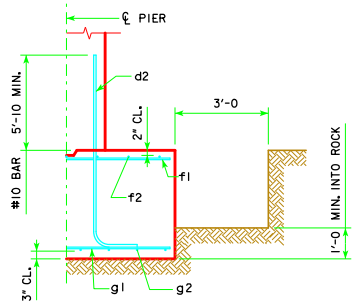
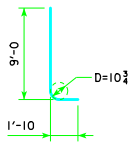


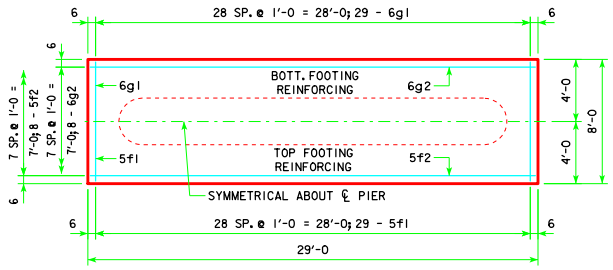
TYPICAL SECTION

H IN FT.	℄ - ℄ ABUT. BRG.	FOOTING SIZE
16 TO 18	138'-10	3'-6 x 8' x 29'
	151'-4	
	163'-10	
	176'-4	
	188'-10	3'-6 x 8' x 31'
	201'-4	3'-6 x 9' x 31'
	213'-10	
	226'-4	
	243'-0	3'-6 x 9' x 33'
19 TO 21	138'-10	3'-6 x 8' x 29'
	151'-4	
	163'-10	3'-6 x 8' x 31'
	176'-4	
	188'-10	
	201'-4	3'-6 x 9' x 31'
	213'-10	
	226'-4	3'-6 x 9' x 33'
	243'-0	
22 TO 24	138'-10	3'-6 x 8' x 29'
	151'-4	
	163'-10	3'-6 x 8' x 31'
	176'-4	
	188'-10	3'-6 x 9' x 31'
	201'-4	
	213'-10	
	226'-4	3'-6 x 9' x 33'
	243'-0	

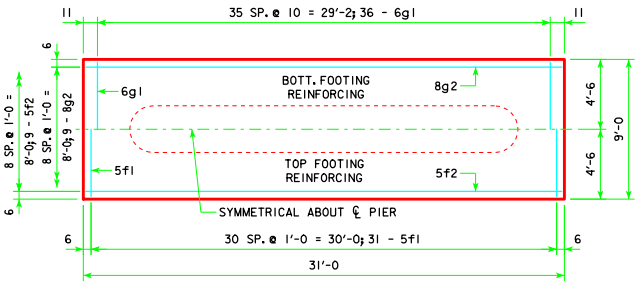


d2

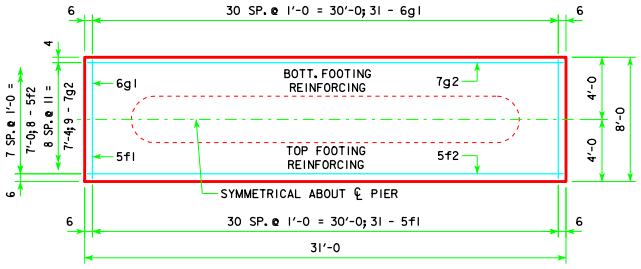
NOTE: D = PIN DIAMETER.
DIMENSIONS ARE OUT TO OUT.



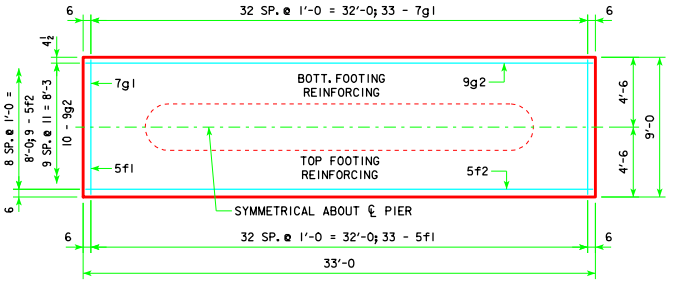
3'-6 x 8'-0 x 29'-0



3'-6 x 9'-0 x 31'-0



3'-6 x 8'-0 x 31'-0

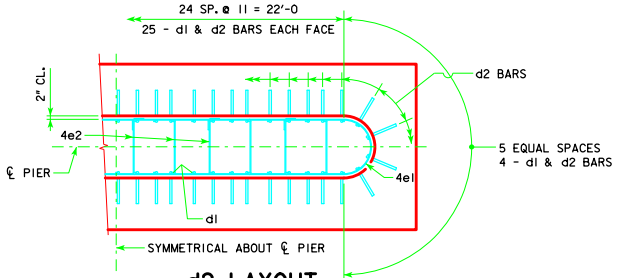


3'-6 x 9'-0 x 33'-0

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 SIZE	REINFORCING STEEL (ONE FOOTING) BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)	TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
3'-6 x 8' x 29'	d2	58 - #10 AS SHOWN	10'-10	2704	3853	30.1
	f1	29 - #5 @ 1'-0	7'-8	232		
	f2	8 - #5 @ 1'-0	28'-8	239		
	g1	29 - #6 @ 1'-0	7'-8	334		
	g2	8 - #6 @ 1'-0	28'-8	344		
3'-6 x 8' x 31'	d2	58 - #10 AS SHOWN	10'-10	2704	4129	32.1
	f1	31 - #5 @ 1'-0	7'-8	248		
	f2	8 - #5 @ 1'-0	30'-8	256		
	g1	31 - #6 @ 1'-0	7'-8	357		
	g2	9 - #7 @ 0'-11	30'-8	564		
3'-6 x 9' x 31'	d2	58 - #10 AS SHOWN	10'-10	2704	4478	36.2
	f1	31 - #5 @ 1'-0	8'-8	280		
	f2	9 - #5 @ 1'-0	30'-8	288		
	g1	36 - #6 @ 0'-10	8'-8	469		
	g2	9 - #8 @ 1'-0	30'-8	737		
3'-6 x 9' x 33'	d2	58 - #10 AS SHOWN	10'-10	2704	5005	38.5
	f1	33 - #5 @ 1'-0	8'-8	298		
	f2	9 - #5 @ 1'-0	32'-8	307		
	g1	33 - #7 @ 1'-0	8'-8	585		
	g2	10 - #9 @ 0'-11	32'-8	1111		



d2 LAYOUT
(SEE SECTION A-A ON SHEET H40-81-14.)

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 H40-81-14.

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).

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

45° SKEW - H=16' TO 24'

H40-87-14