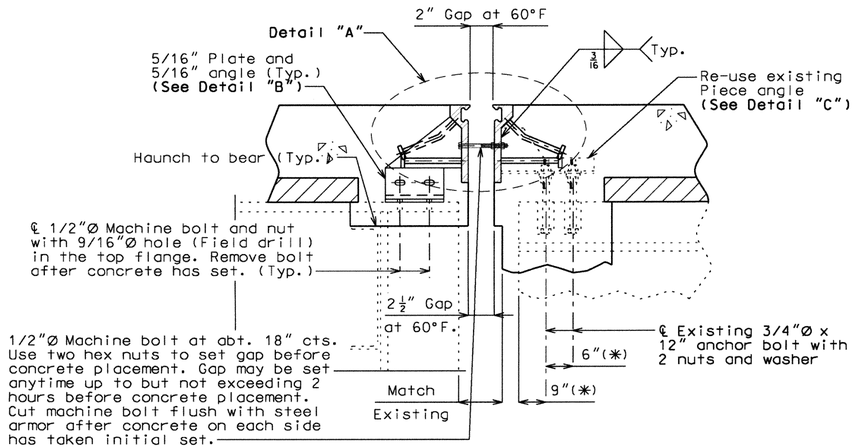
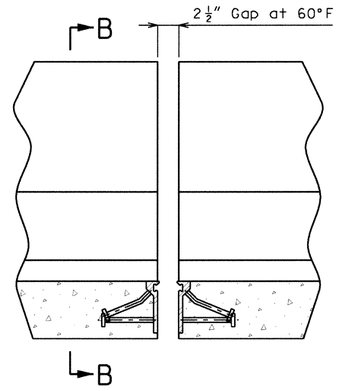


SECTION A-A

Notes: Strip seal gland not shown for clarity.
(*) Dimension along ℄ Girder per existing bridge plans.



PART ELEVATION OF BARRIER CURB

Note: Strip seal gland not shown for clarity.

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.

The strip seal gland shall be installed in joints in one continuous piece without field splices. Factory splicing will be permitted for joints in excess of 53 feet.

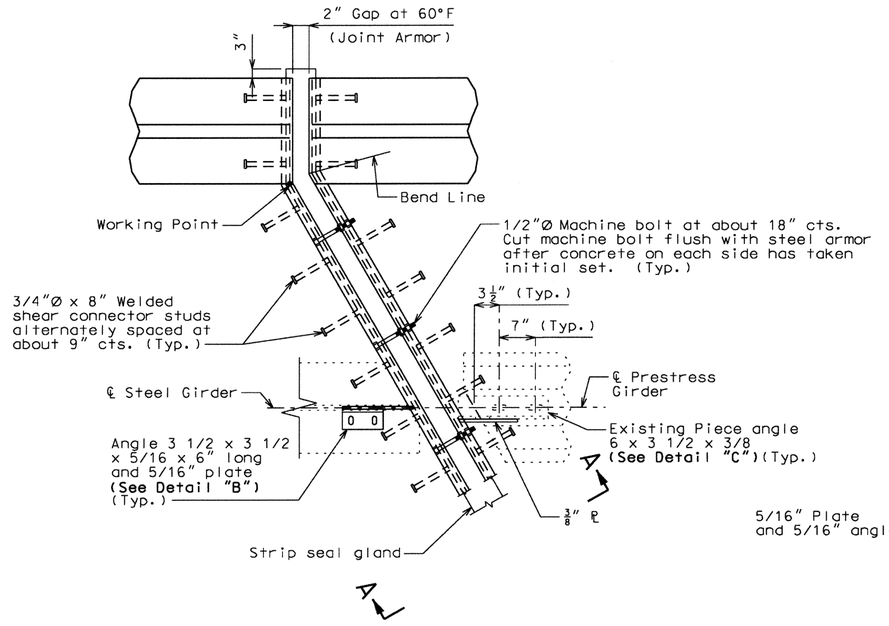
Structural steel for the expansion joint system shall be ASTM A709 Grade 36 except the steel armor may be ASTM A709 Grade 50W. Anchors for the expansion joint system shall be in accordance with Sec 1037. Strip seal expansion joint system shall be in accordance with Sec 717.

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.

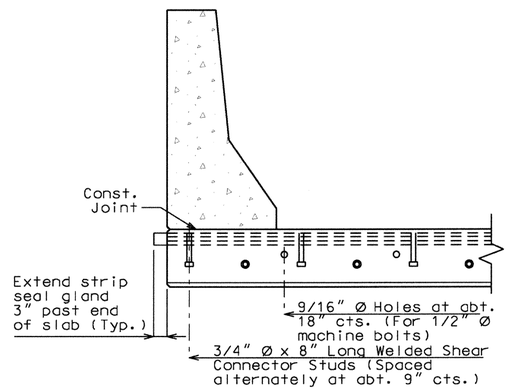
Plan dimensions are based on installation at 60°F. The expansion gap and other dimensions shall be increased or decreased 1/4" for each 10° fall or rise in temperature at installation.

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

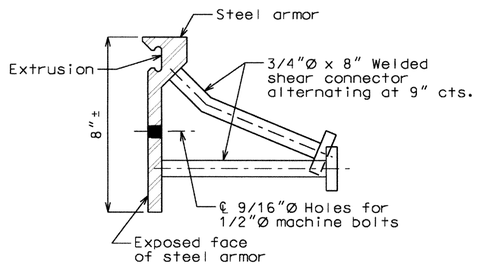
Concrete shall be forced under and around steel armor and anchors. Proper consolidation of the concrete shall be achieved by localized internal vibration.



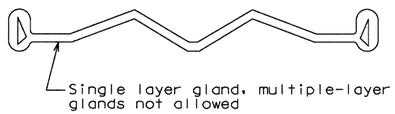
PART PLAN



PART SECTION B-B

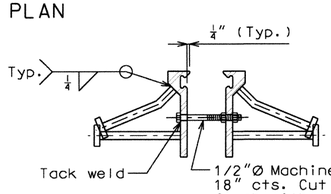


DETAIL OF JOINT ARMOR

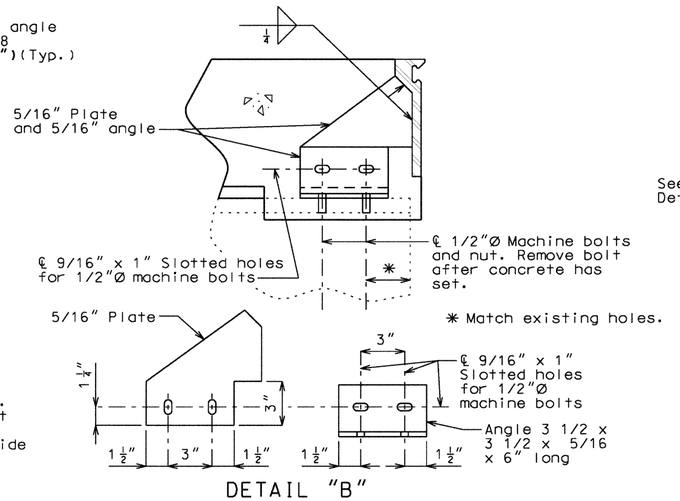


Strip seal gland size = 4"

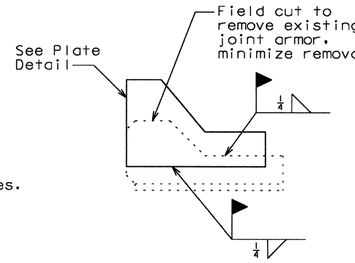
DETAIL OF GLAND



DETAIL "A"



DETAIL "B"



DETAIL "C"

Note: Re-use existing piece of angle and field weld new plate.

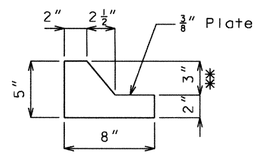


PLATE DETAIL

** Contractor shall adjust as necessary for proper fit-up.

DETAILS OF STRIP SEAL AT INTERMEDIATE BENT NO. 4

Designed: CBW
Detailed: CAB
Checked: TPL

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

STATE OF MISSOURI THOMAS P. LOHMAN NUMBER PE-2009037171 PROFESSIONAL ENGINEER
4.29.2014

DATE PREPARED 4/29/2014
ROUTE 30 | STATE MO
DISTRICT BR | SHEET NO. 4
COUNTY JEFFERSON
JOB NO. WBA4629A
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A46291

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
MoDOT
HORNER & SHIFRIN, INC. ENGINEERS
5200 OAKLAND AVE. ST. LOUIS, MO 63110-1490
314-531-4321 FAX: 314-531-0586
Missouri Certificate of Authority 000159
Disciplines: Professional Engineering
Expiration Date: December 31, 2014