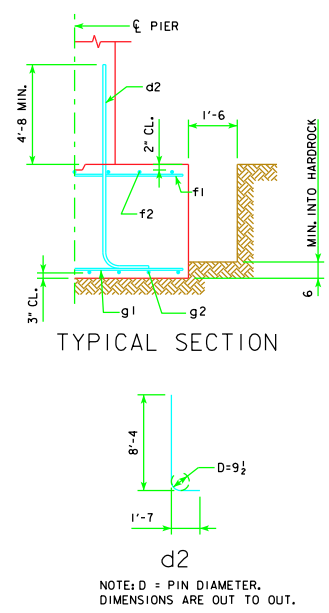
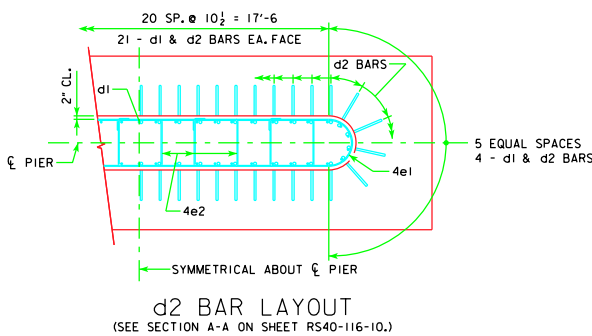


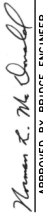
H IN FT.	℄ - ℄ ABUT. BRG.	FOOTING SIZE	H IN FT.	℄ - ℄ ABUT. BRG.	FOOTING SIZE	FOOTING SIZE	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)	TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
16 TO 18	160'-0	4' x 8' x 26'	37 TO 40	160'-0	4' x 9' x 28'	4' x 8' x 26'	d2	50 - #9 AS SHOWN	9'-11	1686	2793	30.8
	180'-0	4' x 8' x 26'		180'-0	4' x 9' x 28'		f1	26 - #5 @ 1'-0	7'-8	208		
	200'-0	4' x 8' x 26'		200'-0	4' x 9' x 30'		f2	8 - #5 @ 1'-0	25'-8	214		
	220'-0	4' x 9' x 28'		220'-0	4' x 9' x 30'		g1	26 - #6 @ 1'-0	7'-8	299		
	240'-0	4' x 9' x 28'		240'-0	4' x 10' x 30'		g2	10 - #6 @ 0'-10	25'-8	386		
	260'-0	4' x 9' x 30'		260'-0	4' x 10' x 30'		d2	50 - #9 AS SHOWN	9'-11	1686		
	280'-0	4' x 10' x 30'		280'-0	4' x 10' x 32'		f1	28 - #5 @ 1'-0	7'-8	224		
	300'-0	4' x 10' x 30'		300'-0	4' x 11' x 32'		f2	8 - #5 @ 1'-0	27'-8	231		
	320'-0	4' x 10' x 30'		320'-0	4' x 10' x 30'		g1	28 - #6 @ 1'-0	7'-8	322		
	340'-0	4' x 10' x 32'		340'-0	4' x 10' x 32'		g2	10 - #8 @ 0'-10	27'-8	739		
19 TO 21	160'-0	4' x 8' x 26'		160'-0	4' x 8' x 26'	4' x 9' x 28'	d2	50 - #9 AS SHOWN	9'-11	1686	3455	37.3
	180'-0	4' x 8' x 26'		180'-0	4' x 8' x 26'		f1	28 - #5 @ 1'-0	8'-8	253		
	200'-0	4' x 8' x 26'		200'-0	4' x 8' x 26'		f2	9 - #5 @ 1'-0	27'-8	260		
	220'-0	4' x 9' x 28'		220'-0	4' x 9' x 28'		g1	34 - #6 @ 0'-10	8'-8	443		
	240'-0	4' x 9' x 30'		240'-0	4' x 9' x 30'		g2	11 - #8 @ 0'-10	27'-8	813		
	260'-0	4' x 9' x 30'		260'-0	4' x 10' x 30'		d2	50 - #9 AS SHOWN	9'-11	1686		
	280'-0	4' x 10' x 30'		280'-0	4' x 10' x 30'		f1	30 - #5 @ 1'-0	8'-8	271		
	300'-0	4' x 10' x 30'		300'-0	4' x 10' x 30'		f2	9 - #5 @ 1'-0	29'-8	278		
	320'-0	4' x 10' x 32'		320'-0	4' x 10' x 32'		g1	37 - #6 @ 0'-9 1/2	8'-8	482		
	340'-0	4' x 10' x 32'		340'-0	4' x 10' x 32'		g2	13 - #9 @ 0'-8 1/2	29'-8	1311		
22 TO 24	160'-0	4' x 8' x 26'		160'-0	4' x 8' x 26'	4' x 10' x 30'	d2	50 - #9 AS SHOWN	9'-11	1686	4028	40.0
	180'-0	4' x 8' x 26'		180'-0	4' x 8' x 26'		f1	30 - #5 @ 1'-0	9'-8	302		
	200'-0	4' x 8' x 26'		200'-0	4' x 8' x 26'		f2	10 - #5 @ 1'-0	29'-8	309		
	220'-0	4' x 9' x 28'		220'-0	4' x 9' x 28'		g1	45 - #6 @ 0'-8	9'-8	653		
	240'-0	4' x 9' x 30'		240'-0	4' x 9' x 30'		g2	14 - #9 @ 0'-8 1/2	29'-8	1412		
	260'-0	4' x 9' x 30'		260'-0	4' x 10' x 30'		d2	50 - #9 AS SHOWN	9'-11	1686		
	280'-0	4' x 10' x 30'		280'-0	4' x 10' x 30'		f1	32 - #5 @ 1'-0	9'-8	323		
	300'-0	4' x 10' x 30'		300'-0	4' x 10' x 30'		f2	10 - #5 @ 1'-0	31'-8	330		
	320'-0	4' x 10' x 32'		320'-0	4' x 11' x 32'		g1	48 - #6 @ 0'-8	9'-8	697		
	340'-0	4' x 11' x 32'		340'-0	4' x 11' x 32'		g2	17 - #9 @ 0'-7	31'-8	1830		
25 TO 27	160'-0	4' x 8' x 28'		160'-0	4' x 8' x 28'	4' x 11' x 32'	d2	50 - #9 AS SHOWN	9'-11	1686	5452	52.1
	180'-0	4' x 8' x 28'		180'-0	4' x 8' x 28'		f1	32 - #5 @ 1'-0	10'-8	356		
	200'-0	4' x 9' x 28'		200'-0	4' x 9' x 28'		f2	11 - #5 @ 1'-0	31'-8	363		
	220'-0	4' x 9' x 28'		220'-0	4' x 9' x 28'		g1	46 - #7 @ 0'-8	10'-8	1003		
	240'-0	4' x 9' x 30'		240'-0	4' x 9' x 30'		g2	15 - #10 @ 0'-9	31'-8	2044		
	260'-0	4' x 10' x 30'		260'-0	4' x 10' x 30'							
	280'-0	4' x 10' x 30'		280'-0	4' x 10' x 30'							
	300'-0	4' x 10' x 32'		300'-0	4' x 10' x 32'							
	320'-0	4' x 11' x 32'		320'-0	4' x 11' x 32'							
	340'-0	4' x 11' x 32'		340'-0	4' x 11' x 32'							
28 TO 30	160'-0	4' x 8' x 28'		160'-0	4' x 8' x 28'	4' x 10' x 30'						
	180'-0	4' x 8' x 28'		180'-0	4' x 8' x 28'							
	200'-0	4' x 9' x 28'		200'-0	4' x 9' x 28'							
	220'-0	4' x 9' x 28'		220'-0	4' x 9' x 28'							
	240'-0	4' x 9' x 30'		240'-0	4' x 9' x 30'							
	260'-0	4' x 9' x 30'		260'-0	4' x 10' x 30'							
	280'-0	4' x 10' x 30'		280'-0	4' x 10' x 30'							
	300'-0	4' x 10' x 32'		300'-0	4' x 10' x 32'							
	320'-0	4' x 11' x 32'		320'-0	4' x 11' x 32'							
	340'-0	4' x 11' x 32'		340'-0	4' x 11' x 32'							
31 TO 33	160'-0	4' x 8' x 28'		160'-0	4' x 8' x 28'	4' x 10' x 30'						
	180'-0	4' x 8' x 28'		180'-0	4' x 8' x 28'							
	200'-0	4' x 9' x 28'		200'-0	4' x 9' x 28'							
	220'-0	4' x 9' x 28'		220'-0	4' x 9' x 28'							
	240'-0	4' x 9' x 30'		240'-0	4' x 9' x 30'							
	260'-0	4' x 10' x 30'		260'-0	4' x 10' x 30'							
	280'-0	4' x 10' x 30'		280'-0	4' x 10' x 30'							
	300'-0	4' x 10' x 32'		300'-0	4' x 10' x 32'							
	320'-0	4' x 11' x 32'		320'-0	4' x 11' x 32'							
	340'-0	4' x 11' x 32'		340'-0	4' x 11' x 32'							
34 TO 36	160'-0	4' x 8' x 28'		160'-0	4' x 8' x 28'	4' x 10' x 30'						
	180'-0	4' x 8' x 28'		180'-0	4' x 8' x 28'							
	200'-0	4' x 9' x 28'		200'-0	4' x 9' x 28'							
	220'-0	4' x 9' x 28'		220'-0	4' x 9' x 28'							
	240'-0	4' x 10' x 30'		240'-0	4' x 10' x 30'							
	260'-0	4' x 10' x 30'		260'-0	4' x 10' x 30'							
	280'-0	4' x 10' x 32'		280'-0	4' x 10' x 32'							
	300'-0	4' x 10' x 32'		300'-0	4' x 10' x 32'							
	320'-0	4' x 11' x 32'		320'-0	4' x 11' x 32'							
	340'-0	4' x 11' x 32'		340'-0	4' x 11' x 32'							



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 RS40-116-10.

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	 APPROVED BY BRIDGE ENGINEER	 Iowa Department of Transportation Highway Division	
		STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES ROLLED STEEL BEAM BRIDGES JUNE, 2010	
		TEE PIER - SPREAD FOOTINGS 0° SKEW - SHEET 1	RS40-124-10