



TRANSPORTATION CABINET

Frankfort, Kentucky 40622
www.transportation.ky.gov/

Steven L. Beshear
Governor

Michael W. Hancock, P.E.
Secretary

November 18, 2014

CALL NO. 201
CONTRACT ID NO. 141291
ADDENDUM # 4

Subject: Fayette County, 121GR14D091-NHPP & JL04
Letting November 21, 2014

- (1) Revised - Plan Sheet - R2N
- (2) Revised - CAP Note - Page 242 of 360
- (3) Added - Special Notes - Pages 1-16 of 16

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

Plan revisions are available at <http://www.lynnimaging.com/kytransportation/>.

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

Sincerely,

A handwritten signature in blue ink that reads "Diana Castle Radcliffe".

Diana Castle Radcliffe
Director
Division of Construction Procurement

DR:ks
Enclosures



An Equal Opportunity Employer M/F/D


FILE NAME: U:\113\FINAL PLAN SUBMITTAL\FINAL CONTRACT PLANS\CONTRACT PLAN SET\ROADWAY\ROADWAY PLANS\VR020NGN.DGN

USER: Joshua.somple
DATE PLOTTED: November 17, 2014

E-SHEET NAME:

MicroStation v8, lt, 7, 443

BEFORE YOU DIG



The contractor is instructed to call 1-800-752-6007 to reach KY 811, the one-call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call Before-U-Dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area.

SPECIAL NOTES

- FOR PORTABLE CHANGEABLE MESSAGE SIGN
- FOR TURF REINFORCEMENT MAT
- FOR ROCK BLASTING
- FOR EROSION PREVENTION AND SEDIMENT CONTROL
- FOR BORING AND JACKING WITHOUT CARRIER PIPE
- FOR BARCODE LABEL ON PERMANENT SIGNS
- FOR WATER BLASTING STRIPING REMOVAL
- FOR PROTECTION OF RAILROAD INTEREST

UTILITIES

ALL UTILITIES SHOWN ON THE PLANS ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL HAVE THE UTILITIES FIELD LOCATED PRIOR TO BEGINNING WORK.

PERFORATED PIPE MEDIAN UNDERDRAIN OUTLETS

OPENINGS FOR THE 6-INCH PERFORATED PIPE MEDIAN PAVEMENT UNDERDRAINS SHALL BE CAST INTO EACH MEDIAN BARRIER BOX INLET LOCATED ALONG NEW CIRCLE ROAD AS PART OF THE CASTING OPERATION FOR EITHER PRECAST OR CAST-IN-PLACE DRAINAGE STRUCTURES. THE CASTING OF THE PERFORATED PIPE OPENINGS SHALL BE CONSIDERED INCIDENTAL TO THE UNIT BID PRICE FOR THE RESPECTIVE DRAINAGE STRUCTURE. PERFORATED PIPE UNDERDRAINS SHALL BE CONSTRUCTED SUCH THAT THEY OUTLET TO THE NEAREST SMALL DRAINAGE STRUCTURE DOWNGRADE FROM THE PIPE RUN.

CROSS SECTIONS

THE EXISTING GROUND LINES OF CROSS SECTIONS FOR THIS PROJECT WERE DEVELOPED FROM AERIAL PHOTOGRAPHY AND SUPPLEMENTED WITH LIMITED AMOUNT OF FIELD SURVEYS. THE RDZ LINES SHOWN ON THE CROSS SECTIONS ARE APPROXIMATE AND WERE DEVELOPED FROM A LIMITED AMOUNT OF GEOTECHNICAL INVESTIGATIONS.

SAW CUTTING PAVED SHOULDERS

PRIOR TO REMOVAL OF THE EXISTING PAVED SHOULDERS FOR FULL-DEPTH PAVEMENT WIDENING, THE PAVED SHOULDERS ALONG THE MEDIAN AND/OR THE OUTER SHOULDERS SHALL BE SAW CUT ALONG A NEAT LINE TO DEPTH THAT WILL ENSURE CLEAN BREAKAGE OF PAVED SHOULDER FROM THE EXISTING LANE PAVEMENT THAT IS DESIGNATED TO REMAIN. THE NECESSARY SAW CUT DEPTH WILL BE DETERMINED BY THE ENGINEER BASED ON SAMPLE SAW CUT AND REMOVAL TESTS PERFORMED BY THE CONTRACTOR.

CRASH CUSHION REPLACEMENT ELEMENTS

THE CONTRACTOR SHALL HAVE A COMPLETE REPLACEMENT UNIT AVAILABLE ON THE PROJECT SITE FOR THE DURATION OF THE PROJECT, UNLESS THE SUPPLIER OF THE SPECIFIED IMPACT ATTENUATOR (CRASH CUSHION) CERTIFIES IN WRITING THAT REPLACEMENT UNITS AND/OR PARTS CAN BE DELIVERED TO THE PROJECT SITE WITHIN 24 HOURS AFTER THEY ARE ORDERED.

PETROLEUM LINE

THE CONTRACTOR SHALL NOT DISTURB THE PETROLEUM LINE LOCATED AT STA. 276+78 NEW CIRCLE ROAD. THE CONTRACTOR SHALL ACCURATELY LOCATE THE PETROLEUM LINE IN THE FIELD PRIOR TO THE BEGINNING OF CONSTRUCTION IN THIS AREA. THE CONTRACTOR SHALL CONTACT WES PHELPS WITH MARATHON PIPE LINE AT 606-923-5589 PRIOR TO THE BEGINNING OF WORK.

CLARK MATERIALS

THE CONSTRUCTION OF THE RETAINING WALL RT, STA. 42+70 TO STA. 46+57 OLD FRANKFORT PIKE SHALL NOT INTERFERE WITH THE OPERATIONS OF CLARK MATERIALS. ACCESS FOR SEMI-TRUCKS AROUND THE STORAGE BUILDINGS SHALL BE MAINTAINED AT ALL TIMES BETWEEN THE HOURS OF 6:30AM AND 4:30PM, MONDAY THROUGH FRIDAY.

RETAINING WALLS

SHORING MAY BE REQUIRED TO CONSTRUCT THE PROPOSED RETAINING WALLS ON THIS PROJECT WITHIN THE RIGHT OF WAY. THE SHORING WILL BE INCIDENTAL TO THE RETAINING WALL CONSTRUCTION.

PLACE SIX INCHES OF TOP SOIL ON ALL DISTURBED AREAS AT THE TOP OF ALL RETAINING WALLS.

MATERIAL TRANSFER VEHICLE

A MATERIAL TRANSFER VEHICLE (MTV) SHALL BE REQUIRED FOR ALL PAVING ON THIS JOB IN ACCORDANCE WITH SECTION 403.02.10 OF STANDARD SPECIFICATION, CURRENT EDITION.

NOTICE OF INTENT

THE CONTRACTOR IS REQUIRED TO FILE NOTICE OF INTENT (NOI) TO THE FRANKFORT REGIONAL OFFICE OF THE DIVISION OF AIR QUALITY TEN (10) BUSINESS DAYS (M-F) PRIOR TO THE START OF ANY DEMOLITION OF BRIDGES.

DIVISION OF AIR QUALITY, FRANKFORT REGIONAL OFFICE
200 FAIR OAKS LANE, THIRD FLOOR, FRANKFORT, KY 40601
JARROD.BELL@KY.GOV

TURF REINFORCEMENT MAT

SEE THE PROPOSAL ATTACHMENTS FOR SUPPLEMENTAL SPECIFICATIONS FOR ROLLED EROSION CONTROL PRODUCTS (RECP) SPECIFICATIONS FOR TURF REINFORCEMENT MATTING.

DEPARTMENT OF THE ARMY PERMIT AND WATER QUALITY CERTIFICATION APPROVALS

A DEPARTMENT OF THE ARMY (DA) PERMIT, WHICH MAY REQUIRE APPROVAL OF A STATE WATER QUALITY CERTIFICATION FROM THE KENTUCKY DIVISION OF WATER, REGULATES THIS PROJECT AT ONE OR MORE LOCATIONS. PERFORM ALL APPLICABLE WORK IN COMPLIANCE WITH THE CONDITIONS STATED IN THE DA PERMIT AND THE APPROVED WATER QUALITY CERTIFICATION. POST A COPY OF THE DA PERMIT AND THE WATER QUALITY CERTIFICATION IN A CONSPICUOUS PLACE AT THE PROJECT SITE. IF A DA PERMIT OR WATER QUALITY CERTIFICATION APPROVAL IS PENDING, DO NOT WORK IN OR DISTURB THE DESIGNATED AREA(S) UNTIL OBTAINING THE APPROPRIATE APPROVAL(S). REFER TO NOTICE(S) CONTAINED IN THE CONTRACT BID PROPOSAL FOR DESIGNATED AREA(S) WHERE WORK IS PROHIBITED BY THE ABSENCE OF APPROVAL.

ASPHALT PAVEMENT RIDE QUALITY

PAVEMENT RIDEABILITY REQUIREMENTS, IN ACCORDANCE WITH SECTION 410 OF THE STANDARD SPECIFICATIONS, SHALL APPLY ON THIS PROJECT. CATEGORY A SHALL APPLY.

EDGE KEY

THIS WORK INCLUDES CUTTING OUT THE EXISTING ASPHALT SURFACE TO A MINIMUM DEPTH AND WIDTH, AS DETAILED ELSEWHERE IN THE PLANS, SO THAT THE NEW SURFACE MAY HEEL INTO THE EXISTING SURFACE. THE CONTRACT UNIT PRICE BID LINEAR FOOT (PER METER) FOR "EDGE KEY" INCLUDES ALL NECESSARY MATERIALS, LABOR AND EQUIPMENT NECESSARY TO PERFORM THE WORK AND DISPOSE OF THE REMOVED ASPHALT MATERIAL.

STANDARD DRAWINGS

STANDARD DRAWINGS ARE NOT ATTACHED TO THESE PLANS. A STANDARD DRAWING BOOK AND THE HEADWALL SUPPLEMENTAL BOOK MAY BE OBTAINED FROM THE POLICY SUPPORT BRANCH OF THE DEPARTMENT OF ADMINISTRATIVE SERVICES IN FRANKFORT, KENTUCKY AT 502-564-3670.

N.G.S. (U.S.G.S.) BENCH MARKS

DO NOT DISTURB N.G.S. (U.S.G.S.) BENCH MARKS IN ANY MANNER UNLESS DIRECTED BY THE ENGINEER.

ASPHALT PAVEMENT RIDE QUALITY

PAVEMENT RIDEABILITY REQUIREMENTS, IN ACCORDANCE WITH SECTION 410 OF THE STANDARD SPECIFICATIONS, SHALL APPLY TO THIS PROJECT. CATEGORY A SHALL APPLY.

COMPACTION OF ASPHALT MIXTURES

WILL ACCEPT THE COMPACTION OF ASPHALT MIXTURES FURNISHED FOR DRIVING LANES AND RAMPS AT ONE INCH OR GREATER ON THIS PROJECT BY OPTION A ACCORDING TO SUBSECTIONS 402 AND 403 OF THE CURRENT STANDARD SPECIFICATIONS. USE JOINT CORES AS DESCRIBED IN SUBSECTION 402.03.02 FOR SURFACE MIXTURES ONLY. WILL ACCEPT THE COMPACTION OF ALL OTHER ASPHALT MIXTURES BY OPTION B.

INSPECT AND CLEAN PIPE

THE CONTRACTOR SHALL INSPECT AND CLEAN ALL EXISTING PIPES AS DIRECTED BY THE ENGINEER THAT ARE TO REMAIN OF ALL SEDIMENT AND OTHER DEBRIS. THIS WORK SHALL BE DONE UNDER THE BID ITEM CLEAN ROADWAY DRAINS.

OLD FRANKFORT PIKE LANDFILL

THERE MAY BE SOLID WASTE STILL PRESENT WITHIN THE CURRENT RIGHT OF WAY NEAR OLD FRANKFORT PIKE AND NEW CIRCLE ROAD INTERCHANGE AT APPROXIMATE STA. 298+00 TO STA. 314+00. IF SOLID WASTE IS ENCOUNTERED DURING CONSTRUCTION IN THIS AREA IT IS TO BE DISPOSED OF AS SOLID WASTE AT AN APPROPRIATE FACILITY.

COUNTY OF	ITEM NO.	SHEET NO.
FAYETTE	7-113.01	R2N

GENERAL NOTES


FILE NAME: U:\113\FINAL PLAN SUBMITTAL\FINAL CONTRACT PLANS\CONTRACT PLAN SET\ROADWAY\ROADWAY PLANS\ROAD02ONGN.DGN

USER: Joshua.somple
DATE PLOTTED: November 17, 2014

E-SHEET NAME:

MicroStation v8, lt, 7, 443

BEFORE YOU DIG



The contractor is instructed to call 1-800-752-6007 to reach KY 811, the one-call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call Before-U-Dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area.

SPECIAL NOTES

- FOR PORTABLE CHANGEABLE MESSAGE SIGN
- FOR TURF REINFORCEMENT MAT
- FOR ROCK BLASTING
- FOR EROSION PREVENTION AND SEDIMENT CONTROL
- FOR BORING AND JACKING WITHOUT CARRIER PIPE
- FOR BARCODE LABEL ON PERMANENT SIGNS
- FOR WATER BLASTING STRIPING REMOVAL
- FOR PROTECTION OF RAILROAD INTEREST

UTILITIES

ALL UTILITIES SHOWN ON THE PLANS ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL HAVE THE UTILITIES FIELD LOCATED PRIOR TO BEGINNING WORK.

PERFORATED PIPE MEDIAN UNDERDRAIN OUTLETS

OPENINGS FOR THE 6-INCH PERFORATED PIPE MEDIAN PAVEMENT UNDERDRAINS SHALL BE CAST INTO EACH MEDIAN BARRIER BOX INLET LOCATED ALONG NEW CIRCLE ROAD AS PART OF THE CASTING OPERATION FOR EITHER PRECAST OR CAST-IN-PLACE DRAINAGE STRUCTURES. THE CASTING OF THE PERFORATED PIPE OPENINGS SHALL BE CONSIDERED INCIDENTAL TO THE UNIT BID PRICE FOR THE RESPECTIVE DRAINAGE STRUCTURE. PERFORATED PIPE UNDERDRAINS SHALL BE CONSTRUCTED SUCH THAT THEY OUTLET TO THE NEAREST SMALL DRAINAGE STRUCTURE DOWNGRADE FROM THE PIPE RUN.

CROSS SECTIONS

THE EXISTING GROUNDLINES OF CROSS SECTIONS FOR THIS PROJECT WERE DEVELOPED FROM AERIAL PHOTOGRAPHY AND SUPPLEMENTED WITH LIMITED AMOUNT OF FIELD SURVEYS. THE RDZ LINES SHOWN ON THE CROSS SECTIONS ARE APPROXIMATE AND WERE DEVELOPED FROM A LIMITED AMOUNT OF GEOTECHNICAL INVESTIGATIONS.

SAW CUTTING PAVED SHOULDERS

PRIOR TO REMOVAL OF THE EXISTING PAVED SHOULDERS FOR FULL-DEPTH PAVEMENT WIDENING, THE PAVED SHOULDERS ALONG THE MEDIAN AND/OR THE OUTER SHOULDERS SHALL BE SAW CUT ALONG A NEAT LINE TO DEPTH THAT WILL ENSURE CLEAN BREAKAGE OF PAVED SHOULDER FROM THE EXISTING LANE PAVEMENT THAT IS DESIGNATED TO REMAIN. THE NECESSARY SAW CUT DEPTH WILL BE DETERMINED BY THE ENGINEER BASED ON SAMPLE SAW CUT AND REMOVAL TESTS PERFORMED BY THE CONTRACTOR.

CRASH CUSHION REPLACEMENT ELEMENTS

THE CONTRACTOR SHALL HAVE A COMPLETE REPLACEMENT UNIT AVAILABLE ON THE PROJECT SITE FOR THE DURATION OF THE PROJECT, UNLESS THE SUPPLIER OF THE SPECIFIED IMPACT ATTENUATOR (CRASH CUSHION) CERTIFIES IN WRITING THAT REPLACEMENT UNITS AND/OR PARTS CAN BE DELIVERED TO THE PROJECT SITE WITHIN 24 HOURS AFTER THEY ARE ORDERED.

PETROLEUM LINE

THE CONTRACTOR SHALL NOT DISTURB THE PETROLEUM LINE LOCATED AT STA. 276+78 NEW CIRCLE ROAD. THE CONTRACTOR SHALL ACCURATELY LOCATE THE PETROLEUM LINE IN THE FIELD PRIOR TO THE BEGINNING OF CONSTRUCTION IN THIS AREA. THE CONTRACTOR SHALL CONTACT WES PHELPS WITH MARATHON PIPE LINE AT 606-923-5589 PRIOR TO THE BEGINNING OF WORK.

CLARK MATERIALS

THE CONSTRUCTION OF THE RETAINING WALL RT, STA. 42+70 TO STA. 46+57 OLD FRANKFORT PIKE SHALL NOT INTERFERE WITH THE OPERATIONS OF CLARK MATERIALS. ACCESS FOR SEMI-TRUCKS AROUND THE STORAGE BUILDINGS SHALL BE MAINTAINED AT ALL TIMES BETWEEN THE HOURS OF 6:30AM AND 4:30PM, MONDAY THROUGH FRIDAY.

RETAINING WALLS

SHORING MAY BE REQUIRED TO CONSTRUCT THE PROPOSED RETAINING WALLS ON THIS PROJECT WITHIN THE RIGHT OF WAY. THE SHORING WILL BE INCIDENTAL TO THE RETAINING WALL CONSTRUCTION.

PLACE SIX INCHES OF TOP SOIL ON ALL DISTURBED AREAS AT THE TOP OF ALL RETAINING WALLS.

MATERIAL TRANSFER VEHICLE

A MATERIAL TRANSFER VEHICLE (MTV) SHALL BE REQUIRED FOR ALL PAVING ON THIS JOB IN ACCORDANCE WITH SECTION 403.02.10 OF STANDARD SPECIFICATION, CURRENT EDITION.

NOTICE OF INTENT

THE CONTRACTOR IS REQUIRED TO FILE NOTICE OF INTENT (NOI) TO THE FRANKFORT REGIONAL OFFICE OF THE DIVISION OF AIR QUALITY TEN (10) BUSINESS DAYS (M-F) PRIOR TO THE START OF ANY DEMOLITION OF BRIDGES.

DIVISION OF AIR QUALITY, FRANKFORT REGIONAL OFFICE
200 FAIR OAKS LANE, THIRD FLOOR, FRANKFORT, KY 40601
JARROD.BELL@KY.GOV

TURF REINFORCEMENT MAT

SEE THE PROPOSAL ATTACHMENTS FOR SUPPLEMENTAL SPECIFICATIONS FOR ROLLED EROSION CONTROL PRODUCTS (RECP) SPECIFICATIONS FOR TURF REINFORCEMENT MATTING.

DEPARTMENT OF THE ARMY PERMIT AND WATER QUALITY CERTIFICATION APPROVALS

A DEPARTMENT OF THE ARMY (DA) PERMIT, WHICH MAY REQUIRE APPROVAL OF A STATE WATER QUALITY CERTIFICATION FROM THE KENTUCKY DIVISION OF WATER, REGULATES THIS PROJECT AT ONE OR MORE LOCATIONS. PERFORM ALL APPLICABLE WORK IN COMPLIANCE WITH THE CONDITIONS STATED IN THE DA PERMIT AND THE APPROVED WATER QUALITY CERTIFICATION. POST A COPY OF THE DA PERMIT AND THE WATER QUALITY CERTIFICATION IN A CONSPICUOUS PLACE AT THE PROJECT SITE. IF A DA PERMIT OR WATER QUALITY CERTIFICATION APPROVAL IS PENDING, DO NOT WORK IN OR DISTURB THE DESIGNATED AREA(S) UNTIL OBTAINING THE APPROPRIATE APPROVAL(S). REFER TO NOTICE(S) CONTAINED IN THE CONTRACT BID PROPOSAL FOR DESIGNATED AREA(S) WHERE WORK IS PROHIBITED BY THE ABSENCE OF APPROVAL.

ASPHALT PAVEMENT RIDE QUALITY

PAVEMENT RIDEABILITY REQUIREMENTS, IN ACCORDANCE WITH SECTION 410 OF THE STANDARD SPECIFICATIONS, SHALL APPLY ON THIS PROJECT. CATEGORY A SHALL APPLY.

EDGE KEY

THIS WORK INCLUDES CUTTING OUT THE EXISTING ASPHALT SURFACE TO A MINIMUM DEPTH AND WIDTH, AS DETAILED ELSEWHERE IN THE PLANS, SO THAT THE NEW SURFACE MAY HEEL INTO THE EXISTING SURFACE. THE CONTRACT UNIT PRICE BID LINEAR FOOT (PER METER) FOR "EDGE KEY" INCLUDES ALL NECESSARY MATERIALS, LABOR AND EQUIPMENT NECESSARY TO PERFORM THE WORK AND DISPOSE OF THE REMOVED ASPHALT MATERIAL.

STANDARD DRAWINGS

STANDARD DRAWINGS ARE NOT ATTACHED TO THESE PLANS. A STANDARD DRAWING BOOK AND THE HEADWALL SUPPLEMENTAL BOOK MAY BE OBTAINED FROM THE POLICY SUPPORT BRANCH OF THE DEPARTMENT OF ADMINISTRATIVE SERVICES IN FRANKFORT, KENTUCKY AT 502-564-3670.

N.G.S. (U.S.G.S.) BENCH MARKS

DO NOT DISTURB N.G.S. (U.S.G.S.) BENCH MARKS IN ANY MANNER UNLESS DIRECTED BY THE ENGINEER.

ASPHALT PAVEMENT RIDE QUALITY

PAVEMENT RIDEABILITY REQUIREMENTS, IN ACCORDANCE WITH SECTION 410 OF THE STANDARD SPECIFICATIONS, SHALL APPLY TO THIS PROJECT. CATEGORY A SHALL APPLY.

COMPACTION OF ASPHALT MIXTURES

WILL ACCEPT THE COMPACTION OF ASPHALT MIXTURES FURNISHED FOR DRIVING LANES AND RAMPS AT ONE INCH OR GREATER ON THIS PROJECT BY OPTION A ACCORDING TO SUBSECTIONS 402 AND 403 OF THE CURRENT STANDARD SPECIFICATIONS. USE JOINT CORES AS DESCRIBED IN SUBSECTION 402.03.02 FOR SURFACE MIXTURES ONLY. WILL ACCEPT THE COMPACTION OF ALL OTHER ASPHALT MIXTURES BY OPTION B.

INSPECT AND CLEAN PIPE

THE CONTRACTOR SHALL INSPECT AND CLEAN ALL EXISTING PIPES AS DIRECTED BY THE ENGINEER THAT ARE TO REMAIN OF ALL SEDIMENT AND OTHER DEBRIS. THIS WORK SHALL BE DONE UNDER THE BID ITEM CLEAN ROADWAY DRAINS.

OLD FRANKFORT PIKE LANDFILL

THERE MAY BE SOLID WASTE STILL PRESENT WITHIN THE CURRENT RIGHT OF WAY NEAR OLD FRANKFORT PIKE AND NEW CIRCLE ROAD INTERCHANGE AT APPROXIMATE STA. 298+00 TO STA. 314+00. IF SOLID WASTE IS ENCOUNTERED DURING CONSTRUCTION IN THIS AREA IT IS TO BE DISPOSED OF AS SOLID WASTE AT AN APPROPRIATE FACILITY.

COUNTY OF	ITEM NO.	SHEET NO.
FAYETTE	7-113.01	R2N

GENERAL NOTES

KENTUCKY TRANSPORTATION CABINET
 COMMUNICATING ALL PROMISES (CAP)
 ACTIVE

Item No.	7 - 113.01	Project Mgr. kytcl\joshua.samples	
		County FAYETTE	Route KY-4
CAP #	Date of Promise	Promise made to:	Location of Promise
1	27-FEB-13	Marathon Pipe Line, LLC by Joshua Samples	Below Proposed Bridge Station 276+78
CAP Description			
The Contractor will call 811 before beginning work on the bridge over the 8" high pressure petroleum pipeline to insure the Marathon inspector is notified. The Contractor will leave the existing bridge supports in place below groundline. The Contractor will have timber mats or steel platting in place over the pipeline in any area which will have equipment over the pipeline or the possibility of falling material from the bridge removal.			
2	10-OCT-14	LEXTRAN by Joshua Samples	Right Old Frankfort Pike Sta. 40+00
CAP Description			
LEXTRAN will remove, store, and replace the bus stop shelter right of Old Frankfort Pike Sta. 40+00. The Contractor will call Michael Nagy (859-489-7956) with LEXTRAN 1 month prior to that work needing to be completed and will give Michael Nagy notice when the shelter can be replaced.			
3	15-OCT-14	USFWS by Becky Barrick	entire project
CAP Description			
The Contractor shall complete any tree cutting necessary for the project between October 15 and March 31.			
4	17-NOV-14	Clark Material Handling Co. by Rex Alexander	Parcel 11
CAP Description			
<p>a. Contractor(s) shall be advised by the Cabinet that the use of the pavement adjacent to Old Frankfort Pike and New Circle Ramp E by Property Owner is vital to Property Owner's operations, including without limitation, for loading, unloading and other logistics operations. In this context, Contractor(s) must limit its/their activities in the Temporary Easement at Rt. Old Frankfort Pike Station 43+00 to 46+00 in such ways as to at all times not in any way impede with or otherwise disrupt the activities of Property Owner in the Temporary Easement.</p> <p>b. Contractor(s) shall be advised by the Cabinet that Property Owner's employees, agents, guests and property will continue to operate in the area of the Temporary Easement and adjacent areas during the construction phase of the improvements contemplated by this Memorandum of Understanding. Contractor(s) shall be advised by the Cabinet that they must take all necessary steps to protect the safety of all such persons and property as it performs its construction activities in and around the Temporary Easement.</p> <p>c. Any and all damage to pavement or drainage system on P11 due to the activities of Contractor(s) shall be repaired promptly by Contractor(s) at their sole cost and expense.</p> <p>d. Once Contractor(s) begin work on the retaining wall along Old Frankfort Pike, all work related thereto shall be expedited, continuous, and completed in no more than ninety (90) calendar days.</p> <p>e. Property Owner shall have continuous use of the Temporary Easement for ingress and egress at all times.</p> <p>f. Property Owner's authorized representatives shall have the authority to bring any violations of the Memorandum of Understanding (including this Addendum B) and/or CAP Report to the attention of the KYTC on-site Resident Project Representative ("KYTC Rep"). In such cases, the KYTC Rep shall take all necessary and appropriate action with Contractor(s) to rectify in a timely fashion any violations brought to the KYTC's Rep by Property Owner. In the event that the KYTC Rep is unable or unwilling to cause any such violations to be rectified, Property Owner shall have the right and authority to take appropriate and necessary action against KYTC, Contractor(s) or both, to enforce the Memorandum of Understanding (including this Addendum B) and/or CAP Report. In this regard, Property Owner reserves all of its legal rights and remedies.</p>			

SPECIAL NOTES FOR CLEANING AND PAINTING

SPECIAL NOTE FOR SURFACE PREPARATION AND PAINT APPLICATION

SPECIAL NOTE FOR WASTE MANAGEMENT

SPECIAL NOTE FOR RECYCLABLE SURFACE PREPARATION RESIDUE
MANAGEMENT

SPECIAL NOTE FOR QUALITY CONTROL

SPECIAL NOTE FOR PAINT

SPECIAL NOTE FOR ENVIRONMENTAL AND WORKER SAFETY
REGULATIONS

SPECIAL NOTE FOR STENCILING

SPECIAL FOR NEW STEEL SURFACE PREPARATION AND PAINT APPLICATION

SPECIAL NOTE FOR SURFACE PREPARATION AND PAINT APPLICATION

All structural steel shall be cleaned and painted in accordance with the Kentucky Transportation Cabinet, Department of Highways, Standard Specifications for Road and Bridge Construction (current edition), and the following requirements:

A. PREQUALIFICATION, STAFFING AND SUBMITTALS

The Contractor(s) and/or subcontractor(s) performing painting operations shall Pre-qualified under **I18B** – Bridge Painting and submit the following **written** items to the Project Engineer **14 days** prior to the Pre-Construction Conference:

1. Worker Protection Plan. The Worker Protection Plan will be reviewed by the KYTC Engineer.
2. Environmental Compliance Plan, including a Waste Management and a Ground Water and Surface Water Protection Plan. The Environmental Compliance Plans will be reviewed by the KYTC Engineer.
3. Manufacturers' recommended Film Thickness and application conditions for the coating system to be used.
4. Rigging and Containment Plan, Design for rigging and containment shall be signed and stamped by a licensed Kentucky professional engineer. The design for rigging and containment will be reviewed by the KYTC engineer.

All submittals must be received, accepted and/or approved prior to beginning any work.

B. CONTAINMENT

All structural steel shall be totally enclosed during all phases of the work. All containment shall meet the criteria for **SSPC Guide 6 – Containment Classification Class 2A** for cleaning and painting of structural steel bridges.

Air Pressure- Negative air pressure meeting the requirements for **Type H2** shall be maintained.

Air Movement- A minimum air movement in containment is not specified but the contractor shall demonstrate that the air movement in the containment will provide the necessary engineering control to comply with OSHA worker safety requirements (i.e., lead standards as required by **29 CFR 1926**).

Emissions - Quantity of emissions from containment for structural steel bridges shall be assessed using Method A – Visible Emissions of **SSPC Guide 6** - Level 1 Emissions. Emissions shall be monitored for at least 15 minutes and reported in the logbook (**SEE SPECIAL NOTE FOR QUALITY CONTROL**) at least once for every four (4) hours of cleaning and painting.

Quantity of emissions from containment shall be assessed using **Method G** – Visual Assessment of Site Cleanliness. Results of the Method G assessment shall be reported in the logbook (**SEE SPECIAL NOTE FOR QUALITY CONTROL**).

Observance of emissions at any time may require (at the discretion of the Engineer) that cleaning and painting cease until the containment is sufficient to prevent emissions.

Provide proper (OSHA COMPLIANT) lighting on all operations (i.e. surface preparation, painting and inspection). Lighting for QA inspection shall meet the criteria described in **SSPC Guide 12** (Guide for Illumination of Industrial Painting Projects) for inspection.

The Contractor shall conduct EPA Ambient Air Monitoring for Toxic Metals (TSP-Lead) in accordance with 40 CFR 50 throughout all cleaning and painting operations including the removal of all containment materials and equipment from the project site. Background monitoring shall be conducted for a minimum of 3 days prior to mobilization of equipment and installation of containment materials. Additional monitoring may be requested at the discretion of the Engineer. Select an analytical laboratory which is approved to perform TSP-Lead analyses through the National Environmental Laboratories Accreditation Program (NELAP). Submit certified analytical results for each sample to the Engineer within 5 days of obtaining the sample. Emissions monitored by this method shall not exceed 1.5 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) as a 90 day average as defined in the National Ambient Air Quality Standard (NAAQS) for Lead. Calculations to determine adjusted acceptable allowances based on NAAQS and site specific schedules are detailed in SSPC Technology Guide No. 6 and SSPC Technology Update No. 7.

The contractor shall provide OSHA compliant safe access for all cleaning, painting, and inspections.

Wastes and residue deposited on the containment materials shall be collected daily. In addition, containment materials shall be cleaned prior to moving/dismantling. The Engineer may direct additional cleaning as conditions warrant.

C. SURFACE PREPARATION

Solvent Cleaning

All visible grease and oil shall be removed from the surface prior to abrasive blast cleaning. The surface shall be cleaned in accordance with **SSPC-SP 1** to remove oil, grease, and any other surface contaminants. Only solvents or detergents that are acceptable to the coating manufacturer and the Department shall be used. A clean cloth shall be used for the final wiping of the cleaned surface. All solvent cleaning materials shall be collected, handled, stored, and disposed of as hazardous waste.

Compressed Air

Compressed air used for any work shall be free from oil and/or water. The cleanliness of the compressed air shall be in accordance with **ASTM D 4285 (blotter test)**. The cleanliness of the compressed air shall be verified at least once per shift per compressor or as directed by the Engineer.

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 surface 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 **SSP-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 closely approaching Federal Standard 595 Color FS X4066.

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

E. PAINT STORAGE, HANDLING, SAMPLING, MIXING AND THINNING

A paint storage site for receiving and storing paint delivered for use on the project shall be established. The paint storage site shall be located separate from the job site. All new paint shall be received at the storage site for inventory and acceptance testing. At that time, have the Contractor's QC inspector (**SEE SPECIAL NOTE FOR QUALITY CONTROL**) and the Department's inspectors independently inventory the supplied paint by batch number and quantities delivered. Their tallies shall be compared and any differences resolved. The Department's inspector examines all paint containers delivered and rejects those with 1) broken seals, 2) rust, 3) and altered, missing or illegible batch numbers or labels. The Department's inspector numbers and initials each container with an indelible marker. A representative of the Department samples each lot of material (**SEE SPECIAL NOTE FOR PAINT**). Rejected paint containers shall be labeled "REJECTED" and dispose of them promptly. The unapproved and/or rejected containers of paint shall be stored separately from those that have been approved. No paint shall be permitted at the actual job site until the Division of Materials has approved it.

Both the Contractor's QC inspector and the Department's inspector shall conduct a daily start-up inventory of containers of approved paint brought to the job site noting batch numbers and the Department inspector's container number. At the end of the work day, the QC inspector and the Department's inspector shall conduct another inventory noting the number of paint containers expended, Department inspector's inventory numbers, and types of paint. Paint containers brought on the job site and not used shall be inventoried. Re-inventory those when they are taken back to the job site to be used.

The addition of solvents to paint shall be permitted **only** by written approval from the Engineer. Use only new solvents supplied by the paint manufacturer. Solvents shall only be used at the job site in the presence of the Department inspector. Solvents from new, unopened containers with the solvent manufacturer's labeling intact shall be used. The QC inspector shall record locations where solvent-thinned paint was used.

Solvents used for cleaning at the job site shall be kept in sealed containers away from mixing operations. Solvents used to clean brushes, rollers, or spray equipment shall be collected in sealed containers and stored as a hazardous waste.

The paint manufacturer shall be required to provide a technical representative at the job site when requested by the contractor or the Department at no additional cost to the Department.

F. WORKMANSHIP

All structural steel surfaces shall be properly cleaned and painted to the satisfaction of the Engineer. There shall be no provision for missed areas or substandard work regardless of size of the area in question. **All improperly prepared or painted surfaces shall be repaired to meet the provisions of this specification.**

Allowable field variation of the color of all cured finish coats on structural steel shall be $2.0\Delta E^*$. These values shall be obtained from a spectrophotometer utilizing a D65 illuminant at 45° illumination and 0° viewing with a 2° observer. The reference for this test shall be readings obtained on the initial test patch (**SEE SPECIAL NOTE FOR QUALITY CONTROL**). Surfaces with finish coats with color variations exceeding the $2.0\Delta E^*$ value shall be repainted at the option of the Engineer.

G. MEASUREMENT.

Clean and Paint Structural Steel: The Department will not measure the quantity.

H. PAYMENT.

Clean and Paint Structural Steel (08434): Payment at the contract lump sum price includes all labor, materials, rigging, containment, and all incidental items necessary to complete the work in accordance with these Notes, Plans, the Standard Specifications or as directed by the Engineer.

SPECIAL NOTE FOR WASTE MANAGEMENT

All wastes shall be collected and placed in appropriate containers on a daily basis. (**SEE SPECIAL NOTE FOR ENVIRONMENTAL AND WORKER SAFETY REGULATIONS**).

Industrial waste

Dispose of industrial wastes (non-hazardous wastes) such as paint buckets, paint-contaminated rags, rollers, clogged spray hoses and brushes. Store industrial waste in appropriate containers, and appropriately labeled, prior to disposal. Industrial waste containers not covered or designed to prohibit entry of water, must be included in and comply with Ground Water and Surface water Protection requirements (**SEE SPECIAL NOTE FOR ENVIRONMENTAL AND WORKER SAFETY REGULATIONS** - D. Groundwater and Surface water Protection).

Hazardous Waste

Hazardous materials shall be stored separate from paint debris. All non-reusable solvents used in cleaning shall be considered hazardous waste. Store solvent wastes in separate containers (i.e. not with the paint debris).

The Department will provide a site on its property for the Contractor to erect a temporary storage facility. Store surface preparation debris and hazardous wastes at that site, in a secured six-foot high chain-link fence enclosure. The enclosure shall be built in accordance with **Standard Drawing No. RFC-001-07** of the Kentucky Department of Highways Standard Drawings Book, with the **exception that concrete is not required for installation of posts**. The fence of the storage area must be firmly attached to metal posts and have a locked gate. The gate shall be secured to the fence post by a chain and a lock. Each side of the enclosure shall have appropriate placards forbidding unauthorized entrance and announcing that the area is a storage site for lead and hazardous wastes. Cover the ground where the containers will be stored with a waterproof tarpaulin. The contractor shall maintain the tarpaulin to avoid tears or punctures. Drums shall be set on skids that are placed on the tarpaulin. There shall be an adequate aisle space between the rows of stored drums so that the drums and labels can be inspected at any time. Areas around roll off containers shall be covered with tarpaulins. Tarpaulins shall be cleaned daily to remove collected lead bearing debris. The storage area shall be maintained / operated to prevent releases. The storage area shall have a spill clean-up kit. The kit shall include, but not be limited to shovel, broom, dustpan and absorbent material for solvents. There shall be access to communications or alarms whenever authorized personnel are in the storage compound.

The designated temporary storage facility shall be constructed and accepted by the Engineer prior to the onset of operations at the job site. The temporary storage facility shall be maintained during the active cleaning and painting of the bridge and return the site to its original state when the work is completed.

The Contractor shall be solely responsible for the management and the disposal of all hazardous waste generated during the cleaning and painting operations in accordance with the Kentucky Revised Statutes, Chapter 224, Subchapter 46, and the Kentucky Administrative Regulations promulgated pursuant thereto.

The Kentucky Transportation Cabinet will file a Notification of Hazardous Waste Activity with the Kentucky Division of Waste Management to obtain an EPA Identification Number in accordance with **401 KAR 32:010, Section 3**. The Cabinet will provide the Contractor with this EPA ID number to be used in hazardous waste management in compliance with **401 KAR 32:010, Section 3 (1)**.

The Contractor shall be responsible for furnishing appropriate U.S. DOT containers that are made or lined with materials which are compatible with the hazardous waste to be stored in accordance with **401 KAR 35:180, Section 3**. All hazardous wastes collected at the job site shall be placed in those containers for transport to the storage site. The containers shall be used and managed at the job site and at the storage site in accordance with **401 KAR 35:180**. Prior to the transfer of the containers of hazardous waste from the job site to the storage area, the containers shall be correctly sealed, labeled, marked and placarded as defined in the pre-transport requirements of **401 KAR 32:030**.

Each container shall be labeled "Hazardous Waste" and the date clearly marked when the hazardous waste is *first* added to the container in compliance with **401KAR 35:180, Section 4(3)**. That date marked is the *start date* of the **seventy-five (75)** day storage period

The generator for the waste under this contract is the Kentucky Transportation Cabinet. All records including the labels on the waste containers and the manifests shall be completed using the Transportation Cabinet as the generator.

The Department requires that all hazardous waste shall be removed within seventy-five (75) days of the accumulation start date. The Contractor shall select a registered hazardous waste transporter to transport the containers of hazardous waste generated during the painting operations to a permitted hazardous waste treatment, storage or disposal facility. The hazardous waste must be manifested with a Uniform Hazardous Waste Manifest that is to be completed, in entirety, as per the regulations of **401 KAR 32:020** and **401 KAR 32:100**. Copies of all manifests with the Land Disposal Restriction Notice must be provided to the Project Manager and the Central Office, Division of Construction. **Final partial payment of 15% for the project will not be released until the Department receives all copies of the manifests.**

Failure to remove the hazardous waste within **Seventy-Five (75) days** shall result in a performance penalty of **Two Thousand Dollars (\$2,000.00)** per drum per day or **Eight Thousand Dollars (\$8,000.00)** per cubic yard per day that the containers are left in storage. This penalty is in addition to any fines that may be assessed by regulatory agencies other than the Transportation Cabinet.

PAYMENT

All cost for Industrial and Hazardous waste disposal shall be considered incidental to the lump sum bid for Clean and Paint Structural Steel (08434).

SPECIAL NOTE FOR RECYCLABLE SURFACE PREPARATION RESIDUE MANAGEMENT

The surface preparation debris generated at structural steel bridges shall be transported and recycled as a commercial substitute material in a recycling effort. All waste/debris collection, handling, storage, transportation, and disposal shall be the responsibility of the contractor.

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 **SSP-AB 2** "Cleanliness of Recycled Ferrous Metallic Abrasive" standard.

Collection, Handling, and Storage of Wastes and Surface Preparation Debris

A "Competent Person for lead abatement" as defined by OSHA 1926.62 shall be on site during any operations which disturb lead. The "competent person" shall have successfully completed the **SSPC C3** "Supervisor/Competent Person Training for De-leading of Industrial Structures" or equivalent training.

All surface preparation debris shall be collected separate from waste materials and placed in appropriate containers on a daily basis. (**See Special Note for Environment and Employee Safety Regulations**)

Surface preparation debris

Surface preparation debris shall be separated from all wastes. While on-site, the surface preparation debris shall be managed as lead containing material. Precautions shall be taken to protect employees and the public from exposure to lead. Handling and storage of surface preparation debris shall be accomplished to prevent releases to the environment.

The Department will provide a site on its property for the Contractor to erect a temporary storage facility. Store surface preparation debris and hazardous wastes at that site, in a secured six-foot high chain-link fence enclosure. The enclosure shall be built in accordance with Standard **Drawing No. RFC-001-07** of the Kentucky Department of Highways Standard Drawings Book, with the **exception that concrete is not required for installation of posts**. The fence of the storage area shall be firmly attached to metal posts and have a locked gate. The gate shall be secured to the fence post by a chain and a lock. Each side of the enclosure shall have appropriate placards forbidding unauthorized entrance and announcing that the area is a storage site for lead and hazardous wastes. The ground where the containers will be stored shall be covered with a waterproof tarpaulin. The contractor shall maintain the tarpaulin to avoid tears or punctures. Drums shall be set on skids that are placed on the tarpaulin. There shall be an adequate aisle space between the rows of stored drums so that the drums and labels can be inspected at any time. Areas around roll off containers shall be covered with tarpaulins. Tarpaulins shall be cleaned daily to remove collected lead bearing debris. The storage area shall be maintained / operated to prevent releases. The storage area shall have a spill clean-up kit. The kit shall include, but not be limited to shovel, broom, dustpan and absorbent material for solvents. There shall be access to communications or alarms whenever authorized personnel are in the storage compound.

The designated temporary storage facility shall be constructed and accepted by the Engineer prior to the onset of operations at the job site. The temporary storage facility shall be maintained during the active cleaning and painting of the bridge and return the site to its original state when the work is completed.

The Contractor shall be solely responsible for the management and the disposal of all surface preparation debris and hazardous waste generated during the cleaning and painting operations. Hazardous wastes shall be managed in accordance with the Kentucky Revised Statutes, Chapter 224, Subchapter 46, and the Kentucky Administrative Regulations.

The Contractor shall be responsible for furnishing appropriate U.S. DOT-specified containers that are made or lined with materials that are compatible with the surface preparation debris per 49CFR173.213 (non-bulk containers) or 49CFR173.240 (bulk containers). All surface preparation debris collected at the job site shall be placed in those containers for transport to the storage site. Prior to the transfer of the containers of surface preparation debris from the job site to the storage area, the containers shall be correctly sealed, labeled, marked and placarded as defined in the pre-transport requirements of 49CFR172.301 (non-bulk containers) or 49CFR172.302 (bulk containers). The Contractor shall check with the recycler and the transporter to insure that containers acceptable to both parties are employed.

The Contractor shall be responsible for the quality of the surface preparation debris placed in disposal containers. Under NO circumstances shall the debris become wet or be co-mingled with miscellaneous wastes.

Transportation and recycling

All surface preparation debris shall be transported for recycling within 90 days of initial container filling operations. The contractor shall contact the recycler to arrange for the delivery of the surface preparation debris. The recycler is: The Doe Run Company: Resource Recycling Division, HC1 Box 1395, HWY 10K, Boss, MO 65440, phone (573) 626-4813, fax (573) 626-3304, email www.doerun.com. The contractor will complete the Doe Run Supplier Profile Form and provide copies of it to both Doe Run and the Engineer prior to transporting the surface preparation debris.

The contractor shall select a registered hazardous material (HAZMAT) transporter for transportation of the surface preparation debris. The contractor shall provide the necessary waste storage/transportation containers. The contractor shall arrange for the pick-up of the containers and delivery to the recycler.

NOTE: The contractor shall be responsible for the condition of the surface preparation debris provided to the recycler. Surface preparation debris that is wet debris or that is co-mingled with other waste will be rejected by the recycler. If that occurs, the contractor must dispose of the debris as a hazardous waste. The contractor must promptly inform the Engineer in that event so that KYTC can obtain the proper permitting from the Kentucky Environmental and Public Protection Cabinet. Additionally, the contractor shall be responsible for all transportation costs, hazardous waste disposal costs and fines that are incurred.

The contractor shall supply the Engineer with all weight tickets for the commercial substitute material transported and delivered to the recycler and all Certificates of Recycling issued by the recycler for material deliveries related to this project. **Final partial payment of 15% for the project shall not be released until the Engineer has received these documents.**

PAYMENT

All cost for the management and the disposal of all surface preparation debris and hazardous waste generated during the cleaning and painting operations shall be considered incidental to the lump sum bid for Clean and Paint Structural Steel (08434).

SPECIAL NOTE FOR QUALITY CONTROL

The contractor shall provide QC inspectors to monitor all work, insure that all work is completed in accordance with the Special Notes and Standard Specifications, and record inspection results. All QC inspectors shall possess at a minimum one of the following certifications: **SSPC-BCI level 1 or NACE CIP level 1 & CIP One Day Bridge Course**. The QC inspector(s) shall not perform production work that requires QC/QA inspection. The Department's (QA) inspector shall conduct in-progress reviews of the Contractor's operations and perform follow-up quality assurance (QA) inspections after the QC inspector has certified that a portion of work is complete. No production work will be permitted in a control area during a (QA) inspection.

Progress of Work - Work shall proceed by sections, bays or other readily identifiable parts of the structure. All work shall proceed from top to bottom of the structure. The work shall be broken down into adjacent sections (control areas) separated by bulkheads. Bulkheads shall be sealed to the containment and meet all **SSPC Guide 6 – Containment Classification Class 2A** requirements. Only one phase of work shall be permitted in a given control area at any time.

In any control area, Quality Control Point inspection and approval shall precede the start of succeeding phases of work. Quality Control Points are progress milestones that occur when one phase of work is complete and ready for inspection prior to continuing with the next operational step. At those points, the Contractor shall provide the Departments QA inspectors with OSHA compliant access to inspect all pertinent surfaces. If QA inspection indicates a deficiency, that phase of the work shall be corrected and re-inspected prior to beginning the next phase of work.

<i>Quality Control Point</i>	<i>QC Inspection Function</i>
1. Surface Preparation	
A. Solvent Cleaning	Visually inspect.
B. Abrasive Blast Cleaning	Measure surface profile Visually inspect for cleanliness.
2. Full Prime Coat Application	Check for dry film thickness, and defects in paint
3. Full Intermediate Coat (if applicable)	Check for dry film thickness, and defects in paint
4. Finish Coat Application	Check for dry film thickness, paint appearance, color and quality of application

The surface profile shall be verified with a minimum of 3 measurements per nozzle per shift. Each measurement shall be the average of 3 individual readings. Individual gage readings and averages shall be recorded in the log book. The Engineer may request additional measurements at any time.

Additional inspection techniques may be used by KYTC personnel as needed to included but not be limited to destructive testing, magnification, chemical means, etc.

The QC Inspector shall inspect prepared surfaces to determine whether those conform to the specification (see **SPECIAL NOTE FOR SURFACE PREPARATION AND PAINT APPLICATION**). Inspect each individual coat of paint using **KM 64-258-08 Procedure C**. Inspect for areas of incomplete coating coverage and coating defects. The Engineer may request tests, including destructive DFT tests, at additional sites or he may elect to perform additional tests.

The QC inspector shall maintain a handwritten record of all-painting activities, operations and inspections in the log book(s). At a minimum, the following information must be recorded:

1. all paint inventory and approval information,
2. daily records of ambient conditions (including all measurements taken),
3. daily progress of work information including start-up/shut-down times, bridge locations by control numbers, structural steel components by proper terminology and pertinent operations by control points, and
4. QC inspection information including evaluations at control points, rework comments, or approvals.

Make entries on consecutive pages of the logbook (in indelible ink) and make corrections by marking through mistakes with a single line. Do not remove pages or erase or obliterate entries in the logbook.

The QC inspector and QA inspector shall jointly assign adjacent control areas consecutive numbers and a short description defining their location. After completion of a phase of work in a control area, the QC inspector shall perform an inspection and shall determine whether the area has been satisfactorily prepared. If work in a control area is unsatisfactory, the QC inspector shall require the contractor to make the necessary corrections. That process shall be repeated as necessary until suitable corrections have been made. All logbooks shall be maintained at the job site at all times during the project, made available, upon request, to the Department's representatives and submitted to the Engineer at the end of the project for his review and records.

Test Patch - Prior to initiation of painting, prepare at least one test patch in each Section of work to serve as a standard for reference during the balance of the painting operations. The test patch shall be located at an accessible area incorporating surface types of the project. Use the specified surface preparation on a surface with at least 20 ft² per application method per coating plus 20 ft² for surface preparation.

When Central office personnel, the Engineer, QC inspector, and the QA inspector, agree that the appropriate level of cleanliness and surface preparation have been achieved, the contractor shall apply a clear sealer, supplied by the coatings manufacturer, to at least 20 ft² of the prepared surface. The contractor will then apply coating to the remainder (at least 20-ft²) of the test patch. Set aside the test patch area as a standard for proper application and appearance. Do not paint the reference areas until the balance of the project is completed. After the project is complete, re-blast the area of the test patch with clear sealer, and apply all specified coatings. Apply all coatings, including the clear sealer, in the presence of Central Office personnel, the Engineer, the QA inspector, QC inspector, and a technical representative of the paint manufacturer. If QC and QA inspectors agree, clear coat preservation of the test patch may be replaced with pictorial records.

PAYMENT

All cost to provide QC inspectors shall be considered incidental to the lump sum bid for Clean and Paint Structural Steel (08434).

SPECIAL NOTE FOR PAINT

Use a coatings system from an approved supplier. A list of approved suppliers shall be found in the Department's List of Approved Materials maintained by the Division of Materials. All paint supplied shall conform to the applicable Special Notes contained in this proposal. The Department requires acceptance testing of samples obtained on a per-lot basis per-shipment. The Division of Materials shall perform acceptance testing. At his option, the Engineer may elect to conduct more frequent sampling and testing. Test samples shall be taken at the Contractor's paint storage site. Department personnel shall perform sampling. Allow (10) working days for testing and approval of the sampled paint.

Note: It is the Contractor's responsibility to maintain an adequate inventory of approved paint. The Department shall assume no responsibility for lost work due to rejection of paint or approved paint subsequently found to be defective during the application process.

SPECIAL NOTE FOR ENVIRONMENTAL AND WORKER SAFETY REGULATIONS

(A) Governing regulations

The existing paint in this project may contain lead, which is classified as a hazardous (toxic) material. Be knowledgeable of and comply with, all **lead-related** environmental and health regulations governing the Contractor's operations. Comply with regulations current at the time the work is performed and all requirements herein. Collect, transport to waste storage sites, and store hazardous wastes in accordance with applicable environmental and health regulations. The contractor is solely responsible for collection, transport, storage and disposal of all industrial and hazardous wastes.

(B) Liabilities and Obligations

The contractor shall be solely responsible for compliance with all applicable environmental and health and safety regulations to the satisfaction of the applicable government regulatory agencies and the Department. The Department assumes no obligations or liabilities for work stoppages or fines due to enforcement actions by government regulatory agencies or to related delays that the Department deems necessary.

(C) State and Local Regulatory Agencies

State and local regulatory agencies charged with enforcing **most** regulations affecting the generation of hazardous wastes and worker safety issues are:

Kentucky Occupational Safety and Health Program, Labor Cabinet, Commonwealth of Kentucky, Frankfort, Kentucky

Environmental and Public Protection Cabinet, Commonwealth of Kentucky, Frankfort, Kentucky

(D) Groundwater and Surface water Protection

The contractor shall prepare and implement a groundwater and surface water protection plan in accordance with **401 KAR 5:037 (Ground Water), KRS 224.70-110 and 401 KAR 10:031 (Surface water)** with the exception that hazardous waste or hazardous materials container volume is not limited to greater than 55 gallons or weight to 100 pounds.

SPECIAL NOTE FOR STENCILING

The Bridge Number, the Month and year of the completion date, and any existing panel number system or panel number system set forth in the contract shall be stenciled on the structure at locations determined by the Engineer. Make the legend in letters and numerals at a minimum of 3 inches and maximum of 6 inches tall, and use a paint color that contrasts with the background.