

TYPICAL END CROSS FRAME CF1

** Three sides, to back face of channel only, typ.

Top of web

Top of web

L4x4x7₁₆" NTR

L4x4x7₁₆" NTR

V Girder

S'-4"

C Girder

Top of web

L4x4x7₁₆" NTR

NTR typ.

L4x4x7₁₆" NTR

NTR typ.

Defail 3

TYPICAL INTERIOR CROSS FRAME CF2

* 5₁₆" (between Splice 1 & 2)

Note:

End Cross frames at the Stage Line shall be installed after Stage I deck pour. See Stage III Deck Pour and Closure Sequencing on sheet S28 of S49. Timber block posts shall be used to support Stage I concrete formwork at the Abutments. Contractor shall apply grout to the top of the top channel of the end cross frames to ensure full contact between the Stage I concrete deck and the top of the channel of the end cross frames. Cost of timber block posts and grout shall be included in Furnishing and Erecting Structural Steel.

Notes

See framing plan on sheet S21 of S49 for location of girder cross frames.

For Detail 3 and Sections A-A and B-B, see sheet S28 of S49.

AASHTO M270 Grade 50 steel shall be used for all cross frames, connection plates, and bearing stiffeners, unless otherwise noted.

Load carrying components designated "NTR" shall conform to the Impact Testing Requirements, Zone 2.

All cross frames between girders shall be installed with erection pins and bolts in accordance with erection plan submitted to and approved by the Engineer. Individual cross frames at supports may be temporarily disconnected to install bearing anchor rods.

The calculated deflections of the primary girders under steel self-weight shall be used to detail the cross frame connections, and to erect the structural steel such that girders will be plumb within a tollerance of $\pm l_B$ " per vertical foot throughout the length of the girder system when supporting their own weight.

No connection plate on exterior side of exterior girders.

TYPICAL INTERIOR/END CROSS FRAME CF3

* 5₁₆" (between Splice 1 & 2)

L5x5x12" NTR

-Bent P., typ. '2" x 1'-3" x 1'-3"

Bent P, typ. __l__" x 1'-0" x 1'-0"

Gusset P

-₁₂"x1'-0"x2'-0" NTR typ.

€ Girder

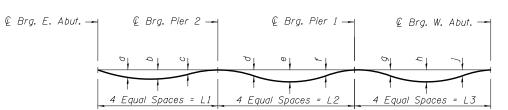
typ.

typ.

Top of web

Bottom

of web



© Girder

<u></u> € C12x25 NTR

O É

— Tight Fit

typ.

- Mill to Bear

— Brg. Stiff. typ.

GIRDER SELF-WEIGHT DEFLECTION DIAGRAM

See Screed Dimension Layout Table on sheet S8 of S49 for span lengths.

GIRDER SELF WEIGHT DEFLECTIONS

Location	Girder								
Location	1	2	3	4	5	6	7		
a b c d e f g h j		78"" 14"" - 18"" - 18"" 14"" 1238"	1.58 " " " " " " " " " " " " " " " " " " "	38" " " " " " " " " " " " " " " " " " "	383458-1-0-3838 383558-1-0-3838	78, 88, 89, 80, 80, 80, 80, 80, 80, 80, 80, 80, 80	1838 34-8-4-8 = 18358		

(Sheet 1 of 3)

COLLINS 123 N. Moder Or COLLINS 5178 900 ENGINEERS 700 (1312) 70 ELIGINEERS 700 (1312) 704 ILLINDIS PROFESSIONAL DESIGN FIRM LIERSES NO. 184
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USER NAME =	DESIGNED - MAH	REVISED
	CHECKED - LDB	REVISED
PLOT SCALE =	DRAWN - DR	REVISED
PLOT DATE =	CHECKED - JMH	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL DETAILS		SECTION
STRUCTURE NO. 016-1322	0383	0303-474HE
3111001011L NO. 010-1322		
SHEET NO. S26 OF S49 SHEETS		ILLIN