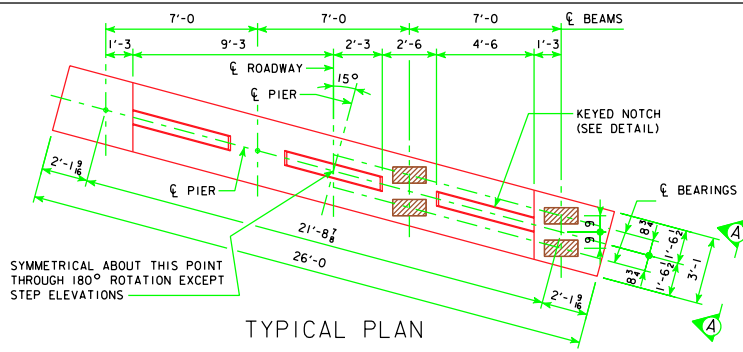


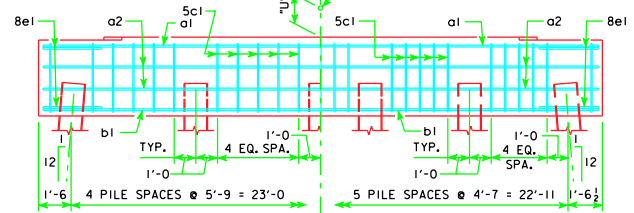
REVISED 01-10 - SHEET WAS REVISED TO MEET LRFD SPECIFICATIONS.



TYPICAL PLAN

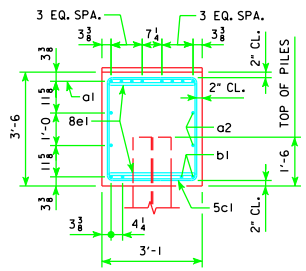
NOTE:
THE HEIGHT OF THE STEPS ON THE
BRIDGE SEAT IS EQUAL TO THE DIFFERENCE
IN ELEVATIONS OF THE TOP OF SLAB AT
ADJACENT BEAMS ALONG ℓ PIER.
SEE SHEET H24-15-06 FOR "U" DIMENSION.

SYMMETRICAL ABOUT ℓ PIER
EXCEPT STEPS
GRADE ELEV. $\bullet$ ℓ PIER

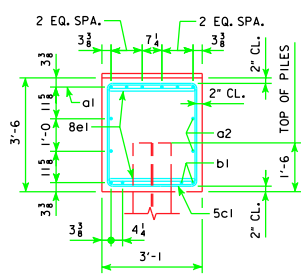


5 PILE BENT

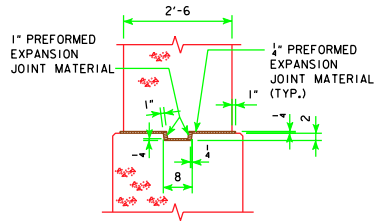
6 PILE BENT



VIEW A-A
FOR 5 & 6 PILE BENTS



VIEW A-A
FOR 7 & 8 PILE BENTS



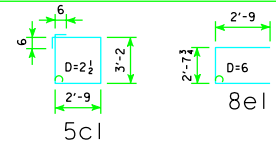
KEYED NOTCH DETAIL

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.

REINFORCING BAR LIST AND ESTIMATED QUANTITIES - PER PILE BENT

BAR	LENGTH	SHAPE	5 PILE BENT			6 PILE BENT			7 PILE BENT			8 PILE BENT		
			NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT
a1	25'-8		8	9	698	8	9	698	8	9	698	8	9	698
a2	25'-8		4	8	274	4	8	274	4	8	274	4	8	274
b1	25'-8		4	8	274	4	8	274	4	8	274	4	8	274
5c1	12'-10		22	5	294	27	5	361	26	5	348	23	5	308
8e1	8'-2		4	8	87	4	8	87	4	8	87	4	8	87
REINFORCING STEEL (LB.)			1627			1694			1507			1467		
STRUCTURAL CONCRETE (CY)			3			3			3			3		

BENT BAR DETAILS



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

FRICTION OR POINT BEARING PILING

ℓ - ℓ ABUTMENT BEARING	PIOL TYPE 3			
	NUMBER OF TRESTLE PILES	PILE SIZE	DES. PILE BRG. (TONS)	LRFD DES. BRG. (KIPS)
138'-10	5	HP14x73	59	172
	5	HP14x89	59	172
151'-4	5	HP14x73	62	181
	5	HP14x89	62	181
163'-10	6	HP14x73	56	162
	5	HP14x89	67	195
176'-4	6	HP14x73	59	170
	5	HP14x89	70	204
188'-10	6	HP14x73	61	177
	5	HP14x89	73	212
201'-4	7	HP14x73	58	168
	6	HP14x89	67	196
213'-10	7	HP14x73	61	176
	6	HP14x89	71	206
226'-4	8	HP14x73	56	162
	6	HP14x89	75	217
243'-0	8	HP14x73	59	171
	7	HP14x89	67	195

- ① SEE SHEET H24-17-06 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.

01-10
LATEST REVISION DATE

Norman E. McQuinn
APPROVED BY BRIDGE ENGINEER

STANDARD DESIGN - 24' ROADWAY, THREE SPAN BRIDGE
PRETENSIONED PRESTRESSED
CONCRETE BEAM BRIDGES
DECEMBER, 2006

PILE BENT PIERS
HP14 PILES
15° SKEW

H24-45-06