

H IN FT.	℄ - ℄ ABUT. BRG.	FOOTING SIZE	H IN FT.	℄ - ℄ ABUT. BRG.	FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)	
						FOOTING SIZE	BAR	NO., SIZE & SPACING	LENGTH			
16 TO 18	160'-0	4' x 7' x 32'	37 TO 40	160'-0	4' x 8' x 36'	4' x 7' x 32'	d2	74 - #9 AS SHOWN	9'-11	2495	3602	33.2
	180'-0	4' x 7' x 34'		180'-0	4' x 8' x 36'	4' x 7' x 32'	f1	32 - #5 @ 1'-0	6'-8	223		
	200'-0	4' x 8' x 34'		200'-0	4' x 9' x 36'	4' x 7' x 32'	f2	7 - #5 @ 1'-0	31'-8	231		
	220'-0	4' x 8' x 34'		220'-0	4' x 9' x 36'	4' x 7' x 32'	g1	32 - #6 @ 1'-0	6'-8	320		
	240'-0	4' x 8' x 36'		240'-0	4' x 9' x 36'	4' x 7' x 32'	g2	7 - #6 @ 1'-0	31'-8	333		
	260'-0	4' x 9' x 36'		260'-0	4' x 10' x 38'	4' x 7' x 32'	d2	74 - #9 AS SHOWN	9'-11	2495		
	280'-0	4' x 9' x 38'		280'-0	4' x 10' x 38'	4' x 7' x 32'	f1	34 - #5 @ 1'-0	6'-8	236		
	300'-0	4' x 9' x 38'		300'-0	4' x 10' x 38'	4' x 7' x 32'	f2	7 - #5 @ 1'-0	33'-8	246		
	320'-0	4' x 9' x 38'		320'-0	4' x 10' x 38'	4' x 7' x 32'	g1	34 - #6 @ 1'-0	6'-8	340		
	340'-0	4' x 9' x 38'		340'-0	4' x 10' x 40'	4' x 7' x 32'	g2	9 - #6 @ 0'-9½	33'-8	455		
19 TO 21	160'-0	4' x 7' x 32'	42 TO 45	160'-0	4' x 8' x 36'	4' x 8' x 34'	d2	74 - #9 AS SHOWN	9'-11	2495	3946	40.3
	180'-0	4' x 7' x 34'		180'-0	4' x 8' x 36'	4' x 8' x 34'	f1	34 - #5 @ 1'-0	7'-8	272		
	200'-0	4' x 8' x 34'		200'-0	4' x 8' x 36'	4' x 8' x 34'	f2	8 - #5 @ 1'-0	33'-8	281		
	220'-0	4' x 8' x 34'		220'-0	4' x 8' x 36'	4' x 8' x 34'	g1	34 - #6 @ 1'-0	7'-8	392		
	240'-0	4' x 8' x 36'		240'-0	4' x 8' x 36'	4' x 8' x 34'	g2	10 - #6 @ 0'-10	33'-8	506		
	260'-0	4' x 9' x 36'		260'-0	4' x 9' x 36'	4' x 8' x 34'	d2	74 - #9 AS SHOWN	9'-11	2495		
	280'-0	4' x 9' x 38'		280'-0	4' x 9' x 38'	4' x 8' x 34'	f1	36 - #5 @ 1'-0	7'-8	288		
	300'-0	4' x 9' x 38'		300'-0	4' x 9' x 38'	4' x 8' x 34'	f2	8 - #5 @ 1'-0	35'-8	298		
	320'-0	4' x 10' x 38'		320'-0	4' x 9' x 38'	4' x 8' x 34'	g1	36 - #6 @ 1'-0	7'-8	415		
	340'-0	4' x 10' x 38'		340'-0	4' x 9' x 38'	4' x 8' x 34'	g2	13 - #7 @ 0'-7½	35'-8	948		
22 TO 24	160'-0	4' x 7' x 32'	46 TO 49	160'-0	4' x 8' x 36'	4' x 9' x 36'	d2	74 - #9 AS SHOWN	9'-11	2495	4776	48.0
	180'-0	4' x 7' x 34'		180'-0	4' x 8' x 36'	4' x 9' x 36'	f1	36 - #5 @ 1'-0	8'-8	325		
	200'-0	4' x 8' x 34'		200'-0	4' x 8' x 36'	4' x 9' x 36'	f2	9 - #5 @ 1'-0	35'-8	335		
	220'-0	4' x 8' x 34'		220'-0	4' x 8' x 36'	4' x 9' x 36'	g1	44 - #6 @ 0'-9½	8'-8	573		
	240'-0	4' x 8' x 36'		240'-0	4' x 8' x 36'	4' x 9' x 36'	g2	11 - #8 @ 0'-10	35'-8	1048		
	260'-0	4' x 9' x 36'		260'-0	4' x 9' x 36'	4' x 9' x 36'	d2	74 - #9 AS SHOWN	9'-11	2495		
	280'-0	4' x 9' x 38'		280'-0	4' x 9' x 38'	4' x 9' x 36'	f1	38 - #5 @ 1'-0	8'-8	343		
	300'-0	4' x 9' x 38'		300'-0	4' x 9' x 38'	4' x 9' x 36'	f2	9 - #5 @ 1'-0	37'-8	354		
	320'-0	4' x 10' x 38'		320'-0	4' x 9' x 38'	4' x 9' x 36'	g1	47 - #6 @ 0'-9½	8'-8	612		
	340'-0	4' x 10' x 38'		340'-0	4' x 9' x 38'	4' x 9' x 36'	g2	16 - #8 @ 0'-6½	37'-8	1609		
25 TO 27	160'-0	4' x 8' x 34'	50 TO 53	160'-0	4' x 9' x 36'	4' x 10' x 38'	d2	74 - #9 AS SHOWN	9'-11	2495	5910	56.3
	180'-0	4' x 8' x 34'		180'-0	4' x 9' x 36'	4' x 10' x 38'	f1	38 - #5 @ 1'-0	9'-8	383		
	200'-0	4' x 8' x 36'		200'-0	4' x 9' x 36'	4' x 10' x 38'	f2	10 - #5 @ 1'-0	37'-8	393		
	220'-0	4' x 8' x 36'		220'-0	4' x 9' x 36'	4' x 10' x 38'	g1	47 - #7 @ 0'-9½	9'-8	929		
	240'-0	4' x 9' x 36'		240'-0	4' x 9' x 36'	4' x 10' x 38'	g2	17 - #8 @ 0'-7	37'-8	1710		
	260'-0	4' x 9' x 38'		260'-0	4' x 9' x 38'	4' x 10' x 38'	d2	74 - #9 AS SHOWN	9'-11	2495		
	280'-0	4' x 9' x 38'		280'-0	4' x 9' x 38'	4' x 10' x 38'	f1	40 - #5 @ 1'-0	9'-8	403		
	300'-0	4' x 9' x 38'		300'-0	4' x 9' x 38'	4' x 10' x 38'	f2	10 - #5 @ 1'-0	39'-8	414		
	320'-0	4' x 10' x 38'		320'-0	4' x 9' x 38'	4' x 10' x 38'	g1	50 - #7 @ 0'-9½	9'-8	988		
	340'-0	4' x 10' x 38'		340'-0	4' x 9' x 38'	4' x 10' x 38'	g2	17 - #9 @ 0'-7	39'-8	2293		
28 TO 30	160'-0	4' x 8' x 34'	54 TO 57	160'-0	4' x 9' x 36'	4' x 10' x 40'	d2	74 - #9 AS SHOWN	9'-11	2495	6593	59.3
	180'-0	4' x 8' x 34'		180'-0	4' x 9' x 36'	4' x 10' x 40'	f1	40 - #5 @ 1'-0	9'-8	403		
	200'-0	4' x 8' x 36'		200'-0	4' x 9' x 36'	4' x 10' x 40'	f2	10 - #5 @ 1'-0	39'-8	414		
	220'-0	4' x 9' x 36'		220'-0	4' x 9' x 36'	4' x 10' x 40'	g1	50 - #7 @ 0'-9½	9'-8	988		
	240'-0	4' x 9' x 36'		240'-0	4' x 9' x 36'	4' x 10' x 40'	g2	17 - #9 @ 0'-7	39'-8	2293		
	260'-0	4' x 9' x 38'		260'-0	4' x 9' x 38'	4' x 10' x 40'	d2	74 - #9 AS SHOWN	9'-11	2495		
	280'-0	4' x 9' x 38'		280'-0	4' x 9' x 38'	4' x 10' x 40'	f1	40 - #5 @ 1'-0	9'-8	403		
	300'-0	4' x 9' x 38'		300'-0	4' x 9' x 38'	4' x 10' x 40'	f2	10 - #5 @ 1'-0	39'-8	414		
	320'-0	4' x 10' x 38'		320'-0	4' x 9' x 38'	4' x 10' x 40'	g1	50 - #7 @ 0'-9½	9'-8	988		
	340'-0	4' x 10' x 38'		340'-0	4' x 9' x 38'	4' x 10' x 40'	g2	17 - #9 @ 0'-7	39'-8	2293		
31 TO 33	160'-0	4' x 8' x 34'	58 TO 61	160'-0	4' x 9' x 36'	4' x 10' x 40'	d2	74 - #9 AS SHOWN	9'-11	2495	7176	65.8
	180'-0	4' x 8' x 34'		180'-0	4' x 9' x 36'	4' x 10' x 40'	f1	40 - #5 @ 1'-0	9'-8	403		
	200'-0	4' x 8' x 36'		200'-0	4' x 9' x 36'	4' x 10' x 40'	f2	10 - #5 @ 1'-0	39'-8	414		
	220'-0	4' x 9' x 36'		220'-0	4' x 9' x 36'	4' x 10' x 40'	g1	50 - #7 @ 0'-9½	9'-8	988		
	240'-0	4' x 9' x 36'		240'-0	4' x 9' x 36'	4' x 10' x 40'	g2	17 - #9 @ 0'-7	39'-8	2293		
	260'-0	4' x 9' x 38'		260'-0	4' x 9' x 38'	4' x 10' x 40'	d2	74 - #9 AS SHOWN	9'-11	2495		
	280'-0	4' x 9' x 38'		280'-0	4' x 9' x 38'	4' x 10' x 40'	f1	40 - #5 @ 1'-0	9'-8	403		
	300'-0	4' x 9' x 38'		300'-0	4' x 9' x 38'	4' x 10' x 40'	f2	10 - #5 @ 1'-0	39'-8	414		
	320'-0	4' x 10' x 38'		320'-0	4' x 9' x 38'	4' x 10' x 40'	g1	50 - #7 @ 0'-9½	9'-8	988		
	340'-0	4' x 10' x 38'		340'-0	4' x 9' x 38'	4' x 10' x 40'	g2	17 - #9 @ 0'-7	39'-8	2293		
34 TO 36	160'-0	4' x 8' x 34'	62 TO 65	160'-0	4' x 9' x 36'	4' x 10' x 40'	d2	74 - #9 AS SHOWN	9'-11	2495	7859	72.5
	180'-0	4' x 8' x 34'		180'-0	4' x 9' x 36'	4' x 10' x 40'	f1	40 - #5 @ 1'-0	9'-8	403		
	200'-0	4' x 8' x 36'		200'-0	4' x 9' x 36'	4' x 10' x 40'	f2	10 - #5 @ 1'-0	39'-8	414		
	220'-0	4' x 9' x 36'		220'-0	4' x 9' x 36'	4' x 10' x 40'	g1	50 - #7 @ 0'-9½	9'-8	988		
	240'-0	4' x 9' x 36'		240'-0	4' x 9' x 36'	4' x 10' x 40'	g2	17 - #9 @ 0'-7	39'-8	2293		
	260'-0	4' x 9' x 38'		260'-0	4' x 9' x 38'	4' x 10' x 40'	d2	74 - #9 AS SHOWN	9'-11	2495		
	280'-0	4' x 9' x 38'		280'-0	4' x 9' x 38'	4' x 10' x 40'	f1	40 - #5 @ 1'-0	9'-8	403		
	300'-0	4' x 9' x 38'		300'-0	4' x 9' x 38'	4' x 10' x 40'	f2	10 - #5 @ 1'-0	39'-8	414		
	320'-0	4' x 10' x 38'		320'-0	4' x 9' x 38'	4' x 10' x 40'	g1	50 - #7 @ 0'-9½	9'-8	988		
	340'-0	4' x 10' x 38'		340'-0	4' x 9' x 38'	4' x 10' x 40'	g2	17 - #9 @ 0'-7	39'-8	2293		

4'-0 x 7'-0 x 32'-0

d2 LAYOUT
(SEE SECTION A-A ON SHEET RS40-156-10.)

TYPICAL SECTION

d2
NOTE: D = PIN DIAMETER.
DIMENSIONS ARE OUT TO OUT.

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 RS40-156-10.

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		STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES ROLLED STEEL BEAM BRIDGES JUNE, 2010