DATE:
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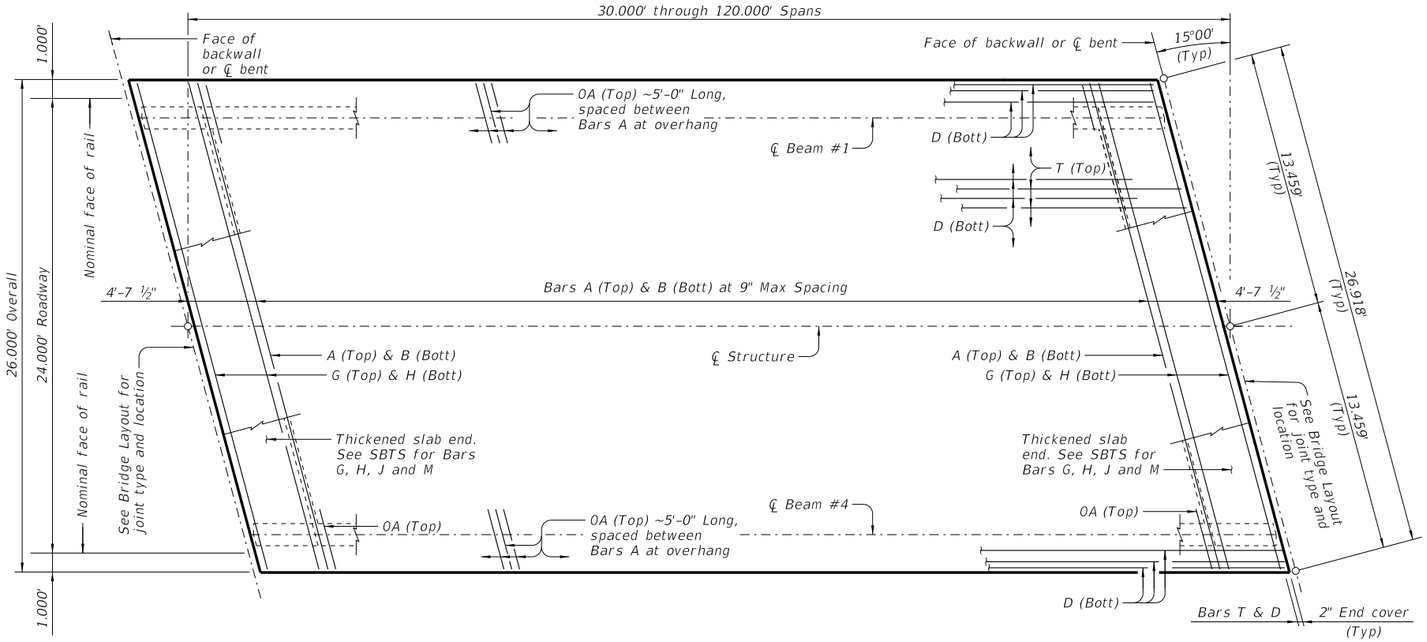
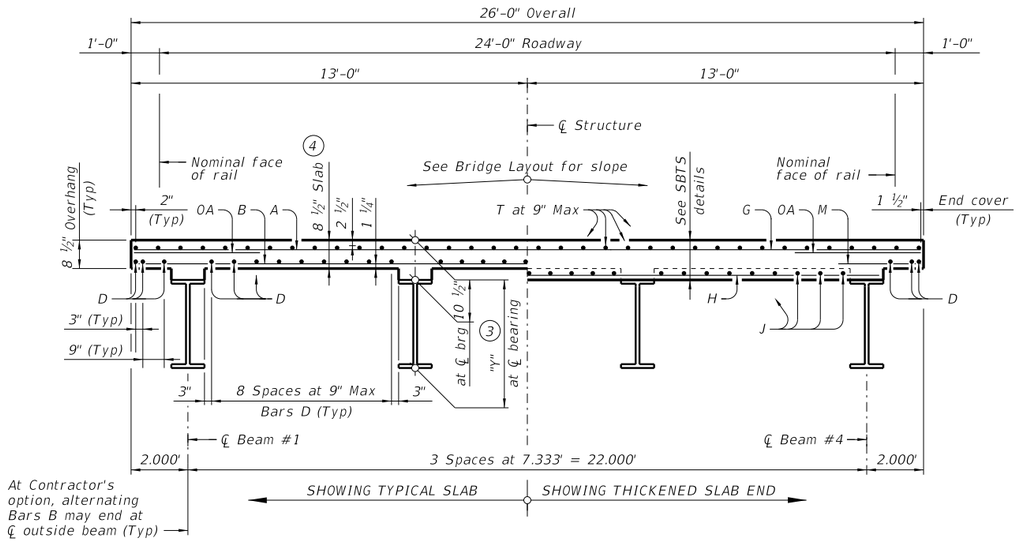
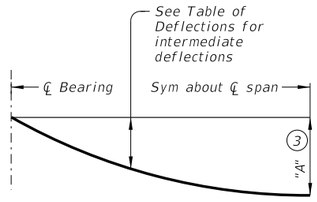


PLAN (1)



TYPICAL TRANSVERSE SECTION



DEAD LOAD DEFLECTION DIAGRAM

TABLE OF DEFLECTIONS (3)

Location	Deflection
CL Brg	0.0
0.1 Span	0.31 x "A"
0.2 Span	0.59 x "A"
0.3 Span	0.81 x "A"
0.4 Span	0.95 x "A"
CL Span	"A"

BAR TABLE

Bar	Size
A	#4
B	#4
D	#4
G	#4
H	#4
J	#4
M	#4
0A	#5
T	#4

(1) If multi-span units (with slab continuous over interior bents) are indicated on the Bridge Layout, see SBCS standard for adjustment to slab reinforcement and quantities.

(2) Reinforcing steel weight is calculated using an approximate factor of 4.4 Lbs/SF.

(3) See SBSD-24 standard for "A" and "Y" values. Increase "Y" value as necessary for sag roadway vertical curves.

(4) Tolerance on slab thickness is +1", -0" regardless of forming system used or any other tolerances shown elsewhere.

(5) See SBSD-24 standard for Structural Steel (Rolled Beam) estimated quantities.

TABLE OF ESTIMATED QUANTITIES (5)

SPAN LENGTH	REINF CONCRETE SLAB	TOTAL REINF STEEL (2)
Ft	SF	Lb
30	780	5,070
35	910	5,915
40	1,040	6,760
45	1,170	7,605
50	1,300	8,450
55	1,430	9,295
60	1,560	10,140
65	1,690	10,985
70	1,820	11,830
75	1,950	12,675
80	2,080	13,520
85	2,210	14,365
90	2,340	15,210
95	2,470	16,055
100	2,600	16,900
105	2,730	17,745
110	2,860	18,590
115	2,990	19,435
120	3,120	20,280

MATERIAL NOTES:

Provide Class S concrete (f'c = 4,000 psi).
Provide Class S (HPC) concrete if shown elsewhere in the plans.
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, B, D, 0A, or T unless noted otherwise.

GENERAL NOTES:

Designed according to AASHTO LRFD Bridge Design Specifications.
This standard is drawn showing right forward skew. See Bridge Layout or actual skew direction.
Multi-span units, with slab continuous over interior bents, may be formed with the details shown on this sheet and Steel Beam Continuous Slab Details (SBCS) standard sheet.
See Steel Beam Thickened Slab End (SBTS) standard sheet for thickened slab end details and quantity adjustments.
See Prestressed Concrete Panels (PCP) standard sheet or Permanent Metal Deck Forms (PMDF) standard sheet for details and quantity adjustments if either of these options are used.
See Steel Beam Miscellaneous Slab Details (SBMS) standard sheet for miscellaneous details.
See applicable rail details for rail anchorage in slab.
This standard does not support the use of transition bents.

Cover dimensions are clear dimensions, unless noted otherwise.

HL93 LOADING

Texas Department of Transportation

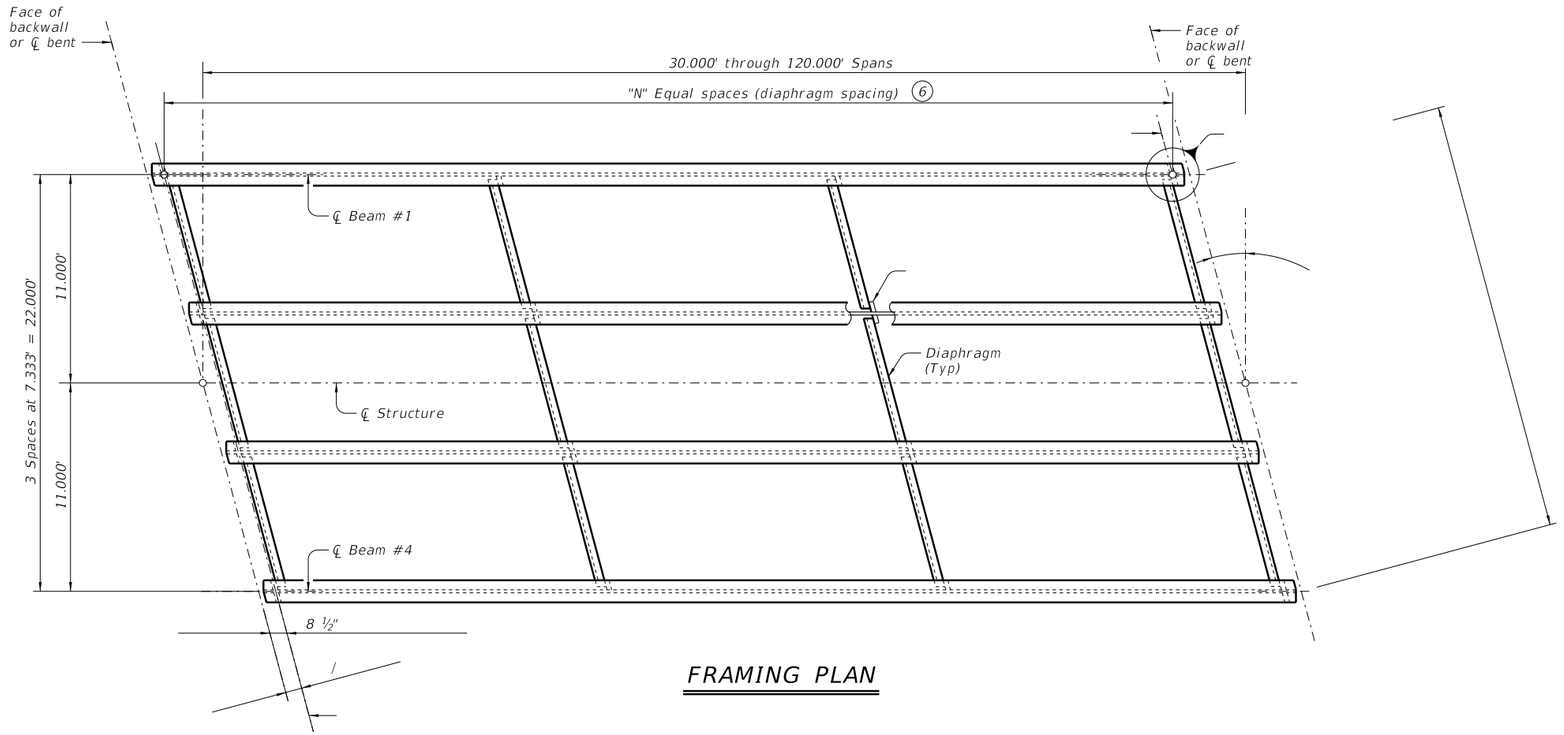
Bridge Division Standard

STEEL BEAM SPANS

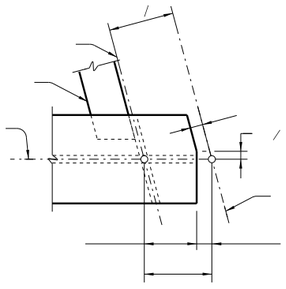
24' ROADWAY 15° SKEW

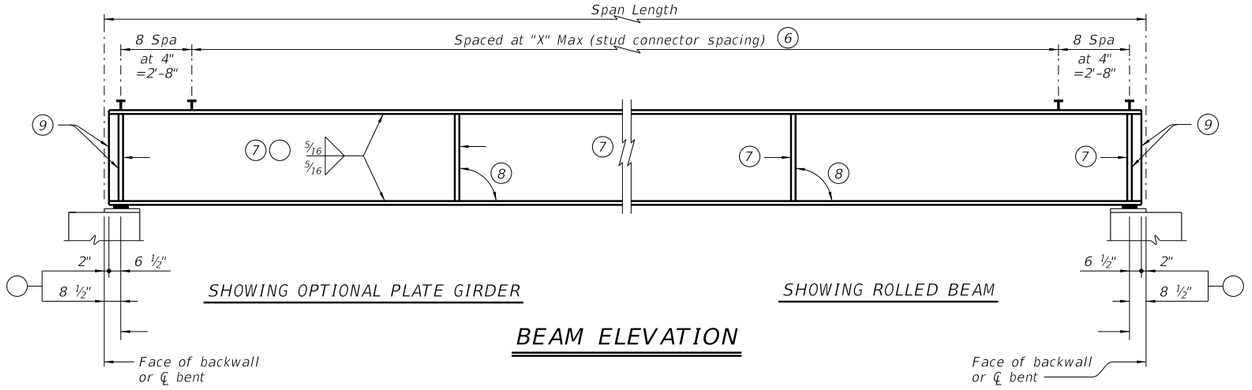
SSB-24-15

FILE: SB-SSB2415-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT November 2021	CONT	SECT	JOB	HIGHWAY
REVISIONS	DIST	COUNTY		SHEET NO.



FRAMING PLAN





BEAM ELEVATION

FABRICATION NOTES

GENERAL:

ROLLED BEAMS:

(11)

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HL93 LOADING

SHEET 2 OF 2

Texas Department of Transportation

Bridge Division Standard

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