

TABLE OF ESTIMATED QUANTITIES 3

3 COLUMN BENT No. Size Length Weight #11 32'-1" 1,364 2'-6" #4 14 #4 6'-7" 62 40 #5 9'-8" 403 4 #5 32'-1" 134 26'-3" 1,288 24 #7 242'-2" 273 #3 3,531 Reinforcing Steel Lb 7.7 CYI "C" Conc (Cap) CY8.4 CI "C" Conc (Column)

Reinforcing Steel Lb 1,398 CI "C" Conc (Cap) CY 7.7 TABLE OF MAXIMUM ALLOWABLE EXPOSED

PILE HEIGHTS AND

PILE LOADS (4)

TABLE OF ESTIMATED

QUANTITIES

Length

32'-1"

2'-7"

6'-7"

9'-8"

32'-1"

Weight

852

7

62

343

134

5 PILE BENT

Size

#11

#4

#4

#5

#5

No.

5

4

14

34

4

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	Pile Type		Max Ht	Max Load				
	Concrete	Steel	Ft	Tons/Pile				
٥	16" Sq	HP14x73	16	75				
ts:	18" Sq	HP14x117 (6)	20	90				

- Top of cap elevations are based on section depths shown on Span Details.
- 2 ½" preformed bituminous fiber material between slab beam and earwall.

 Bond to earwall with an approved adhesive.
 Cast inside face of earwall perpendicular to cap. (Typ)
- (3) Quantities shown are based on an "H" value of 24 feet. For each linear foot variation in "H" value, make the following adjustments: Bars V length, 1'-0"

Bars Z length, 9'-6" Reinforcing Steel, 60 Lb Class "C" conc (column), 0.35 CY

- 4) This standard may not be used for "H" heights exceeding 24 feet or exposed pile heights exceeding the values shown in the table. In areas of very soft soil or where scour is anticipated, allowable "H" heights or exposed pile heights must be evaluated by the Engineer prior to the use of this standard.
- (5) Foundation Loads based on "H" = 24 feet.

BARS Z

BARS S

 $\begin{tabular}{ll} \hline (6) & When HP14x117 steel piling is specified in the plans, the Contractor has the option of furnishing either HP14x117 or HP16x101 steel piling. \\ \hline \end{tabular}$

GENERAL NOTES:

Designed according to AASHTO LRFD Bridge Design Specifications. Bent selected must be based on the average span length rounded up to the next 5-foot increment.

For pile bents supporting unequal spans, the shorter span cannot be less than 80 percent of the longer span.

See Bridge Layout for foundation type, size, and length.
See Common Foundation Details (FD) standard sheet for all foundation details and notes.

These bent details do not support the use of multi-pile footings shown on the FD standard.

Details are drawn showing right forward skew. See Bridge Layout for actual skew direction.

These bent details may be used with standard SPSB-24-30 only.

Cover dimensions are clear dimensions, unless noted otherwise. Reinforcing bar dimensions shown are out-to-out of bar.

MATERIAL NOTES:

Provide Class C concrete (f'c = 3,600 psi). Provide Class C (HPC) concrete if shown elsewhere in the plans.

Provide Grade 60 reinforcing steel.

HL93 LOADING



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INTERIOR BENTS
PRESTR CONC SLAB BEAM
24' ROADWAY 30° SKEW

BPSB-24-30

FILE: PSB-BPSB2430-17.dgn	DN: TX	D0T	CK: TXDOT	DW:	TxD0T	ck: TxD0T
	CONT	SECT	JOB		HIGHWAY	
REVISIONS						
	DIST		COUNTY			SHEET NO.

Note: For piles larger than 16", adjust Bars S spacing as required to avoid piles.