

INTERIOR DIAPHRAGM D3

(15 required)

<4 sides

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INTERIOR DIAPHRAGM D4 5

(16 required)

- ① Two hardened washers required for each set of oversized holes. ② Alternate C15x50 channels are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section. The alternate, if utilized, shall be provided at no additional cost to the Department.
- 3 3, " \$\phi\$ HS bolts, \(\begin{align*} \begin{a Steel.
- ⑤ Use ${}^3_4{}^{\prime\prime}$ ϕ HS bolts. Provide ${}^1_{16}$ ${}^{\prime\prime}$ x $1^7_8{}^{\prime\prime}$ vertical slotted holes in connection plates attached to channel diaphragms only. Oversized 1516" \$\phi\$ holes shall be provided in the web of the girders and in both legs of the angle. Use ${}^{5}_{16}$ " structural plate washers placed over all slotted holes in diaphragm connection. The bolts for the slotted holes shall be finger tight until the second stage pour is complete and then fully tightened. The connection plate and slots shall be positioned so bolts start at one end with no concrete load and finish near the opposite end under deck load, allowing maximum displacement without laterally stressing the main members. Fabricator shall detail connection plate location on channel to allow for differential deflection during Stage II concrete deck pour.

GIRDER DETAILS STRUCTURE NO. 026-0105

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SHEET NO. 20	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	752	(U-2BR1)B-1	FAYETTE	71	42
38 SHEETS			CONTRACT	NO. 74	235
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

Eastport Business Center 1 100 Lanter Court, Suite 1 Collinsville, Illinois 62234 618-345-2200 Design Firm License No. 184.001115

DESIGNED JAD CHECKED DGL DRAWN CHECKED DGL