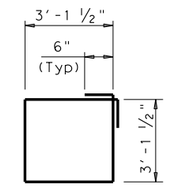
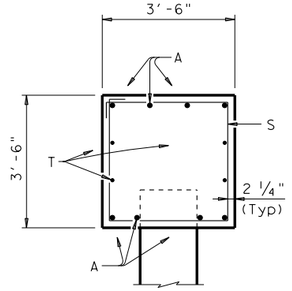
DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

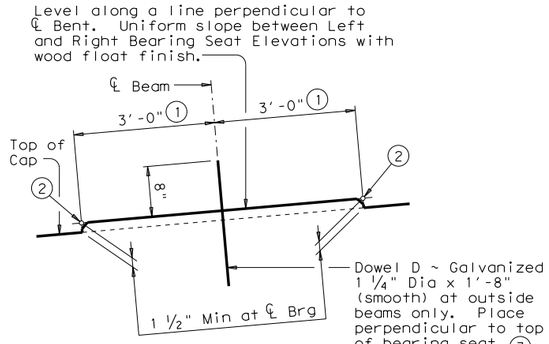
DATE:
FILE:



BARS S

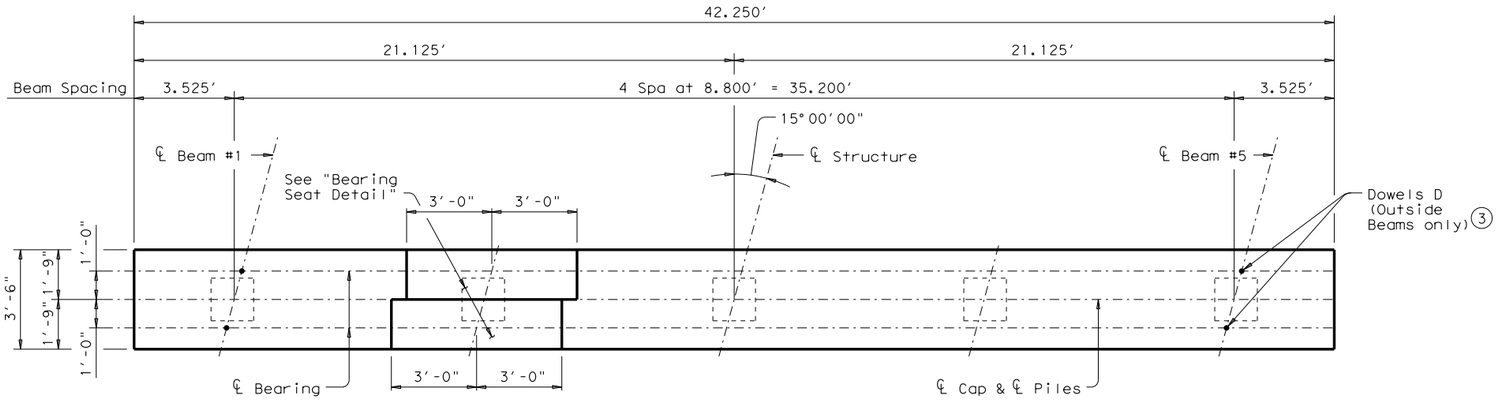


SECTION A-A

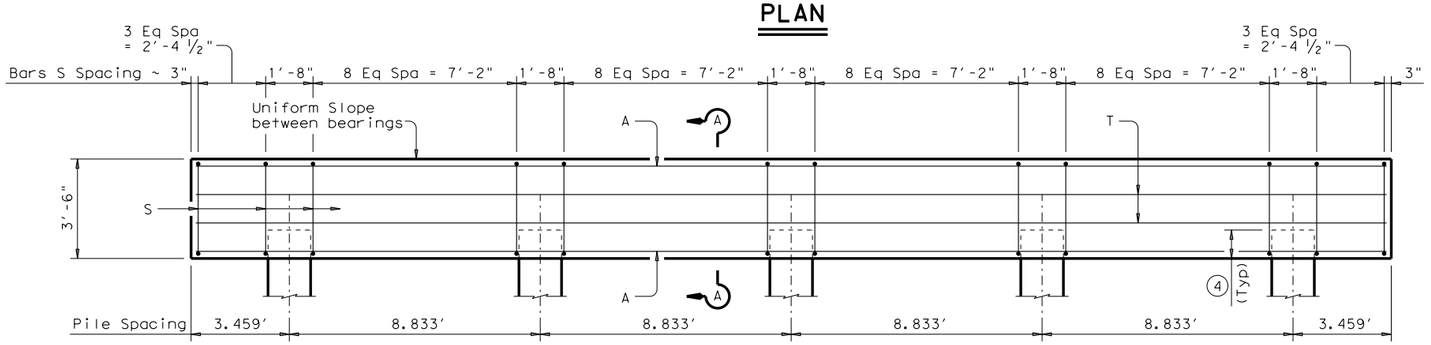


BEARING SEAT DETAIL

(Bearing surface must be clean and free of all loose material before placing bearing pad.)



PLAN



ELEVATION

TABLE OF MAXIMUM ALLOWABLE EXPOSED PILE HEIGHTS AND PILE LOADS (5)

Pile Type		Maximum Height	Maximum Load
Concrete	Steel	Ft	(Tons/Pile)
18" Sq	HP14x117 (6)	20	90
20" Sq	HP18x135	24	110
24" Sq	(7)	24	140

FOUNDATION LOADS

Span Average	Minimum Concrete Pile Size	5XB20 & 5XB28 X-Beams Pile Loads
Ft	In.	(Tons/Pile)
40	18	71
45		77
50		83
55	20	90
60		96
65		102
70	24	108
75		114
80		120

TABLE OF ESTIMATED QUANTITIES

40' THRU 80' SPANS

Bar	No.	Size	Length	Weight
A	8	#9	41'-11"	1,140
D (3)	4	1 ¼"D	1'-8"	28
S	44	#5	13'-6"	620
T	4	#5	41'-11"	175
Reinforcing Steel			Lb	1,963
Class "C" Concrete			CY	19.6

(1) Measured along ℄ of Bearing.

(2) Right and left elevations and locations are provided elsewhere.

(3) Omit Dowels D at end of units. Adjust reinforcing steel total accordingly.

(4) See FD standard.

(5) In areas of very soft soil or where scour is anticipated, maximum allowable exposed pile heights shall be evaluated by the Engineer prior to use of this standard.

(6) When HP14 x 117 steel piling is specified in the plans, the Contractor has the option of furnishing either HP14 x 117 or HP16 x 101 steel piling.

(7) Where no steel HP section is shown, a suitable HP equivalent to the square concrete pile has not been evaluated.

GENERAL NOTES:

Designed according to AASHTO LRFD Specifications.

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

These details are limited to an 80' maximum span length.

Concrete strength f'c = 3,600 psi.

All Cap reinforcing must be Grade 60.

Galvanize dowel bars D.

See Bridge Layout for piling size and length.

See Foundation Details standard FD for all foundation details and notes.

Bent selected shall be based on the average span length rounded up to the next 5 Ft increment.

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

These bent details may be used with Standard SXB-40-15 only.

HL93 LOADING

Texas Department of Transportation

Bridge Division Standard

INTERIOR TRESTLE BENTS

TYPE 5XB20 AND 5XB28 PRESTR CONC X-BEAMS

40' ROADWAY 15°SKEW

BTXB-40-15

FILE: xbstde87.dgn	DN: JMH	CK: AM	DW: JTR	CK: JMH
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REVISIONS	DIST	COUNTY		SHEET NO.