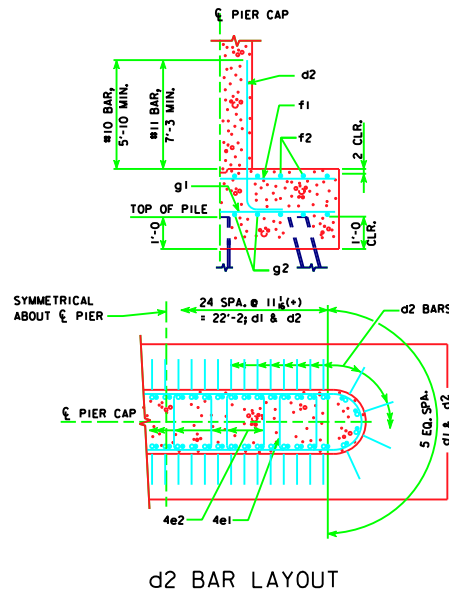


CL-CL ABUT. BEARING	HEIGHT (FT)	PILING		FTG. SIZE	STRUCTURAL CONCRETE (C.Y.)
		NO. & LAYOUT	DES. BRG. (TONS)		
160 ft	16	18B	34	4' x 8' x 27'	32.0
	19	18B	35		
	22	18B	36		
	25	18B	37		
	28	19B	37	4' x 9' x 28'	37.3
	31	20B	35		
	34	20B	37		
	37	21A	36		
180 ft	40	22B	35	4' x 10' x 29'	43.0
	16	18B	37		
	19	19B	36		
	22	19B	37		
	25	20C	37	4' x 9' x 28'	37.3
	28	20B	36		
	31	21A	36		
	34	21A	37		
200 ft	37	22B	37	4' x 10' x 29'	43.0
	40	23B	37		
	16	20C	36		
	19	20C	37		
	22	20B	37	4' x 9' x 28'	37.3
	25	21B	36		
	28	22C	37		
	31	22B	36		
220 ft	34	23B	37	4' x 10' x 29'	43.0
	37	24B	37		
	40	26B	37		
	16	21B	36		
	19	21B	37	4' x 9' x 28'	37.3
	22	22C	36		
	25	22C	37		
	28	23B	36		
240 ft	31	23B	37	4' x 10' x 29'	43.0
	34	25B	37		
	37	26A	36		
	40	27A	37		
	16	22C	37	4' x 9' x 28'	37.3
	19	22C	37		
	22	23B	37		
	25	24B	36		
260 ft	28	24B	37	4' x 10' x 29'	43.0
	31	26B	37		
	34	26A	37		
	37	28B	36		
	40	28A	37	4' x 12' x 31'	55.1
	16	24B	36		
	19	24B	37		
	22	25B	36		
280 ft	25	25B	37	4' x 10' x 29'	43.0
	28	26B	37		
	31	27A	37		
	34	28B	37		
	37	29A	37	4' x 11' x 30'	48.9
	40	30A	37		
	16	25B	37		
	19	26B	37		
300 ft	22	26B	37	4' x 10' x 29'	43.0
	25	26A	37		
	28	27A	37		
	31	28A	37		
	34	30A	37	4' x 12' x 31'	55.1
	37	32A	36		
	40	32A	37		
	16	26A	37		
	19	27A	37	4' x 11' x 30'	48.9
	22	27A	37		
	25	28B	37		
	28	29A	37		
	31	30A	37	4' x 12' x 31'	55.1
	34	32A	37		
	37	33A	37		
	40	35A	37		

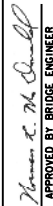
REINFORCING STEEL (ONE FOOTING)					
FTG. SIZE	BAR	NO. SIZE & SPC.	LENGTH	WEIGHT LB.	TOTAL WEIGHT LB.
4' x 8' x 27'	d2	SEE NOTE	--	--	1007
	f1	27 #5 @ 1'-0	7'-8	216	
	f2	8 #5 @ 1'-0	26'-8	223	
	g1	30 #6 @ 11	7'-8	345	
	g2	8 #5 @ 1'-0	26'-8	223	
	d2	SEE NOTE	--	--	
4' x 9' x 28'	f1	28 #5 @ 1'-0	8'-8	253	1351
	f2	9 #5 @ 1'-0	27'-8	260	
	g1	31 #7 @ 11	8'-8	549	
	g2	10 #5 @ 11	27'-8	289	
	d2	SEE NOTE	--	--	
	f1	29 #5 @ 1'-0	9'-8	292	2064
4' x 10' x 29'	f2	10 #5 @ 1'-0	28'-8	299	
	g1	27 #9 @ 1'-1	9'-8	887	
	g2	10 #7 @ 1'-0	28'-8	586	
	d2	SEE NOTE	--	--	
	f1	30 #5 @ 1'-0	10'-8	334	
4' x 11' x 30'	f2	11 #5 @ 1'-0	29'-8	340	2822
	g1	33 #9 @ 11	10'-8	1197	
	g2	12 #8 @ 11	29'-8	951	
	d2	SEE NOTE	--	--	
	f1	31 #5 @ 1'-0	11'-8	377	
	f2	12 #5 @ 1'-0	30'-8	384	3742
4' x 12' x 31'	g1	41 #9 @ 9	11'-8	1626	
	g2	13 #9 @ 11	30'-8	1355	
	d2	SEE NOTE	--	--	
	f1	31 #5 @ 1'-0	11'-8	377	
	f2	12 #5 @ 1'-0	30'-8	384	
	g1	41 #9 @ 9	11'-8	1626	

NOTE: SEE RS40-17-04 FOR DETAILS.



FOOTING NOTES :

1. THESE FOOTINGS ARE DESIGNED AND DETAILED TO BE USED WITH RS40-17-04.
2. PIER PILES (HP10x42) ARE TO BE DRIVEN TO THE DESIGN BEARING VALUE.
3. STEEL PILING USED AS POINT BEARING SHALL HAVE A MINIMUM DISTANCE OF APPROXIMATELY 10 FEET FROM BOTTOM OF FOOTING TO TOP OF BEARING ROCK. BATTER PILES IN EXTERIOR ROWS 1:4 IN THE DIRECTION SHOWN.

03-07 LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	 Iowa Department of Transportation Highway Division	
		STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES ROLLED STEEL BEAM BRIDGES FEBRUARY, 2004	
		T PIER 30° SKEW STEEL PILE FOOTINGS SHEET 1 OF 3	RS40-18-04