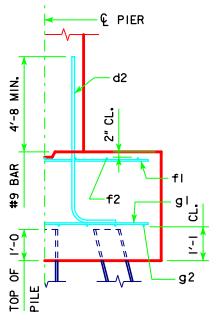
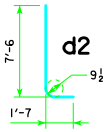


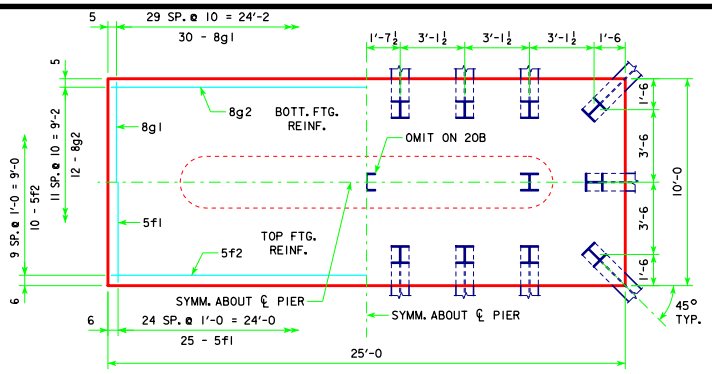
TYPICAL SECTION



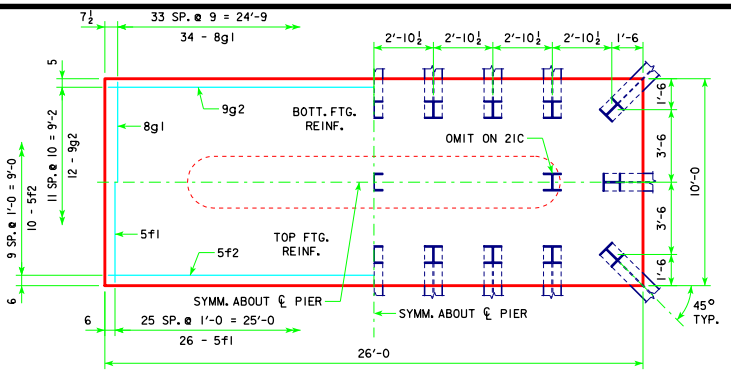
NOTE: D = PIN DIAMETER.
DIMENSIONS ARE OUT TO OUT.

H IN FT.	℄ - ℄ ABUT. BRG.	PILING (HP10x57) NO. & LAYOUT	① LRFD PU, STRENGTH I DES. LOAD (KIPS)	FOOTING SIZE
25 TO 27	201'-4	20B	145	4' x 10' x 25'
	213'-10	21B	146	
	226'-4	22B	147	
	243'-0	24A	144	
28 TO 30	201'-4	21C	142	4' x 10' x 26'
	213'-10	21C	147	
	226'-4	22C	144	
	243'-0	24B	140	
31 TO 33	201'-4	21C	144	4' x 10' x 26'
	213'-10	22C	140	
	226'-4	22C	146	
	243'-0	24B	142	
34 TO 36	201'-4	21C	146	4' x 10' x 26'
	213'-10	22C	142	
	226'-4	23B	144	
	243'-0	24B	144	
37 TO 40	201'-4	22C	140	4' x 10' x 26'
	213'-10	22C	145	
	226'-4	23B	147	
	243'-0	24B	146	

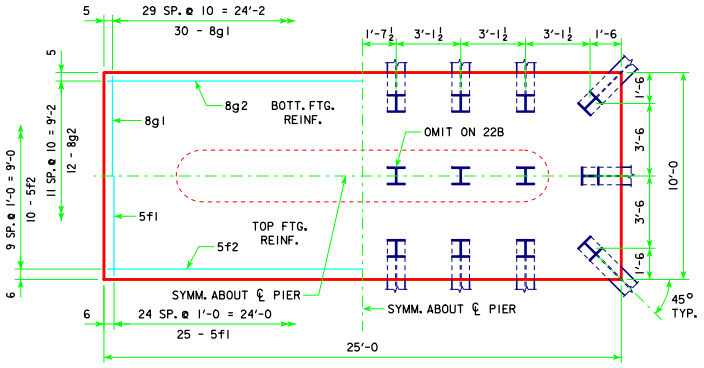
FOOTING SIZE	REINFORCING STEEL (ONE FOOTING) BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)	TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
4' x 10' x 25'	d2	46 - #9 AS SHOWN	9'-1	1421	3494	37.0
	f1	25 - #5 @ 1'-0	9'-8	252		
	f2	10 - #5 @ 1'-0	24'-8	257		
	g1	30 - #8 @ 0'-10	9'-8	774		
	g2	12 - #8 @ 0'-10	24'-8	790		
4' x 10' x 26'	d2	46 - #9 AS SHOWN	9'-1	1421	3876	38.5
	f1	26 - #5 @ 1'-0	9'-8	262		
	f2	10 - #5 @ 1'-0	25'-8	268		
	g1	34 - #8 @ 0'-9	9'-8	878		
	g2	12 - #9 @ 0'-10	25'-8	1047		



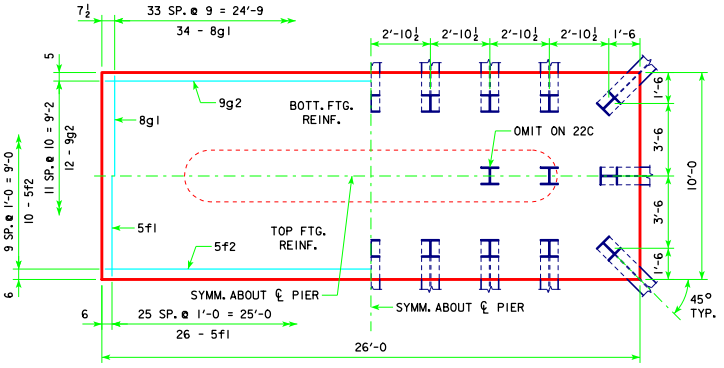
4'-0 x 10'-0 x 25'-0 FOR 20B & 21B



4'-0 x 10'-0 x 26'-0 FOR 21C & 23B



4'-0 x 10'-0 x 25'-0 FOR 22B & 24A

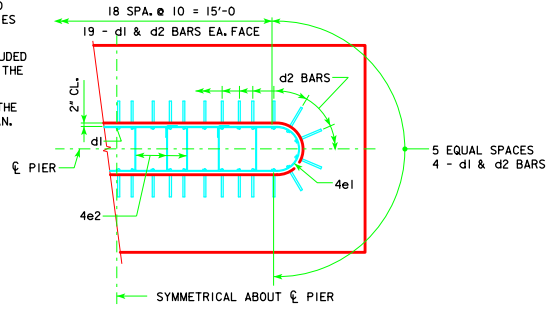


4'-0 x 10'-0 x 26'-0 FOR 22C & 24B

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.

NOTE: THE PILE TYPE IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.



d2 BAR LAYOUT
(SEE SECTION A-A ON SHEET H40-65-14.)

① NOTE: PU, STRENGTH I DESIGN LOAD (KIPS) IS NOT THE VALUE USED IN THE FIELD FOR DRIVING PILES.

FOOTING NOTES:

THESE FOOTINGS ARE DESIGNED AND DETAILED TO BE USED WITH THE CAP AND COLUMN DETAILS OF THE TEE PIERS AS SHOWN ON SHEET H40-65-14.

BATTER PILES IN EXTERIOR ROWS 1:4 IN THE DIRECTION SHOWN.

STEEL PILING USED AS POINT BEARING SHALL HAVE A MINIMUM DISTANCE OF APPROXIMATELY 10 FEET FROM BOTTOM OF FOOTING TO TOP OF BEARING ROCK. THE PILE LAYOUTS ARE SUCH THAT THE DISTANCE CENTER TO CENTER OF ADJACENT PILING SHALL NOT EXCEED 8'-0.

PIER PILES SHALL BE DRIVEN TO VALUES SHOWN IN DESIGN PLANS.

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-HP10x57 SRL-I STEEL PILE FOOTINGS

15° SKEW - H=25' TO 40'

H40-68-14