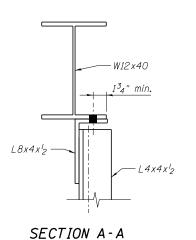
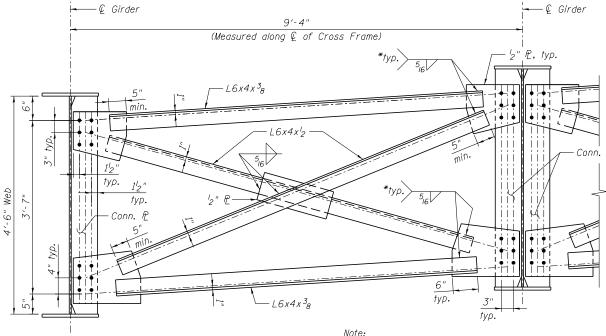


Fillet weld angles along 3 sides on one face of gusset plate. Terminate weld 4" from

edges of stiffener P. 14" weld for top flange to web from N. Abut to splice #1.

NOTES:



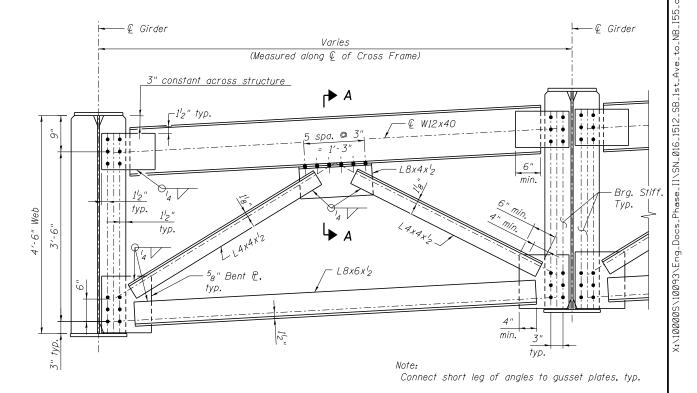


Connect short leg of angles to gusset plates, typ.

- 1. The Contractor shall either:
- A, Ream cross frame connection holes during shop assembly, or
- B. Provide detailing and fabrication controls acceptable to the Engineer which ensures accuracy such that field reaming will not exceed the amount permitted in Article 505.08(I) of the Standard Specifications.
- 2. The calculated deflections of the primary girders/ beams under steel self-weight shall be used to detail the diaphragm, cross frame and lateral bracing connections, and to erect the structural steel such that the girders/beams will be plumb within a tolerence of $\pm \frac{1}{8}$ in. per vertical ft. throughout when supporting their own weight. For steel self-weight deflections, see Sheet SB24.
- 3. All cross frame members shall be AASHTO M270 Grade 50 Steel, All structural steel shall be metallized.
- 4. All cross frames or diaphragms between beams or girders shall be installed with erection pins and bolts in accordance with the erection plan approved by the Engineer. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.
- 5. Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts $^{7}8$ " ϕ , holes $^{15}16$ " ϕ .
- 6. All bearing stiffeners, connection plates and gusset plates shall comply with NTR.
- 7. All cross frame members shall comply with NTR.
- 8. Load carrying components designated "NTR" shall conform to the Impact Testing Requirements, Zone 2.

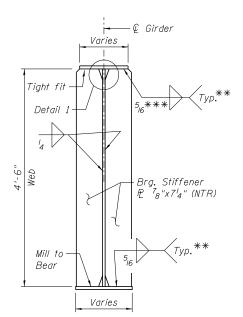
INTERIOR CROSS FRAME

(No. Reg'd = 39)



TYPE 2 CROSS FRAME AT PIERS AND ABUTMENTS

(CF2) (No. Reg'd = 12)



BEARING STIFFENER AT **ABUTMENTS**

(No. Reg'd = 16)

Varies BEARING STIFFENER AT **PIERS** (No. Reg'd = 16)

— ¢ Girder

Brg. Stiffener

4 only) (NTR)

⁷8"x7¹4" (NTR)

P ⁷8"x9¹4 (Pier 2, Girder

Varies

Tight fit

Detail

5/16

Mill to-

Bear

Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601

ILE NAME =	USER NAME = ksmider	DESIGNED - JHG	REVISED -				
		CHECKED - KWS	REVISED -				
	PLOT SCALE =	DRAWN - KMS	REVISED -				
	PLOT DATE = 6/23/2014	CHECKED - KWS	REVISED -				

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

						4
STRUCTURAL STEEL DETAILS (1 OF 3)	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.	/201
STRUCTURE NO. 016–1512	373	(0707-608&611)HB-B	COOK	177	139	33
STRUCTORE NO. 010-1312	CONTRACT NO. 60W			OW77	/2	
SHEET NO. SB23 OF SB43 SHEETS	ILLINOIS FED. AID PROJECT			9		