**SPECIAL NOTE FOR ELIMINATING TRANSVERSE JOINTS ON BRIDGES**

**1. DESCRIPTION.** Perform all work in accordance with the Kentucky Transportation Cabinet, Department of Highway’s Standard Specifications for Road and Bridge Construction and applicable Supplemental Specifications, the Standard Drawings (current editions), this Note, and the Attached Detailed Drawings. Section references are to the Standard Specifications. This work consists of the following: (1) Furnish all labor, materials, tools, and equipment, (2) Remove existing concrete and expansion device(s), (3) Place new concrete and steel reinforcement as specified and (4) Any other work specified as part of this contract. See attached detailed drawings.

**2. MATERIALS.**

**A. Class “M” Concrete.** Use either “M1” or “M2”. See Section 601.

**B. Epoxy Coated Steel Reinforcement.** Use Grade 60. See Section 602.

**C. Epoxy Bond Coat.** See Section 511.

**3. EQUIPMENT.**

**A. Hammer.** See Section 606.02.10 B.

**B.** **Sawing Equipment**. See Section 606.02.10 C.

**C. Hydraulic Impact Equipment.** See Section 606.02.10 D.

**4. CONSTRUCTION.**

**A. Remove Existing Materials.**  Remove the existing transverse joints, joint filler, and specified areas of concrete as shown on the plans or as directed by the Engineer. Clean and leave all existing steel reinforcement encountered in place. Damaged steel reinforcement will be repaired/replaced as directed by the Engineer at no additional cost to the Department.

Dispose of all removed material entirely away from the job site. This work is incidental to the contract unit price for "Eliminate Transverse Joint".

1. **Additional Steel Reinforcement.** Furnish for this work steel reinforcing bars as shown on the plans. Splice these bars to the existing longitudinal reinforcement in the deck and curb/sidewalk in the areas of removed concrete to tie the slabs together as shown on the plans. Ensure that all exposed steel reinforcement is tied in accordance with Section 602.03.04 prior to pouring the new Class “M” concrete.
2. **Place New Concrete.**  Blast-clean all areas of existing concrete and structural steel to come in contact with new concrete until free of all laitance and deleterious substances immediately prior to the placement of the Class "M" Concrete. The surface areas of existing concrete to come in contact with the new Class "M" Concrete are to be coated with an epoxy bond coat immediately prior to placing new concrete in accordance with Section 511. The interfaces of the new and old concrete shall be as nearly vertical and horizontal as possible. Place new Class "M" Concrete to the specified grade and finish to receive the new overlay or as shown on the plans. On the sidewalk and curb, place the new concrete to original grade and finish to match the existing curb/sidewalk. Repair all pavement striping that is disturbed.

**D. Stage Construction.** Installation of concrete in two (or more if specified) stages is necessary.

**E. Residual Lead.** Residual lead paint may still be on bridge. The Contractor is advised to take all necessary protective measures including worker safety and environmental regulations when performing surface preparation. The Department will not consider any claims based on residual lead paint.

**F. Verifying Field Conditions.** The Contractor shall field verify all dimensions before ordering any material. New material that is unsuitable due to variation in existing structure shall be replaced at the Contractors expense.

**G. Damage to the Structure.** The Contractor shall bear all responsibility and expense for any and all damage to the structure during the repair work even to removal and replacement of a fallen span, should the fallen span result from the Contractor’s actions.

**5. MEASUREMENT.**

**A. Eliminate Transverse Joint.** The Department will measure the quantity in linear feet from plinth to plinth perpendicular to the centerline of the bridge.

**B. Steel Reinforcement.**  See Section 602.

**6. PAYMENT.**

**A. Eliminate Transverse Joint (03300).** Payment at the contract unit price per linear foot is full compensation for furnishing equipment, labor, tools, and materials needed to complete removal and disposal of the specified existing materials, cleaning and straightening of existing steel reinforcement, furnishing and installing the concrete, repairing traffic striping and all incidental items necessary to complete the work within the specified pay limits as specified by this note and as shown on the attached detail drawings.

B. Epoxy Coated Steel Reinforcement (08151). See Section 602.