MISSOURI STATE HIGHWAY DEPARTMENT

BORING DATA

Note: For location of borings see sheet No. 1 of 2.

Clay

Clay and gravel.

Weathered dolomite, cut with rock bit.

Medium to thick bedded, pinkish gray, chalky dolomite.

Brown clay.

Gravel.

Gravel and clay.

Dolomite, cut with rock bit.

Hand, medium bedded, chalky dolomite.

Dolomite.

Dolomite.

Dolomite, cut with rock bit.

Hand, gray with reddish gray, medium to thick bedded, chalky dolomite.

Dolomite.

Dolomite.

Clay and gravel.

Clay and gravel.

Hard, gray, thick bedded, dolomite.
PLAN OF STRUCTURAL STEEL

Note: Longitudinal dimensions shown are taken parallel to grade of crown of roadway.

PART LONGITUDINAL SECTION NEAR INTERIOR STRINGER

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

Sheet No. 6 of 12

POLK COUNTY
A3029
NOTES: TYPE "D" BEARINGS
Lead plates under bearings shall be approximately 1/8" thick and weight .07 lb. per sq. ft. Cost of lead plates shall be included in price bid for other items. Additional weight does not include weight of anchor bolts. Anchor bolts for type "D" bearings shall be 1/2" diameter with a hole for fixing. Fixed bearings no nails. For Expansion Bearing "F" indicates machine finish surface.

WELDING DETAILS

TYPE "D" BEARINGS
(Estimated Weight 750p)

NOTES: TYPE "C" BEARINGS
Lead plates under bearings shall be approximately 1/8" thick and weight .07 lb. per sq. ft. Cost of lead plates shall be included in price bid for other items. Additional weight does not include weight of anchor bolts. Anchor bolts for type "C" bearings shall be 1/2" diameter with a hole for fixing. Fixed bearings no nails. For Expansion Bearing "F" indicates machine finish surface.

WELDED FIELD SPlice

DETAILS OF SHEAR CONNECTORS
Note: 1/4" holes, 1/4" Rods, 1/2" Field Splices. Field Splices may be field notched or field bevelled. Note: See Sheet No. 12. bolts for spacing and location of shear Connectors.

POLK COUNTY
3-3029
MISSOURI STATE HIGHWAY DEPARTMENT

SECTION A-A

Roadway Face of Curb
Fill with sealant
Anchor
Expansion Joint

PART PLAN

SECTION THRU CURB

Note: The expansion joint shall be set anchored, bonded and sealed as recommended by the manufacturer in accordance with Special Provisions. Anchors shall be core expansion type. Payment for furnishing and installing the expansion joint, including anchor bolt assembly, shall be made under unit price bid per linear foot.

Reciprocally locate the holes spacing 3½" stud (expanding anchor type) on both sides of the expansion joint at a distance of 3½" from the edge of the concrete and sealed at 3½" on center after concrete placement. Layout transverse hole spacing along the shear line in accordance with the slab spacing and the Fig. 1371 as shown on the sheet. Note that the holes are approximately equidistant and spaced 3½" on center. Holes shall be drilled, and anchor bolts set until the concrete is at least 7 days old.

First section of expansion joint shall be installed starting at a distance of 3½" from the edge. Wait 48 hours. Tighten in 3½" increments, but do not exceed 50% of the total turn. Wipe the beads with silicone and deposit 4" of steel expansion joint to the joint gap. Sacrifice all excess shown.

DETAILED SHOWING TYPICAL LAYOUT FOR HOLE SPACING

PART PLAN SHOWING TYPICAL LAYOUT FOR HOLE SPACING

- 3½" Holes (6 pcs)

- 1" Holes (5pcs)

- 2½" Spacing (6pcs)

- 4½" Spacing (6pcs)

WELDING DETAILS

Note: Plan dimensions are based on installation of 6" expansion joint with 1½" joint gap. See Special Provisions for installation of the above table. See Special Provisions.

DETAILED SHOWING TYPICAL LAYOUT FOR HOLE SPACING

PART PLAN SHOWING TYPICAL LAYOUT FOR HOLE SPACING

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WELDING DETAILS

Note: Plan dimensions are based on installation of 6" expansion joint with 1½" joint gap. See Special Provisions for installation of the above table. See Special Provisions.
MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

GENERAL NOTES:
- DESIGN UNIT STRESSES:
  - Gross R1 Concrete Fy = 4,000 psi
  - Reinforcing Steel Grade 60 fy = 60,000 psi

OLD WORK:
- Cutting of old work is indicated by light dotted lines. Heavy lines indicate new work.

VERIFY DIMENSIONS:
- Contractor shall verify all dimensions in field before ordering new steel.

BASE WORK:
- Base work in and concrete slab base shall be properly aligned and supported to prevent settlement of slab. The slab base shall be washed clean of all visible dirt and dust before permitting the placing of concrete.
- Provide smooth or 30 mm diameter for deformed bars, otherwise rebar.

MIXTURE OF TRAFFIC:
- Maintain one lane of traffic on structure during construction.

PLAN DIMENSIONS:
- Plan dimensions are based on installation at 0.0. Error in expansion gap and other dimensions must be adjusted during installation for compliance with any temperature change.

REPAIR ANCHOR SYSTEM:
- The contractor shall use one of the repair anchor systems listed in the job specifications.
- The repair anchor system shall be installed in accordance with the manufacturer's specifications, unless otherwise indicated by the general specifications.
- Cost of furnishing and installing the repair anchor system complete in place shall be included in the price bid for "Strip Seal Expansion Joint System".
- The duct anchor system shall have a minimum ultimate pullout strength of 2,000 lbs. in concrete with 2,500 psi.

ESTIMATED QUANTITIES

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<th>ITEM</th>
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NOTE: Cost of metal pipe and reinforcing steel required to replace removed expansion joint components shall be included in this bid for "Modification of Existing Expansion Joint".

NOTES FOR STRIP SEAL:
- The Expansion Joint shall be fabricated and installed in accordance with the recommendations of the manufacturer, and as set forth in the Special Provisions.
- All steel shall conform to Section 712 of the Standard Specifications.
- All steel shall be AISI, except metal extrusions shall be A36.
- Payment for steel extrusions, Epoxymer Concrete, furnishing, painting, cleaning, and applying structural steel plates and extrusions shall be made under the contract unit price for "Strip Seal Expansion Joint System".

REPAIRS TO BRIDGE OVER DRY SAC RIVER
STATE ROAD FROM CEDAR VISTA TO GREENE COUNTY LINE ABOUT 0.5 MILE N. OF GREENE COUNTY LINE
PROJECT NO. G086-S000-B010 STA. 704121.50
R08 NO. J8509013 RTE. 13

DETAIL OF STEEL EXTRUSION

DETAILS OF STRIP SEAL EXPANSION DEVICE NEAR BENT NO. 1 & NO. 8.

DETAILS OF STRIP SEAL EXPANSION DEVICE NEAR BENT NO. 1 & NO. 8.
NOTE: THIS DRAWING IS NOT TO SCALE. FOLLOW DIMENSIONS.

DATE 11/11/96

SEW FIRST PRINTS
SECTION NEAR EXPANSION SYSTEMS

ELEVATION A-A

ELEVATION B-B

PART PLAN OF DRAIN ATTACHMENT BENT NO. 1

PART PLAN OF DRAIN ATTACHMENT BENT NO. 8

DETAILS OF DRAIN AT EXPANSION DEVICE NEAR END BENT NO. 1 & 8
(RIGHT SIDE SHOWN, LEFT SIDE OPPOSITE)

NOTE: Dimensions shall be increased 1/4" for each 10°F increase in temperature and decreased 1/4" for each 10°F decrease in temperature at installation.

NOTE: Curb shall be centered at top of slab.

NOTE: For details and reinforcement of parapet & curb see sheet no. 3.

NOTE: This drawing is not to scale. Follow dimensions.
NOTES FOR EXPANSION DEVICE DRAIN:

Drainage may be fabricated of either 1/2" HDG steel or from 1/2" structural steel trimmed to 1/2" HDG steel or from 1/2" structural steel trimmed to 1/2" HDG steel.

Outside dimensions of Drain are 8" x 8".

Drain and Drilled Assembly shall be galvanized in accordance with A.S.T.M. A595.

All Bolts, Nuts, Washers and Washers shall be galvanized in accordance with A.S.T.M. A595.

Preparation for manufacturing and installing Expansion Device Drains & Basin Anchor Systems shall be in accordance with the manufacturer's instructions.

The contract unit price bid for "Drop Inlet Expansion Joint System".

PLAN OF DRAIN AT END BEINTS

ELEVATION OF DRAIN AT END BENT NO. 1

ELEVATION OF DRAIN AT END BENT NO. 8

DETAILS OF EXPANSION DEVICE DRAIN AT BENTS NO. 1 & 8

(RIGHT SIDE SHOWN, LEFT SIDE OPPOSITE)

NOTE: Side Drain shall be centered on top of Side Expansion Joint a 60' F.

DETAILED JAN. 1994
CHECKED APRIL 1994

NOTE: THIS DRAWING IS NOT TO SCALE. FOLLOW DIMENSIONS.

POLK COUNTY A30291
MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SECTION THRU SLAB

BENDING DIAGRAM

STRIP SEAL GLAND MOVEMENT RATING 4-

DETAIL OF STEEL EXTRUSION

PART SECTION THRU MODIFICATION AT EXISTING EXPANSION DEVICE

STATE

REPAIRS TO BRIDGE
OVER DRY SAC RIVER
STATE ROAD FROM EDWARDSTOWN TO GREENE COUNTY LINE
ABOUT 0.5 MILE N. OF GREENE COUNTY LINE
PROJECT NO. G011-120-001 PPA STA. 701 + 21.50
JOB NO. J200819
RITE, 13

NOTE: This drawing is not to scale. Follow dimensions. SHEET NO. 1 OF 3

DATE: FILLING

DETAILED JAN. 1994
CHECKED: APRIL 1994

DETAILED: JAN. 1994

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NOTE: Cost of B1 concrete & reinforcing steel required to replace removed control in curb and parapet shall be included in cost for "Modification of Existing Expansion Joint".

NOTES FOR STRIP SEAL:
The Expansion Device shall be fabricated and installed in accordance with the recommendations of the manufacturer, and as set forth in the Special Provisions. All steel to conform to Section 712 of the Standard Specifications.

All steel shall be A36, except steel extrusions shall be A572 Grade 50 or A36.

Approval for these extrusions, concrete Gratings, grating covers, and other stainless steel products and extrusions shall be made under the contract with the manufacturer for Strip Seal Expansion Joint System.

REPAIRS TO BRIDGE
OVER DRY SAC RIVER
STATE ROAD FROM EDWARDSTOWN TO GREENE COUNTY LINE
ABOUT 0.5 MILE N. OF GREENE COUNTY LINE
PROJECT NO. G011-120-001 PPA STA. 701 + 21.50
JOB NO. J200819
RITE, 13

NOTE: This drawing is not to scale. Follow dimensions. SHEET NO. 1 OF 3

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CHECKED: APRIL 1994

DETAILED: JAN. 1994

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Approval for these extrusions, concrete Gratings, grating covers, and other stainless steel products and extrusions shall be made under the contract with the manufacturer for Strip Seal Expansion Joint System.

DETAILED JAN. 1994
CHECKED: APRIL 1994

DETAILED: JAN. 1994

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DETAILED JAN. 1994
CHECKED: APRIL 1994

DETAILED: JAN. 1994

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DETAILED JAN. 1994
CHECKED: APRIL 1994

DETAILED: JAN. 1994

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DETAILED JAN. 1994
CHECKED: APRIL 1994

DETAILED: JAN. 1994

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Approval for these extrusions, concrete Gratings, grating covers, and other stainless steel products and extrusions shall be made under the contract with the manufacturer for Strip Seal Expansion Joint System.

DETAILED JAN. 1994
CHECKED: APRIL 1994

DETAILED: JAN. 1994

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Approval for these extrusions, concrete Gratings, grating covers, and other stainless steel products and extrusions shall be made under the contract with the manufacturer for Strip Seal Expansion Joint System.
MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION
U.I.P. EXISTING (34'−5 @ 42'−34") CONTINUOUS COMP. WF BEAM SPANS

SECTION THRU EXISTING SLAB

PART SECTION THRU EXPANSION JOINTS AT BENTS NO. 1 & 8

GENERAL NOTES:
Design Specifications:
2002 - ASHRAE 17th Edition

Miscellaneous:
Maintain one lane of traffic on structure during construction. See roadway plans for traffic control.
"Seal" refers to the sections in the standard and supplemental specifications unless specified otherwise.
Outline of old work is indicated by dashed lines. Heavy lines indicate new work.
Contractor shall verify all dimensions in field before ordering new materials.
The contractor shall excavate core to ensure spillover over joint edges is prevented and that a neat line is obtained along any terminating edge of the epoxy polymer concrete.

TYPICAL ELEVATION OF EXISTING CURB SHOWING OUTLET

TYPICAL SECTION OF EXISTING CURB SHOWING OUTLET

<table>
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<th>Item</th>
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<tbody>
<tr>
<td>Epoxy Polymer Concrete Overlay</td>
<td>sq. yd.</td>
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REPAIRS TO BRIDGE OVER DRY SAC RIVER
STATE ROAD FROM RTE. N SOUTH TO GREENE COUNTY LINE
ABOUT 0.5 MILES N.E. OF GREENE COUNTY LINE
PROJECT NO. STA. 70+81.554 (Watch Exipt.)
JOB NO. J9P0988
RTE. 12 SRL

POLK COUNTY A30292

Detailed Nov. 2004
Checked Dec. 2004

Notes: This drawing is not to scale. Follow dimensions. Sheet No. 1 of 1

http://projectdata.dott.mo.gov/A30292/A30292_01.pdf 11/30/18 AM 03/22/2018
MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION
U.I.P. EXISTING (34'-5" @ 42'-34") CONTINUOUS COMP. WF BEAM SPANS

SECTION THRU EXISTING SLAB

TYPICAL ELEVATION OF EXISTING CURB SHOWING OUTLET

GENERAL NOTES:

Design Specifications:
2002 - AASHO 11th Edition

Miscellaneous:
Maintain one lane of traffic on structure during construction. See roadway plans for traffic control.

"Sec" refers to the sections in the standard and supplemental specifications unless specified otherwise.

Outline of old work is indicated by dashed lines. Heavy lines indicate new work.

Contractor shall verify all dimensions in field before ordering new materials.

The contractor shall exercise care to ensure spillage over joint edges is prevented and that a neat line is obtained along dry terminating edge of the epoxy polymer concrete.

Estimated Quantities

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<th>Epoxy Polymer Concrete Overlay</th>
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<td>sq. yd 0'</td>
<td>1.244'</td>
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REPAIRS TO BRIDGE OVER DRY SAC RIVER
STATE ROAD FROM RTE. W SOUTH TO GREENE COUNTY LINE
ABOUT 0.5 MILES N.E. OF GREENE COUNTY LINE
PROJECT NO. STA. 701421-50+ (Wash Extant.)
JOB NO. JBP0768
RTE. 13 SBL

POLK COUNTY

A30292

9/15/2005
PART PLAN SHOWING CONCRETE REMOVAL AT END BENTS NO. 1 & 8

Notes: 4 Hydro-demolition methods may be used for these concrete removals.

PART ELEVATION SHOWING END POST CONCRETE REMOVAL

PART ELEVATION SHOWING CLEAN AND EPOXY SEAL AND PLUGGING OF CURB OUTLETS

Note: Cost of removing existing and pants will be considered completely covered by the contract unit price for curb. Blockout, Cost or removing existing curb and pant are expansion joint replacement will be considered completely covered by the contract unit price for Remove and Replace Curb and Pantel.

SECTION THRU END BENTS NO. 1 & 8 SHOWING SUBSTRUCTURE REPAIR AND PROTECTIVE COATING

REHAB DETAILS

Note: This drawing is not 45 scale. Follow dimensions.
DETAILS OF LAMINATED NEOPRENE BEARING PAD ASSEMBLY AT END BENTS NO. 1 & 8

GENERAL NOTES:

1. All anchor bolts, cutters, and bearing pads shall be made of 55 ksi Grade 55 steel or equal. The anchor bolts shall be A325 Grade 55 steel and shall extend 1 1/2" into the concrete wall. The bearing pads shall be Type III or Type IV neoprene elastomeric bearing pads as required by the contract documents.

2. Expansion joints shall be provided as required by the contract documents.

3. The bearing pads shall be designed to provide a horizontal reaction force at the bearing plane.

4. The bearing pads shall be designed to provide a vertical reaction force at the bearing plane.

5. The bearing pads shall be designed to provide a moment reaction force at the bearing plane.

6. The bearing pads shall be designed to provide a shear force reaction at the bearing plane.

7. The bearing pads shall be designed to provide a rotational reaction force at the bearing plane.

8. The bearing pads shall be designed to provide a longitudinal reaction force at the bearing plane.

9. The bearing pads shall be designed to provide a transverse reaction force at the bearing plane.

10. The bearing pads shall be designed to provide a torsional reaction force at the bearing plane.

11. The bearing pads shall be designed to provide a vertical displacement at the bearing plane.

12. The bearing pads shall be designed to provide a horizontal displacement at the bearing plane.

13. The bearing pads shall be designed to provide a rotational displacement at the bearing plane.

14. The bearing pads shall be designed to provide a shear displacement at the bearing plane.

15. The bearing pads shall be designed to provide a moment displacement at the bearing plane.

16. The bearing pads shall be designed to provide a translational displacement at the bearing plane.

17. The bearing pads shall be designed to provide a transverse displacement at the bearing plane.

18. The bearing pads shall be designed to provide a torsional displacement at the bearing plane.

19. The bearing pads shall be designed to provide a vertical acceleration at the bearing plane.

20. The bearing pads shall be designed to provide a horizontal acceleration at the bearing plane.

21. The bearing pads shall be designed to provide a rotational acceleration at the bearing plane.

22. The bearing pads shall be designed to provide a shear acceleration at the bearing plane.

23. The bearing pads shall be designed to provide a moment acceleration at the bearing plane.

24. The bearing pads shall be designed to provide a translational acceleration at the bearing plane.

25. The bearing pads shall be designed to provide a transverse acceleration at the bearing plane.

26. The bearing pads shall be designed to provide a torsional acceleration at the bearing plane.

27. The bearing pads shall be designed to provide a vertical displacement at the bearing plane.

28. The bearing pads shall be designed to provide a horizontal displacement at the bearing plane.

29. The bearing pads shall be designed to provide a rotational displacement at the bearing plane.

30. The bearing pads shall be designed to provide a shear displacement at the bearing plane.

31. The bearing pads shall be designed to provide a moment displacement at the bearing plane.

32. The bearing pads shall be designed to provide a translational displacement at the bearing plane.

33. The bearing pads shall be designed to provide a transverse displacement at the bearing plane.

34. The bearing pads shall be designed to provide a torsional displacement at the bearing plane.

35. The bearing pads shall be designed to provide a vertical acceleration at the bearing plane.

36. The bearing pads shall be designed to provide a horizontal acceleration at the bearing plane.

37. The bearing pads shall be designed to provide a rotational acceleration at the bearing plane.

38. The bearing pads shall be designed to provide a shear acceleration at the bearing plane.

39. The bearing pads shall be designed to provide a moment acceleration at the bearing plane.

40. The bearing pads shall be designed to provide a translational acceleration at the bearing plane.

41. The bearing pads shall be designed to provide a transverse acceleration at the bearing plane.

42. The bearing pads shall be designed to provide a torsional acceleration at the bearing plane.