

TYPICAL END CROSS FRAME - CF

(8 Required)

Notes:

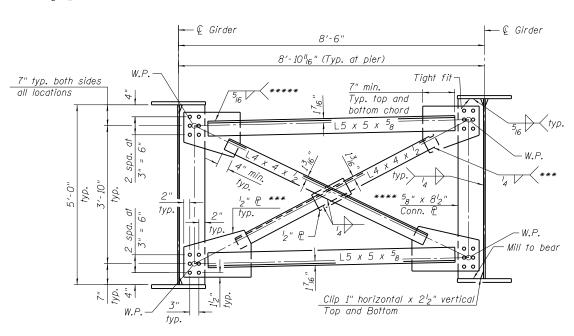
STAGE CONSTRUCTION END CROSS FRAME - CF1

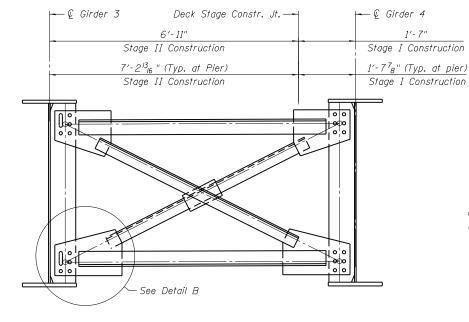
ross Frames

- * Weld on near side of l_2 " p_2 .
- ** $^{\prime}_{2}$ " f^{\prime}_{2} 's to be bent to match skew at abutments.

Detail 1½" \$\phi\$ holes for \$^7_8\$" \$\phi\$ bolts in Cross Frames CF and CF1, unless otherwise noted.

Place diaphargm with channel flanges and outstanding angle legs outward from abutment backwall.





TYPICAL INTERIOR AND PIER CROSS FRAME - CF2

(44 Required)
(Interior Cross Frame - CF2 shown. Pier Cross Frame - CF2 similar, except as noted.)

STAGE CONSTRUCTION INTERIOR AND PIER CROSS FRAME - CF3

(Interior Cross Frame - CF3 shown. Pier Cross Frame - CF3 similar, except as noted.)
(See Interior and Pier Cross Frame - CF2 for details and dimensions not shown)

- *** 12" Para to be bent to match skew at pier.
- **** 34" x 8'2" Brg. stiff. P each side of girder web at pier in lieu of connection P shown.
- ***** Fillet weld angles along 3 sides on one face of gusset £.

 $(^3_4$ " x 8^1_2 " Brg. stiffener \mathbb{R} 's at pier not shown for clarity.)

Notes:

Detail l_4 " ϕ holes for 1" ϕ bolts in Cross Frames CF2 and CF3, unless otherwise noted.

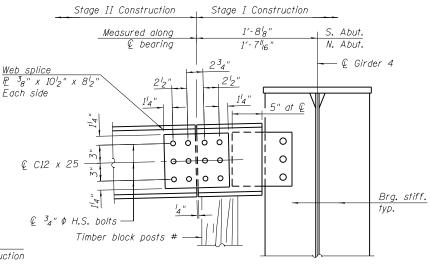
GENERAL NOTES

Two hardened washers required for each set of oversized holes.

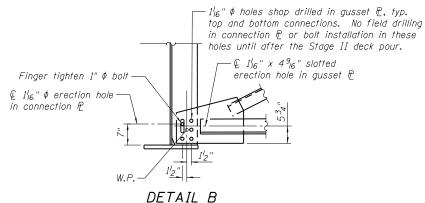
All plates and rolled shapes composing the cross frames, including the connection plates welded to the girders shall be AASHTO M270, Grade 50 and conform to the Impact Testing Requirement, Zone 2.

END CROSS FRAME - CF1 STAGE CONSTRUCTION SEQUENCE

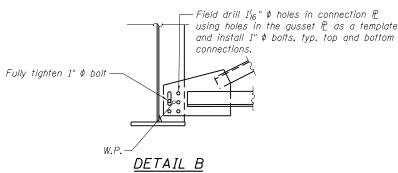
- 1. Order diaphragm in two sections.
- 2. Attach section $\bigcirc{1}$ of diaphragm to girder 4.
- 3. Place timber block posts between section 1 of diaphragm and abutment bearing section.
- 4. Attach section (2) of diaphragm to both girder 3 and section (1) of diaphragm during stage II construction with splice plates.
- 5. Remove timber block posts and install lower portion ($^{\prime}_2$ " $^{\prime\prime}_2$'s and L4 x 4 x $^{\prime\prime}_2$ angles) of the cross frame.



Cost of Timber Block Post is included with Furnishing and Erecting Structural Steel.



(Shown at completion of Stage II steel erection)



(Shown at completion of Stage II deck pour)

engineers + planners + land surveyors

USER NAME = dheberling	DESIGNED	-	SBC	REVISED
FILE NAME = 0430028-64E08.dgn	CHECKED	-	BRD	REVISED
PLOT SCALE = 0:2.000000 ':' / in.	DRAWN	-	DLH	REVISED
PLOT DATE = 9/26/2013	CHECKED	-	SBC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
STRUCTURE NO. 043-0080	308	103BR-4	JoDAVIESS	159	79		
3111001011L 140. 043-0000		CONTRACT NO. 64E08					
SHEET NO. 29 OF 60 SHEETS	ILLINOIS FED. AID PROJECT						