Standard Drawing Guidance (do not show on plans):

Check that the 1 1/2" holes for the diaphragms shown on the design plans will provide a minimum clearance of at least 1 1/2" to any prestressing strands. Diaphragm spacing may need to be adjusted.

For MoDOT Type 2 girder only, use shorter angle and plate 15 1/2" instead of 16" to account for depth tolerance of web. Revise bolt end clearances to 1 3/4".

Delete panels for CIP slab.

### STEEL INTERMEDIATE DIAPHRAGMS

#### SECTION C-C

- **Steel Diaphragm Notes:**
  - 4 1 1/16" Ø Holes cast in beam with 7/8" Ø ASTM A307 bolt, hex nut and 3 hardened washers. Tighten and burr threads.

- **Concrete Girders:**
  - For location of intermediate diaphragms, see Sheet No.

- **Steel Intermediate Diaphragms:**
  - Shop drawings will not be required for steel intermediate diaphragm and angle connections.
  - For location of intermediate diaphragms, see Sheet No.

#### SECTION D-D

- **Diaphragm Materials:**
  - All diaphragm materials including bolts, nuts, and washers shall be galvanized.
  - Fabricated structural steel shall be ASTM A709 Grade 36 except as noted.

- **Bolts:**
  - * Bolts shall be tightened to provide a tension of one-half that specified in Sec. 712 for high strength bolt installation. ASTM F3125 Grade A325 Type 1 bolts may be substituted for high strength bolts.
  - ** Bolts shall be tightened to provide a tension of one-half that specified in Sec. 712 for high strength bolt installation. ASTM F3125 Grade A325 Type 1 bolts may be substituted for high strength bolts.

#### Diagrams

- **PART SECTION SHOWING INTERMEDIATE DIAPHRAGMS**
  - C15 x 33.9 (Top)
  - 6.0 M6.3 x 36.9
  - 6 Holes, bolts, IAS WM A3071, hex nuts and washers
  - C15 x 33.9
  - 4 x 6 x 1/2 x 16 plate
  - 4 x 3/8 x 16 plate

- **SECTION C-C**
  - C15 x 33.9

- **SECTION D-D**
  - C15 x 33.9

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**Note:** This drawing is not to scale. Follow dimensions.