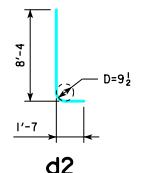
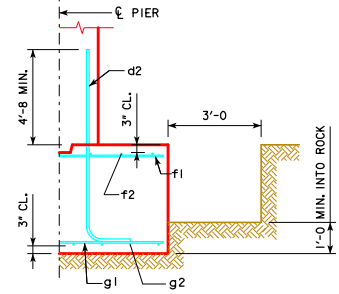
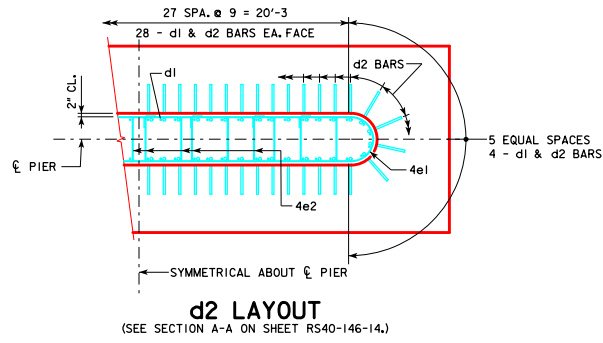


REVISED 02-2017 - CHANGED VERTICAL CLEARANCE OF REBAR #f2 TO TOP OF PIER FOOTING TO 3" WAS 2".

H IN FT.	CL - CL ABUT. BRG.	FOOTING SIZE
16 TO 18	160'-0	4' x 8' x 28'
180'-0	200'-0	4' x 9' x 28'
220'-0	240'-0	4' x 9' x 30'
260'-0	300'-0	4' x 10' x 30'
320'-0	340'-0	4' x 11' x 32'
19 TO 21	160'-0	4' x 8' x 28'
180'-0	200'-0	4' x 9' x 28'
220'-0	240'-0	4' x 9' x 30'
260'-0	280'-0	4' x 10' x 30'
300'-0	320'-0	4' x 10' x 32'
340'-0	340'-0	4' x 11' x 32'
22 TO 24	160'-0	4' x 8' x 28'
180'-0	200'-0	4' x 9' x 28'
220'-0	240'-0	4' x 9' x 30'
260'-0	280'-0	4' x 10' x 30'
300'-0	320'-0	4' x 10' x 32'
340'-0	340'-0	4' x 11' x 32'
25 TO 27	160'-0	4' x 8' x 28'
180'-0	200'-0	4' x 9' x 28'
220'-0	240'-0	4' x 9' x 30'
260'-0	280'-0	4' x 10' x 30'
300'-0	320'-0	4' x 10' x 32'
340'-0	340'-0	4' x 11' x 32'
28 TO 30	160'-0	4' x 8' x 28'
180'-0	200'-0	4' x 9' x 28'
220'-0	240'-0	4' x 9' x 30'
260'-0	280'-0	4' x 10' x 30'
300'-0	320'-0	4' x 10' x 32'
340'-0	340'-0	4' x 11' x 34'
31 TO 33	160'-0	4' x 8' x 28'
180'-0	200'-0	4' x 9' x 28'
220'-0	240'-0	4' x 9' x 30'
260'-0	280'-0	4' x 10' x 30'
300'-0	320'-0	4' x 10' x 32'
340'-0	340'-0	4' x 11' x 34'
34 TO 36	160'-0	4' x 8' x 28'
180'-0	200'-0	4' x 9' x 28'
220'-0	240'-0	4' x 9' x 30'
260'-0	280'-0	4' x 10' x 30'
300'-0	320'-0	4' x 10' x 32'
340'-0	340'-0	4' x 11' x 34'

H IN FT.	CL - CL ABUT. BRG.	FOOTING SIZE
37 TO 40	160'-0	4' x 9' x 28'
180'-0	200'-0	4' x 9' x 30'
220'-0	240'-0	4' x 10' x 30'
260'-0	280'-0	4' x 10' x 32'
300'-0	320'-0	4' x 11' x 32'
340'-0	340'-0	4' x 11' x 34'

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
	BAR NO.	SIZE & SPACING	LENGTH	WEIGHT (LB.)		
4' x 8' x 28'	d2	64 - #9 AS SHOWN	9'-11"	2158	3267	33.2
	f1	28 - #5 @ 1'-0"	7'-8"	224		
	f2	8 - #5 @ 1'-0"	27'-8"	231		
	g1	28 - #6 @ 1'-0"	7'-8"	322		
	g2	8 - #6 @ 1'-0"	27'-8"	332		
	d2	64 - #9 AS SHOWN	9'-11"	2158		
4' x 9' x 28'	d2	64 - #9 AS SHOWN	9'-11"	2158	3462	37.3
	f1	28 - #5 @ 1'-0"	8'-8"	253		
	f2	9 - #5 @ 1'-0"	27'-8"	260		
	g1	32 - #6 @ 0'-10 1/2"	8'-8"	417		
	g2	9 - #6 @ 1'-0"	27'-8"	374		
	d2	64 - #9 AS SHOWN	9'-11"	2158		
4' x 9' x 30'	d2	64 - #9 AS SHOWN	9'-11"	2158	3843	40.0
	f1	30 - #5 @ 1'-0"	8'-8"	271		
	f2	9 - #5 @ 1'-0"	29'-8"	278		
	g1	36 - #6 @ 0'-10"	8'-8"	469		
	g2	11 - #7 @ 0'-10"	29'-8"	667		
	d2	64 - #9 AS SHOWN	9'-11"	2158		
4' x 10' x 30'	d2	64 - #9 AS SHOWN	9'-11"	2158	4208	44.4
	f1	30 - #5 @ 1'-0"	9'-8"	302		
	f2	10 - #5 @ 1'-0"	29'-8"	309		
	g1	36 - #7 @ 0'-10"	9'-8"	711		
	g2	12 - #7 @ 0'-10"	29'-8"	728		
	d2	64 - #9 AS SHOWN	9'-11"	2158		
4' x 10' x 32'	d2	64 - #9 AS SHOWN	9'-11"	2158	4850	47.4
	f1	32 - #5 @ 1'-0"	9'-8"	323		
	f2	10 - #5 @ 1'-0"	31'-8"	330		
	g1	39 - #7 @ 0'-9 1/2"	9'-8"	771		
	g2	15 - #8 @ 0'-8"	31'-8"	1268		
	d2	64 - #9 AS SHOWN	9'-11"	2158		
4' x 11' x 32'	d2	64 - #9 AS SHOWN	9'-11"	2158	5312	52.1
	f1	32 - #5 @ 1'-0"	10'-8"	356		
	f2	11 - #5 @ 1'-0"	31'-8"	363		
	g1	38 - #8 @ 0'-10"	10'-8"	1082		
	g2	16 - #8 @ 0'-8"	31'-8"	1353		
	d2	64 - #9 AS SHOWN	9'-11"	2158		
4' x 11' x 34'	d2	64 - #9 AS SHOWN	9'-11"	2158	6146	55.4
	f1	34 - #5 @ 1'-0"	10'-8"	378		
	f2	11 - #5 @ 1'-0"	33'-8"	386		
	g1	42 - #8 @ 0'-9 1/2"	10'-8"	1196		
	g2	14 - #10 @ 0'-9 1/2"	33'-8"	2028		
	d2	64 - #9 AS SHOWN	9'-11"	2158		



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

NOTE: THE REINFORCING STEEL QUANTITY IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.
NOTE: THE CONCRETE QUANTITY IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.

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 RS40-146-14.
THESE SPREAD FOOTINGS SHALL EXTEND AT LEAST 12 INCHES INTO SUITABLE FOUNDATION ROCK AND THE LAST 12 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 10 KIPS PER SQUARE FOOT).

02-2017 LATEST REVISION DATE <i>Norman E. McQuinn</i> APPROVED BY BRIDGE ENGINEER	
	STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES ROLLED STEEL BEAM BRIDGES OCTOBER, 2014
	TEE PIER - SPREAD FOOTINGS 30° SKEW - SHEET 1

RS40-154-14