

B355

Curved Plate Bearing Assembly (Steel Beams) (Expansion)

Approved, and signed, December 2, 2020. Last date revised: December 21, 2022.

Revised 12-21-2022

At DESIGN DATA block:

- Removed the "Design Data Block" from the lower right corner of the detail. The information that was included in the Design Data Block has been added to the MnDOT LFRD Bridge Design Manual.

Re-Approved 12-02-2020

At PLAN:

- At the request of fabricators/galvanizers, changed the note: "½" dia. hole in bearing plate for handling" to "¾" dia. hole in bearing plate for handling".

Under NOTES:

- Within the notes: Changed the term "per spec." to "in accordance with spec." in all instances.

Revised 11-08-2018

Under NOTES:

- Changed numbered note ⑤ *from* "Refer to bearing pad restraint sheet for additional information and details" *to* "Refer to bearing pad restraint B-Detail for additional information and details".

Revised 11-02-2017

Under NOTES:

- Changed numbered note ⑤ to read: Refer to bearing pad restraint sheet for additional information and details.

At SECTION Y-Y:

- Changed the note *from*: Welded Bar (Typ.) ⑤ *to*: Restraint Bar (Typ.) ⑤.
- Removed the weld symbol pointing to the restraint bar.

At the SIDE ELEVATION and SECTION X-X:

- Added the restraint bars under the bearing plate.

Added DESIGNER NOTE:

- Per note ⑤ include B307 and modify as necessary.

Updated the DESIGN DATA box to read:

- MAX. FACTORED SHEAR RESISTANCE:
- 50.3 KIPS PER 1½" DIA. PINTLE

At the bearing TABLE:

- Rotated the column titles for Shape Factor & Pintle Dia. and slightly adjusted other columns to acquire width space for table.
- Added the RESTRAINT PATTERN column along with numbered note ⑤.

Revised 11-03-2015

At BEARING PLATE DETAIL:

- Changed from welded "keeper" studs" to a welded "keeper" bar.
- Added the 3/16" fillet weld symbol to the welded bar on the lower left side of the detail.
- Changed the "Welded Stud ⑤" *to* "Welded Bar (Typ.) ⑤"

Under NOTES:

- Changed all notes to "Active Voice" if needed.
- Changed numbered note ⑤ to read: 3/8" x 3/8" bar installed on bearing plate around perimeter of bearing pad. Bar length is 2" less than adjacent pad dimension, centered on pad. Centerline of bar to edge of pad dimension = 1/2".

Revised 12-17-2008

Under NOTES: Minor spelling correction to note ⑤.

Revised 08-10-2006

Under NOTES: Revised ① *from* THE RADIUS OF THE CURVED PLATE SHALL BE 1'-4" MINIMUM AND 2'-0" MAXIMUM UNLESS OTHERWISE SPECIFIED IN THE TABLE. FINISH TO ... *to* THE MIN. RADIUS SHALL BE 16" UNLESS OTHERWISE SPECIFIED IN THE TABLE. THE MAX. RADIUS SHALL BE 24". FINISH TO ...