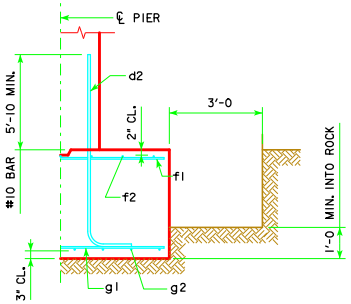
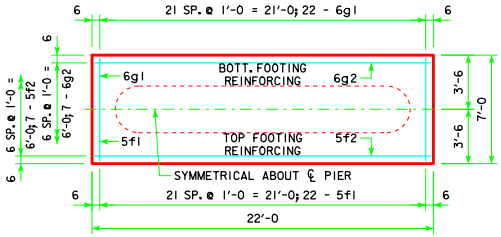
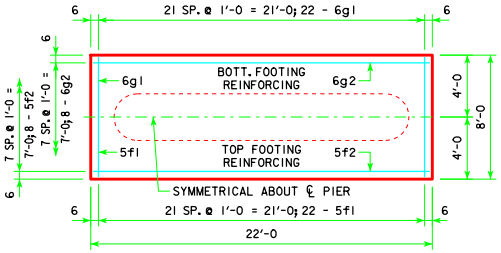


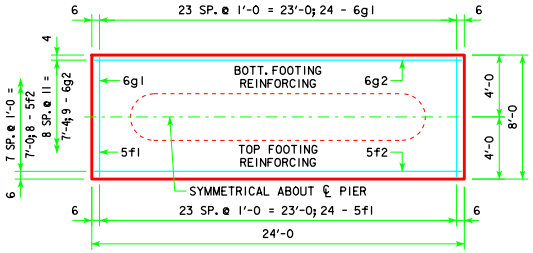
TYPICAL SECTION



3'-6 x 7'-0 x 22'-0

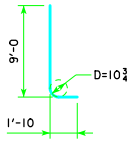


3'-6 x 8'-0 x 22'-0



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

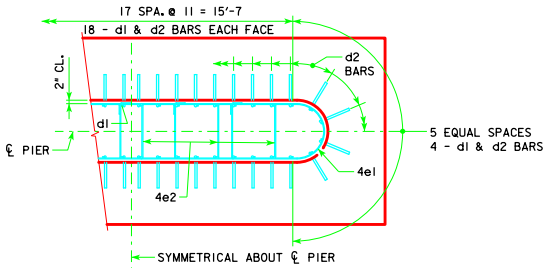
H IN FT.	℄ - ℄ ABUT. BRG.	FOOTING SIZE
16 TO 18	138'-10 151'-4 163'-10 176'-4 188'-10	3'-6 x 7' x 22'
	201'-4 213'-10 226'-4 243'-0	3'-6 x 8' x 22'
19 TO 21	138'-10 151'-4	3'-6 x 7' x 22'
	163'-10 176'-4 188'-10 201'-4 213'-10 226'-4	3'-6 x 8' x 22'
	243'-0	3'-6 x 8' x 24'
22 TO 24	138'-10 151'-4 163'-10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



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 7' x 22'	d2	44 - #10 AS SHOWN	10'-10	2051	2810	20.0
	f1	22 - #5 @ 1'-0	6'-8	153		
	f2	7 - #5 @ 1'-0	21'-8	158		
	g1	22 - #6 @ 1'-0	6'-8	220		
	g2	7 - #6 @ 1'-0	21'-8	228		
3'-6 x 8' x 22'	d2	44 - #10 AS SHOWN	10'-10	2051	2921	22.8
	f1	22 - #5 @ 1'-0	7'-8	176		
	f2	8 - #5 @ 1'-0	21'-8	181		
	g1	22 - #6 @ 1'-0	7'-8	253		
	g2	8 - #6 @ 1'-0	21'-8	260		
3'-6 x 8' x 24'	d2	44 - #10 AS SHOWN	10'-10	2051	3036	24.9
	f1	24 - #5 @ 1'-0	7'-8	192		
	f2	8 - #5 @ 1'-0	23'-8	197		
	g1	24 - #6 @ 1'-0	7'-8	276		
	g2	9 - #6 @ 0'-11	23'-8	320		



d2 BAR LAYOUT
(SEE SECTION A-A ON SHEET H24-64-06.)

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 H24-64-06.

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 - 24' ROADWAY, THREE SPAN BRIDGE

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

DECEMBER, 2006

TEE PIER - SPREAD FOOTINGS

30° SKEW - H=16' TO 24'

H24-69-06

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