

B303

Sole Plate (Prestressed Concrete Beams) (For Bearings With Pintles)

Approved, and signed, September 22, 2011. Last date revised: February 8, 2022

Revised 02-08-2022

At Detail Title:

- Removed the subtitle "(For Bridges with Pintles)".

AT General Notes:

- Within the notes: Changed the term "per spec." to "in accordance with spec." in all instances.
- Changed the 5th note from "Sole plates are incidental to prestressed concrete beams." to "Sole plates are included in the cost of prestressed concrete beams."

Revised 12-20-2018

At Front Elevation:

- Added "MH AND" to the string of dimensions for the MW Shape Beams, both above and on the left side of the detail.

At Section A-A:

- Added "MH" to the string of dimensions on the left side of the detail that read "M, MN, AND RB SHAPE BEAMS".
- Added "MH AND" to the string of dimensions for the MW Shape Beams below the detail.

At Designer Note:

- Added "If this sheet is modified, and a note on the beam sheet indicating that the sole plate has been modified, refer to B303."

Revised 01-05-2017

Under NOTES:

- The notes were updated to use active voice.
- Removed all references to "MnDOT" within the notes.
- Removed the reference to "AASHTO" from numbered note ③.

Re-Approved 09-22-2011

Updated the detail to include MW shape prestressed beams.

Removed from the B detail: Front Elevation-Option 1, and the accompanying Section A-A and Section B-B.

At Front Elevation – Option 2:

- Changed the detail name *from* "Front Elevation – Option 2" *to* "Front Elevation".
- Changed the section arrows *from* "C-C" *to* "A-A".
- Changed the dimension line label at the Shear Stud spacing and the Sole Plate width locations *from* "27M – 81M and 14RB – 22RB Beams" *to* "M and RB Shape Beams".
- Changed the dimension line label at the Shear Stud spacing and the Sole Plate width locations *from* "MN45 – MN63 Beams" *to* "MN Shape Beams".
- Added a dimension line with two dimensions (13 3/8") and (6") and numbered note ② to the Shear Stud spacing dimensions. Labeled the line: "MW Shape Beams".
- Added a dimension line (3' -2 3/4") for the Sole Plate width. Labeled the line: "MW Shape Beams".
- Added 3/4" dimension to the Sole Plate to show the thickness.

At Section C-C: Changed the detail name *from* "Section C-C" *to* "Section A-A"

- Changed the dimension line label at the Pintle Hole spacing locations *from* "27M – 81M and 14RB – 22RB Beams" *to* "M and RB Shape Beams".

- Changed the dimension line label at the Pintle Hole spacing locations *from* “MN45 – MN63 Beams” *to* “MN Shape Beams”.
- Added a dimension line with two dimensions (11 3/8”) and (8”) for the Pintle Holes. Labeled the line: “MW Shape Beams”.
- Added a label to the existing Sole Plate length dimensions (1’-3”) and (7 ½”) The label reads: “M, MN and RB Shape Beams”.
- Added two dimension lines (1’-5”) and (8 1/2”) to the Sole Plate length labeled the line: “MW Shape Beams”. Also added a designer note to the dimensions. Designer note reads: “Adjust this dimension for large movement bearings and consider the effects on the bearings and the portion of the beam that cantilevers beyond the bearing”.

Under Notes: Removed the slash from the Mn/DOT designation to read MnDOT throughout the sheet.

Revised 03-30-2010

AT General Notes:

- Changed numbered note ③ From: The requirements for welding studs shall comply with AASHTO/AWS D1.5. *to* The requirements for welding studs shall comply with AASHTO/AWS D1.1.

Revised 10-28-2008

At FRONT ELEVATION – OPTION 2: changed 7/8” DIA. x 5” LONG UNHEADED SHEAR STUD (6 TYP.) *to* 7/8” DIA. x 4” TO 5” LONG UNHEADED SHEAR STUD (6 TYP.)

At SECTION C-C: changed 7/8” DIA. x 5” LONG UNHEADED SHEAR STUD (6 TYP.) *to* 7/8” DIA. x 4” TO 5” LONG UNHEADED SHEAR STUD (6 TYP.)

Revised 06-14-2006

At FRONT ELEVATION – OPTION 1, FRONT ELEVATION – OPTION2, SECTION A-A, and SECTION C-C:

- changed 27M – 72M BEAMS *to* 27M – 81 M AND 14RB – 22RB BEAMS
- changed MN 45 & MN54 BEAMS *to* MN45 – MN63 BEAMS

Under NOTES: changed PAYMENT FOR SOLE PLATES TO BE INCLUDED IN PRICE BID FOR PRESTRESSED CONCRETE BEAMS. *to* SOLE PLATES ARE INCIDENTAL TO PRESTRESSED CONCRETE BEAMS.

Re-Approved 10-26-2005

At FRONT ELEVATION – OPTION 1, FRONT ELEVATION – OPTION2, SECTION A-A, and SECTION C-C: added MN45” and MN54” PCB dimensions.

Revised 03-04-2004

At FRONT ELEVATION – OPTION 2: changed 7/8” DIA. x 4” LONG SHEAR STUD (6 TYP.) *to* 7/8” DIA. x 5” LONG UNHEADED SHEAR STUD (6 TYP.)

At SECTION C-C: changed 7/8” DIA. x 4” LONG SHEAR STUD (6 TYP.) *to* 7/8” DIA. x 5” LONG UNHEADED SHEAR STUD (6 TYP.)

Revised 06-11-2003

At FRONT ELEVATION – OPTION 2: Changed 7/8” DIA. x 5” LONG SHEAR STUD (TYP. 6) *to* 7/8” DIA. x 4” LONG SHEAR STUD (6 TYP.)

At SECTION C-C: changed 7/8” DIA. x 5” LONG SHEAR STUD (TYP. 6) *to* 7/8” DIA. x 4” LONG SHEAR STUD (6 TYP.)

Revised 06-09-2003

At FRONT ELEVATION – OPTION 2:

- Changed 7/8" DIA. x 5" LONG HEADED SHEAR STUD (TYP. 6) to 7/8" DIA. x 5" LONG SHEAR STUD (TYP. 6)
- Added note ③ to weld symbol

At SECTION C-C: changed 7/8" DIA. x 5" LONG HEADED SHEAR STUD (TYP. 6) to 7/8" DIA. x 5" LONG SHEAR STUD (TYP. 6)

Under NOTES: added note ③ THE REQUIREMENTS FOR WELDING STUDS SHALL COMPLY WITH AASHTO/AWS D1.5.

Revised 04-29-2003

Added Option 2 allowing six shear studs in place of the two square bars.

Under NOTES: added WELDED STUDS TO BE WELDABLE CARBON STEEL PER Mn/DOT SPEC. 3391.2D.

Approved, and signed, November 22, 2002.