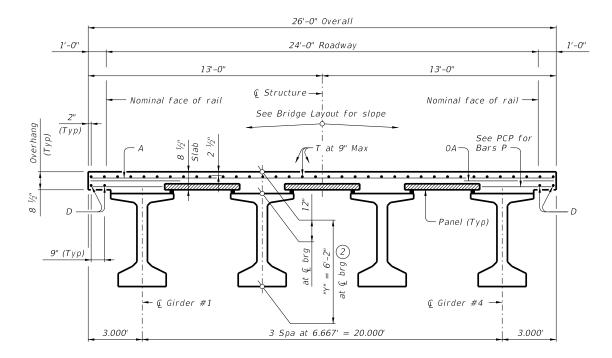




- 1) If multi-span units (with slab continuous over interior bents) are indicated on the Bridge Layout, see standard IGCS for adjustment to slab reinforcement and quantities.
- (2) "Y" value shown is based on theoretical girder camber, dead load deflection from an 8 $\frac{1}{2}$ " concrete slab, a constant roadway grade, and using precast panels (PCP). The Contractor will adjust this value as necessary for any roadway vertical curve.



TYPICAL TRANSVERSE SECTION

HL93 LOADING SHEET 1 OF 2

Texas Department of Transportation

PRESTRESSED CONCRETE I-GIRDER SPANS (TYPE Tx62)

24' ROADWAY

15° SKEW

BAR TABLE

SIZE #4

#4

#4

#4

#4

#5

#4

#4

BAR

D

Н

Μ

OA

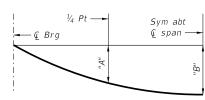
SIG-62-24-15

FILE: IG-\$1G622415-23.dgn	DN: JMH		CK: GC	DW:	JTR		CK: TAR
CTxDOT August 2017	CONT	SECT	JOB F		HIG	HIGHWAY	
REVISIONS							
10-19: Increased "X" and "Y" Values. 01-23: Removed PCP(0) reference.	DIST	COUNTY				SHEET NO.	

OATE: FILE:

TABLE OF DEAD LOAD DEFLECTIONS

TYPE Tx62 GIRDERS SPAN LENGTH "B" Ft Ft Ft 60 0.004 0.006 65 0.009 70 0.009 0.012 75 0.011 0.016 80 0.015 0.021 85 0.019 0.027 90 0.024 0.034 95 0.031 0.043 100 0.038 0.053 105 0.046 0.065 110 0.056 0.078 0.094 115 0.067 120 0.079 0.111 125 0.093 0.131 130 0.110 0.154 135 0.128 0.179



DEAD LOAD DEFLECTION DIAGRAM

Calculated deflections shown are due to the concrete slab on interior girders only (Ec = 5000 ksi). Adjust values as required for exterior girders and if optional slab forming is used. These values may require field verification.

TABLE OF ESTIMATED QUANTITIES

		Prestres			
SPAN LENGTH	REINF CONCRETE SLAB	ABUT TO 3 INT BT	INT BT TO 3 INT BT	ABUT TO ABUT	TOTAL 4 REINF STEEL
Ft	SF	LF	LF	LF	Lb
60	1,560	237.96	238.00	237.93	3,588
65	1,690	257.96	258.00	257.93	3,887
70	1,820	277.96	278.00	277.93	4,186
75	1,950	297.96	298.00	297.93	4,485
80	2,080	317.96	318.00	317.93	4,784
85	2,210	337.96	338.00	337.93	5,083
90	2,340	357.96	358.00	357.93	5,382
95	2,470	377.96	378.00	377.93	5,681
100	2,600	397.96	398.00	397.93	5,980
105	2,730	417.96	418.00	417.93	6,279
110	2,860	437.96	438.00	437.93	6,578
115	2,990	457.96	458.00	457.93	6,877
120	3,120	477.96	478.00	477.93	7,176
125	3,250	497.96	498.00	497.93	7,475
130	3,380	517.96	518.00	517.93	7,774
135	3,510	537.96	538.00	537.93	8,073
	<u> </u>				

- (3) Fabricator will adjust lengths for girder slopes as required.
- 4) Reinforcing steel weight is calculated using an approximate factor of 2.3 lbs/SF.

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 $\sim #4 = 1'-7''$ Epoxy coated $\sim #4 = 2'-5''$

Deformed welded wire reinforcement (WWR) (ASTM A1064) of equal size and spacing may be substituted for Bars A, AA, D, OA, P or T unless noted otherwise.

GENERAL NOTES:

Designed according to AASHTO LRFD Bridge Design Specifications.

Multi-span units, with slab continuous over interior bents, may be formed with the details shown on this sheet and the I-Girder Continuous Slab Detail (IGCS) standard. See I-Girder Thickened Slab End Details (IGTS) standard

See I-Girder Thickened Slab End Details (IGTS) 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 Legisder Miscellaneous Slah Details (IGMS) standard

See I-Girder Miscellaneous Slab Details (IGMS) standard for miscellaneous details.

See applicable rail details for rail anchorage in slab. See Permanent Metal Deck Forms (PMDF) standard for details and quantity adjustments if this option is used. This standard is drawn showing right forward sew.

This standard is drawn showing right forward skew. See Bridge Layout for actual skew direction. This standard does not support the use of transition

Cover dimensions are clear dimensions, unless noted otherwise

HL93 LOADING

SHEET 2 OF 2



Bridge Division Standard

PRESTRESSED CONCRETE I-GIRDER SPANS (TYPE Tx62)

24' ROADWAY

15° SKEW

SIG-62-24-15

LE: IG-SIG622415-23.dgn	DN: JMH		CK: GC	DW:	JTR	ck: TAR	ı
TxDOT August 2017	CONT	SECT	JOB		HIGHWAY		
REVISIONS							ı
10-19: Increased "X" and "Y" Values. 01-23: Removed PCP(0) reference.	DIST	COUNTY			SHEET NO.		