

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, TYPES 1, 2 AND 3, SEE STANDARD PIOL.

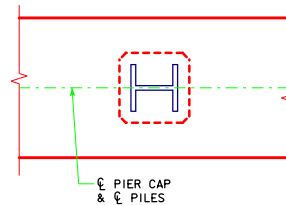
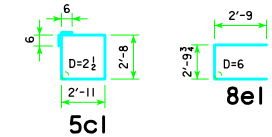
MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR SHALL BE 2 INCHES UNLESS OTHERWISE NOTED OR SHOWN.

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

REINFORCING BAR LIST AND ESTIMATED QUANTITIES - PER PILE BENT

BAR	LENGTH	SHAPE	9 PILE BENT			11 PILE BENT			13 PILE BENT			15 PILE BENT			17 PILE BENT			19 PILE BENT			21 PILE BENT		
			NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT
a1	57'-8		8	9	1569	8	9	1569	8	9	1569	6	9	1176	6	9	1176	6	9	1176	6	9	1176
a2	57'-8		4	8	616	4	8	616	4	8	616	4	8	616	4	8	616	4	8	616	4	8	616
b1	57'-8		4	10	993	4	10	993	4	10	993	4	10	993	4	9	784	4	9	784	4	9	784
5c1	12'-2		50	5	634	62	5	787	74	5	939	86	5	1091	66	5	838	74	5	939	62	5	787
8e1	8'-4		4	8	89	4	8	89	4	8	89	4	8	89	4	8	89	4	8	89	4	8	89
① REINFORCING STEEL (LB.)			3901			4054			4206			3965			3503			3604			3452		
② PILE TYPE			1, 2			-----			22.1			22.0			21.9			21.8			21.8		
STRUCTURAL CONCRETE (CY)			3			22.7			22.7			22.7			22.7			22.7			22.7		

BENT BAR DETAILS



PILE ORIENTATION DETAIL FOR TYPE 3 TRESTLE BENT PILES

E-E ABUTMENT BEARING	FRICTION BEARING PILING			FRICTION OR POINT BEARING PILING		
	PIOL TYPE 1 OR 2			PIOL TYPE 3		
	NUMBER OF TRESTLE PILES	③ "K" (INCHES)	④ LRFD PU, STRENGTH I DES. LOAD (KIPS)	NUMBER OF TRESTLE PILES	PILE SIZE	④ LRFD PU, STRENGTH I DES. LOAD (KIPS)
138'-10	15	14	84	9	HPI0x57	140
	13	16	97	11	HP12x53	114
	15	14	88	11	HPI0x57	120
151'-4	13	16	101	11	HP12x53	120
	15	14	95	11	HPI0x57	130
	15	16	95	11	HP12x53	130
163'-10	17	14	88	11	HPI0x57	135
	15	16	99	13	HP12x53	114
	17	14	91	11	HPI0x57	141
188'-10	15	16	103	13	HP12x53	119
	19	14	91	13	HPI0x57	132
	17	16	101	13	HP12x53	132
201'-4	19	14	95	13	HPI0x57	139
	17	16	106	15	HP12x53	120
	15	14	88	15	HPI0x57	126
213'-10	15	16	95	15	HP12x53	126
	15	14	88	15	HPI0x57	133
	15	16	95	15	HP12x53	133
226'-4	15	14	88	15	HPI0x57	126
	15	16	95	15	HP12x53	126
	15	14	88	15	HPI0x57	133
243'-0	15	16	95	15	HP12x53	133
	15	14	88	15	HPI0x57	126
	15	16	95	15	HP12x53	133

- ① SEE SHEET H40-31-06 FOR STEP REINFORCING STEEL QUANTITIES AND DETAILS.
- ② CONCRETE QUANTITIES SHOWN HAVE HAD THE VOLUME OF EMBEDDED PILES DEDUCTED FOR TYPES 1 AND 2 BASED ON 0.8 FT³ PER FOOT OF EMBEDMENT. THE CONCRETE QUANTITIES FOR TYPE 3 PILES DO NOT REQUIRE REDUCTION FOR PILE EMBEDMENT.
- ③ SEE STANDARD PIOL FOR "K" DIMENSION.
- ④ 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.

REVISED 05-13 - REVISION FOR LRFD PILE DESIGN.

LATEST REVISION DATE 05-13 APPROVED BY BRIDGE ENGINEER 	 STANDARD DESIGN - 40' ROADWAY, THREE SPAN BRIDGE PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES AUGUST, 2009
	PILE BENT PIERS
	H40-55-06 45° SKEW