

Standard Drawing Guidance (do not show on plans):

- In the available space, draw the elevation of the left barrier showing:
- Span ranges.
 - All horizontal #5-R bars in each span with all specified by bar marks.
 - First & last vertical #5-R bars dimensioned with total number in barrier.
 - All joints (as joint-filler joints) and centerlines with one centerline labeled as:
 - ⊕ 1/4" Joint (Barrier only) (Typ.)

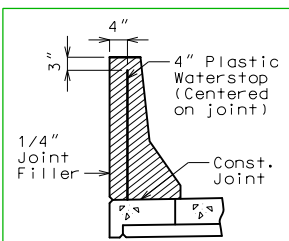
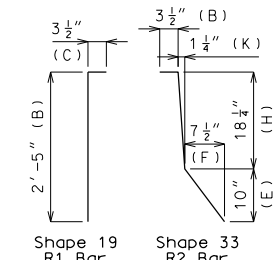
Adjust longitudinal dimensions note under elevation title as necessary.

If right barrier differs from left (typical with curved bridges), show both Elevation of Left Barrier and Elevation of Right Barrier. The longitudinal dimensions note can be relocated as the first note under the General Notes.

Dimensions are based on a 2.0%-sloped deck. Modify accordingly in Section A-A and the 2.27 sq. ft. area in Section A-A for superelevated decks.

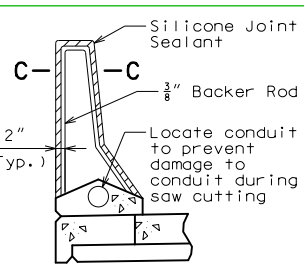
If conduit is required, indicate left or right or both barriers in a note.

- For barrier ending at end of slab:
 - Exclude "(except at end bents)"
 - Revise measurement to "end of slab to end of slab".
- Plastic waterstop detail and notes are required for all grade separations except over railroads and county roads. Remove if not required.
- Subtract 1/8" for a 3/16"-per-foot sloped deck.

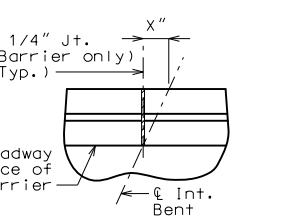
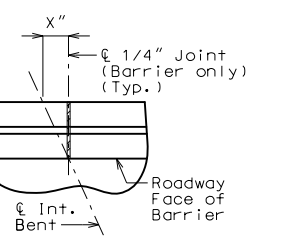


WATERSTOP DETAIL
 Plastic waterstop shall be placed in all formed joints, except structures with superelevation, use on lower joints only.
 Cost of plastic waterstop, complete in place, will be considered completely covered by the contract unit price for Type B Barrier.

(Use for grade separations)

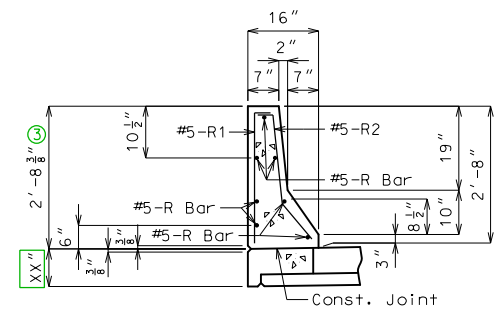
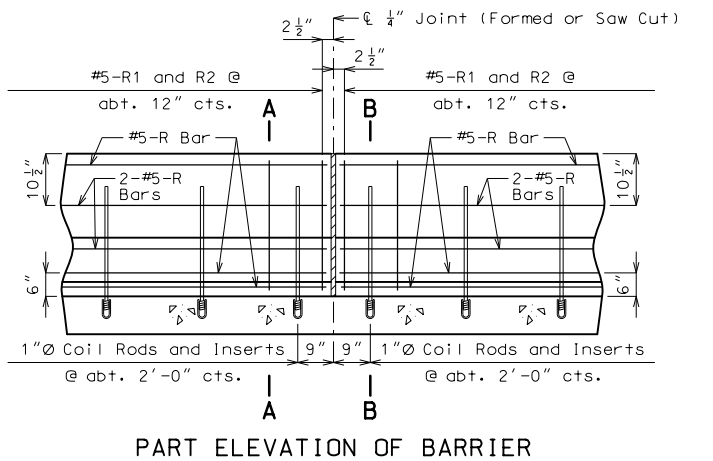
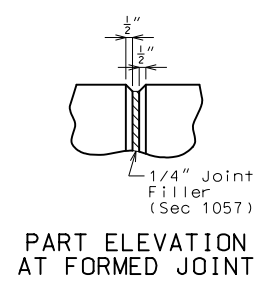
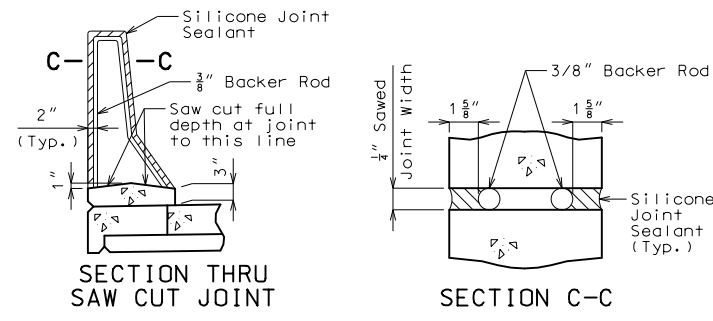


SECTION THRU SAW CUT JOINT
 (Use when conduit is required)

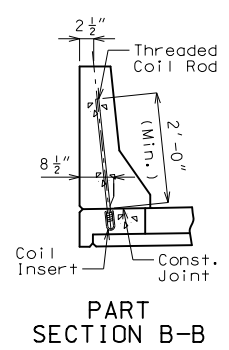


PART PLAN SHOWING JOINT LOCATION

ELEVATION OF BARRIER
 (Left barrier shown, right barrier similar)
 Longitudinal dimensions are horizontal.



SECTION A-A
 Use a minimum lap of 3'-1" for #5 horizontal barrier bars.
 The cross-sectional area above the slab is 2.27 square feet.



PART SECTION B-B

TYPE B BARRIER

General Notes:

- Conventional forming shall be used, and saw cut joints may be used.
- Top of barrier shall be built parallel to grade with barrier curb joints (except at end bents) normal to grade.
- All exposed edges of barrier shall have either a 1/2-inch radius or a 3/8-inch bevel, unless otherwise noted.
- Payment for all concrete and reinforcement, complete in place, will be considered completely covered by the contract unit price for Type B Barrier per linear foot.
- Concrete in the barrier shall be Class B-1.
- Measurement of barrier is to the nearest linear foot for each structure, measured along the outside top of slab from end of wing to end of wing.
- Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type B Barrier.
- Joint sealant and backer rods shall be in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.
- Plastic waterstop shall not be used with saw cut joints.
- Coil inserts shall have a concrete ultimate pullout strength of not less than 36,000 pounds in 5,000 psi concrete and an ultimate tensile strength of not less than 36,000 pounds.
- Threaded coil rods shall have an ultimate capacity of 36,000 pounds. All coil inserts and threaded coil rods shall be galvanized in accordance with AASHTO M 232 (ASTM A153), Class C.
- Payment for furnishing and installing coil inserts and threaded coil rods will be considered completely covered by the contract unit price for Type B Barrier.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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| DATE PREPARED 9/20/2021 | |
| ROUTE * | STATE MO |
| DISTRICT BR | SHEET NO. * |
| COUNTY * | |
| JOB NO. * | |
| CONTRACT ID. | |
| PROJECT NO. | |
| BRIDGE NO. BAC07 | |
| DESCRIPTION | DATE |
| MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION | 105 WEST CAPITAL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636) |