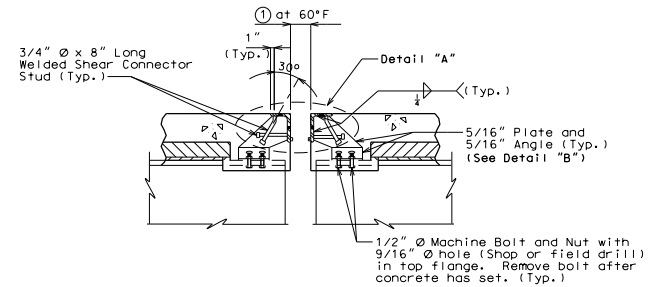
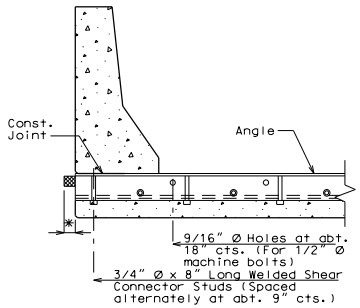


PART SECTION A-A



PART SECTION B-B

✳ Extend preformed compression joint seal 3" past the edge of slab (Typ.)

GENERAL NOTES:

Expansion joint system shall be fabricated in one section, except for stage construction and when the length is over 50 feet. A complete joint penetration groove welded splice shall be required. Welds shall be ground flush to provide a smooth surface. The expansion joint system shall be fabricated and installed to the crown and grade of the roadway.

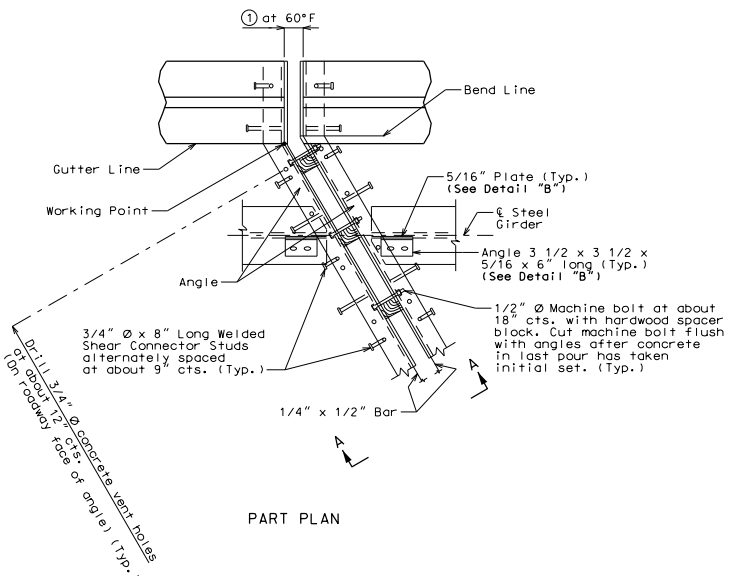
Plan dimensions are based on installation at 60°F. The expansion gap and other dimension shall be increased or decreased ___" for each 10° fall or rise in temperature at installation. ③

Structural steel for the expansion joint system shall be ASTM A709 Grade 36. Anchors for the expansion joint system shall be in accordance with Sec 1037. Preformed compression seal expansion joint systems shall be in accordance with Sec 717.

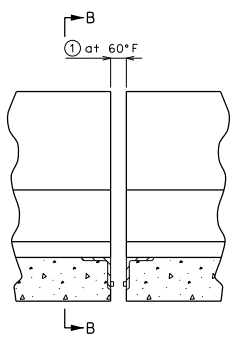
Structural steel for the expansion joint system shall be coated with a minimum of two coats of inorganic zinc primer (5 mils minimum) or galvanized in accordance with ASTM A123. Anchors need not be protected from overspray.

Concrete shall be forced under armor angle and around anchors. Proper consolidation of the concrete shall be achieved by localized internal vibration.

Longitudinal reinforcing steel shall be placed so that ends shall not be more than ±1" from vertical leg of angle at the expansion joint system.



PART PLAN



PART ELEVATION OF BARRIER CURB

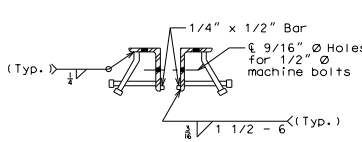
STANDARD DRAWING GUIDANCE (do not show on plans):

For slab thickness < 8 1/2", check shear connector stud length for clearance to flange or diaphragm and adjust length as necessary. See Structural Project Manager.

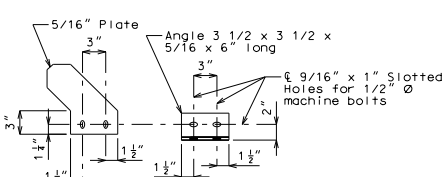
① Do not replace. Highlight applicable row or remove non-applicable rows in table.

② Do not replace. Highlight applicable row or remove non-applicable rows in table.

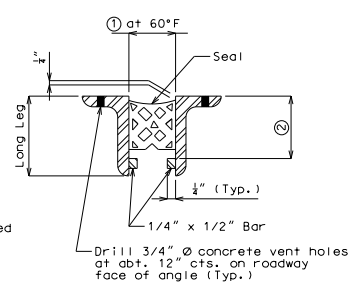
③ Installation gap temperature adjustment normal to the joint.



DETAIL "A"



DETAIL "B"



PART CROSS SECTION THRU EXPANSION JOINT

TABLE OF TRANSVERSE BRIDGE SEAL DIMENSIONS			
Seal (Width)	①	②	Required Movement Range
2.5"	1 5/8"	Manufacturer's Recommended Height	0.9"
3.0"	1 7/8"	Manufacturer's Recommended Height	1.0"
3.5"	2 1/4"	Manufacturer's Recommended Height	1.3"
4.0"	2 5/8"	Manufacturer's Recommended Height	1.6"
4.5"	2 3/4"	Manufacturer's Recommended Height	1.9"
5.0"	2 7/8"	Manufacturer's Recommended Height	2.0"

Note: Depth of seal shall not be less than width of seal.

Size of armor angle: Vertical leg of angle shall be a minimum of ② + 3/4". Horizontal leg of angle shall be a minimum of 3". Minimum thickness of angle shall be 1/2".

If a seal size larger than that indicated on the plans is used, the movement range, the opening at 60°F and all dimensions for the armor angles shall be shown on the shop drawings.

DETAILS OF PREFORMED COMPRESSION JOINT SEAL AT INT. BENT NO.

Detailed
Checked

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

Sheet No. of

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
9/15/2011	
ROUTE	STATE
✳	MO
DISTRICT	SHEET NO.
BR	✳
COUNTY	
✳	
JOB NO.	
✳	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
CJS 12	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

REV.