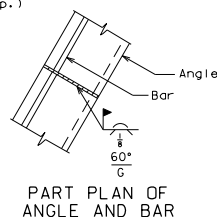


Diagram illustrating a road cross-section. The road surface is inclined at an angle of 60° to the horizontal. The vertical distance from the road surface to the top of the slope is labeled G . The horizontal distance from the road surface to the top of the slope is labeled 60° . The road surface is labeled "roadway" and "gate".

PART SECTION B-B



VERTICAL PLATE

1/2" Bevel Barrier Curb Bent Plate

Shop or Field Weld $\frac{5}{16}$

Roadway Plate (12" x 7/8")

Expansion Device Plate

3/4" \varnothing Concrete Vent

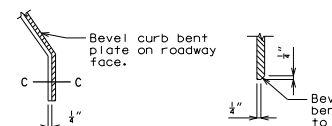
Holes at abt. 12" cts.

3/4" \varnothing x 8" Long Welded Shear Connector

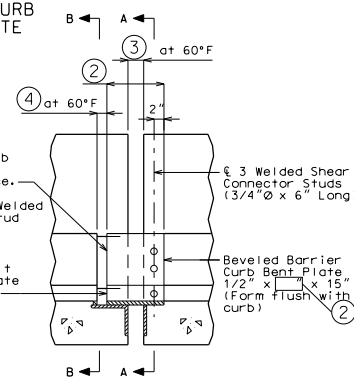
Studs (Spaced alternately at abt. 9" cts.)

PART ELEVATION
AT END OF
BEVELED CURB
BENT PLATE

SECTION C-C



PART ELEVATION
AT END OF
BEVELED CURB
BENT PLATE



ELEVATION OF BARRIER CURB

Expansion device shall be fabricated in one section, except for stage construction and when the length is over 50 feet. A complete joint penetration groove weld splice shall be required. Welds shall be ground flush to provide a smooth surface. The expansion device 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 dimensions shall be
increased or decreased for each 10° fall or rise
in temperature at installation.

Material for the expansion device shall be ASTM A709 Grade 36 structural steel. Anchors for the expansion device shall be in accordance with Sec 1037.

Structural steel for the expansion device and curb plate 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.

Payment for furnishing, coating or galvanizing and installing the structural steel for the expansion device will be considered completely covered by the contract unit price for Expansion Device (Flat Plate) per linear foot.

Concrete shall be forced under and around flat plate, anchors and angles. Proper consolidation shall be achieved by localized internal vibration. Finishing of the concrete shall be achieved by hand finish within one foot of the expansion device. The vertical and horizontal concrete vent holes shall be offset from each other. Do not alternate holes at the 12" spacing.

Longitudinal reinforcing steel shall be placed so that ends shall not be more than 1" from vertical plate and the vertical leg of the angle at the expansion device.

Complete joint penetration welds utilized in the fabrication of the expansion device shall be nondestructively tested by an approved method.

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

DATE PREPARED	
11/13/2012	
ROUTE	STATE
*	MO
DISTRICT	SHEET NO
BR	*
COUNTY	
*	
JOB NO.	
*	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
FPF 14	

[illegible]

**MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION**

MoDOT

105 WEST CAPITAL
JEFFERSON CITY, MO 65102



105 WEST CAPITOL
JEFFERSON CITY, MO 65102