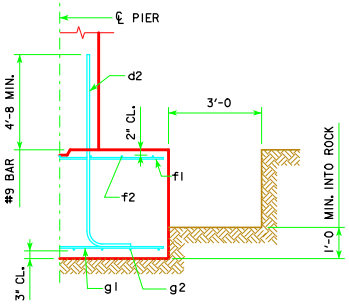
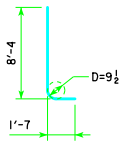
H IN FT.	℄ - ℄ ABUT. BRG.	FOOTING SIZE
25 TO 27	138′-10	4′ x 8′ x 25′
	151′-4	
	163′-10	4′ x 8′ x 27′
	176′-4	
	188′-10	4′ x 9′ x 27′
	201′-4	
	213′-10	4′ x 9′ x 29′
	226′-4	
	243′-0	
28 TO 30	138′-10	4′ x 8′ x 27′
	151′-4	
	163′-10	4′ x 9′ x 27′
	176′-4	
	188′-10	4′ x 9′ x 29′
	201′-4	
	213′-10	4′ x 10′ x 29′
	226′-4	
	243′-0	
31 TO 33	138′-10	4′ x 8′ x 27′
	151′-4	
	163′-10	4′ x 9′ x 27′
	176′-4	
	188′-10	4′ x 9′ x 29′
	201′-4	
	213′-10	4′ x 10′ x 29′
	226′-4	
	243′-0	
34 TO 36	138′-10	4′ x 8′ x 27′
	151′-4	
	163′-10	4′ x 9′ x 27′
	176′-4	
	188′-10	4′ x 9′ x 29′
	201′-4	
	213′-10	4′ x 10′ x 29′
	226′-4	
	243′-0	
37 TO 40	138′-10	4′ x 9′ x 27′
	151′-4	
	163′-10	
	176′-4	
	188′-10	4′ x 9′ x 29′
	201′-4	
	213′-10	4′ x 10′ x 29′
	226′-4	
	243′-0	



TYPICAL SECTION

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

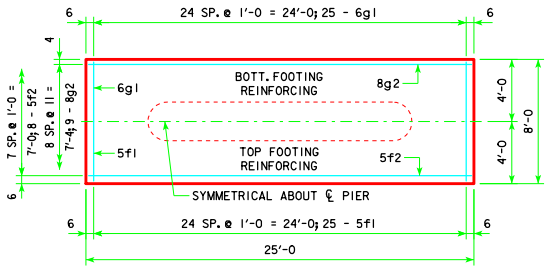
NOTE: THE CONCRETE QUANTITY IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.



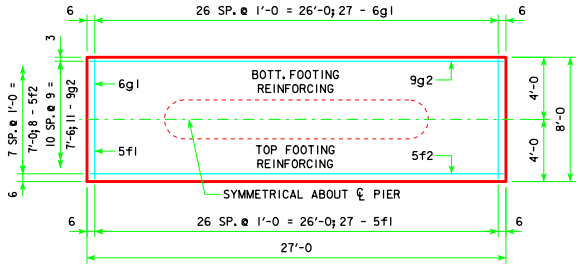
d2

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

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)					STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)	TOTAL WEIGHT (LB.)	
4′ x 8′ x 25′	d2	44 - #9 AS SHOWN	9′-11	1484	2771	29.6
	f1	25 - #5 @ 1′-0	7′-8	200		
	f2	8 - #5 @ 1′-0	24′-8	206		
	g1	25 - #6 @ 1′-0	7′-8	288		
	g2	9 - #8 @ 0′-11	24′-8	593		
4′ x 8′ x 27′	d2	44 - #9 AS SHOWN	9′-11	1484	3231	32.0
	f1	27 - #5 @ 1′-0	7′-8	216		
	f2	8 - #5 @ 1′-0	26′-8	223		
	g1	27 - #6 @ 1′-0	7′-8	311		
	g2	11 - #9 @ 0′-9	26′-8	997		
4′ x 9′ x 27′	d2	44 - #9 AS SHOWN	9′-11	1484	3603	36.0
	f1	27 - #5 @ 1′-0	8′-8	244		
	f2	9 - #5 @ 1′-0	26′-8	250		
	g1	27 - #7 @ 1′-0	8′-8	478		
	g2	10 - #10 @ 0′-11	26′-8	1147		
4′ x 9′ x 29′	d2	44 - #9 AS SHOWN	9′-11	1484	4133	38.7
	f1	29 - #5 @ 1′-0	8′-8	262		
	f2	9 - #5 @ 1′-0	28′-8	269		
	g1	29 - #7 @ 1′-0	8′-8	514		
	g2	13 - #10 @ 0′-8½	28′-8	1604		
4′ x 10′ x 29′	d2	44 - #9 AS SHOWN	9′-11	1484	4331	43.0
	f1	29 - #5 @ 1′-0	9′-8	292		
	f2	10 - #5 @ 1′-0	28′-8	299		
	g1	33 - #7 @ 0′-10½	9′-8	652		
	g2	13 - #10 @ 0′-9½	28′-8	1604		



4′-0 x 8′-0 x 25′-0

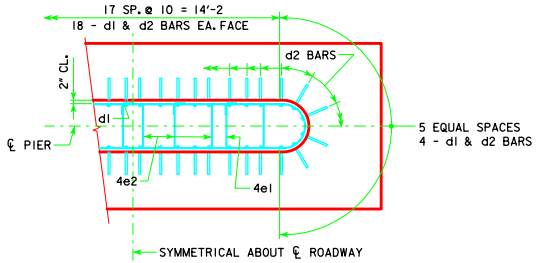


4′-0 x 8′-0 x 27′-0

FOOTING NOTES:

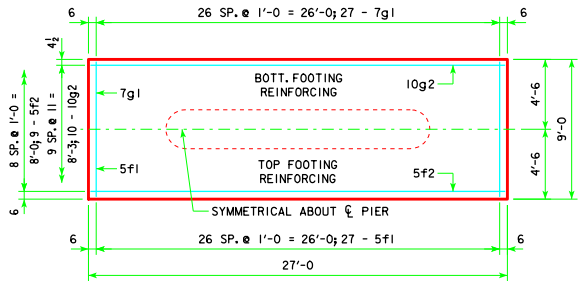
THESE SPREAD FOOTINGS ARE DESIGNED AND DETAILED TO BE USED WITH THE CAP AND COLUMN DETAILS OF THE TEE PIERS AS SHOWN ON SHEET H40-57-14.

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 SERVICE LOAD BEARING VALUE OF AT LEAST 10 KIPS PER SQUARE FOOT).

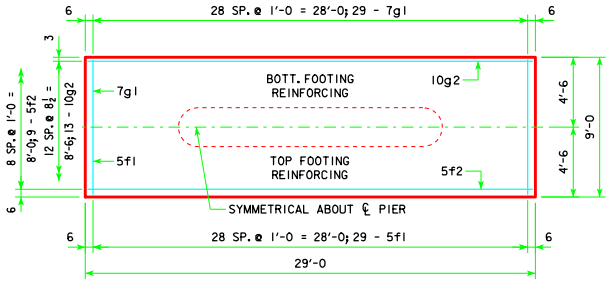


d2 BAR LAYOUT

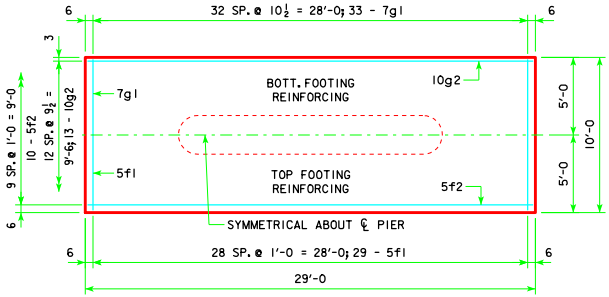
(SEE SECTION A-A ON SHEET H40-57-14.)



4′-0 x 9′-0 x 27′-0



4′-0 x 9′-0 x 29′-0



4′-0 x 10′-0 x 29′-0

LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

IOWADOT Highway Division

STANDARD DESIGN - 40′ ROADWAY, THREE SPAN BRIDGE

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

SEPTEMBER, 2014

TEE PIER - SPREAD FOOTINGS

0° SKEW - H=25′ TO 40′

H40-64-14