



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

Matthew G. Bevin
Governor

Greg Thomas
Secretary

February 17, 2017

CALL NO. 402
CONTRACT ID NO. 172951
ADDENDUM # 1

Subject: Warren County, 017GR17M004-FE02
Letting February 24, 2017

- (1) Revised - Special Note - Page 14 of 106
- (2) Revised - Special Note - Page 16 of 106
- (3) Revised - Special Note - Page 32 of 106
- (4) Revised - Traffic Control - Pages 35-36 of 106
- (5) Revised - Bid Items - Pages 105-106 of 106

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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Abrasive Blast

All structural steel shall be abrasive blast cleaned to an **SSPC-SP 10/NACE NO. 2** “Near White Metal Blast Cleaning” standard as described in the current SSPC documents. After blast cleaning all surface imperfections that remain (e.g. sharp fins, sharp edges, weld splatter, burning slag, scabs, slivers, etc.) shall be removed. The abrasive blast profile shall be **angular, 1.5 to 4.5 mils** as measured in accordance with **ASTM D 4417 Method B**.

Abrasive Media

Clean, dry, uniformly graded recyclable steel grit or grit/shot abrasive mix shall be used to produce an angular profile for blast cleaning that is free of oil, soluble salts and other similar substances which could contaminate the blasted surface. The abrasive shall meet the **SSPC-AB 2** “Cleanliness of Recycled Ferrous Metallic Abrasive” standard.

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.

D. PAINT APPLICATION

Areas shall not be painted until they have been inspected and approved by the Engineer. Paint shall be applied only to clean, dry surfaces. Ensure that the appropriate surface condition, as described in the Abrasive Blast Cleaning section, is present at the time of primer application (i.e. re-treat if rust-back occurs). Apply a **Class II (Type I or Type II)** system from the approved list referenced in the **SPECIAL NOTE FOR PAINT**.

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.

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

	L*	a*	b*
Green	24.95	- 35.59	5.82

Damages - All steps necessary to preclude damage to public property from paint overspray shall be taken. These steps shall include changes in the type of containment or cessation of spraying operations. The contractor shall be solely responsible for any damages arising from the painting operations.

Repair of paint defects - All defects in the new paint shall be repaired

G. BRIDGE CLEANING AND PREVENTIVE MAINTENANCE

Surface Preparation: Remove all debris and clean all concrete surfaces above the existing ground line on end bents and piers and all faces of parapet walls including 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 3500 psi to 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: Apply concrete coatings to all concrete surfaces above the existing ground line on all end bents and piers and all faces of parapet walls including end bent wing walls 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. 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	Devoe 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.

SPECIAL NOTE FOR BEARING REPLACEMENT

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 for Bearing Replacement. Section references are to the Standard Specifications. This work consists of the following: (1) Furnish all labor, materials, tools, and equipment. (2) Replace Bearing. (3) Maintain and control traffic. (4) Any other work specified as part of this contract.

2. MATERIALS.

A. Structural Steel

ASTM Material, A709 Grade 50 Structural Steel Plates and Shapes. Minimum structural steel strength ~ 50,000 psi.

B. Expansion Anchors

Expansion anchors shall be 7/8" diameter HILTI KWIK Bolt 3 or equal with 6" minimum embedment into concrete or as recommended by manufacturer.

C. Cleaning and Painting

See Special Note for Paint Application and Surface Preparation.

3. CONSTRUCTION.

A. Bearing Replacement. Complete bearing replacement as specified in this special note and shown in the attached detailed drawings. Each bearing shall be replaced one at a time with the no traffic on the lane above.

B. Remove Existing Bearing. Remove existing bearings as shown on the attached detailed drawings. Dispose of all removed material entirely away from the job site. This work shall be incidental to the contract unit price for "Bearing Replacement".

D. Jack and Support. Jack and Support the beams under full dead and live loads while replacing the bearings. Jacking Loads are estimated = 35 Tons (DL + LL) per beam line. A jack working capacity of 50 Tons or greater per beam line shall be required. Jacks shall be locked during bearing replacement. **The Contractor shall submit a jack and support plan signed and stamped by a licensed Kentucky professional engineer for approval.**

E. Cleaning and Painting. All existing faying surfaces where new steel is to be installed shall be cleaned and receive the prime coat as specified in Special Note for Surface Preparation and Paint Application. Level of cleaning shall be to an **SSPC-SP 15** (Commercial Grade Power Tool Cleaning). All Power tools shall be equipped with vacuum shrouds and fitted with HEPA filters at their air exhausts. Maintain and operate all vacuum shrouded power tools to collect generated debris. All new structural steel shall receive shop surface preparation and shop applied prime coating as specified in Special Note for Surface Preparation and Paint Application. Necessary touch up/repair of the shop applied prime coat on the new steel may be performed in the field. Intermediate and Finish coatings specified shall be field applied. All items necessary to complete painting as specified in this note shall be considered to the unit price bid "Each" for Bearing Replacement.

SPECIAL NOTE FOR MAINTAIN AND CONTROL TRAFFIC

All lane closures on this project shall be in accordance with Kentucky Department of Highways Standard Drawings No. **TTC-115, TTC-135 and the FHWA Manual for Uniform Traffic Control Devices (Current Editions) unless otherwise specified.** Lane closures should be used only when absolutely necessary and kept to the shortest duration possible in order to minimize disruption to the traveling public. No work will be conducted over unprotected traffic at any location. At the discretion of the Engineer, lane closures will not be permitted on holiday weekends.

The contractor shall be required to submit in writing, to the department, his complete work schedule 14 days prior to the Pre-Construction Conference. The contractor shall be required to coordinate his efforts with those of any other contractors in the construction area.

In the event it becomes necessary to make emergency repairs at this project by state forces or by other outside contractors, the (painting) contractor shall agree to alter his work pattern as directed by the engineer so as not to interfere with the emergency work.

The contractor shall be required to furnish all traffic control devices whenever his operations endanger or interfere with vehicular traffic as determined by the engineer. The contractor shall furnish any additional traffic control devices necessary to protect traffic and his workmen. Any costs associated with the added traffic control devices (including arrow boards) shall be incidental to the contract lump sum amount for "maintain and control traffic."

Placement of all devices for lane closures shall start and proceed in the direction of flow of traffic. Removal of devices shall start at the end of the construction area and proceed toward oncoming traffic. The contractor shall provide for the installation of all necessary traffic control devices before beginning work and their immediate removal as soon as work is suspended or completed. During the fully operational periods, when no lane closures are permitted, all equipment shall be totally removed from the job site. Traffic control signs shall be removed or covered (if left in a curb lane).

The contractor's vehicles shall always move with and not across or against the flow of traffic. Vehicles shall enter or leave work areas in a manner that will not be hazardous to or interfere with normal roadway traffic. Vehicles shall not park or stop except within designated work areas.

Personal vehicles shall not be permitted to park within the state right-of-way. The contractor's vehicles shall be prohibited from crossing the roadway and all pedestrian movement of the contractor's personnel on the roadway shall be limited to within the closed work area.

Any lane or shoulder closure shall include the use of a TMA placed between oncoming traffic and equipment or vehicles.

The Engineer may elect to use Variable Message Boards when necessary.

114B00034N

Single lane closures maintaining one usable 12-foot lane in each direction of US 31W will be permitted during the hours of 9:00 PM and 6:00 AM. Shoulder closures on US 31W will be permitted and can remain outside the specified time restrictions for the lane closures. Gore areas in the US 31W/KY 446 intersection may be used for staging.

A lane restriction of 10 feet on KY 446 will be permitted during the hours of 9:00 PM and 6:00 AM for rigging and containment installation, bearing replacement, joint seal replacement, and bridge cleaning and preventive maintenance items.

A 15'-0" minimum vertical clearance shall be maintained over protected traffic on US 31W and must be signed if any rigging and containment material is left in place when lanes are restored between 6:00 AM and 9:00 PM. The Contractor shall notify the Cabinets Department of Motor Vehicle Oversize Permits Section for height and width restrictions when any rigging and containment is in place with the 15'-0" minimal vertical clearance.

114B00051L&R

Single lane closures maintaining one usable 12-foot lane in each direction of US 31W will be permitted during the hours of 9:00 PM and 6:00 AM. Shoulder closures on US 31W will be permitted and can remain outside of the specified time restriction for the lane closures. Gore areas in the US 31W/WN 9007 intersection may be used for staging.

Shoulder and single lane closures maintaining one useable 12' lane in each direction of WN 9007 will be permitted for rigging and containment installation, joint seal replacement and bridge cleaning and bridge cleaning and preventive maintenance items.

A 15'-0" minimum vertical clearance shall be maintained over protected traffic on US 31W and must be signed if any rigging and containment material is left in place when lanes are restored between 6:00 AM and 9:00 PM. The Contractor shall notify the Cabinets Department of Motor Vehicle Oversize Permits Section for height and width restrictions when any rigging and containment is in place with the 15'-0" minimal vertical clearance.

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.

PROPOSAL BID ITEMS

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Report Date 2/17/17

Section: 0001 - BRIDGES

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	02650		MAINTAIN & CONTROL TRAFFIC - 114B00034N	1.00	LS		\$	
0020	02671		PORTABLE CHANGEABLE MESSAGE SIGN - 034B00034N (REVISED: 2-17-17)	4.00	EACH		\$	
0030	08434		CLEAN & PAINT STRUCTURAL STEEL - 114B00034N	1.00	LS		\$	
0040	08435		JACK & SUPPORT BRIDGE SPAN - 034B00034N	1.00	LS		\$	
0050	21969NN		BEARING REPLACEMENT - 114B00034N	8.00	EACH		\$	
0060	23386EC		JOINT SEAL REPLACEMENT - 114B00034N	29.00	LF		\$	
0070	23949EC		BRIDGE CLEANING & PREVENTIVE MAINTENANCE - 114B00034N	1.00	LS		\$	

Section: 0002 - BRIDGES

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0080	02650		MAINTAIN & CONTROL TRAFFIC - 114B00051L	1.00	LS		\$	
0090	02671		PORTABLE CHANGEABLE MESSAGE SIGN - 114B00051L	2.00	EACH		\$	
0100	08434		CLEAN & PAINT STRUCTURAL STEEL - 114B00051L	1.00	LS		\$	
0110	23386EC		JOINT SEAL REPLACEMENT -114B00051L	120.00	LF		\$	
0120	23949EC		BRIDGE CLEANING & PREVENTIVE MAINTENANCE - 114B00051L	1.00	LS		\$	

Section: 0003 - BRIDGES

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0130	02650		MAINTAIN & CONTROL TRAFFIC - 114B00051R	1.00	LS		\$	
0140	02671		PORTABLE CHANGEABLE MESSAGE SIGN - 114B00051R	2.00	EACH		\$	
0150	08434		CLEAN & PAINT STRUCTURAL STEEL - 114B00051R	1.00	LS		\$	
0160	23386EC		JOINT SEAL REPLACEMENT -114B00051R	120.00	LF		\$	
0170	23949EC		BRIDGE CLEANING & PREVENTIVE MAINTENANCE - 114B00051R	1.00	LS		\$	

Section: 0004 - DEMOB

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PROPOSAL BID ITEMS

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0180	02568		MOBILIZATION	1.00	LS		\$	
0190	02569		DEMOBILIZATION	1.00	LS		\$	