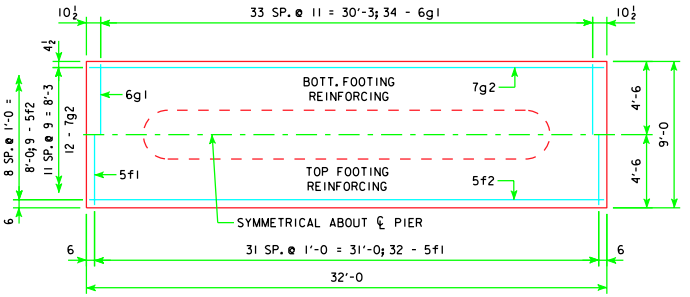
FOOTING NOTES:

THESE SPREAD FOOTINGS ARE DESIGNED AND DETAILED TO BE USED WITH THE CAP AND COLUMN DETAILS OF THE TEE PIERS AS SHOWN ON SHEET H40-81-06.

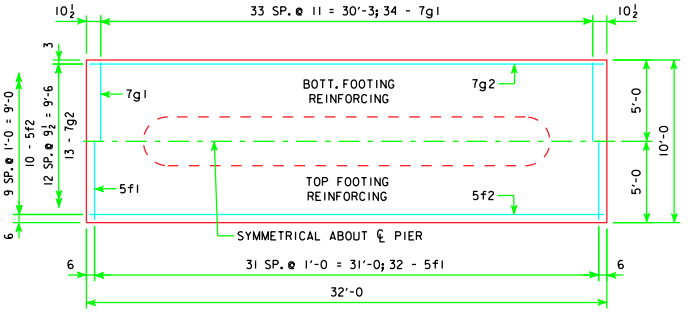
THESE SPREAD FOOTINGS SHALL EXTEND AT LEAST 6 INCHES INTO SUITABLE FOUNDATION ROCK AND THE LAST 6 INCHES OF ROCK EXCAVATION SHALL BE TO NEAT LINES OF MASONRY. THE FOUNDATION ROCK SHALL HAVE A MINIMUM LRFD NOMINAL BEARING RESISTANCE OF 30 kips PER SQUARE FOOT (ALLOWABLE BEARING VALUE OF AT LEAST 5 TONS PER SQUARE FOOT).



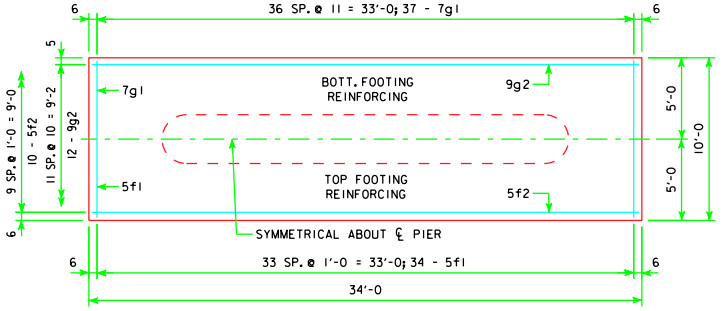
d2 LAYOUT
(SEE SECTION A-A ON SHEET H40-81-06.)



4'-0 x 9'-0 x 32'-0



4'-0 x 10'-0 x 32'-0



4'-0 x 10'-0 x 34'-0

01-10 LATEST REVISION DATE	Thomas K. McDonald 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 45° SKEW - H=25' TO 40'
		H40-88-06

REVISED 01-10 - ADDED FOOTING NOTES.