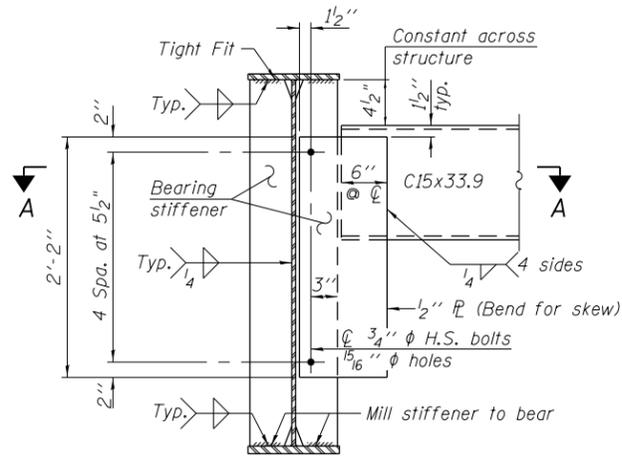
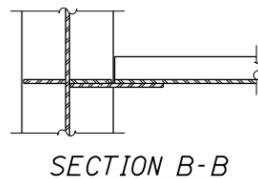


SECTION A-A

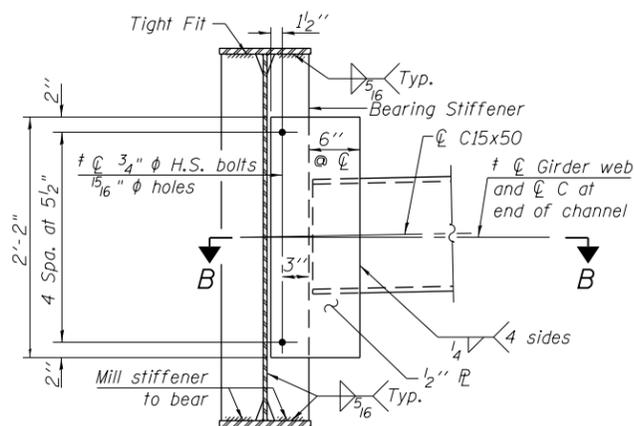


END DIAPHRAGM D

Note: (28 Required)  
Two hardened washers required for each set of oversized holes.



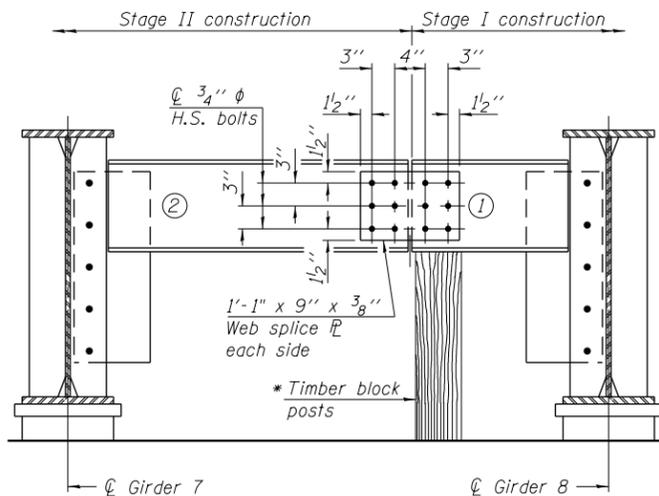
SECTION B-B



INTERIOR DIAPHRAGM D2

Note: (56 Required)  
Two hardened washers required for each set of oversized holes.

\* Cost of Timber Block Posts is included with Structural Steel.



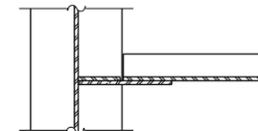
END DIAPHRAGM D

(Looking North, 2 Required)

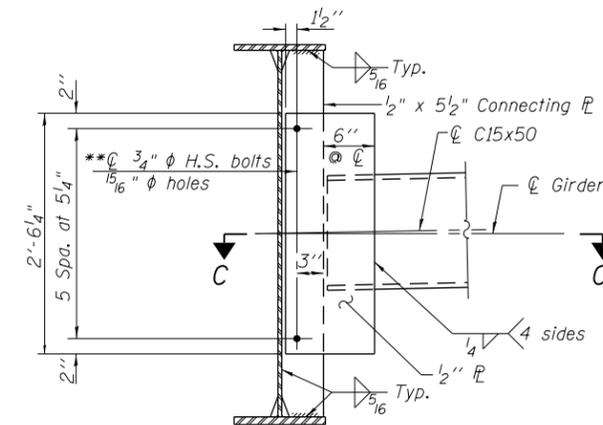
END DIAPHRAGM STAGE CONSTRUCTION SEQUENCE

- 1.) Order diaphragm in two sections.
- 2.) Attach section ① of diaphragm to girder
- 3.) Place timber block posts between section ① of diaphragm and abutment bearing section.
- 4.) Attach section ② of diaphragm to both girder and section ① of diaphragm during stage II construction with splice plates.
- 5.) Remove timber block posts.

† For the diaphragm connection between girder 7 and 8, only the top bolt hole shall be shop drilled in the connecting angle. The diaphragms shall be installed with a finger tightened bolts in the top holes prior to the Stage II deck pour. After the Stage II deck pour, the remaining holes in the connecting angle for the diaphragm shall be drilled using the holes in the diaphragm as a template. Install and tighten the remaining bolts. Cost of field drilling included with Furnishing and Erecting Structural Steel.



SECTION C-C



INTERIOR DIAPHRAGM D1

(350 Required)

Note: Two hardened washers required for each set of oversized holes.

\*\* For the diaphragm connection between girder 7 and 8, only the top bolt hole shall be shop drilled in the connecting angle. The diaphragms shall be installed with a finger tightened bolts in the top holes prior to the Stage II deck pour. After the Stage II deck pour, the remaining holes in the connecting angle for the diaphragm shall be drilled using the holes in the diaphragm as a template. Install and tighten the remaining bolts. Cost of field drilling included with Furnishing and Erecting Structural Steel.

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USER NAME = rlschultz	DESIGNED - WJC	REVISED
	CHECKED - DL	REVISED
PLOT SCALE = 0:1.0000 ' = 1/8" / in.	DRAWN - RLS	REVISED
PLOT DATE = 9/15/2013	CHECKED - DL	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS 4  
STRUCTURE NO. 016-1716

SHEET NO. S2-48 OF S2-81 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3730	2013-008R	COOK	559	408
CONTRACT NO.			60W26	
ILLINOIS FED. AID PROJECT				