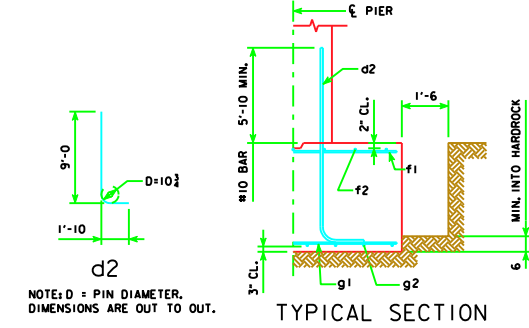
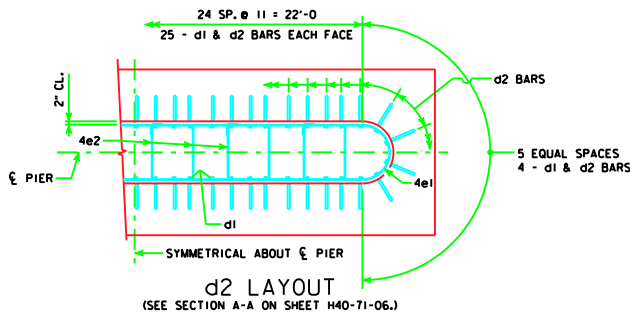
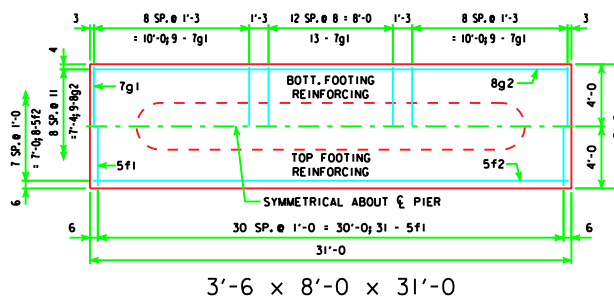
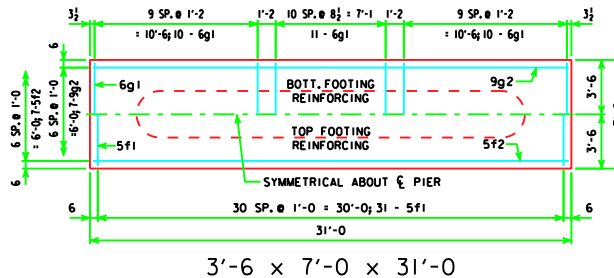
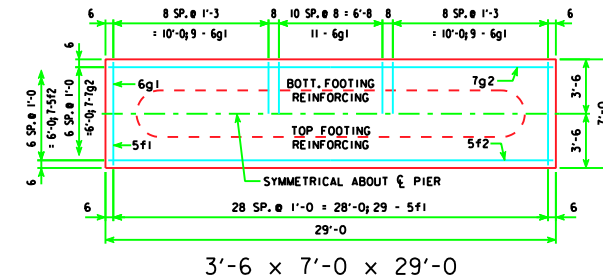


H IN FT.	ξ - ξ ABUT. BRG.	FOOTING SIZE
16 TO 18	138'-10 151'-4 163'-10 176'-4 188'-10 201'-4 213'-10	3'-6 x 7' x 29'
	226'-4 243'-0	3'-6 x 7' x 31'
19 TO 21	138'-10 151'-4 163'-10 176'-4 188'-10 201'-4 213'-10	3'-6 x 7' x 29'
	226'-4 243'-0	3'-6 x 7' x 31'
22 TO 24	138'-10 151'-4 163'-10 176'-4 188'-10 201'-4 213'-10	3'-6 x 7' x 29'
	226'-4 243'-0	3'-6 x 8' x 31'

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				TOTAL WEIGHT (L.B.)	STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (L.B.)		
3'-6 x 7' x 29'	d2	58 - #10 AS SHOWN	10'-10	2704	3815	26.3
	f1	29 - #5 @ 1'-0	6'-8	202		
	f2	7 - #5 @ 1'-0	28'-8	209		
	g1	29 - #6 AS SHOWN	6'-8	290		
	g2	7 - #7 @ 1'-0	28'-8	410		
	d2	58 - #10 AS SHOWN	10'-10	2704		
3'-6 x 7' x 31'	f1	31 - #5 @ 1'-0	6'-8	216	4184	28.1
	f2	7 - #5 @ 1'-0	30'-8	224		
	g1	31 - #6 AS SHOWN	6'-8	310		
	g2	7 - #9 @ 1'-0	30'-8	730		
	d2	58 - #10 AS SHOWN	10'-10	2704		
	f1	31 - #5 @ 1'-0	7'-8	248		
3'-6 x 8' x 31'	f2	8 - #5 @ 1'-0	30'-8	256	4431	32.1
	g1	31 - #7 AS SHOWN	7'-8	486		
	g2	9 - #8 @ 0'-11	30'-8	737		



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 H40-71-06.

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 AN ALLOWABLE BEARING VALUE OF AT LEAST 5 TONS PER SQUARE FOOT.

LATEST REVISION DATE	 Iowa Department of Transportation Highway Division	STANDARD DESIGN - 40' ROADWAY, THREE SPAN BRIDGE	
		PRETENSIONED PRESTRESSED	
		CONCRETE BEAM BRIDGES	
		HL93 SUPERSTRUCTURE	DECEMBER, 2006
		HS25 SUBSTRUCTURE	
		TEE PIER - SPREAD FOOTINGS, H=16' TO 24'	H40-75-06
		45° SKEW	