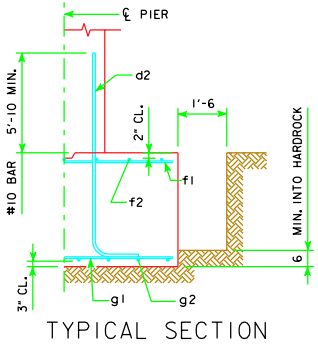
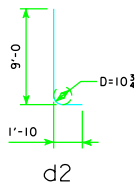


REVISED 11-09 - SHEET WAS REVISED TO MEET LRFD SPECIFICATIONS.

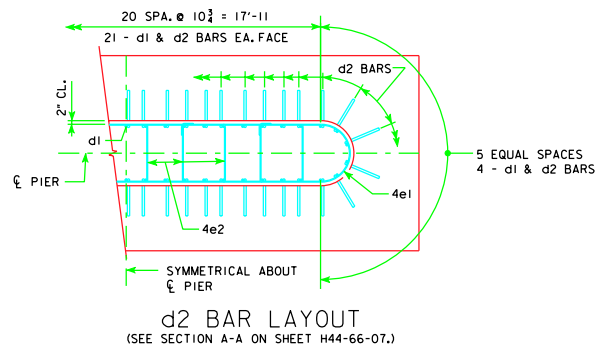
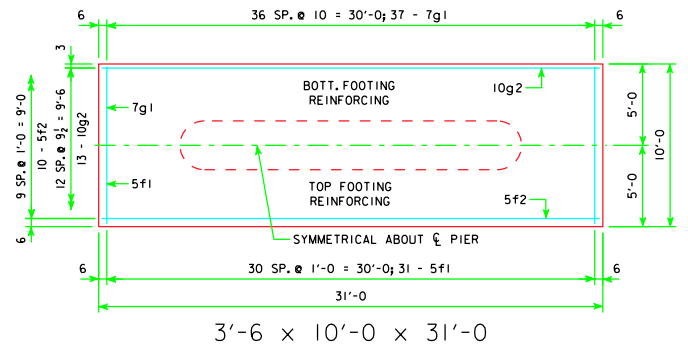
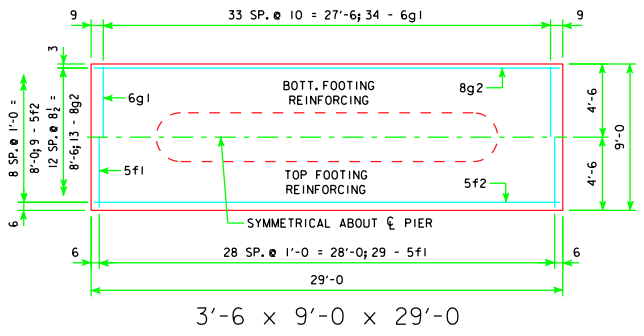
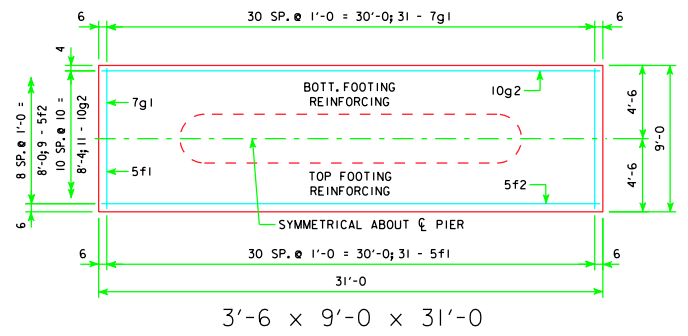
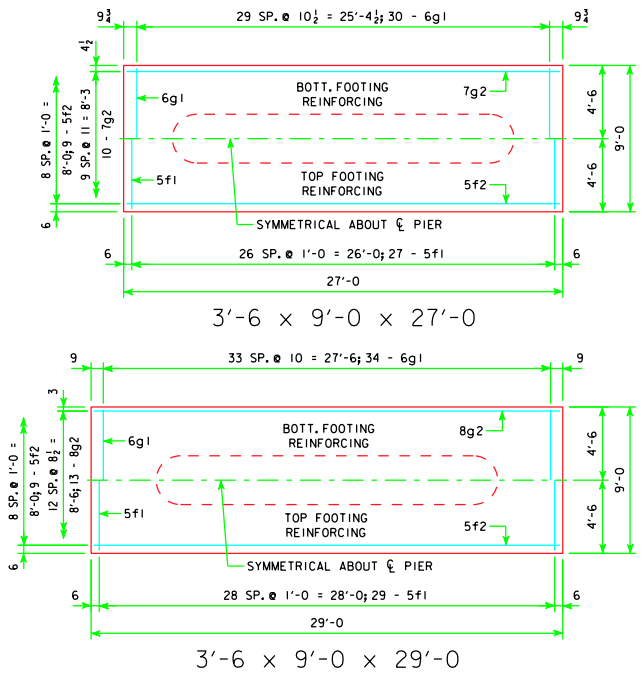


H IN FT.	℄ - ℄ ABUT. BRG.	FOOTING SIZE
16 TO 18	138'-10 151'-4 163'-10 176'-4	3'-6 x 9' x 27'
19 TO 21	188'-10 201'-4 213'-10 226'-4 243'-0	3'-6 x 9' x 29' 3'-6 x 9' x 31' 3'-6 x 10' x 31'
22 TO 24	138'-10 151'-4 163'-10 176'-4 188'-10 201'-4 213'-10 226'-4 243'-0	3'-6 x 9' x 27' 3'-6 x 9' x 29' 3'-6 x 9' x 31' 3'-6 x 10' x 31'



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

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH (LB.)	TOTAL WEIGHT (LB.)	
3'-6 x 9' x 27'	d2	50 - #10 AS SHOWN	10'-10	2331	3761
	f1	27 - #5 @ 1'-0	8'-8	244	
	f2	9 - #5 @ 1'-0	26'-8	250	
	g1	30 - #6 @ 0'-10 1/2	8'-8	391	
	g2	10 - #7 @ 0'-11	26'-8	545	
3'-6 x 9' x 29'	d2	50 - #10 AS SHOWN	10'-10	2331	4300
	f1	29 - #5 @ 1'-0	8'-8	262	
	f2	9 - #5 @ 1'-0	28'-8	269	
	g1	34 - #6 @ 0'-10	8'-8	443	
	g2	13 - #8 @ 0'-8 1/2	28'-8	995	
3'-6 x 9' x 31'	d2	50 - #10 AS SHOWN	10'-10	2331	4900
	f1	31 - #5 @ 1'-0	8'-8	280	
	f2	9 - #5 @ 1'-0	30'-8	288	
	g1	31 - #7 @ 1'-0	8'-8	549	
	g2	11 - #10 @ 0'-10	30'-8	1452	
3'-6 x 10' x 31'	d2	50 - #10 AS SHOWN	10'-10	2331	5410
	f1	31 - #5 @ 1'-0	9'-8	313	
	f2	10 - #5 @ 1'-0	30'-8	320	
	g1	37 - #7 @ 0'-10	9'-8	731	
	g2	13 - #10 @ 0'-9 1/2	30'-8	1715	



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 H44-66-07.

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 A MINIMUM LRFD NOMINAL BEARING RESISTANCE OF 30 kips PER SQUARE FOOT (ALLOWABLE BEARING VALUE OF AT LEAST 5 TONS PER SQUARE FOOT).

LATEST REVISION DATE
11-09

APPROVED BY BRIDGE ENGINEER
Thomas E. McQuinn

**Iowa Department of Transportation
Highway Division**

STANDARD DESIGN - 44' ROADWAY, THREE SPAN BRIDGE
**PRETENSIONED PRESTRESSED
CONCRETE BEAM BRIDGES**
MARCH, 2007

TEE PIER - SPREAD
FOOTINGS
30° SKEW - H=16' TO 24'

H44-72-07