PILE BENT NOTES:

THESE PIER BENTS ARE DESIGNED FOR USE IN LOCATIONS WHERE ICE AND DRIFT CONDITIONS ARE NOT SEVERE.

FOR DETAILS OF TRESTLE PILES, SEE STANDARD PIOL.

MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR SHALL BE 2 INCHES UNLESS OTHERWISE NOTED OR SHOWN.

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

REINFORCING BAR LIST AND ESTIMATED QUANTITIES PER PILE BENT

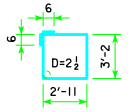
BAR	LENGTH	SHAPE	8 PILE BENT NO.	8 PILE BENT SIZE	8 PILE BENT WEIGHT	9 PILE BENT NO.	9 PILE BENT SIZE	9 PILE BENT WEIGHT	10 PILE BENT NO.	10 PILE BENT SIZE	10 PILE BENT WEIGHT	11 PILE BENT NO.	11 PILE BENT SIZE	11 PILE BENT WEIGHT	12 PILE BENT NO.	12 PILE BENT SIZE	12 PILE BENT WEIGHT
a1	51'-8		8	9	1405	8	9	1405	8	9	1405	8	9	1405	6	9	1054
a2	51'-8		4	8	552	4	8	552	4	8	552	4	8	552	4	8	552
b1	51'-8		4	9	703	4	10	889	4	9	703	4	9	703	4	9	703
5c1	13'-2		47	5	645	48	5	659	47	5	645	42	5	577	46	5	632
8e1	8'-4		4	8	89	4	8	89	4	8	89	4	8	89	4	8	89
(1) REINFORCING STEEL (LB.)				3394			3594			3394			3326			3030	
STRUCTURAL CONCRETE (CY)	PILE TYPE 3			23.5			23.5			23.5			23.5			23.5	

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

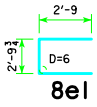
NOTE: THE CONCRETE QUANTITY IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.

NOTE: THE NUMBER OF PILES AND THE PILE TYPE ARE TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.

BENT BAR DETAILS



5c1



8e1

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

FRICTION OR POINT BEARING PILING

PIOL TYPE 3

℄-℄ ABUTMENT BEARING	NUMBER OF TRESTLE PILES	PILE SIZE	(3) LRFD PU, STRENGTH I DES. BRG. (KIPS)
138'-10	8	HP14x73	163
	8	HP14x89	163
151'-4	8	HP14x73	171
	8	HP14x89	171
163'-10	8	HP14x73	185
	8	HP14x89	185
176'-4	9	HP14x73	172
	8	HP14x89	194
188'-10	9	HP14x73	180
	8	HP14x89	202
201'-4	10	HP14x73	181
	8	HP14x89	226
213'-10	11	HP14x73	173
	9	HP14x89	211
226'-4	11	HP14x73	181
	9	HP14x89	222
243'-0	12	HP14x73	175
	10	HP14x89	210

(1) SEE SHEET H44-24-14 FOR STEP REINFORCING STEEL QUANTITIES AND DETAILS.

(2) FOR DETERMINING ACTUAL PILE LENGTHS IN FIELD.

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

NOTE: FRICTION BEARING INCLUDES SIDE FRICTION AND END BEARING IN SOIL. POINT BEARING INCLUDES SIDE FRICTION AND POINT BEARING IN ROCK.

LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

IOWADOT Highway Division

STANDARD DESIGN - 44' ROADWAY, THREE SPAN BRIDGE

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

SEPTEMBER, 2014

PILE BENT PIERS HP14 PILES

30° SKEW

H44-49-14