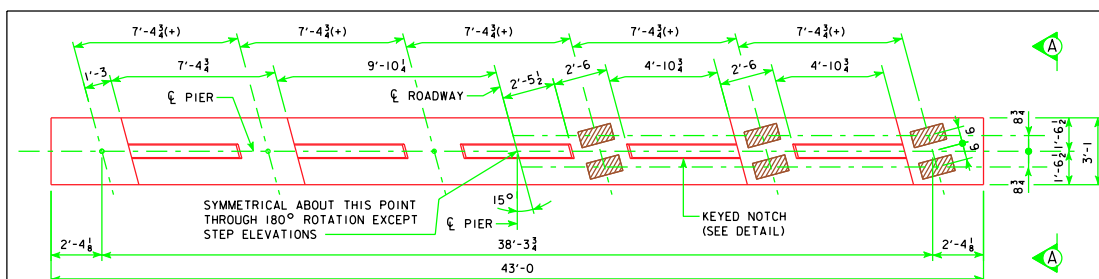
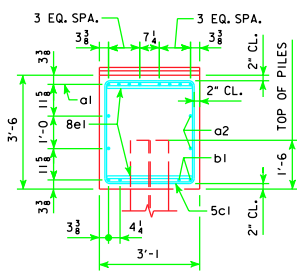
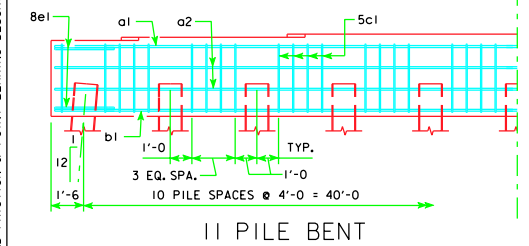
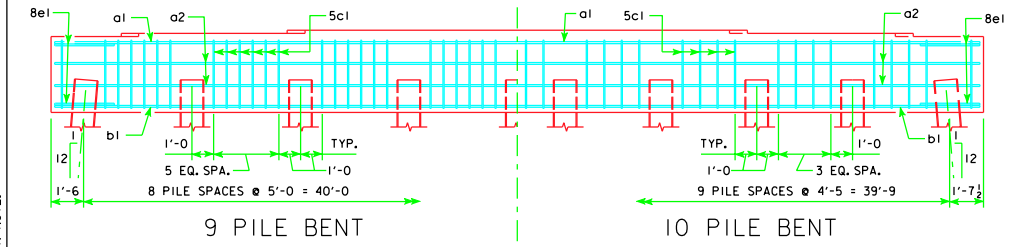
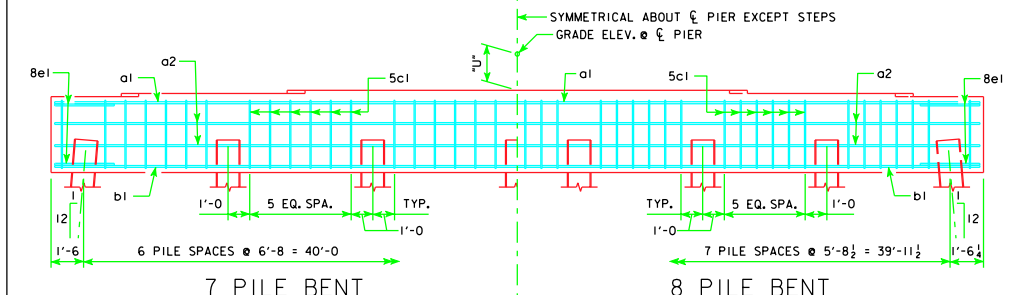


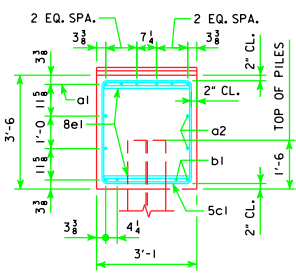
REVISED 01-10 - ADDED FRICTION & POINT BEARING DESCRIPTION NOTE.



TYPICAL PLAN



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

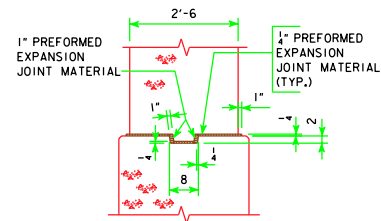


VIEW A-A
FOR 10 & 11 PILE BENTS

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 CL PIER.
SEE SHEET H40-15-06 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.

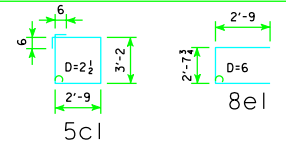


KEYED NOTCH DETAIL

REINFORCING BAR LIST AND ESTIMATED QUANTITIES - PER PILE BENT

BAR	LENGTH	SHAPE	7 PILE BENT			8 PILE BENT			9 PILE BENT			10 PILE BENT			11 PILE BENT		
			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	8	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
8e1	8'-2"		4	8	87	4	8	87	4	8	87	4	8	87	4	8	87
REINFORCING STEEL (L.B.)			2793			2873			2953			2502			2555		
STRUCTURAL PILE TYPE			3														
CONCRETE (CY)			18.2			18.2			18.2			18.2			18.2		

BENT BAR DETAILS



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

FRICTION OR POINT BEARING PILING

CL-CL ABUTMENT BEARING	PIOL TYPE 3			
	NUMBER OF TRESTLE PILES	PILE	DES. PILE BRG. (TONS)	LRFD DES. BRG. (KIPS)
138'-10"	7	HP14x73	60	173
	7	HP14x89	60	173
151'-4"	7	HP14x73	63	182
	7	HP14x89	63	182
163'-10"	8	HP14x73	59	172
	7	HP14x89	68	196
176'-4"	8	HP14x73	62	180
	7	HP14x89	71	205
188'-10"	9	HP14x73	57	167
	7	HP14x89	74	214
201'-4"	9	HP14x73	64	185
	8	HP14x89	72	208
213'-10"	10	HP14x73	60	175
	8	HP14x89	75	219
226'-4"	10	HP14x73	64	184
	9	HP14x89	71	205
243'-0"	11	HP14x73	61	176
	9	HP14x89	74	215

- ① SEE SHEET H40-17-06 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
01-10

APPROVED BY BRIDGE ENGINEER
Norman L. McDaniel

STANDARD DESIGN - 40' ROADWAY, THREE SPAN BRIDGE
PRETENSIONED PRESTRESSED
CONCRETE BEAM BRIDGES
AUGUST, 2009

PILE BENT PIERS
HP14 PILES
15° SKEW

H40-50-06