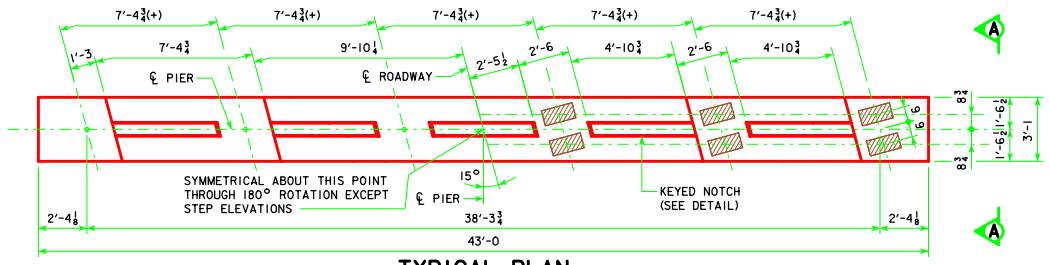
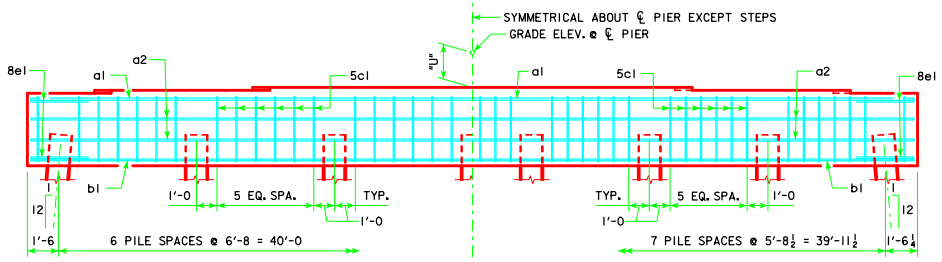
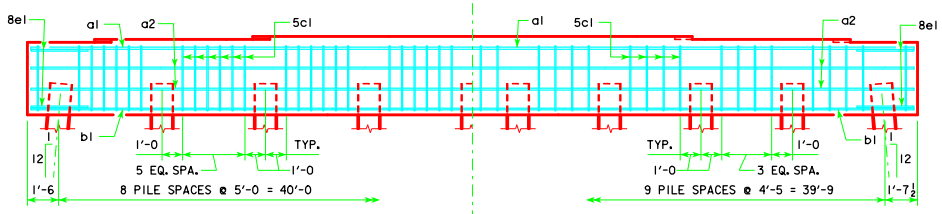


TYPICAL PLAN



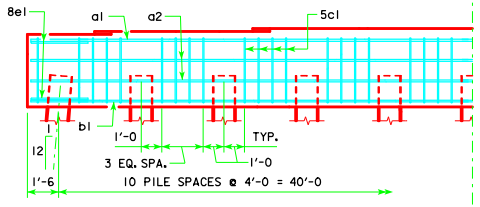
7 PILE BENT

8 PILE BENT

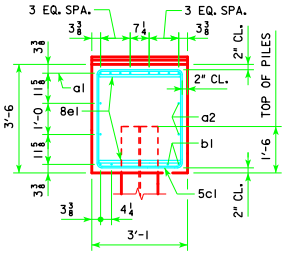


9 PILE BENT

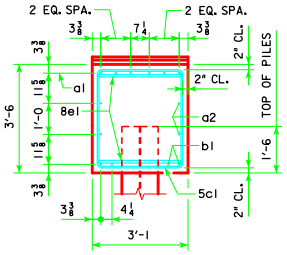
10 PILE BENT



11 PILE BENT



VIEW A-A
FOR 7, 8 & 9 PILE BENTS



VIEW A-A
FOR 10 & 11 PILE BENTS

NOTE:
THE HEIGHT OF THE STEPS ON THE BRIDGE SEAT IS EQUAL TO THE DIFFERENCE IN ELEVATIONS OF THE TOP OF SLAB AT ADJACENT BEAMS ALONG ℄ PIER.
SEE SHEET H40-15-14 FOR "U" DIMENSION.

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.

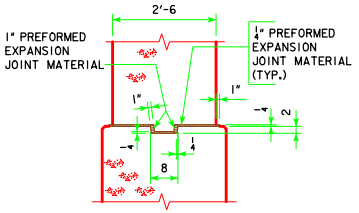
MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR SHALL BE 2 INCHES UNLESS OTHERWISE NOTED OR SHOWN.

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

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.

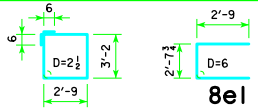


KEYED NOTCH DETAIL

REINFORCING BAR LIST AND ESTIMATED QUANTITIES - PER PILE BENT

				7 PILE BENT			8 PILE BENT			9 PILE BENT			10 PILE BENT			11 PILE BENT		
BAR	LENGTH	SHAPE		NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT
a1	42'-8			8	9	1161	8	9	1161	8	9	1161	6	9	870	6	9	870
a2	42'-8			4	8	456	4	8	456	4	8	456	4	8	456	4	8	456
b1	42'-8			4	9	580	4	9	580	4	9	580	4	9	580	4	9	580
5c1	12'-10			38	5	509	44	5	589	50	5	669	38	5	509	42	5	562
8el	8'-2			4	8	87	4	8	87	4	8	87	4	8	87	4	8	87
① REINFORCING STEEL (LB.)				2793			2873			2953			2502			2555		
STRUCTURAL CONCRETE (CY)		PILE TYPE	3	18.2			18.2			18.2			18.2			18.2		

BENT BAR DETAILS



5c1 8el

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

FRICTION OR POINT BEARING PILING

℄-℄ ABUTMENT BEARING	PIOL TYPE 3		
	NUMBER OF TRESTLE PILES	PILE	② LRFD PU, STRENGTH I DES. LOAD (KIPS)
138'-10	7	HP14x73	173
	7	HP14x89	173
151'-4	7	HP14x73	182
	7	HP14x89	182
163'-10	8	HP14x73	172
	7	HP14x89	196
176'-4	8	HP14x73	180
	7	HP14x89	205
188'-10	9	HP14x73	167
	7	HP14x89	214
201'-4	9	HP14x73	185
	8	HP14x89	208
213'-10	10	HP14x73	175
	8	HP14x89	219
226'-4	10	HP14x73	184
	9	HP14x89	205
243'-0	11	HP14x73	176
	9	HP14x89	215

① SEE SHEET H40-17-14 FOR STEP REINFORCING STEEL QUANTITIES AND DETAILS.

② FOR DETERMINING ACTUAL PILE LENGTHS IN FIELD.

③ FOR ESTIMATING PILE LENGTHS USING AASHTO LRFD SPECIFICATIONS.

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 - 40' ROADWAY, THREE SPAN BRIDGE

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

SEPTEMBER, 2014

PILE BENT PIERS HP14 PILES

15° SKEW

H40-50-14