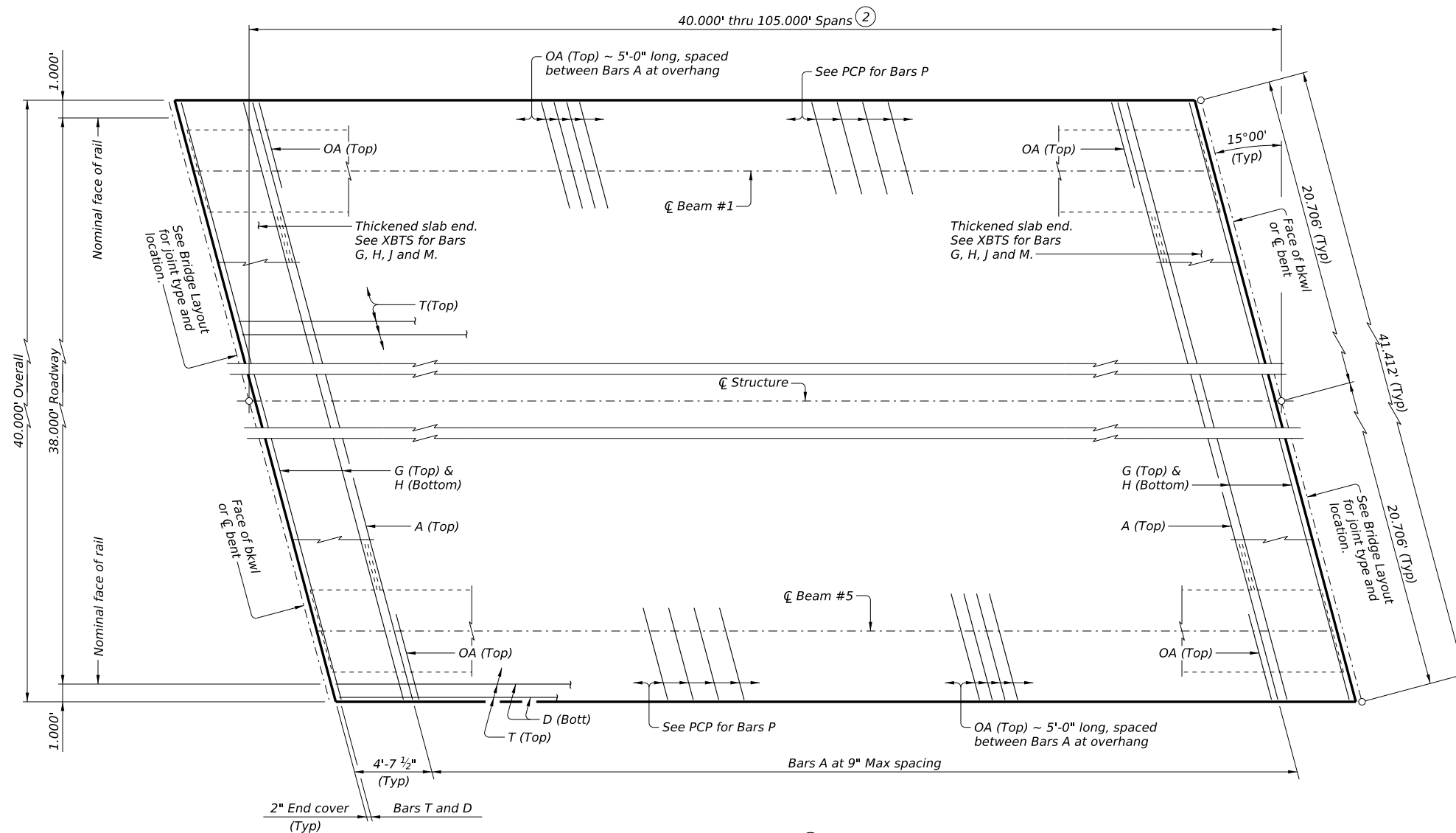
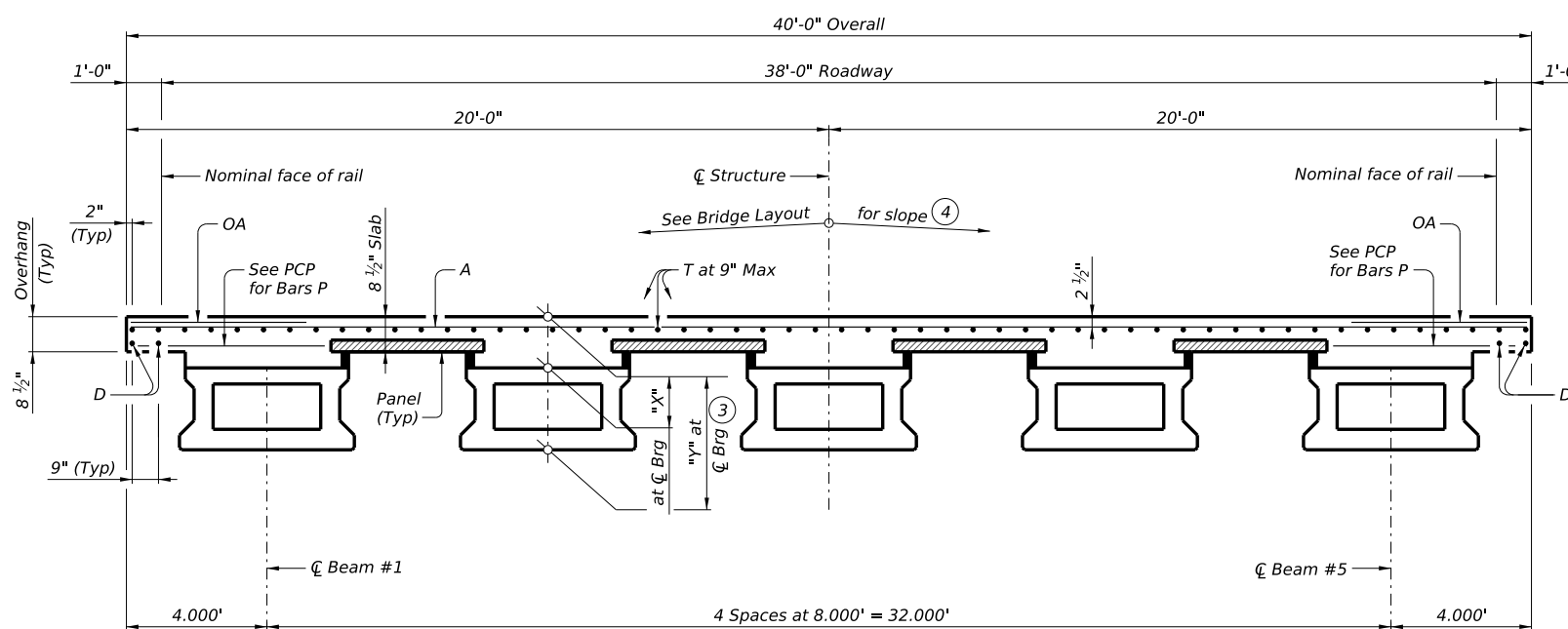


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PLAN (1)



TYPICAL TRANSVERSE SECTION

(Showing beam type 5XB28)

BAR TABLE

BAR	SIZE
A	#4
D	#4
G	#4
H	#4
J	#4
M	#4
OA	#5
P	#4
T	#4

- If multi-span units (with slab continuous over interior bents) are indicated on the Bridge Layout, see X-Beam Continuous Slab Details (XBCS) standard for adjustment to slab reinforcement and quantities.
- Span lengths for Prestressed Concrete X-Beam type:
 Type 5XB20 for spans lengths 40.000' through 65.000'.
 Type 5XB28 for spans lengths 40.000' through 85.000'.
 Type 5XB34 for spans lengths 40.000' through 100.000'.
 Type 5XB40 for spans lengths 40.000' through 105.000'.
- "Y" value shown is based on theoretical beam camber, dead load deflection from an 8 1/2" concrete slab, a constant roadway grade, and using precast concrete panels (PCP).
- This standard does not provide for changes in roadway cross-slopes within the structure.

TABLE OF SECTION DEPTHS

Span Length	Beam Type 5XB20		Beam Type 5XB28		Beam Type 5XB34		Beam Type 5XB40	
	"X"	"Y" (3)	"X"	"Y" (3)	"X"	"Y" (3)	"X"	"Y" (3)
Ft	In	Ft/In	In	Ft/In	In	Ft/In	In	Ft/In
40	10 1/2"	2'-6 1/2"	10 1/2"	3'-2 1/2"	10 1/2"	3'-8 1/2"	10 1/2"	4'-2 1/2"
45	10 1/2"	2'-6 1/2"	10 1/2"	3'-2 1/2"	10 1/2"	3'-8 1/2"	10 1/2"	4'-2 1/2"
50	10 1/2"	2'-6 1/2"	10 1/2"	3'-2 1/2"	10 1/2"	3'-8 1/2"	10 1/2"	4'-2 1/2"
55	10 3/4"	2'-6 3/4"	10 1/2"	3'-2 1/2"	10 1/2"	3'-8 1/2"	10 1/2"	4'-2 1/2"
60	11 1/4"	2'-7 1/4"	10 1/2"	3'-2 1/2"	10 1/2"	3'-8 1/2"	10 1/2"	4'-2 1/2"
65	11 1/2"	2'-7 1/2"	10 1/2"	3'-2 1/2"	10 1/2"	3'-8 1/2"	10 1/2"	4'-2 1/2"
70	---	---	10 1/2"	3'-2 1/2"	10 1/2"	3'-8 1/2"	10 1/2"	4'-2 1/2"
75	---	---	11 1/4"	3'-3 1/4"	10 1/2"	3'-8 1/2"	10 1/2"	4'-2 1/2"
80	---	---	11 1/2"	3'-3 1/2"	10 1/2"	3'-8 1/2"	10 1/2"	4'-2 1/2"
85	---	---	11 3/4"	3'-3 3/4"	10 3/4"	3'-8 3/4"	10 1/2"	4'-2 1/2"
90	---	---	---	---	11 1/2"	3'-9 1/4"	10 1/2"	4'-2 1/2"
95	---	---	---	---	11 3/4"	3'-9 3/4"	10 3/4"	4'-2 3/4"
100	---	---	---	---	11 3/4"	3'-9 3/4"	11 1/4"	4'-3 1/4"
105	---	---	---	---	---	---	11 1/4"	4'-3 1/4"

HL93 LOADING

SHEET 1 OF 2



PRESTRESSED CONCRETE X-BEAM SPANS (TYPE 5XB20 THRU 5XB40)

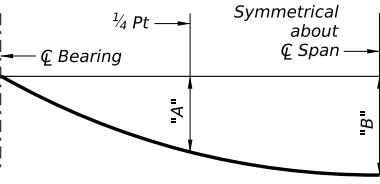
38' ROADWAY 15° SKEW

SXB-38-15

FILE: XB-SXB3815-24.dgn	DN: BMP	CK: EFC	DW: JER	CK: TAR
© TxDOT August 2022	CONT	SECT	JOB	HIGHWAY
REVISIONS				
11-24: Flipped top mat.	DIST	COUNTY	SHEET NO.	

DATE: FILE:

				○	○



**DEAD LOAD
DEFLECTION DIAGRAM**

Calculated deflections shown are due to the concrete slab on interior beams only ($E_c = 5,000$ ksi). Adjust values as required for exterior beams and if optional slab forming is used. These values may require field verification.

Provide Class S (HPC) concrete if shown
Provide Grade 60 reinforcing steel.
Provide bar laps, where required, as follows:
Uncoated ~ #4 = 1'-7"
Epoxy coated ~ #4 = 2'-5"
Deformed welded wire reinforcement (WWR) (ASTM A1064) of equal size and spacing may be substituted for Bars A, D, OA, P, or T unless noted elsewhere.

Designed according to AASHTO LRFD Bridge Design Specifications. This standard does not provide for vertical curves in roadway grade within the structure.
Multi-span units, with slab continuous over interior bents, may be formed with the details shown on this sheet and the X-Beam Continuous Slab Details (XBCS) standard.
This standard is drawn showing right forward skew. See Bridge Layout for actual skew dimensions.
See X-Beam Thickened Slab End Details (XBTS) standard for details and quantity adjustments.
See Prestressed Concrete Panels (PCP) standard and Prestressed Concrete Panel Fabrication Details (PCP-FAB) standard for panel details not shown.
See X-Beam Minimum Erection and Bracing Requirements with Miscellaneous Slab Details (XBMR-MS) standard for miscellaneous details.
See applicable rail details for rail anchorage in slab.
See Permanent Metal Deck Forms (PMD) standard for details and quantity adjustments if this option is used.
This standard does not support the use of transition bents.

Cover dimensions are clear dimensions, unless noted otherwise.



**PRESTRESSED CONCRETE
X-BEAM SPANS
(TYPE 5XB20 THRU 5XB40)
38' ROADWAY 15° SKEW**

DATE: