



**COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET**
Frankfort, Kentucky 40622
www.transportation.ky.gov/

Matthew G. Bevin
Governor

Greg Thomas
Secretary

April 20, 2017

CALL NO. 408
CONTRACT ID NO. 172955
ADDENDUM # 1

Subject: Knox County, 061GR17014
Letting April 28, 2017

- (1) Revised - Notes - Pages 16, 33, 35, 37 & 40 of 64
- (2) Added - Note - Pages 1-8 of 8

Proposal revisions are available at <http://transportation.ky.gov/Construction-Procurement/>.

If you have any questions, please contact us at 502-564-3500.

Sincerely,

A handwritten signature in cursive script that reads "Rachel Mills".

Rachel Mills, P.E.
Director
Division of Construction Procurement

RM:ks
Enclosures



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G. BRIDGE CLEANING AND PREVENTIVE MAINTENANCE

Surface Preparation: Remove all debris and clean all abutment, end bent and pier caps, pedestals, shear keys and abutment back walls and, **all** faces of parapet walls including abutment and end bent wing walls, **all deck drains and gutters 2'-0" each side of the bridge deck.** Cleaning shall be done with pressure washing equipment. Equip the pressure washer(s) with calibrated gage(s) and pressure regulators to ascertain and regulate water pressure. All equipment for pressure washing shall be operated at a minimum pressure of **4,500 psi** with fan tips and or 0 degree spinner tips as determined by the engineer at the working location with a minimum flow rate of 3.5 gal/minute provided that these pressures do not disturb intact existing coatings. Pressure and flow rates shall be reduced or increased to a level satisfactory to the Engineer should any existing intact coating is disturbed due to power washing procedures. The washing wand must be approximately perpendicular to the washed surface and within a maximum 12 inches of the surface. Wand extensions greater than 36 inches will be subject to Central Office Division of Construction approval. Use clean potable water for all pressure washing.

Concrete Coatings: All abutment, end bent and pier caps, pedestals and abutment and end bent back walls and all faces of parapet walls including abutment and end bent wing walls shall have concrete coating applied to after all debris are removed and power washing is complete. Use compressed air to remove any loose debris from the concrete surfaces that are to be coated after power washing. See concrete coating diagram. All coatings shall be applied within manufacturers recommended dry film thickness range. Comply with KYTC "Standard Specifications for Road and Bridge Construction" Section 614.03.02 and coatings supplier recommended conditions for application. Allow the surfaces to be coated to dry a minimum of 24 hours before any coating is applied. The coating must be applied within 72 hours of pressure washing. All coating application shall be executed using brushes, rollers, etc. **The sidewalk surface on the 061B00065N structure to be coated shall receive a non-skid surface as directed by the selected coating manufacture.** Spray application will be permitted if containment is in place for structural steel paint application. Use one of the following coating systems from the manufacture listed below shall be used. The Department requires acceptance testing of samples obtained on a per-lot basis per-shipment. The Division of Materials shall perform acceptance testing.

<u>Manufacture</u>	<u>Prime Coat</u>	<u>Finish Coat</u>
Sherwin Williams	Macropoxy 646	Acrolon 218 HS
PPG	Amberlock 2	Devco Devflex HP
Carboline -	Carboguard 890	Carbothane 133 HB
Tnemec -	Elastogrip 151	EnviroCrete 156

The finish coat shall be gray and will meet the following values.

	L*	a*	b*
Gray	74.94	- 1.54	3.92

See attached detailed drawings for concrete coating diagram for additional details

New structural steel shall receive shop surface preparation and shop applied prime coating as specified. Necessary touch up/repair of the shop applied prime coat on the new steel may be performed in the field. Intermediate and finish coatings shall be field applied as specified.

All items necessary to complete cleaning and painting as specified in this note shall be considered incidental to the unit price bid "Each" for Bearing Replacement.

G. Verifying Field Conditions.

The Contractor shall field verify all plate and shape dimensions, bolt patterns and locations before ordering any material. New material that is unsuitable due to variation in existing structure shall be replaced at the Contractors expense.

H. 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 the removal and replacement of a fallen span, should the fallen span result from the Contractors actions.

I. Order of work.

All bearing replacement work shall be completed before cleaning and painting work can start.

4. MEASUREMENT.

- A. Bearing Replacement.** The Department will measure the quantity as "Each" for Bearing Replacement"
- B. Jack and Support Bridge Span.** The Department will measure the quantity as "Lump Sum" for Jack and Support Bridge Span

5. PAYMENT.

- A. Bearing Replacement (21969NN).** Payment at the contract unit price for "Each" is full compensation for furnishing and installing all material as specified.
- B. Jack and Support Bridge Span (08435).** Payment at the contact "Lump Sum" includes all items necessary to jack and support bridge span as specified.

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 and other work. The Department will not consider any claims based on residual lead paint.

Fiberglass drain pipe shall receive the intermediate and finish coatings as specified.

All items necessary to complete cleaning and painting as specified in this note shall be considered incidental to the unit price bid "Each" for Deck Drain Retrofit.

D. Verifying Field Conditions.

The Contractor shall field verify all pipe and scupper coupling dimensions before ordering any material. New material that is unsuitable due to variation in existing structure shall be replaced at the Contractors expense.

E. 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 the removal and replacement of a fallen span, should the fallen span result from the Contractors actions.

F. Order of work.

All deck drain retrofit work shall be completed before cleaning and painting work can start.

4. MEASUREMENT.

Deck Drain Retrofit. The Department will measure the quantity for "Each" Deck Drain Retrofit.

5. PAYMENT.

Deck Drain Retrofit (24692EC). Payment at the contract unit price for "Each" is full compensation for furnishing and installing all material as specified.

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 and other work. The Department will not consider any claims based on residual lead paint.

- B. Place New Concrete and Armored Edges.** After all specified existing materials have been removed; place new armored edges to match the grade of the proposed overlay or to match the original grade (See attached detail drawings). Place the new Class “M” concrete to the scarified grade and finish to receive the new overlay or place the new Class “M” concrete to the original grade and finish with broom strokes drawn transversely from curb to curb. All new structural steel shall be cleaned and painted in accordance with requirements of Section 607.03.23, except that surfaces to come in contact with concrete are not to be painted. 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.
- C. Additional Epoxy Coated Steel Reinforcement.** Furnish for replacement, as directed by the Engineer, 400 linear feet of #4 steel reinforcing bars in 20' lengths. Place these bars in areas deemed by the Engineer to require additional reinforcement. Field cutting and bending is permitted. Do not place any additional steel reinforcement above the height of the top row of Nelson Studs on the armored edges. Ensure that all exposed steel reinforcement is tied in accordance with Section 602.03.04 prior to pouring the new Class “M” concrete. Deliver unused bars to the Local County Maintenance Barn. Payment will be made in accordance with Section 602.
- D. Stage Construction.** Installation of concrete and armored edges in two (or more if specified) stages is necessary. Join the armored edges at or near the centerline of the roadway or lane line, field weld and grind smooth.
- E. New Joint Material.** Place the joint material in one continuous, unbroken length. Place neoprene strip seals and pre-compressed silicone and foam hybrid seals as recommended by the manufacturer and in accordance with Section 609.03.04 except that shop drawings will not be required.
- F. Approach Pavement Repair.** The Contractor shall repair any and all damage to the approach pavement due to this construction. A new asphalt surface wedge for all approaches to each structure in this project shall be placed and compacted to the satisfaction of the Engineer prior to allowing traffic back onto the structure after each section of the joint is replaced. No additional payment will be allowed for this work, as it will be considered incidental to the pay item “Armored Edge for Concrete”.
- 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 fall span, should the fallen span result from the Contractor’s actions.
- H. Shop Plans.** Shop plans will not be required. The Contractor is responsible for obtaining field measurements and supplying properly sized materials to complete the work.
- I. Order of work.**
All expansion dam replacement work shall be completed before cleaning and painting work can start.

061B00065N and 061B00066N

Maintain one usable 12 foot minimum lane. Flagging or traffic signals shall be used. If traffic signals are used the Contractor shall use flagging to minimize impact on school bus traffic when school is in session. The Contractor shall be responsible for establishing the dates and times when school bus traffic will impact the job site.

The Contractor will be permitted to briefly close the structure to traffic using flagging to move any equipment that exceeds load rating (See Special Note for Weight Limits on Structure) across the structure as directed by the Engineer. The equipment must be centered on the structure and shall not exceed 2 times the load rating for the each structure.

When performing joint replacement portions for this bridge, the contractor will provide steel plating to cover the opening in the bridge deck when not working. The plate shall be a minimum of 4 feet wide from the edge of the open lane of traffic over the opening and at length to support and cover the opening. The specified 4 feet width may be placed in multiple sections for ease of handling. The Contractor shall secure the steel plating while in place. All cost to furnish and place the steel plating shall be considered incidental to the lump sum bid item for Maintain and Control Traffic.

No lane closures will be permitted on the following dates:

October 1-7 2017 ~ Daniel Boone Festival.

MEASUREMENT.

A. Maintain and Control Traffic: The Department will measure the quantity as “Lump Sum”.

B. Portable Changeable Message Sign: The Department will measure the quantity for “Each”.

PAYMENT.

A. Maintain and Control Traffic (02650): Payment of the contract lump sum amount for "maintain and control traffic" shall be full compensation for all items necessary to maintain and control traffic as specified for this project. All traffic control items shall remain the property of the contractor when the work is complete.

B. Portable Changeable Message Sign (02671): Payment at “each” shall be full compensation to furnish, install, maintain and remove all portable message signs as specified.



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Greg Thomas
Secretary

Asbestos Inspection Report

To: Tom Mathews

District: Central Office

Date: April 10, 2017

Conducted By: O'Dail Lawson

Report Prepared By: O'Dail Lawson

Project and Structure Identification

Project Number: Knox County Bridge Painting

Structure ID: 061B00066N

Structure Location: Ky-0006 over Richland Creek

Sample Description: The samples collected were negative for asbestos.

Inspection Date: April 5, 2017

Results and Recommendations

The results of the samples collected were negative for the presence of asbestos above 1%.
No abatement is required at this time.

It is recommended that this report accompany the 10-Day Notice of Intent for Demolition ([DEP7036 Form](#)) which is to be submitted to the Kentucky Division of Air Quality prior to abatement, demolition, or renovation of any building or structure in the Commonwealth.



MRS, INC. *MRS, Inc. Analytical Laboratory Division*

332 West Broadway/ Suite # 902
Louisville, Kentucky - 40202 - 2133

Phone # : (502) 495-1212
E-Mail Address: CEOMRSInc@AOL.Com

Client:	<u>KY Transportation Cabinet</u>	Project No:	<u># 04094 B</u>
Address:	<u>200 Mero Street</u>	Sample ID:	<u># 66 - 2</u>
	<u>Frankfort, KY</u>	Sampled:	<u>5-Apr-17</u>
	<u>40601</u>	Received:	<u>6-Apr-17</u>
		Analyzed:	<u>9-Apr-17 - Point Count -</u>
	<u>Attention : O'Dail Lawson</u>		

Bulk Sample Analysis

Sampled by: O'Dail Lawson

Facility/Location: Knox County / 061B00066N / KY - 0006 Over Richland Creek

Field Description: Guard Rail Mastic

Laboratory Description:

Thick Gray Msaterial

Asbestos Materials:

Chrysotile = 2/400 = 0.50 % (< 1 %) Sample Is Negative

Non-asbestos Fibrous Materials & Matrix Materials:

<u>Cellulose</u>	<u>0.25 %</u>
<u>Binders</u>	<u>99.25 %</u>

Remarks: The sample was analyzed for asbestos content following the EPA Methodology (600/R-93/116). The test relates only to the items tested. This report does not represent endorsement by NVLAP or any agency of the U.S. Government.

Analyst: Winterford Mensah **Reviewed By:** 
Signature



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Asbestos Inspection Report

To: Tom Mathews

District: Central Office

Date: April 10, 2017

Conducted By: O'Dail Lawson

Report Prepared By: O'Dail Lawson

Project and Structure Identification

Project Number: Knox County Bridge Painting

Structure ID: 061B00065N

Structure Location: Ky-11 over Cumberland River

Sample Description: The samples collected were negative for asbestos.

Inspection Date: April 5, 2017

Results and Recommendations

The results of the samples collected were negative for the presence of asbestos above 1%. No abatement is required at this time.

It is recommended that this report accompany the 10-Day Notice of Intent for Demolition ([DEP7036 Form](#)) which is to be submitted to the Kentucky Division of Air Quality prior to abatement, demolition, or renovation of any building or structure in the Commonwealth.



Chain of Custody Record

Kentucky Transportation Cabinet

200 Mero Street, 5th Floor West
Frankfort, Kentucky 40622
(502) 564-7250 fax (502) 564-5655



O'Dail Lawson odail.lawson@ky.gov
KYTC
Address: 200 Mero Street
Frankfort KY
Phone: 502-782-5020 Fax: 502-564-5655
PO#:

Client Information KY TRANSPORTATION CABINET
Results Code: ND = None Detected
FTD = Filter Tampering or Damaged
N/A = Not Applicable

KY-11 over Cumberland River.

Project or Subject Reference
Knox 061B00065N
Samplers (signature) *[Signature]*

Sample ID	Sample Description	Collected		Analysis Requested	Matrix	Color	Cont. Type	Preservative
		Date	Time					
65-1	Joint Compound	4-5-17	11:45 am	Asbestos bulk	Black			N/A
65-2	Reflective Paint	↓	↓	↓	Paint			

Relinquished By: _____ Date/Time: _____
 Received By: *[Signature]* Date/Time: 4/10/17
 Relinquished By: _____ Date/Time: _____
 Received at Lab By: _____ Date/Time: _____

ENVIRONMENTAL TRAINING CONCEPTS, INC
P.O. Box 99603 Louisville, KY 40269
(502)640-2951

Certification Number: ETC-AIR-0711116-00630

O'Dail Lawson

has on 07-11-2016, attended and successfully completed the requirements and passed the examination with a score of 70% of better on the entitled course.

ASBESTOS INSPECTOR REFRESHER

Training was in accordance with 40 CFR Part 763 (AHERA) approved by the Commonwealth of Kentucky, the Indiana Department of Environmental Management and Tennessee Department of Environment & Conservation The above student received requisite training for Asbestos Accreditation under Title II of the Toxic Substance Act (TSCA).

Conducted at: 1301 Kentucky Mills Drive, Louisville, KY



Name – Training Manager

Expiration Date: 07-11-2017



Name - Instructor