

Match holes in existing beam web 2'2" | Color | Colo

L 4"x4"x12"

center on € beam

€ 34" \$ H.S. bolts

15₁₆ " \$ holes

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

END DIAPHRAGM - (D5)

(Existing Beam shown)

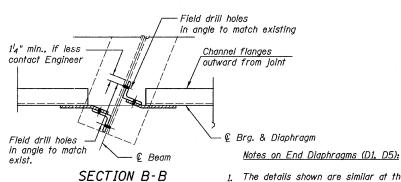
END DIAPHRAGM STAGE CONSTRUCTION SEQUENCE

1.) Order diaphragm in two sections.

** Cost of Timber Block Posts is

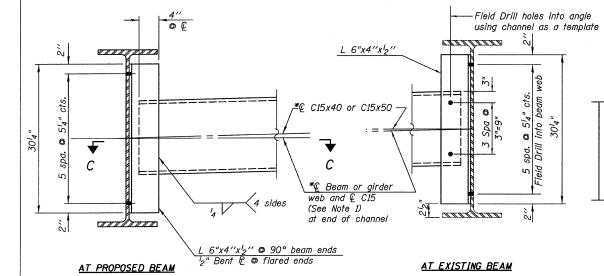
- 2.) Attach section 1 of diaphragm to beam 9
- 3.) Place timber block posts between section ① of diaphragm and abutment bearing section.
- 4.) Attach section ② of diaphragm to both beam 8 and section ① of diaphragm during stage II construction with splice plates.
- 5.) Remove timber block posts.

Note: Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.



END DIAPHRAGM (D1)

- 1. The details shown are similar at the proposed beams. Field drilling permitted only at connections to existing beams.
- Place additional holes in existing beam web as necessary, use 6 bolts minimum.
- 3. All bolts in beam webs shall be $^{7}8$ " H.S. Bolts, $^{15}16$ " ϕ holes.
- 4. Two hardened washers required for each set of oversized holes.
- Cost of Field Drilling to be included with the item "Erecting Structural Steel".



1. Alternate chann

SECTION C-C

1. Alternate channels are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.

Notes on Interior Diaphragms (D2 thru D4):

- 2. The alternate, if utilized, shall be provided at no additional cost to the Department.
- 3. ³₄" H.S. Bolts, ¹⁵₁₆" \$\phi\$ holes.

3" min., 6" max., See Note 3

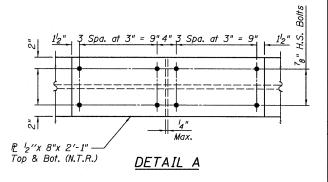
 Two hardened washers required for each set of oversized holes.



- @ Beam

Min. R. = 34", typ.

SECTION A-A



FRAMING DETAILS 1 DIAPHRAGMS STRUCTURE NO. 016-3241

INTERIOR DIAPHRAGMS (D2 THRU D4)

TYLIN INTERNATIONAL	DESIGNED	-	JMA	REVISIONS		
	CHECKED	-	AMD,	NAME	DATE]
	DRAWN	-	JMA			
	CHECKED	-	AMD,			7
	DATE	-	03/25/2011			1