

B402

Bolted Diaphragms (For Steel Beams)

Approved, and signed, March 26, 2009. Last date revised: January 5, 2017

Revised 01-05-2017

At the DESIGNER NOTES:

- Changed the note referencing the “MN/DOT LRFD Design Manual” to reference the “Bridge Design Manual”.

At SECTION A-A, SECTION B-B and INTERIOR BEAM detail:

- Removed the tail from the weld symbols.

UNDER NOTES:

- Changed all instances of “Mn/DOT SPEC.” to “PER SPEC.” within the notes and details.
- Updated notes to use active voice.

Re-Approved 03-26-2009

Various revisions were made to this detail including providing the designer an option in selecting the connection between the diaphragm connection stiffener and the flanges. Other changes include;

Under NOTES: Eliminated note ① "Weld size need not exceed 5/16" for intermediate diaphragm stiffeners".

Removed all existing numbered notes ① from the sheet. Renumbered note ⑥ (“Use same shear stud height as used on the beams.”) to note ①. Replaced numbered note ⑥ with ① at the INTERIOR BEAM (at abutment diaphragms).

At SECTION A-A:

- Removed – "5/16" PLATE" note from the detail.

At FASCIA BEAM (At Pier and Intermediate Diaphragms):

- At the 6" and 3" dimensions between the flanges and the diaphragm, the word "(MIN)" has been replaced with a numbered note ④ in four locations.

At INTERIOR BEAM (At Pier and Intermediate Diaphragms):

- The top and bottom flange "TIGHT FIT..." notes have been replaced with a DESIGNER NOTE that gives the designer a choice of connection type.
- A 5/16" DIAPHRAGM PLATE note has been added.
- The " 3/8" x 7" PLATE FOR INTERMEDIATE DIAPHRAGMS..." note has been changed to read " 3/8" x 7" CONNECTION STIFFENER FOR INTERMEDIATE DIAPHRAGMS. SEE PLAN FOR STIFFENER SIZES OVER BEARINGS."

At FASCIA BEAM (At Abutment Diaphragms):

- At the 1.5" dimension between the top flange and the diaphragm, the word "(MIN)" has been replaced with a numbered note ④.

09-11-2004

Throughout detail:

changed FACIA to FASCIA

changed title INTERMEDIATE BEAMS to INTERIOR BEAM

At INTERIOR BEAM – AT PIER AND INTERMEDIATE DIAPHRAGMS: changed 3/8" x 7" PLATE FOR INTERIOR DIAPHRAGMS. to 3/8" x 7" PLATE FOR INTERMEDIATE DIAPHRAGMS.

Approved, and signed, November 22, 2002.