



**CALL NO. 348**

**CONTRACT ID. 222251**

**VARIOUS COUNTIES**

**FED/STATE PROJECT NUMBER FE01 121 DW22 0110000**

**DESCRIPTION VARIOUS ROUTES IN DISTRICT 11**

**WORK TYPE WATERBOURNE PAINT STRIPING**

**PRIMARY COMPLETION DATE 8/15/2022**

**LETTING DATE: February 24,2022**

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 am EASTERN STANDARD TIME February 24,2022. Bids will be publicly announced at 10:00 am EASTERN STANDARD TIME.

**NO PLANS ASSOCIATED WITH THIS PROJECT.**

**REQUIRED BID PROPOSAL GUARANTY:** Not less than 5% of the total bid.

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**PART I**  
**SCOPE OF WORK**

## ADMINISTRATIVE DISTRICT - 11

**CONTRACT ID - 222251**

**FE01 121 DW22 0110000**

**COUNTY - VARIOUS**

**PCN - MP12100002211**

**FE01 121 DW22 0110000**

VARIOUS ROUTES IN DISTRICT 11 VARIOUS ROUTES IN DISTRICT 11 WATERBOURNE PAINT STRIPING

GEOGRAPHIC COORDINATES LATITUDE 37:02:01.00 LONGITUDE 83:49:31.00

### COMPLETION DATE(S):

COMPLETED BY 08/15/2022	SPECIFIED COMPLETION DATE - ALL ITEMS IN CONTRACT
COMPLETED BY 06/01/2022	SPECIFIED COMPLETION DATE - PRIORITY ROUTES
5 WORKING Days	REMOVE STRIPING ERRORS AND SPILLS
15 CALENDAR Days	RESTRIPING ROUTES WITH FAILED RETROREFLECTIVITY

## **CONTRACT NOTES**

### **PROPOSAL ADDENDA**

All addenda to this proposal must be applied when calculating bid and certified in the bid packet submitted to the Kentucky Department of Highways. Failure to use the correct and most recent addenda may result in the bid being rejected.

### **BID SUBMITTAL**

Bidder must use the Department's electronic bidding software. The Bidder must download the bid file located on the Bid Express website ([www.bidx.com](http://www.bidx.com)) to prepare a bid packet for submission to the Department. The bidder must submit electronically using Bid Express.

### **JOINT VENTURE BIDDING**

Joint venture bidding is permissible. All companies in the joint venture must be prequalified in one of the work types in the Qualifications for Bidders for the project. The bidders must get a vendor ID for the joint venture from the Division of Construction Procurement and register the joint venture as a bidder on the project. Also, the joint venture must obtain a digital ID from Bid Express to submit a bid. A joint bid bond of 5% may be submitted for both companies or each company may submit a separate bond of 5%.

### **UNDERGROUND FACILITY DAMAGE PROTECTION**

The contractor shall make every effort to protect underground facilities from damage as prescribed in the Underground Facility Damage Protection Act of 1994, Kentucky Revised Statute KRS 367.4901 to 367.4917. It is the contractor's responsibility to determine and take steps necessary to be in compliance with federal and state damage prevention directives. When prescribed in said directives, the contractor shall submit Excavation Locate Requests to the Kentucky Contact Center (KY811) via web ticket entry. The submission of this request does not relieve the contractor from the responsibility of contacting non-member facility owners, whom shall be contacted through their individual Protection Notification Center. Non-compliance with these directives can result in the enforcement of penalties.

### **REGISTRATION WITH THE SECRETARY OF STATE BY A FOREIGN ENTITY**

Pursuant to KRS 176.085(1)(b), an agency, department, office, or political subdivision of the Commonwealth of Kentucky shall not award a state contract to a person that is a foreign entity required by [KRS 14A.9-010](#) to obtain a certificate of authority to transact business in the Commonwealth ("certificate") from the Secretary of State under [KRS 14A.9-030](#) unless the person produces the certificate within fourteen (14) days of the bid or proposal opening. If the foreign entity is not required to obtain a certificate as provided in [KRS 14A.9-010](#), the foreign entity should identify the applicable exception. Foreign entity is defined within [KRS 14A.1-070](#).

**For all foreign entities required to obtain a certificate of authority to transact business in the Commonwealth, if a copy of the certificate is not received by the contracting agency within the time frame identified above, the foreign entity's solicitation response shall be deemed non-responsive or the awarded contract shall be cancelled.**

Businesses can register with the Secretary of State at <https://secure.kentucky.gov/sos/ftbr/welcome.aspx>.

### **SPECIAL NOTE FOR PROJECT QUESTIONS DURING ADVERTISEMENT**

Questions about projects during the advertisement should be submitted in writing to the Division of Construction Procurement. This may be done by fax (502) 564-7299 or email to [kytc.projectquestions@ky.gov](mailto:kytc.projectquestions@ky.gov). The Department will attempt to answer all submitted questions. The Department reserves the right not to answer if the question is not pertinent or does not aid in clarifying the project intent.

The deadline for posting answers will be 3:00 pm Eastern Daylight Time, the day preceding the Letting. Questions may be submitted until this deadline with the understanding that the later a question is submitted, the less likely an answer will be able to be provided.

The questions and answers will be posted for each Letting under the heading "Questions & Answers" on the Construction Procurement website ([www.transportation.ky.gov/contract](http://www.transportation.ky.gov/contract)). The answers provided shall be considered part of this Special Note and, in case of a discrepancy, will govern over all other bidding documents.

### **HARDWOOD REMOVAL RESTRICTIONS**

The US Department of Agriculture has imposed a quarantine in Kentucky and several surrounding states, to prevent the spread of an invasive insect, the emerald ash borer. Hardwood cut in conjunction with the project may not be removed from the state. Chipping or burning on site is the preferred method of disposal.

### **INSTRUCTIONS FOR EXCESS MATERIAL SITES AND BORROW SITES**

Identification of excess material sites and borrow sites shall be the responsibility of the Contractor. The Contractor shall be responsible for compliance with all applicable state and federal laws and may wish to consult with the US Fish and Wildlife Service to seek protection under Section 10 of the Endangered Species Act for these activities.

### **ACCESS TO RECORDS**

The contractor, as defined in KRS 45A.030 (9) agrees that the contracting agency, the Finance and Administration Cabinet, the Auditor of Public Accounts, and the Legislative Research Commission, or their duly authorized representatives, shall have access to any books, documents, papers, records, or other evidence, which are directly pertinent to this contract for the purpose of financial audit or program review. Records and other prequalification information confidentially

disclosed as part of the bid process shall not be deemed as directly pertinent to the contract and shall be exempt from disclosure as provided in KRS 61.878(1)(c). The contractor also recognizes that any books, documents, papers, records, or other evidence, received during a financial audit or program review shall be subject to the Kentucky Open Records Act, KRS 61.870 to 61.884.

In the event of a dispute between the contractor and the contracting agency, Attorney General, or the Auditor of Public Accounts over documents that are eligible for production and review, the Finance and Administration Cabinet shall review the dispute and issue a determination, in accordance with Secretary's Order 11-004.

April 30, 2018

## **SPECIAL NOTE FOR RECIPROCAL PREFERENCE**

### **RECIPROCAL PREFERENCE TO BE GIVEN BY PUBLIC AGENCIES TO RESIDENT BIDDERS**

By reference, KRS 45A.490 to 45A.494 are incorporated herein and in compliance regarding the bidders residency. Bidders who want to claim resident bidder status should complete the Affidavit for Claiming Resident Bidder Status along with their bid in the electronic bidding software. Submittal of the Affidavit should be done along the bid in Bid Express.

April 30, 2018

**NATIONAL HIGHWAY**

Be advised that some routes in this project are on the NATIONAL HIGHWAY SYSTEM.

**SPECIAL NOTES FOR WATERBORNE PAINT STRIPING  
AND DURABLE WATERBORNE PAINT STRIPING  
2022 DISTRICT WIDE CONTRACTS – DISTRICT 11**

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**DESCRIPTION**

Except as specified herein, perform all work according to the Commonwealth of Kentucky, Transportation Cabinet, Department of Highways' 2019 Standard Specifications for Road and Bridge Construction; Supplemental Specifications; applicable Standard and Sepia Drawings; applicable Special Notes and Special Provisions; and Kentucky Methods; current editions. Section references are to the Standard Specifications.

**SCOPE OF WORK**

Furnish and apply waterborne striping paint for 4 inch lines and durable waterborne striping paint for 6 inch lines, reflectorized with glass beads, to the sections of roadway provided in this Contract with an updated listing provided at the pre-construction meeting. This Contract is for the installation of centerlines, lane lines, edgelines, ramp lines, dotted lines and gore lines only. Gore line materials shall be the same as the mainline of the roadway. Special markings such as stop bars, crosswalks, cross-hatching, chevrons, railroad markings, etc. are not to be installed under this Contract.

Intersection approach markings such as the edgelines of large painted islands or edgelines on mountable medians may be included at the discretion of the Engineer provided they can be painted by the striping truck. Markings that would require application by equipment other than the striping truck are not to be installed under this Contract.

Retrace existing lines on the listed routes. The Department will pre-mark any section of roadway where there are no existing markings, old markings are no longer visible, or where the existing markings are to be changed. Do not place edge lines on any section of roadway where edgelines do not currently exist without written authorization from the Chief District Engineer. Use only one paint crew per route per county.

**MATERIALS FOR WATERBORNE AND DURABLE WATERBORNE PAINT STRIPING**

**PAINT:** Furnish paint materials for this project to meet the performance requirements detailed in Sections 842 and 846 of the Standard Specifications.

Submit initial samples for each paint formulation for approval prior to initiation of the striping operations. The Contractor's paint manufacturer may submit the initial sample directly to the Department. The Department will obtain subsequent samples of paint in accordance with the Materials Field Sampling Manual when striping operations are in progress. A minimum of one sample will be obtained per color, per truck, per week and shall represent the quantity of striping applied per week. Deductions for application of non-specification paint shall be assessed to the quantity of striping represented by the sample.

**BEADS:** Use sufficient beads to ensure the pavement marking material meets retroreflectivity requirements. The Department will evaluate beads as part of the installed pavement marking in accordance with Kentucky Method 202 or 203 as applicable. Testing of the coatings, gradation and quality of the product applied shall be the responsibility of the Contractor.

### **MATERIALS SAMPLING AND ACCEPTANCE**

If two or more random samples obtained during striping operations fail to meet minimum compositional requirements, striping operations shall be discontinued at the discretion of the Engineer. In the event striping operations are discontinued, the Department will randomly sample and test each batch of paint the Contractor has in stock at the storage location.

For batches of paint that fail to meet the minimum compositional criteria, the stock material will be rejected. The Contractor will be required to remove all failing paint from his central storage location. Batches that are tested and found to be in compliance with the compositional requirements may be used. After the Department has sampled all of the material at the central storage area, sampling and testing will resume according to the Materials Field Sampling Manual as soon as striping operations resume.

A deduction in payment will be made for any paint used that fails to meet material requirements according to Sections 842 and 846 as applicable.

### **EQUIPMENT**

Each striper shall be equipped with electrical foot counters. The counters shall individually tabulate the amount of footage applied by each striping gun on the carriage, whether solid or dashed. The counters shall be capable of measuring up to six digits and shall have a reset feature. The counters shall be calibrated in the presence of a Department representative to insure an accurate measurement of the paint applied. Perform the calibration prior to starting striping operations and as necessary thereafter. When done, the Department's representative will record the calibrations on the Engineer's Daily Work Report (DWR).

Each striper shall be equipped with an accurate dashing mechanism, capable of being adjusted to retrace existing lane line, dotted lines, or centerline markings as directed by the Engineer. The striper shall also be equipped with a detection device that will automatically cutoff the paint guns when a raised or recessed pavement marker is detected in the pavement. The Contractor, at his own expense, shall **replace any pavement marker lens painted over; DO NOT attempt to clean.**

Equip each striper with a Data Logging System (DLS) that will record operational details during striping operations, store data, and generate and export reports on a daily basis to the manufacturer's secure server. Provide only DLS equipment certified by the manufacturer. Ensure the data is in Microsoft Excel format, or a comma or spaces delimited text file adequate for insertion into a computerized spreadsheet. The DLS shall monitor and report the quantities of paint and beads consumed in line and calculate, in real time, the gallons of paint per mile, average wet film thickness, and pounds of beads per gallon of paint for each line application. The DLS shall monitor and report the ambient temperature, pavement temperature, and paint temperature, and record the data at the beginning of each line application and at a minimum of 1 mile increments during application. The DLS shall be capable of storing and supplying the necessary scaling and calibration parameters to the flow meters, and shall provide a means of adjusting the scaling factor as necessary. The DLS shall include a remote cab mounted display, which shall indicate in real time, pavement temperature, application rate of paint in gallons per mile, paint film thickness in mils, and application rate of beads in pounds per gallon. In addition the Contractor's striper shall also be equipped with a calibrated measuring device for monitoring quantities of paint and beads consumed in line.

Export to the secure server a DLS report as raw data, and as an Excel spreadsheet containing the following information: route; the beginning and ending mile points; the beginning and ending coordinates determined by a Global Positioning System receiver with a 16 foot accuracy, and the direction of travel; line type, indicated as CL (Yellow Center Line Double-Solid, Mono- directional passing, or Bi-directional passing); EL (White Edge Line on all roads or Yellow Edge Line on Solid Median Multi-Lane Highways and Interstates); LL (Solid Yellow or White Lane Line to define turn or merge lanes); SK (Dashed Yellow or White Line 10'stripe/30'gap); GM (Gore Marking installed at 2x the Edge Line Width); DTLE (Dashed Yellow or White Line Extension 3'stripe/9'gap); line width; line color; direction of application (this must be indicated for each direction travelled i.e. must include a separate entry for both the North and South directions, cannot be one entry that says direction was North/South); weight of paint applied in pounds or number of strokes counted, appropriate scaling factors; paint film thickness in mils; paint application rate in gallons per mile; bead application rate in pounds per gallon; paint temperature obtained immediately after the heat exchanger; ambient temperature; pavement temperature; and vehicle speed in miles per hour. Report application and temperature data in one-mile increments for each line applied. Provide GPS mapping system that is capable of real time (within 20 minutes) tracking of material application rates, film thickness, beads pounds per gallon, vehicle speed, time, date, project numbers, operator manual data, and color coded alarms for film thickness. Film thickness alarms must have a tolerance of  $\pm 0.5$  mils.

Provide access to stored data on a secure password protected website. The Department reserves the right to obtain any and all raw data recorded by the DLS at any time during this Contract. The Engineer may require field verification of the DLS operation and calibration at any time to ensure the accuracy of the DLS data and output. If field personnel suspect that the DLS data and/or output are not accurate, the Engineer may direct additional checks be performed. The secure server shall allow the Department to be able to create a Daily Striping Report which automatically fills from the DLS's data. It shall auto-populate all fields shown on the attached DSR except for Route Type, Mobile, and Corrective Re-stripe. These fields will be drop downs to be chosen by the user. The route length shall be calculated from the GPS data and not the manually entered milepoints. The DSR shall compute the total striped line length in "Totals Summary" once the user picks the "Route Type."

Prior to starting striping operations, make all strippers available at a central location within Kentucky designated by the Department for inspection by the Department for compliance to Kentucky Method 64-267 and DLS requirements. Striping trucks that can fulfill the requirements of this method and these notes will be approved for use on this Contract. Striping trucks that have not been approved for use by Department personnel will not be allowed to stripe as part of this Contract. The Department reserves the right to perform random field verifications of striping equipment during this Contract.

The Engineer may require the Contractor to provide detailed operating instructions from the manufacturer of the striping equipment and/or the DLS if quality or reporting issues arise at any time during the Contract. The Contractor shall then be required to operate the striping equipment within the suggested operating guidelines of the manufacturer, with particular emphasis on the speed of the striping operation, or make other adjustments until the quality of the striping is satisfactory to the Engineer.

The Contractor shall provide a separate sweeping unit powerful enough to remove normal highway dirt and debris. This unit shall not be a part of the stripper.

Provide the KYTC inspector the same form of direct communication with the paint striping crew as that used by the paint striping crew (CB Radio, 2-Way Radio, etc.). The Department will return the item to the Contractor upon completion of the Contract.

### **SURFACE PREPARATION**

Prepare the pavement surface for the striping operation in accordance with Section 713.03.02. Sweep all pavement surfaces prior to striping and maintain the cleaning operation far enough in advance of the striping operation to prevent any dust from the cleaning operation from mixing with the paint. The sweeper must maintain contact with the roadway. When the Engineer determines abnormal amounts of debris or other material have accumulated beyond the capability of the required sweeping unit which will require shoveling or other means to remove, the Engineer will make arrangements,

prior to painting, to have the material removed by the Department or that section of roadway will be deleted from the Contract.

## **CONSTRUCTION**

Except as specified herein, apply all striping according to Section 713.

## **QUALITY CONTROL (QC) and QUALITY ASSURANCE (QA)**

The Contractor shall designate a Quality Control Coordinator (QCC) for the project who will be the contact person for any questions or concerns regarding the quality of the work performed under this Contract. The QCC shall:

- Hold current qualification from the Department as a Pavement Marking Inspection Technician;
- Plan and oversee the Contractor's evaluation of the lines applied on the project;
- Complete and submit Daily Striping Reports to the Engineer within 24 hours of completion of that days striping;
- Ensure that the DLS manufacturer submits electronic DLS raw data and Excel spreadsheets from the secure server by e-mail, at the e-mail addresses provided at the preconstruction meeting, to designated field personnel no later than the first working day following application of the pavement markings.
- Verify the electronic records are completed and received by the Engineer prior to the records being removed from the pavement marking equipment.
- Coordinate and review or Perform KM-202, for each section of striping and provide completed test reports (electronic copy) along with printouts from the handheld retroreflectometer to the Engineer within one (1) working day of completion (failure to provide the printouts will cause the Department to not accept that section and require corrective work in order to be eligible for the final 50% payment).
- Document all adjustments made to the application process to consistently produce the quality of line desired;
- Notify the Engineer of any changes in the striping work plan that are determined necessary
- Inform and mobilize crews to complete restriping or corrective work (after notification by the Department);
- Supply the appropriate certifications for paint and the DLS to the Engineer assigned to the particular project at the time of sampling;
- Track the quantities of materials supplied by the Contractor's vendors and applied by the painting crew;
- Meet with the Engineer to discuss and/or conduct field reviews on the project throughout the execution of the Contract;
- Perform QC testing in accordance with KM-202 for each section of striping on zones selected by the Department based on KM-64-113 The Department will **NOT** provide advanced notice of the randomly selected zones to the Contractor

prior to the striping being placed, but will only provide the locations for each randomly selected zone on the day of the test. The Department's QA inspector will coordinate the date of the test with the Contractor's QCC.

At the Pre-construction Conference, the Contractor shall furnish the Department for approval a Quality Control Plan (QCP) that covers in detail the following items:

- The name, address, phone and fax numbers for the QCC;
- The names of individuals other than the QCC taking readings in accordance with KM-202 (these people shall hold qualification from the Department as Pavement Marking Inspection Technicians);
- An overall work plan which states the estimated starting and completion dates for the entire project, the number of crews to be used on the project and a general description of how the project will be completed;
- A description of the striping equipment to be used on the project, including make and model of each striper, minimum and maximum operating speeds, and type of instruments to be used to calibrate the flow of paint and beads;
- The frequency and method to be used to monitor application rates and quality of the line (specifically with regard to retroreflectivity, width, thickness, bead distribution, tracing accuracy, etc.);
- A list of paint(s) and bead(s) to be used in this Contract along with a statement from the paint manufacturer that indicates the recommended minimum and maximum application temperatures for ambient temperature, pavement temperature, paint temperature, and guidelines for any other environmental factors that would adversely affect the successful performance of the paint;
- The contact person, phone, e-mail and fax numbers for reporting claims for paint on vehicles
- A description and product literature of the reflectometer to be used by the Contractor;
- A description, product literature, and manufacturer's certification of the DLS to be used by the Contractor;
- The manufacturer's sampling procedure for sampling paint from the tote.

Obtain the Engineer's acceptance of the Contractor's QCP prior to the start of work. The Department reserves the right to require the Contractor to make changes in the QCP to obtain the quality specified in the Contract.

After acceptance by the Department, the Contractor shall notify the Engineer in writing of any proposed change(s) to the QCP. Proposed changes are subject to acceptance by the Department.

The Department will perform Quality Assurance (QA) testing on (at least) one segment of each section of striping completed by the Contractor. QA testing is intended to verify the Contractor's QC test data. Upon receipt of the Contractor's QC test reports for each section, the QA Inspector will randomly select (at least) one segment for QA evaluation. The Department will **NOT** provide advance notice to the Contractor of the selected

segment. The Department will perform the test in accordance with KM-202 with the exception that QA testing will be conducted within the later of 30-60 calendar days after the striping application or 2 weeks of receipt of the Contractor's QC report.

The Department will base payment for each section evaluated in accordance with KM-202 on the Contractor's QC test results if the QC and QA mean values for each segment selected for QA testing differ by less than 10% of the QA mean value.

If a dispute should arise regarding the acceptability of the Contractor's QC test results the dispute resolution shall be conducted as follows:

1. If the retroreflectivity values obtained during the QA testing within a segment indicate a change in pay quantities (i.e. QC readings are passing and QA readings are failing) and the mean values differ by more than 10% of the QA mean value; additional testing will be required. Discard the original QC and QA test results for the section in question. The QA will randomly establish three new zones, in accordance with KM-113, in each segment within the section in question. The QC and QA will jointly evaluate each new zone within the section in accordance with KM-202 (with the exception of the evaluation period if greater than 60 days). The QC test results for each segment will be used for evaluation of the section if the QC and QA mean values for each segment differ by less than 10% of the QA mean value.
2. If the variance between QC and QA testing does not indicate a change in the pay quantities for the section (i.e. QC and QA readings are both passing) however, the QC mean values differ by more than 10% of the QA mean value, additional readings will not be required. Accept the QC test results for evaluation of the section. However, additional testing within the section in question should be conducted as soon as possible to determine the cause of the discrepancy. The Contractor and the Engineer shall document the resolution to the discrepancy.
3. If resolution to a dispute or variance of QC and QA test results cannot be achieved by the QC and QA, additional testing will be required. Discard the QC and QA test results for the section in question. Additional testing will be conducted by the QC, QA, and representatives of Central Office Division of Materials. Additional testing will be conducted within two weeks of receipt of a written request from the Engineer to the Division of Materials for each section in question. Three new zones, randomly selected in accordance with KM-113, will be established by the QA for each segment of the section in question. Each instrument to be used for testing will be calibrated in the presence of Central Office representatives prior to initiation of testing. The QC, QA and Central Office representatives will obtain readings for each new zone in accordance with KM-202 (with the exception of the evaluation period if greater than 60 days). The QC test results for each segment will be used for evaluation of the section if the QC mean values for each segment differ by less than 10% to the mean value obtained by Central Office. The QA test results for each segment will be used for evaluation of the section if the QC mean

values differ by more than 10% to the mean value obtained by Central Office and the QA mean value differs by less than 10% to the Central Office mean value. If neither the QC nor QA mean values meet these requirements, the Central Office mean value for each segment will be used to evaluate the section in question. These results will be final and the basis of payment for the section in question.

The Contractor shall incur all costs associated with additional testing performed by Department personnel for dispute resolution that does not result in the use of QC test data as the basis of payment. These costs will include the cost to maintain and control traffic.

The Department reserves the right to take over the QC portion of testing. In the event that the Department exercises this option, the Contractor will incur the cost of testing performed by the Department.

The Department reserves the right to evaluate retroreflectivity on designated routes, in whole or in part, in accordance with KM-203. The Department will identify routes or portions of routes to be evaluated in accordance with KM-203. The evaluation of a section in accordance with KM-203 will be conducted at the Departments expense.

The Department will require the Department's approved vendor performing retroreflectivity evaluation in accordance with KM-203 to successfully demonstrate compliance to his/her quality control procedures prior to collection of data for this Contract. The Department will select an appropriate test site for demonstration purposes and conduct joint evaluations of both yellow and white longitudinal markings within the test site using approved 30M geometry handheld instruments. The demonstration will be deemed successful if the mean average obtained by the approved vendor differs by less than 10% to the mean average obtained by the Department for each marking evaluated within the test site.

The Department will base payment for each section evaluated in accordance with KM-203 solely on the test results obtained by the Department's approved vendor. Completed test results submitted by the Department's approved vendor will be considered final and are not subject to dispute.

The Department will furnish the Contractor with a blank electronic copy of the Contractors Daily Striping Report (DSR). The Contractor shall complete and furnish this standard DSR to the Engineer's office the next calendar day for each crew for each color and width of line applied. The information on the DSR shall reflect the milepoints and quantities for striping completed for that day and for that crew. The Contractor shall also include with the DSR the certification for the paint used on that day's striping according to Section 842.05 and 846.05, as applicable.

Export DLS reports each calendar day to the manufacturer's secure server. Ensure that the DLS manufacturer submits electronic DLS raw data and Excel spreadsheets from the secure server by e-mail, at the e-mail addresses provided at the preconstruction meeting, to the designated field personnel no later than the first working day following application

of the pavement markings. Verify the electronic records are completed and received by the Engineer prior to the records being removed from the pavement marking equipment.

### **APPLICATION OF STRIPING**

Roadways shall be marked with 4", 6", 8" and 12" lines as indicated in the summaries and/or as directed by the Engineer. The four-inch line shall be not less than four inches nor more than five inches in width. The six-inch line shall be not less than six inches nor more than seven inches in width. The centerline of all newly applied lines shall be within one inch of the centerline of the existing stripe. Mark all State Primary System Routes and other routes listed on the summaries for 6 inch striping using Durable Waterborne Paint meeting the requirements of Section 846, except as specified herein. Mark all other routes with four-inch lines using Waterborne Paint meeting the requirements of Section 842, except as specified herein. Apply gore lines at twice the width of the normal line width on that portion of roadway. All lines shall have distinct, clean edges with proper bead distribution across the entire width and length of the line.

Passing zones and lane lines shall be installed as a 10' segment of paint with a 30' gap. The length of the 10' segment shall not be less than 10' nor longer than 10 feet 6 inches. The stripe- gap cycle shall be not less than 39 feet 6 inches and no longer than 40 feet 6 inches.

Apply paint, in a single pass, in accordance with the application rates in Section 713.03.03. Contrary to Section 713.03.03, the Contractor may apply beads at any application rate that meets the retroreflectivity requirements of Section 713.03.05.

The Contractor shall be responsible for protecting the painted line from traffic until dry in order to eliminate tracking. Retroreflectivity readings will be taken on zones with substantial amounts of tracking and the readings will be used in the calculation of payment. If the Engineer directs or the Contractor elects to use additional traffic control devices beyond what is specified in the TRAFFIC CONTROL PLAN, or other methods to control tracking, the additional cost shall be incidental to the bid item "Maintain and Control Traffic".

If the Engineer determines that the quality of the striping applied by the Contractor is unsatisfactory with regard to retroreflectivity, bead distribution, paint thickness, overspray, accuracy of retracing, line width, consistency, tracking, etc., the Engineer may stop the striping operation immediately until the Contractor can demonstrate that the problem has been corrected. If it is determined by the Engineer that the striping is not applied at the specified application rate, restriping will be required.

### **CLEANING OF APPLIED STRIPING**

The Contractor has the option to clean accumulated debris from affected route prior to performing QC testing. Cleaning is defined as a single pass using the broom truck to remove accumulated debris from the affected striping. Notify the Engineer 48 hours prior to performing the cleaning operations.

### **MARKING REMOVAL**

The Contractor shall be responsible for all necessary cleanup of any paint or other material that is spilled onto the pavement or elsewhere as a result of his operations and for correcting any striping error (including tracking and rain damage) that the Engineer determines removal to be required. Contrary to Section 713.03.04, remove all striping errors or paint spills by water blasting only (see attached note) at no additional cost to the Department. This removal process shall be performed in a manner that shall not be detrimental to the pavement. Upon notification of a striping error or paint spill by the Engineer, the Contractor shall be required to begin the process of correcting the striping error or paint spill within five (5) working days and shall work continuously to complete the corrective work prior to striping any other section of roadway included in this Contract.

Prior to retracing, the Engineer will notify the Contractor if existing striping errors need to be removed. Contrary to Section 713.03.04, remove all existing striping errors by water blasting only (see attached note). The Department will measure and pay for water blasting removal of existing stripes directed by the Engineer in linear feet.

### **PAINT ON VEHICLES**

The Contractor shall be responsible for addressing disputes with the public regarding paint on vehicles that occur as a result of his operations. All complaints from the public shall be addressed in a timely manner and the Contractor must demonstrate a “good faith” attempt to resolve disputes to the satisfaction of the citizen. However, the Contractor shall have the right to dispute fault and refuse settlement in cases where the Contractor feels that paint on the vehicle was a result of negligence on the part of the citizen. Unresolved disputes involving paint on vehicles shall be handled through the legal system. The Department shall not be held responsible for paint on vehicles under any circumstances.

### **RETROREFLECTIVITY REQUIREMENTS**

The minimum retroreflectivity requirements shall be in accordance with Section 713.03.05A of the Standard Specifications.

Restriping will be required for striping that fails to meet to meet the minimum retroreflectivity requirements. The provisions for restriping are described in the section of the Contract entitled MEASUREMENT AND PAYMENT. Complete the restriping within 15 calendar days after notification by the Engineer except that restriping will be suspended after **October 15, 2022** until the following spring at the discretion of the Engineer. All restriping not completed by **October 15, 2022** will be restriped at the Engineer's discretion as a priority route in the spring of 2023 and completed by **June 1, 2023**. All aspects of this specification shall apply to lines that are repainted due to failure to meet the requirements of the specifications, including the retroreflectivity requirements.

### **SCHEDULING**

At the Pre-construction conference, the Engineer may provide the Contractor with a list of Priority Routes (not to exceed 10 percent of the total project estimate) which are to be striped prior to **June 1, 2022**. The painting of all scheduled routes shall be completed by **August 15, 2022**.

The Contractor shall coordinate the daily striping schedule, one week in advance, with the Engineer. Unless approved by the Engineer, complete all striping in a county, for that type of paint, before starting striping for that type of paint in another county (for this Contract there are 4 types of paint striping: 4" yellow, 4" white" 6" yellow, and 6" white). The Contractor shall ensure that once striping begins on a section that ALL striping on that section must be completed within **two (2) weeks**. Failure to comply with this requirement will result in withholding of pay estimates.

The Engineer may eliminate any route from the schedule at any time prior to striping if it is determined that the route does not require retracing. Also, the Engineer may add additional routes to be striped. The Contractor shall be notified of added routes prior to July 1, 2022.

### **CONTRACT COMPLETION AND LIQUIDATED DAMAGES**

All priority routes shall be striped by **June 1, 2022**. Contrary to the Standard Specifications, no time extension will be granted for failure to complete striping of these priority routes by the **June 1, 2022** milestone completion date. Liquidated damages in the amount specified in Section 108.09 of the Standard Specifications will be assessed for each day that any priority route remains unstriped after **June 1, 2022**.

Sections that are required to be re-striped due to failure to meet retroreflectivity requirements must be completed within 15 calendar days after notification by the Engineer. The Department will assess Liquidated Damages in the amount specified in Section 108.09 of the Standard Specifications for each day beyond the 15 calendar days that the restriping is not completed and shall accrue until **October 15, 2022**. Failure to

complete all necessary corrective work by the **October 15, 2022** deadline will result in no additional payment for the stripe beyond the 50% that was initially paid for the installation of the stripe and payment will be based upon the Payment Schedule. At the Engineer's discretion, necessary corrective work not completed by the **October 15, 2022** deadline may be required to be restriped in the spring of 2023 as a priority route with a completion date of **June 1, 2023**. Any re-stripe required by the Engineer that is not completed by **June 1, 2023** shall accrue liquidated damages until **October 15, 2023**.

All routes that are required to be striped under this Contract shall be completed by **August 15, 2022**. Contrary to the Standard Specifications, no time extension will be granted. Liquidated damages will apply in accordance with Section 108.09 of the Standard Specifications for failure to complete the striping by August 15, 2022. Liquidated damages will accrue until October 15, 2022; no striping shall be performed after this date.

Remove all striping errors and spills within five (5) working days after notification by the Engineer. Liquidated damages, in the amount specified in Section 108.09 of the Standard Specifications, shall apply for each day beyond the five (5) working days that the Contractor has not begun to correct the striping error/spill or continuously work to complete the corrective work.

The Department will apply all Liquidated Damages accumulatively.

### **RE-TESTING OF FAILURES**

The Department's costs associated with re-testing of striping failures for Kentucky Method 203 shall be reimbursed to the Department by the Contractor. The reimbursement shall include mobilization of the Department's mobile striping vendor's mobile testing machine as well as the current per mile rate for the mobile striping according to the Cabinet's Master Agreement.

### **MEASUREMENT AND PAYMENT**

**STRIPING:** The Department will measure the paint striping of each type in linear miles of paint stripe. The Department will measure the quantity at twice the rate for a 4-inch line when an 8- inch line is applied or twice the rate for a 6-inch line when a 12-inch line is applied.

The Department will pay 50% of the Contract Unit Bid price for the applicable bid items after application of all striping to a particular section of roadway. Contrary to Section 104.02.02, the overrun and underrun formula shall not apply to this Contract. The remaining payment will be made based upon the following procedure and the Payment Schedule:

1. Each section of striping will be evaluated in accordance with KM-202 or KM-203, as applicable, and the QC/QA testing specified herein, for the purpose of evaluating retroreflectivity.
2. If a Section is accepted in accordance with the appropriate Kentucky Methods, the Department will make final payment according to the Payment Schedule listed below.
3. If a section is not accepted in accordance with the appropriate Kentucky Methods, restripe the entire section within fifteen (15) calendar days after notification by the Engineer subject to the same requirements as the original striping at no additional cost to the Department. If the restriped Section is accepted in accordance with the appropriate Kentucky Methods, the Department will make final payment according to the following Payment Schedule. If the section is not restriped by October 15, 2022, the Department will not make final payment and restriping may be required in the spring of 2023 where the corrective will become a priority route and re-striping must be completed by June 1, 2023. If the Engineer does not require re-striping to be completed in the spring of 2023, the Contractor shall accept the deduction in payment for the section that has been determined to be unacceptable.

**Payment Schedule**

	Initial Payment	Final Payment	Total Payment
Section is Accepted	50%	50%	100%
Section is Not Accepted	50%	0%	50%

**QUALITY CONTROL:** The Department will measure and pay the quantity as one lump sum. The Department will not measure the QCP, the DLS, any actions and personnel required to carry out the QCP, any testing, any testing equipment, or any other work necessary to perform the specified QC/QA procedures for payment, but will consider them incidental to this item of work.

**MAINTAIN AND CONTROL TRAFFIC:** See Traffic Control Plan.

**LAW ENFORCEMENT OFFICER:** See Traffic Control Plan.

**WATER BLASTING EXISTING STRIPE:** See Special Note for Water Blasting Existing Stripe.

## **SPECIAL NOTE FOR CENTERLINE & EDGELINE RUMBLE STRIPES**

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Be advised there may be some centerline and edgeline rumble stripes to be retraced. Place centerline and edgeline rumble stripes according to Standard Drawings TPR-100 through TPR-130. Notify the Engineer if questions arise regarding the striping patterns. If necessary, the Engineer will obtain guidance from the District Traffic Engineer and/or the Division of Traffic.

**SPECIAL NOTE FOR WATER BLASTING EXISTING STRIPE**

This Special Note will apply where indicated on the plans or in the proposal. Section references herein are to the Department’s 2012 Standard Specifications for Road and Bridge Construction.

**1.0 DESCRIPTION.** Remove pavement striping, temporary or permanent, from asphalt or concrete pavement using ultra-high pressure water.

**2.0 MATERIALS AND EQUIPMENT.**

**2.1 Truck Mounted Ultra-high Pressure Pump and Water Tank.** Use a truck having a separate hydrostatic transmission capable of speed increments of ±1 foot per minute at operator’s discretion. Use a pump capable of delivering a minimum of 30,000 psi to a bumper mounted deck containing an operator controlled rotating manifold that is speed variable up to at least 3,000 rpm and accepts interchangeable waterjet nozzles. Provide all necessary waterjet nozzle setups and patterns to ensure clean sufficient removal. Ensure the deck’s discharge directs the water and removal material in a manner that is not hazardous to vehicles or pedestrians.

**2.2 Water.** Conform to Section 803.

**3.0 CONSTRUCTION.** Before starting work, provide the Engineer with a contractor work history of 2 projects where striping removal was completed acceptably for a similar type of pavement. If no history is available, complete 1,000 linear feet of striping removal and obtain the Engineer’s approval before continuing.

Conduct striping removal under lane closures meeting the conditions of the MUTCD and Kentucky Standard Drawings and Specifications. Waterblast to remove temporary or permanent striping completely as the Engineer directs. Do not damage the pavement in any way and protect all joint seals. If damage is observed, stop the removal process until the operator can make changes and demonstrate acceptable striping removal. Repair any damage to the pavement. Vacuum all marking material and removal debris concurrently with the blasting operation.

**4.0 MEASUREMENT.** The Department will measure the quantity in linear feet. When the removal area’s width exceeds 8 inches and a second pass is required, the Department will measure the length of the additional pass for Payment. The Department will not measure for payment additional passes for widths of 8 inches or less or passes to further eradicate markings. The Department will not measure repair of damaged pavement for payment and will consider it incidental to this item of work.

**5.0 PAYMENT.** The Department will make payment for the completed and accepted quantities under the following:

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
22664EN	Water Blasting Existing Stripe	Linear Foot

The Department will consider payment as full compensation for all work required under this note.

October 30, 2012

## **SPECIAL NOTE FOR PROJECTS TO BE RESTRIPE IN 2021 & 2022**

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Be advised that some projects listed herein may be scheduled for resurfacing in 2022. The Engineer may delete the striping on these routes from this Contract.

Be advised that some projects listed herein were scheduled for resurfacing or restriping in 2021, but may have been **cancelled or postponed**. The Engineer may add the striping on **cancelled** routes to this Contract.

**EXPERIMENTAL / ENHANCED STRIPING LOCATIONS**

Be advised that experimental and/or enhanced striping materials may be in place at the following locations. Verify with the Engineer if experiment has been concluded and/or if the enhanced striping can be retraced. Obtain the Engineer’s approval before retracing any of these route segments. If the existing stripes on these routes are restriped without the Engineer’s prior approval, be responsible for replacing the experimental and/or enhanced markings in like kind material and design at no additional cost to the Department.

District	County	Route	BMP	EMP	Dimension	Material
1	Marshall	US 62	0.000	7.258	6"	Thermoplastic
2	Christian	KY 115	2.322	2.877	4"	Thermoplastic
2	Union	KY 130	9.584	15.657	6"	Thermoplastic
3	Warren	KY 185	0.000	0.428	4"	HPS-8
3	Warren	I-65 (SB Only)	28.400	29.200	6"	HPS-8
3	Allen	KY 100	0.000	8.830	6"	Thermoplastic
4	Hardin	KY 9002	1.093	5.582	6"	HPS-8 & Polyurea
4	Hardin	KY 9002	5.582	8.837	6"	HPS-8, Polyurea, Thermoplastic, & Durable Waterborne
4	Taylor	KY 70	0.000	13.963	6"	Thermoplastic
4	Nelson	US 150	1.697	2.285	6"	Thermoplastic
4	Nelson	KY 245	0.000	0.122	6"	Thermoplastic
4	Taylor	US 68	7.404	13.531	6"	Thermoplastic
4	Marion	US 68	0.000	9.145	6"	Thermoplastic
5	Jefferson	I-71 S / 1-64 W Ramp to I-65 SB			6" and 12"	Thermoplastic
5	Franklin	US 421	0.000	3.072	6"	HPS-8
5	Franklin	KY 676	0.000	5.287	6"	HPS-8
5	Bullitt	KY 480	0.000	3.010	6"	Thermoplastic
6	Grant	I-75	162.600	164.400	6"	Thermoplastic
6	Kenton	I-75	186.750	190.700	6" and 12"	HPS-8
6	Boone	US 25	3.983	5.379	6"	Thermoplastic
6	Boone	KY 338	0.000	1.003	6"	Thermoplastic
6	Boone	KY 536	13.116	14.208	6"	Thermoplastic
6	Grant	KY 22	5.758	10.630	6"	Thermoplastic
7	Fayette	KY 1973	19.205	21.752	6"	Thermoplastic & Tape
7	Madison	US 25	0.000	2.863	6"	Thermoplastic & Tape

District	County	Route	BMP	EMP	Dimension	Material
7	Fayette	US 421	0.000	8.166	6"	HPS-8
7	Scott	US 421	0.000	0.754	6"	HPS-8
7	Scott	US 62	0.000	0.825	6"	HPS-8
7	Woodford	US 62	14.470	16.459	6"	HPS-8
7	Woodford	US 421	0.000	4.931	6"	HPS-8
7	Jessamine	KY 169	12.000	16.548	6"	Thermoplastic
7	Madison	KY 627	0.000	0.573	6"	HPS-8
7	Montgomery	KY 213	0.675	5.322	6"	Thermoplastic
7	Woodford	KY 338	0.000	11.646	4"	Thermoplastic
7	Scott	U 62	5.943	7.693	6"	Thermoplastic
8	Casey	KY 70	0.000	32.650	6"	Thermoplastic & Tape
8	Pulaski	KY 70	0.000	13.814	6"	Thermoplastic & Tape
8	Rockcastle	KY 70	0.000	6.566	6"	Thermoplastic & Tape
8	Rockcastle	I-75	71.600	73.400	6"	Thermoplastic
8	Rockcastle	US 25	0.000	27.052	6"	Thermoplastic & Tape
9	Rowan	US 60	0.240	7.099	6"	Thermoplastic
9	Rowan	US 60	9.683	17.112	6"	Thermoplastic
9	Carter	KY 9	0.000	18.262	6"	Thermoplastic
9	Bath	KY 36	0.000	0.890	6"	Thermoplastic
9	Nicholas	KY 36	5.335	13.642	6"	Thermoplastic
9	Greenup	US 23	23.000	28.760	6"	Thermoplastic
11	Laurel	I 75	41.290	44.000	6"	Thermoplastic
11	Laurel	US 25	13.621	23.949	6"	Thermoplastic & Tape
12	Pike	KY 632	0.000	7.000	6"	Durable Waterborne

## COORDINATION OF WORK WITH OTHERS

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Be advised, the Department may issue permits for work on the Department's right of way adjacent to or within the limits of this project. See Sections 107.06 and 107.14. The Engineer will coordinate the work of the Contractor and the permit holders.

Be advised, there may be an active project(s) adjacent to or within this project. The Engineer will coordinate the work of the Contractors. See Section 105.06.

Be advised the Department may be performing work adjacent to or within this project. The Engineer will coordinate the Department's operations with the Contractor's work. See Section 105.11.

The Department will not grant any time extension or monetary consideration, and will not consider any claims if the Contractor's forces are delayed in their operations.

## TRAFFIC CONTROL PLAN DURABLE WATERBORNE AND WATERBORNE PAINT STRIPING

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1. Maintain and Control Traffic in accordance with the Standard Specifications for Road and Bridge Construction, Supplemental Specification, Standard and Sepia Drawings, and the MUTCD, current editions.
2. Contrary to Section 112, include all items necessary to maintain and control traffic in the lump sum bid item “Maintain and Control Traffic”. The Department will measure and pay only the bid items listed; consider all other work and necessary items to be incidental to the listed bid items. The Department will measure and pay “Maintain and Control Traffic” as one lump sum.
3. Maintain possession of all temporary traffic control items, devices, materials, and incidentals, unless otherwise specified in the proposal, when no longer needed.
4. If the Contractor desires to deviate from the traffic control scheme outlined in the Standard Drawings, prepare an alternate plan and present it in writing to the Engineer. Do not use the alternate plan until reviewed and approved by the District Engineer and the Divisions of Construction, Maintenance, and Traffic Operations.
5. Provide for the Contractor’s vehicles to always move with and not across or against the flow of traffic. Do not allow vehicles to make U-turns at any location. Do not allow the striper to stop and back down the road or ramps to stripe gore lines and turn lanes. Require vehicles to enter or leave work areas in a manner that will not be hazardous to, or interfere with, normal traffic flow. **If approved in advance by the Engineer, the contractor may use rolling road blocks to stripe intersections, not to exceed five (5) minutes duration, allowing the paint truck and broom to back up and paint the entire intersection.** Do not allow vehicles to park or stop within the right-of-way except within work areas designated by the Engineer. Do not allow personal vehicles to park within the right-of-way except in specific areas designated by the Engineer.
6. Do not allow the paint supply truck to operate as one of the traffic control vehicles shown on the Standard Drawings. If one of the required traffic control vehicles experiences mechanical problems or for some other reason is not available to remain in position as shown in the traffic control scheme, cease the striping operation until all required vehicles are in place.
7. Do not perform striping operations on any roadway during the peak times of the day, holiday periods, or special events as determined by the Engineer.
8. On two-lane, two-way highways, make provisions to the satisfaction of the Engineer to periodically allow traffic to safely pass the train of vehicles in the striping operation. **When painting center lines release traffic at least every two (2) miles.**

Traffic Control Plan  
Durable Waterborne & Waterborne Paint Striping  
Page 2 of 2

9. In low speed, urban situations, the Engineer may permit the Contractor to delete the intermediate trail vehicle between the striper and the final trail vehicle shown on the Standard Drawings.
  
10. If requested by the Contractor, the Engineer may approve Law Enforcement Officer Police Support on Interstate highways when striping operations are taking place. If the Contractor requests Law Enforcement Officer Police Support on other than Interstate Highways, provide written justification for the Engineer's approval. If approved, provide two (2) police support units for each lane closure, each unit consisting of an off-duty law enforcement officer from any police agency having lawful jurisdiction and a police car equipped with externally mounted flashing blue lights. Place the police support unit at locations determined by the Engineer. The Department will measure and pay for each approved individual police support unit on a per hour basis for the officer with the police vehicle.

## CONTRACT COMPLETION DATE AND LIQUIDATED DAMAGES

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All priority routes shall be striped by **June 1, 2022**. Contrary to the Standard Specifications, no time extension will be granted for failure to complete striping of these priority routes by the **June 1, 2022** milestone completion date. Liquidated damages in the amount specified in Section 108.09 of the Standard Specifications will be assessed for each day that any priority route remains unstriped after **June 1, 2022**.

Sections that are required to be re-striped due to failure to meet retroreflectivity requirements must be completed within 15 calendar days after notification by the Engineer. The Department will assess Liquidated Damages in the amount specified in Section 108.09 of the Standard Specifications for each day beyond the 15 calendar days that the restriping is not completed and shall accrue until **October 15, 2022**. Failure to complete all necessary corrective work by the **October 15, 2022** deadline will result in no additional payment for the stripe beyond the 50% that was initially paid for the installation of the stripe and payment will be based upon the Payment Schedule. At the Engineer's discretion, necessary corrective work not completed by the **October 15, 2022** deadline may be required to be restriped in the spring of 2023 as a priority route with a completion date of **June 1, 2023**. Any re-stripe required by the Engineer that is not completed by **June 1, 2023** shall accrue liquidated damages until **October 15, 2023**.

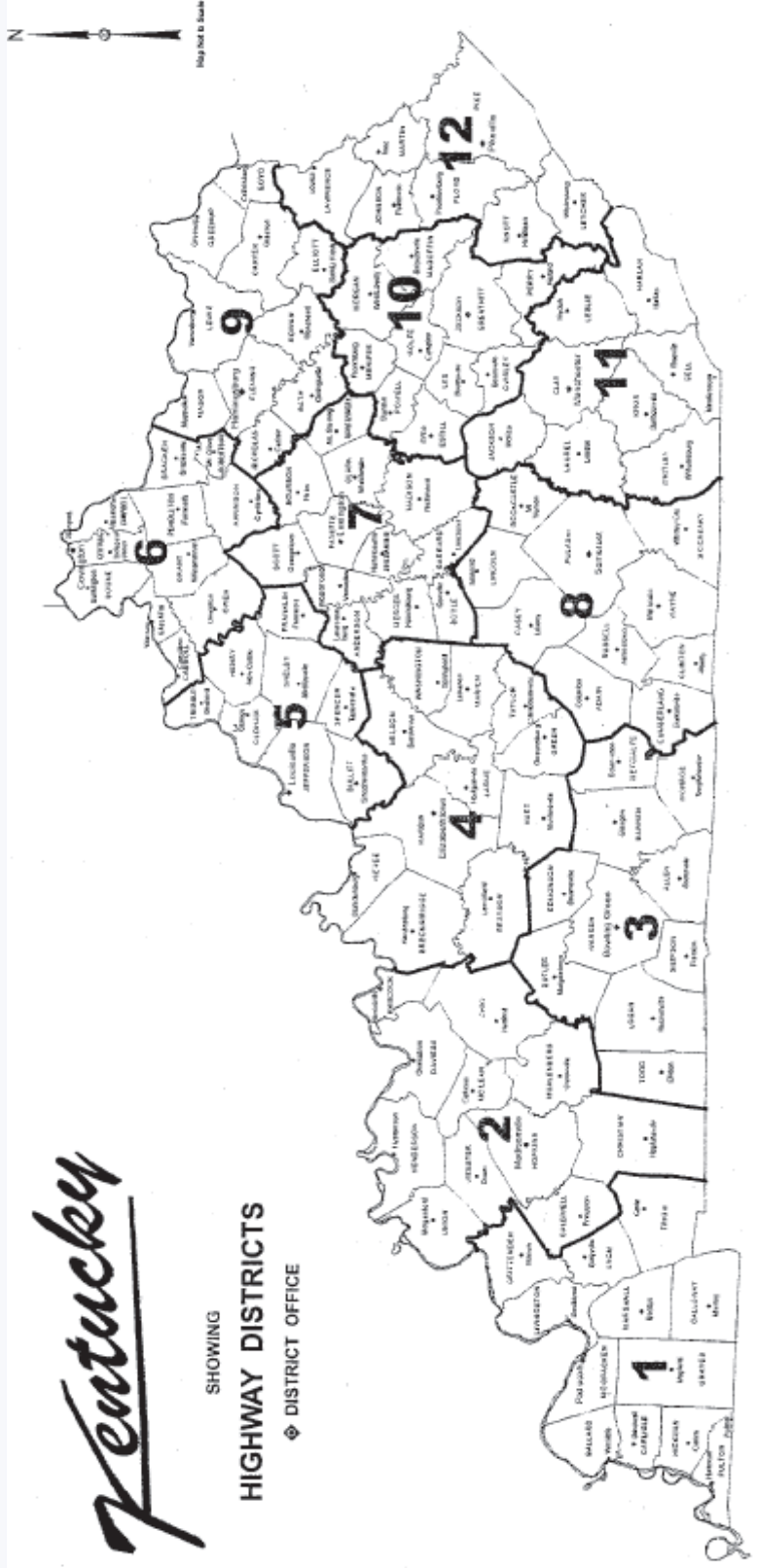
All routes that are required to be striped under this Contract shall be completed by **August 15, 2022**. Contrary to the Standard Specifications, no time extension will be granted. Liquidated damages will apply in accordance with Section 108.09 of the Standard Specifications for failure to complete the striping by August 15, 2022. Liquidated damages will accrue until October 15, 2022; no striping shall be performed after this date.

Remove all striping errors and spills within five (5) working days after notification by the Engineer. Liquidated damages, in the amount specified in Section 108.09 of the Standard Specifications, shall apply for each day beyond the five (5) working days that the Contractor has not begun to correct the striping error/spill or continuously work to complete the corrective work.

The Department will apply all Liquidated Damages accumulatively.



# Highway District Map



**2022 DURABLE WATERBOURNE STRIPING - DISTRICT 11  
 INTERSTATE & PARKWAY SYSTEM**

County	Route	Begin	End	Begin Yellow	End Yellow	Yellow Length	Yellow Miles	Begin White	End White	White Length	White Miles	Comments
Clay	Hal Rogers Parkway	10.593	15.600	10.593	15.600	5.007	9.013	10.593	15.600	5.007	11.015	
Clay	Hal Rogers Parkway	19.517	35.929	19.517	35.929	16.412	29.542	19.517	35.929	16.412	36.106	
Laurel	Hal Rogers Parkway	8.831	10.593	8.831	10.593	1.762	3.524	8.831	10.593	1.762	3.577	
Whitley	I-75 Ramps						1.300				2.733	Exit 25 only
<b>TOTALS INTERSTATE AND PARKWAY</b>							<b>43.378</b>	<b>53.432</b>				

- NOTES 1. 6" LINES - DURABLE WATERBOURNE STRIPING - SECTION 846.**  
**2. ESTIMATED QUANTITIES ONLY. RE-TRACE AS DIRECTED BY THE ENGINEER.**  
**3. THE DEPARTMENT WILL MEASURE AND PAY ONLY ACTUAL QUANTITIES RE-TRACED**

**2022 WATERBOURNE STRIPING - DISTRICT 11  
STATE SECONDARY AND SUPPLEMENTAL SYSTEMS**

County	Route	Begin	End	Begin Yellow	End Yellow	Yellow Length	Yellow Miles		Begin White	End White	White Length	White Miles		Comments
							4" Lines	6" Lines				4" Lines	6" Lines	
Bell	KY 66	0.000	4.985	0.000	4.985	4.985	9.970		0.000	4.985	4.985	9.970		
Bell	KY 74	11.291	13.340	11.291	13.340	2.049	4.098							MP & RS Route
Bell	KY 74	13.340	16.753	13.340	16.753	3.413	7.167		13.340	16.753	3.413	7.850		MP & RS Route
Bell	KY 92	0.000	11.160	0.000	11.160	11.160	20.088		0.000	11.160	11.160	22.320		
Bell	KY 190	4.098	11.174	4.098	11.174	7.076	14.152							EL Updated
Bell	KY 190	14.580	21.573	14.580	21.573	6.993	13.986		14.580	21.573	6.993	13.986		EL Updated
Bell	KY 221	0.000	12.633	0.000	12.633	12.633	22.739		0.000	12.633	12.633	25.266		
Bell	KY 441	4.257	4.897	4.257	4.897	0.640	1.600		4.462	4.897	0.435	0.870		MP & RS Route
Bell	KY 2079	0.000	3.036	0.000	3.036	3.036	6.072		2.250	3.036	0.786	1.572		
Bell	KY 2396	0.000	0.492	0.000	0.492	0.492	0.984		0.000	0.492	0.492	0.984		
Bell	KY 2398	0.000	0.631	0.000	0.631	0.631	1.262							
Bell	KY 2401	0.000	1.136	0.000	1.136	1.136	2.613							
Bell	KY 2402	0.000	1.392	0.000	1.392	1.392	2.784							
Bell	KY 3492	0.000	0.585	0.000	0.585	0.585	1.170							

Clay	US 421	0.000	13.692	0.000	13.692	13.692	24.646		0.000	16.915	16.915	33.830		
Clay	KY 11	0.000	26.623	0.000	26.623	26.623	47.921		0.000	26.623	26.623	53.246		
Clay	KY 66	0.000	33.179	0.000	33.179	33.179	59.362	0.360	0.000	33.179	33.179	65.958	0.400	6" Stripe MP 32.90 to 33.10
Clay	KY 66C	0.000	0.177	0.000	0.177	0.177	0.354		0.000	0.177	0.177	0.354		
Clay	KY 80	0.000	7.332	0.000	7.332	7.332	13.198		0.000	7.332	7.332	14.664		
Clay	KY 873	0.000	3.952	0.000	3.952	3.952	7.114		0.899	3.952	3.053	6.717		
Clay	KY 2438	0.000	0.185	0.000	0.185	0.185	0.370							
Clay	KY 2440	0.000	0.057	0.000	0.057	0.057	0.114							
Clay	KY 2440	0.215	0.574	0.215	0.574	0.359	0.718							
Clay	KY 2467	0.000	2.300	0.000	2.300	2.300	4.600							
Clay	KY 3479	0.000	0.251	0.000	0.251	0.251	0.502		0.000	0.160	0.160	0.320		

Harlan	KY 38	0.000	8.504	0.100	8.504	8.404	15.127		0.100	8.504	8.404	16.808		Omit MP 0.00 to 0.10
Harlan	KY 38	8.504	29.474	8.504	29.474	20.970	41.940		8.504	27.557	19.053	38.106		
Harlan	KY 160	11.035	11.846	11.035	11.846	0.811	1.622							
Harlan	KY 160	11.846	14.584	11.846	14.584	2.738	5.476		11.846	14.584	2.738	5.476		
Harlan	KY 221	0.000	21.560	0.000	21.560	21.560	38.808		0.000	21.560	21.560	43.120		
Harlan	KY 221	21.560	26.767	21.560	26.767	5.207	10.414							
Harlan	KY 413	0.000	5.022	0.000	5.022	5.022	10.044							
Harlan	KY 3001	0.000	6.960	0.000	6.960	6.960	13.920		0.000	6.960	6.960	13.920		
Harlan	KY 3463	0.000	1.641	0.000	0.837	0.837	1.674		0.837	1.641	0.804	1.608		Portion EL Only

Jackson	KY 89	15.638	31.750	15.638	28.482	12.844	23.119		28.482	31.750	3.268	6.536		MP & RS Route Portion EL Only
Jackson	KY 290	0.000	8.850	0.000	8.850	8.850	15.930		0.000	8.850	8.850	17.700		
Jackson	KY 3443	0.000	2.580	0.000	2.580	2.580	5.160							
Jackson	KY 3629	0.000	0.600	0.000	0.600	0.600	1.200		0.000	0.600	0.600	1.200		
Jackson	KY 3630	0.000	12.523	0.000	12.523	12.523	22.541		0.000	12.523	12.523	25.046		

Knox	KY 6	9.494	13.571	9.494	13.571	4.077	7.339		9.494	13.571	4.077	8.154		Omit MP 13.571 to 14.214
Knox	KY 6	14.214	14.733	14.214	14.733	0.519	0.934							Omit MP 13.571 to 14.214
Knox	KY 11	0.000	10.108	0.000	10.108	10.108	18.194		9.974	10.108	0.134	0.268		
Knox	KY 11	10.108	22.694	10.108	22.694	12.586	22.655		10.108	22.694	12.586	25.172		
Knox	KY 225	11.955	15.019	11.955	15.019	3.064	5.515		11.955	15.019	3.064	6.128		MP & RS Route
Knox	KY 229	0.000	8.572	0.000	8.572	8.572	15.430		0.000	8.572	8.572	17.144		
Knox	KY 830	0.000	3.755	0.000	3.755	3.755	6.759							MP & RS Route
Knox	KY 830	3.755	4.469	3.755	4.469	0.714	1.285		3.755	4.469	0.714	1.428		MP & RS Route
Knox	KY 1487	0.000	1.176	0.000	1.176	1.176	2.705							
Knox	KY 2413	0.000	0.198	0.000	0.198	0.198	0.396							
Knox	KY 2419	0.000	0.384	0.000	0.384	0.384	0.768							
Knox	KY 2420	0.000	0.376	0.000	0.376	0.376	0.752							
Knox	KY 2421	0.000	1.125	0.000	1.125	1.125	2.250							
Knox	KY 2423	0.000	0.949	0.000	0.949	0.949	1.898							
Knox	KY 3606	0.000	1.286	0.000	1.286	1.286	2.315		0.000	1.286	1.286	2.572		

**2022 WATERBOURNE STRIPING - DISTRICT 11  
STATE SECONDARY AND SUPPLEMENTAL SYSTEMS**

County	Route	Begin	End	Begin Yellow	End Yellow	Yellow Length	Yellow Miles		Begin White	End White	White Length	White Miles		Comments
							4" Lines	6" Lines				4" Lines	6" Lines	
Laurel	US 25	9.028	13.621	9.028	13.621	4.593	10.564		9.028	13.621	4.593	11.942		
Laurel	KY 80	11.211	15.210	11.211	15.210	3.999	7.198		11.211	15.210	3.999	7.998		
Laurel	KY 80	19.827	24.927	19.827	24.927	5.100	9.180		19.827	24.927	5.100	10.200		
Laurel	KY 192	0.000	3.981	0.000	3.981	3.981	7.166		0.000	3.981	3.981	7.962		
Laurel	KY 192	3.981	12.590	3.981	12.590	8.609		15.496	3.981	12.590	8.609		17.218	6" Stripe
Laurel	KY 192	12.590	18.228	12.590	18.228	5.638	10.148		12.590	18.228	5.638	11.276		
Laurel	KY 229	0.000	12.211	0.000	12.211	12.211	21.980		0.000	12.211	12.211	24.422		
Laurel	KY 312	4.063	7.179	4.063	7.179	3.116	6.232		6.561	6.740	0.179	0.358		MP & RS Route
Laurel	KY 354	0.000	1.106	0.000	1.106	1.106	2.212							
Laurel	KY 363	0.000	3.462	0.000	3.462	3.462	6.924		0.000	3.462	3.462	6.924		
Laurel	KY 363	7.096	7.368						7.096	7.368	0.272	0.680		EL and Turn Lane at Wyan Pine
Laurel	KY 363	3.462	11.105	3.462	11.105	7.643	16.050		9.101	9.753	0.652	1.434		
Laurel	KY 770	0.000	1.243	0.000	1.243	1.243	2.237		0.000	1.243	1.243	2.486		
Laurel	KY 830	0.000	0.222	0.000	0.222	0.222	0.444							MP & RS Route
Laurel	KY 909	0.000	0.431	0.324	0.431	0.107	0.214		0.324	0.431	0.107	0.214		
Laurel	KY 909	0.431	1.067	0.431	1.067	0.636	1.145		0.431	1.067	0.636	1.272		
Laurel	KY 1006	5.364	6.899	5.364	6.899	1.535	3.070		5.364	5.879	0.515	1.030		MP & RS Route
Laurel	KY 1193	0.000	3.556	0.000	3.556	3.556	7.112		0.000	3.556	3.556	7.112		
Laurel	KY 2388	0.000	0.793	0.000	0.793	0.793	1.400							
Laurel	KY 2392	0.000	2.217	0.000	2.217	2.217	4.434							
Laurel	KY 3094	0.000	3.174	0.000	3.174	3.174	5.713		0.000	3.174	3.174	6.348		
Leslie	US 421	22.513	35.300	22.513	35.300	12.787	23.017		22.513	35.300	12.787	25.574		
Leslie	KY 66	0.000	2.755	0.000	2.755	2.755	5.510		0.000	2.755	2.755	5.510		
Leslie	KY 80	0.000	9.719	0.000	9.719	9.719	17.494		0.000	9.719	9.719	19.438		
Leslie	KY 221	0.000	1.753	0.000	1.753	1.753	3.506							
Leslie	KY 699	0.000	15.993	0.000	15.993	15.993	31.986		3.153	15.993	12.840	25.680		
Leslie	KY 1850	0.000	4.940	0.000	4.940	4.940	9.880							
Leslie	KY 3424	0.000	1.193	0.000	1.193	1.193	2.386							MP & RS Route
Whitley	KY 26	0.000	14.319	0.000	14.319	14.319	25.774		0.000	14.319	14.319	28.638		
Whitley	KY 92	0.000	4.606	0.000	4.606	4.606	8.291		0.000	4.606	4.606	10.133		
Whitley	KY 92	4.606	9.230	4.606	9.230	4.624	8.323		4.606	9.230	4.624	10.173		
Whitley	KY 92	9.230	10.713	9.230	10.713	1.483	2.669		9.230	10.713	1.483	2.966		Do not stripe bridge at MP 10.603
Whitley	KY 92	15.962	32.777	15.962	32.777	16.815	30.267		15.962	32.777	16.815	33.630		
Whitley	KY 296	0.000	1.158	0.000	1.158	1.158	2.316		0.000	1.158	1.158	0.290		
Whitley	KY 312	0.000	2.542	0.000	2.542	2.542	5.084							
Whitley	KY 727	0.000	3.790	0.000	3.790	3.790	7.580							
Whitley	KY 727	3.790	4.580						3.790	4.580	0.790	1.580		One Way
Whitley	KY 1193	0.000	7.933	0.000	7.933	7.933	15.866		4.594	7.933	3.339	6.678		
Whitley	KY 1259	0.000	4.192	0.000	4.192	4.192	8.384							
Whitley	KY 1804	2.909	5.577	2.909	5.577	2.668	5.336							
Whitley	KY 2386	0.000	0.776	0.000	0.776	0.776	1.746							
Whitley	KY 2989	0.000	1.416	0.000	1.416	1.416	2.832							
<b>SP &amp; SUP Total</b>							<b>905.426</b>	<b>15.856</b>				<b>760.240</b>	<b>17.618</b>	

- NOTES 1. 4" & 6" LINES - WATERBOURNE STRIPING - SECTION 842.**  
**2. ESTIMATED QUANTITIES ONLY. RE-TRACE AS DIRECTED BY THE ENGINEER.**  
**3. THE DEPARTMENT WILL MEASURE AND PAY ONLY ACTUAL QUANTITIES RE-TRACED**

**2022 WATERBOURNE STRIPING - DISTRICT 11  
RURAL SECONDARY SYSTEM**

County	Route	System	Begin	End	Begin Yellow	End Yellow	Yellow Length	Yellow Miles	Begin White	End White	White Length	White Miles	Comments
Bell	KY 72	RS	0.000	3.371	0.000	3.371	3.371	6.068	0.000	3.371	3.371	6.742	
Bell	KY 74	RS	0.000	11.291	0.000	11.291	11.291	22.582					MP & RS Route
Bell	KY 217	RS	0.000	8.789	0.000	8.789	8.789	17.578					
Bell	KY 225	RS	0.000	1.378					0.000	1.378	1.378	2.756	EL Only
Bell	KY 441	RS	0.000	4.257	0.000	4.257	4.257	7.663					MP & RS Route
Bell	KY 516	RS	0.000	1.305	0.000	1.305	1.305	2.349					
Bell	KY 535	RS	0.000	0.600	0.000	0.600	0.600	1.200					
Bell	KY 987	RS	13.371	19.355	13.371	19.355	5.984	11.968					MP & RS Route
Bell	KY 1534	RS	0.000	5.840	0.000	5.840	5.840	11.680					
Bell	KY 1595	RS	0.000	1.486	0.000	1.486	1.486	2.972					
Bell	KY 1599	RS	0.000	0.871	0.000	0.871	0.871	1.742					
Bell	KY 2011	RS	0.000	9.006	0.000	9.006	9.006	18.012					
Bell	KY 2013	RS	0.000	1.996	0.000	0.050	0.050	0.100	0.050	1.996	1.946	3.892	Portion EL Only
Bell	KY 2014	RS	0.000	4.173	0.000	4.173	4.173	8.346	0.000	0.568	0.568	1.136	
Bell	KY 2015	RS	0.000	2.827	0.000	2.827	2.827	5.654	0.448	2.827	2.379	4.758	
Bell	KY 2077	RS	0.000	0.800					0.000	0.800	0.800	1.600	EL Only
Bell	KY 2133	RS	0.000	0.814	0.000	0.814	0.814	1.628					
Bell	KY 2394	RS	0.000	0.636	0.000	0.636	0.636	1.272					
Bell	KY 3483	RS	0.000	0.800	0.000	0.800	0.800	1.600					
Bell	KY 3484	RS	0.000	3.567	0.000	3.567	3.567	7.134					
Bell	KY 3485	RS	0.000	4.554	0.000	4.554	4.554	9.108					
Bell	KY 3486	RS	0.000	3.728	0.000	3.728	3.728	7.456					
<b>Total Bell County RS</b>								<b>146.111</b>				<b>20.884</b>	

Clay	KY 149	RS	0.000	10.640	0.000	10.640	10.640	21.280					
Clay	KY 484	RS	0.000	1.652	0.000	1.652	1.652	3.304					
Clay	KY 577	RS	0.000	11.903	0.000	11.903	11.903	23.806					
Clay	KY 687	RS	14.074	15.168	14.074	15.168	1.094	1.969					
Clay	KY 1350	RS	0.000	6.097	0.000	6.097	6.097	12.194					
Clay	KY 1482	RS	0.000	10.255	0.000	10.255	10.255	20.510					
Clay	KY 1524	RS	13.000	16.462	13.000	16.462	3.462	6.924					
Clay	KY 1999	RS	0.000	1.592	0.000	0.433	0.433	0.866	0.433	1.592	1.159	2.318	Portion EL Only
Clay	KY 2000	RS	0.000	9.092	0.000	5.562	5.562	11.124	5.562	9.092	3.530	7.060	Portion EL Only
Clay	KY 2076	RS	0.000	0.915	0.000	0.915	0.915	1.830					
Clay	KY 2432	RS	0.000	1.177	0.000	1.177	1.177	2.354					
Clay	KY 3472	RS	0.000	3.229	0.000	3.229	3.229	6.458	0.000	1.703	1.703	3.406	
Clay	KY 3473	RS	0.000	1.121	0.000	1.121	1.121	2.242					
Clay	KY 3477	RS	0.000	3.060	0.000	3.060	3.060	6.120					
Clay	KY 3478	RS	0.000	4.200	0.000	4.200	4.200	8.400					
Clay	KY 3480	RS	0.000	0.438	0.000	0.438	0.438	0.876	0.000	0.438	0.438	0.876	
Clay	KY 3481	RS	0.000	0.104	0.000	0.104	0.104	0.208					
<b>Total Clay County RS</b>								<b>128.408</b>				<b>13.660</b>	

Harlan	KY 72	RS	0.000	2.175	0.000	2.175	2.175	4.350	0.000	2.175	2.175	4.350	
Harlan	KY 72	RS	2.175	5.151	2.175	5.151	2.976	5.952					
Harlan	KY 72	RS	5.151	10.913	5.151	10.913	5.762	11.524	5.151	10.913	5.762	11.524	
Harlan	KY 72	RS	10.913	12.229	10.913	12.229	1.316	2.584					Omit MP 11.773 to 11.821
Harlan	KY 72	RS	12.229	13.275	12.229	13.275	1.046	2.092	12.229	13.275	1.046	2.092	
Harlan	KY 72	RS	13.275	13.389	13.275	13.389	0.114	0.228					
Harlan	KY 179	RS	0.000	8.050	7.580	8.050	0.470	0.940	7.580	8.050	0.470	0.940	
Harlan	KY 215	RS	0.000	5.636	0.000	5.636	5.636	11.272					
Harlan	KY 215	RS	0.000	0.044	0.000	0.044	0.044	0.044	0.000	0.044	0.044	0.088	
Harlan	KY 219	RS	0.000	5.141	0.000	5.141	5.141	10.282					
Harlan	KY 510	RS	0.000	2.269	0.000	2.269	2.269	4.538					
Harlan	KY 568	RS	0.000	3.268	0.000	3.268	3.268	6.536					
Harlan	KY 840	RS	0.000	2.811					0.000	2.811	2.811	5.622	EL Only
Harlan	KY 840	RS	2.811	4.311	2.811	4.311	1.500	3.000	2.811	4.043	1.232	2.464	
Harlan	KY 840	RS	4.311	6.009	4.311	6.009	1.698	3.396	4.311	6.009	1.698	3.396	
Harlan	KY 991	RS	0.000	1.475					0.000	1.475	1.475	2.950	EL Only
Harlan	KY 1115	RS	0.000	0.183	0.000	0.183	0.183	0.366					
Harlan	KY 1137	RS	0.000	3.207	0.000	2.064	2.064	4.128					
Harlan	KY 1138	RS	0.000	1.793	0.000	1.793	1.793	3.586	1.527	1.793	0.266	0.532	

**2022 WATERBOURNE STRIPING - DISTRICT 11  
RURAL SECONDARY SYSTEM**

County	Route	System	Begin	End	Begin Yellow	End Yellow	Yellow Length	Yellow Miles	Begin White	End White	White Length	White Miles	Comments
Harlan	KY 1254	RS	0.000	1.246	0.000	1.246	1.246	2.492	0.991	1.246	0.255	0.510	
Harlan	KY 1556	RS	0.000	2.052					0.000	2.052	2.052	4.104	EL Only
Harlan	KY 1601	RS	0.000	2.427	0.846	2.427	1.581	3.162	0.000	0.846	0.846	1.692	Portion EL Only
Harlan	KY 1780	RS	0.000	2.214	0.000	0.204	0.204	0.408	0.000	2.104	2.104	4.208	Portion EL Only
Harlan	KY 1926	RS	0.000	0.596	0.000	0.596	0.596	1.192					
Harlan	KY 2006	RS	0.000	5.083	0.000	5.083	5.083	10.166					
Harlan	KY 2007	RS	0.000	0.721	0.000	0.721	0.721	1.442	0.000	0.518	0.518	1.036	
Harlan	KY 2007	RS	0.721	3.319					0.721	3.319	2.598	5.196	EL Only
Harlan	KY 2008	RS	0.000	1.396	0.000	1.396	1.396	2.792					
Harlan	KY 2009	RS	0.000	2.726	0.000	2.726	2.726	5.452	0.000	1.450	1.450	2.900	
Harlan	KY 2010	RS	0.000	5.418	0.000	0.157	0.157	0.314	0.157	5.418	5.261	10.522	Portion EL Only
Harlan	KY 2074	RS	0.000	0.600					0.000	0.125	0.125	0.250	EL Only
Harlan	KY 3448	RS	0.000	0.593					0.000	0.593	0.593	1.186	EL Only
Harlan	KY 3449	RS	0.000	1.976	0.000	1.976	1.976	3.952	1.020	1.927	0.907	1.814	
Harlan	KY 3450	RS	0.000	0.559					0.000	0.391	0.391	0.782	EL Only
Harlan	KY 3452	RS	0.000	0.898					0.000	0.898	0.898	1.796	EL Only
Harlan	KY 3453	RS	0.000	1.315	0.000	0.921	0.921	1.842					No stripe after MP 0.921
Harlan	KY 3457	RS	0.000	0.512					0.000	0.512	0.512	1.024	EL Only
Harlan	KY 3458	RS	0.000	0.774					0.000	0.450	0.450	0.900	EL Only
Harlan	KY 3460	RS	0.000	0.370	0.000	0.370	0.370	0.740					
Harlan	KY 3462	RS	0.000	0.735					0.000	0.429	0.429	0.858	EL Only
Harlan	KY 3464	RS	0.000	0.982					0.000	0.982	0.982	1.964	EL Only
Harlan	KY 3466	RS	0.000	2.326					0.000	2.326	2.326	4.652	EL Only
Harlan	KY 3467	RS	0.000	0.385					0.000	0.385	0.385	0.770	EL Only
<b>Total Harlan County RS</b>								<b>108.772</b>				<b>80.122</b>	

Jackson	KY 89	RS	0.000	15.638	5.681	15.638	9.957	19.914	0.000	5.681	5.681	11.362	MP & RS Route Portion EL Only
Jackson	KY 577	RS	0.000	3.156	0.000	3.156	3.156	6.312					
Jackson	KY 577	RS	5.993	7.901	5.993	7.901	1.908	3.816					
Jackson	KY 577	RS	10.263	11.197	10.263	11.197	0.934	1.868					
Jackson	KY 578	RS	0.000	2.602	0.000	2.602	2.602	5.204					
Jackson	KY 578	RS	4.728	7.202	4.728	7.202	2.474	4.948					
Jackson	KY 587	RS	0.000	10.263	0.000	10.263	10.263	20.526					
Jackson	KY 1071	RS	0.000	6.712	0.000	6.712	6.712	13.424					
Jackson	KY 1209	RS	0.000	3.891	0.000	3.891	3.891	7.782					
Jackson	KY 1431	RS	0.000	2.951	0.000	2.951	2.951	5.902					
Jackson	KY 1709	RS	0.000	3.980	0.000	3.980	3.980	7.960					
Jackson	KY 1912	RS	0.000	0.120	0.000	0.120	0.120	0.240					
Jackson	KY 1955	RS	0.000	7.691	0.000	7.691	7.691	15.382					
Jackson	KY 2002	RS	0.000	5.300	0.000	5.300	5.300	10.600					
Jackson	KY 2003	RS	0.000	6.578	0.000	6.578	6.578	13.156					
Jackson	KY 2004	RS	0.000	14.230	0.000	14.230	14.230	28.460					
Jackson	KY 3444	RS	0.000	1.110	0.000	1.110	1.110	2.220					
Jackson	KY 3445	RS	0.000	5.170	0.000	5.170	5.170	10.340					
Jackson	KY 3446	RS	0.000	6.081	0.000	6.081	6.081	12.162					
Jackson	KY 3447	RS	3.427	5.080	3.427	5.080	1.653	3.306					
<b>Total Jackson County RS</b>								<b>193.522</b>				<b>11.362</b>	

Knox	KY 223	RS	0.000	16.774	0.000	16.774	16.774	30.193					
Knox	KY 225	RS	0.000	11.955	0.000	11.955	11.955	21.519					MP & RS Route
Knox	KY 233	RS	0.000	8.848	0.000	8.848	8.848	15.926					
Knox	KY 830	RS	4.469	7.745	4.469	7.745	3.276	5.897					MP & RS Route
Knox	KY 1304	RS	0.000	6.110	0.000	6.110	6.110	12.220	0.000	6.110	6.110	12.220	
Knox	KY 1304	RS	6.110	13.061	6.110	13.061	6.951	13.902	9.010	9.740	0.730	1.460	
Knox	KY 1527	RS	0.000	2.403	0.000	2.403	2.403	4.806					
Knox	KY 1530	RS	0.000	2.603	0.000	2.603	2.603	5.206					
Knox	KY 1629	RS	0.000	4.162	0.000	4.162	4.162	8.324	1.159	4.162	3.003	6.006	
Knox	KY 1803	RS	0.000	5.738	0.000	5.738	5.738	11.476					
Knox	KY 1809	RS	0.000	6.313	0.000	6.313	6.313	12.626					
Knox	KY 2406	RS	0.000	0.095	0.000	0.034	0.034	0.068	0.000	0.095	0.095	0.190	Portion EL Only

**2022 WATERBOURNE STRIPING - DISTRICT 11  
RURAL SECONDARY SYSTEM**

County	Route	System	Begin	End	Begin Yellow	End Yellow	Yellow Length	Yellow Miles	Begin White	End White	White Length	White Miles	Comments
Knox	KY 2409	RS	0.000	0.251	0.000	0.251	0.251	0.502					
Knox	KY 2414	RS	0.000	0.183	0.000	0.183	0.183	0.366					
Knox	KY 3153	RS	0.000	0.373	0.000	0.373	0.373	0.746					
Knox	KY 3436	RS	0.000	5.539	0.000	5.539	5.539	11.078					
Knox	KY 3437	RS	0.000	1.746	1.491	1.746	0.255	0.510	0.000	1.491	1.491	2.982	Portion EL Only
Knox	KY 3438	RS	0.000	3.752					0.000	3.752	3.752	7.504	EL Only
Knox	KY 3439	RS	0.000	4.582	0.000	4.582	4.582	9.164	0.000	0.035	0.035	0.105	
Knox	KY 3440	RS	0.000	2.579	0.000	2.579	2.579	5.158					
Knox	KY 3441	RS	0.000	3.440	0.000	2.419	2.419	4.838	2.419	3.440	1.021	2.042	Portion EL Only
Knox	KY 3442	RS	0.000	2.498	0.000	1.418	1.418	2.836	1.418	2.498	1.080	2.160	Portion EL Only
<b>Total Knox County RS</b>								<b>177.361</b>				<b>34.669</b>	

Laurel	KY 233	RS	0.000	0.668	0.000	0.668	0.668	1.336					
Laurel	KY 312	RS	0.000	4.063	0.000	4.063	4.063	8.126					MP & RS Route
Laurel	KY 488	RS	0.000	2.076	0.000	2.076	2.076	4.152					
Laurel	KY 490	RS	8.202	11.509	8.202	11.509	3.307	6.614					MP & RS Route
Laurel	KY 521	RS	0.000	2.898	0.000	2.898	2.898	5.796					
Laurel	KY 552	RS	0.000	8.165	0.000	8.165	8.165	14.697	8.038	8.165	0.127	0.317	
Laurel	KY 578	RS	0.000	10.148	0.000	10.148	10.148	20.296					
Laurel	KY 586	RS	0.000	4.613	0.000	4.613	4.613	9.226					
Laurel	KY 687	RS	0.000	0.238	0.000	0.238	0.238	0.428					
Laurel	KY 830	RS	0.222	12.652	0.222	12.652	12.430	24.860					MP & RS Route
Laurel	KY 1006	RS	0.000	4.904	0.000	4.904	4.904	9.808	4.030	4.308	0.278	0.528	MP & RS Route
Laurel	KY 1006	RS	4.904	5.364	4.904	5.364	0.460	0.920	4.904	5.364	0.460	0.920	MP & RS Route
Laurel	KY 1023	RS	0.000	2.968	0.000	2.968	2.968	5.342					
Laurel	KY 1189	RS	0.000	6.518	0.000	6.518	6.518	13.036					
Laurel	KY 1228	RS	0.000	2.876	0.000	2.876	2.876	5.752					
Laurel	KY 1305	RS	0.000	6.514	0.000	6.514	6.514	13.028					
Laurel	KY 1376	RS	0.000	2.852	0.000	2.852	2.852	5.704					
Laurel	KY 1394	RS	0.000	2.634	0.000	2.634	2.634	5.268					
Laurel	KY 1803	RS	0.000	9.245	0.000	9.245	9.245	18.490					
Laurel	KY 1810	RS	0.000	3.246	0.000	3.246	3.246	6.492					
Laurel	KY 2069	RS	0.000	1.120	0.000	1.120	1.120	2.240					
Laurel	KY 3431	RS	0.000	2.959	0.000	2.959	2.959	5.918					
Laurel	KY 3432	RS	0.000	3.450	0.000	3.450	3.450	6.900	2.324	2.479	0.155	0.310	
Laurel	KY 3435	RS	0.000	3.766	0.000	3.766	3.766	7.532					
Laurel	KY 3497	RS	0.000	6.123	0.000	6.123	6.123	12.246					
<b>Total Laurel County RS</b>								<b>214.208</b>				<b>2.076</b>	

Leslie	KY 257	RS	0.000	11.030	0.000	11.030	11.030	22.060					
Leslie	KY 406	RS	0.000	2.916	0.000	2.916	2.916	5.832					
Leslie	KY 1482	RS	0.000	7.460	0.000	7.460	7.460	14.920					
Leslie	KY 1780	RS	0.000	5.166	0.000	1.430	1.430	2.860	1.430	5.166	3.736	7.472	Portion EL Only
Leslie	KY 1780	RS	5.166	14.299	5.166	14.299	9.133	18.266					
Leslie	KY 1807	RS	0.000	3.613	0.000	3.613	3.613	7.226					
Leslie	KY 2008	RS	0.000	2.535	0.000	0.575	0.575	1.150	0.575	2.535	1.960	3.920	Portion EL Only
Leslie	KY 2008	RS	2.535	8.638	2.535	4.710	2.175	4.350	6.845	8.638	1.793	3.586	Portion EL Only
Leslie	KY 2009	RS	0.000	15.302	0.000	15.302	15.302	30.604					
Leslie	KY 2057	RS	0.000	3.115	0.000	2.600	2.600	5.200					
Leslie	KY 2058	RS	0.000	4.841					0.000	4.841	4.841	9.682	EL Only
Leslie	KY 3424	RS	1.193	5.337	1.193	5.337	4.144	8.288					MP & RS Route
Leslie	KY 3426	RS	0.000	1.151					0.000	1.151	1.151	2.302	EL Only
Leslie	KY 3427	RS	0.000	4.462	0.000	3.588	3.588	7.176	3.588	4.462	0.874	1.748	Portion EL Only
Leslie	KY 3427	RS	4.462	11.693	4.462	11.693	7.231	14.462					
Leslie	KY 3428	RS	0.000	1.956					0.000	1.956	1.956	3.912	EL Only
<b>Total Leslie County RS</b>								<b>142.394</b>				<b>32.622</b>	

**2022 WATERBOURNE STRIPING - DISTRICT 11  
RURAL SECONDARY SYSTEM**

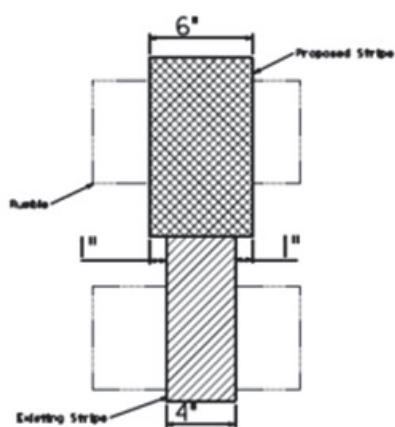
County	Route	System	Begin	End	Begin Yellow	End Yellow	Yellow Length	Yellow Miles	Begin White	End White	White Length	White Miles	Comments
Whitley	KY 204	RS	0.000	11.749	0.000	11.749	11.749	23.498					MP & RS Route
Whitley	KY 478	RS	0.000	7.705	0.000	7.705	7.705	15.410					
Whitley	KY 511	RS	0.000	7.331	0.000	7.331	7.331	14.662					
Whitley	KY 679	RS	0.000	0.510	0.000	0.510	0.510	1.020					
Whitley	KY 836	RS	0.000	3.208	0.000	3.208	3.208	6.416					
Whitley	KY 904	RS	0.000	13.331	0.000	13.331	13.331	26.662	0.000	0.319	0.319	0.638	
Whitley	KY 1418	RS	0.000	1.524	0.000	1.524	1.524	3.048					
Whitley	KY 1595	RS	0.000	4.587	0.000	4.587	4.587	9.174					
Whitley	KY 1673	RS	0.000	1.509	0.000	1.509	1.509	3.018					
Whitley	KY 1809	RS	0.000	1.436	0.000	1.436	1.436	2.872					
Whitley	KY 2995	RS	0.000	0.952	0.000	0.718	0.718	1.436					
Whitley	KY 2996	RS	0.000	4.288	0.000	4.288	4.288	8.576					
Whitley	KY 3423	RS	0.000	4.870	0.000	4.870	4.870	9.740					
<b>Total Whitley County RS</b>								<b>125.532</b>				<b>0.638</b>	

- NOTES 1. 4" LINES - WATERBOURNE STRIPING - SECTION 842.**  
**2. ESTIMATED QUANTITIES ONLY. RE-TRACE AS DIRECTED BY THE ENGINEER.**  
**3. THE DEPARTMENT WILL MEASURE AND PAY ONLY ACTUAL QUANTITIES RE-TRACED**

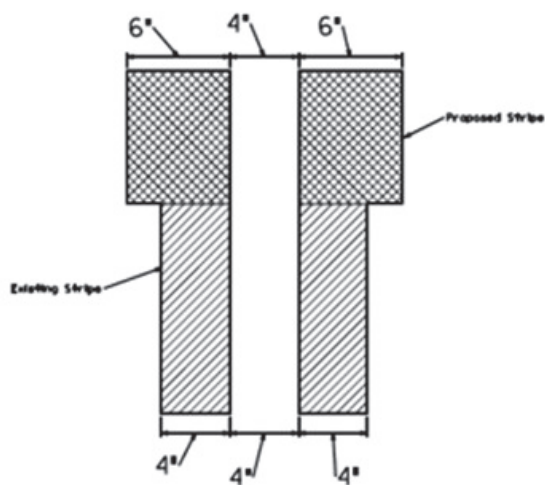
## DETAIL 6 INCH TO 4 INCH TRANSITION

PREFERRED METHOD TO OBTAIN 6" WIDTH FOR VARIOUS STRIPING SCENARIOS

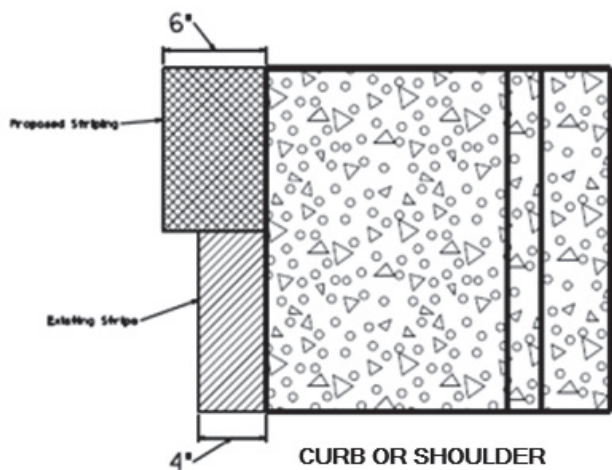
EDGE LINE RUMBLE STRIPS



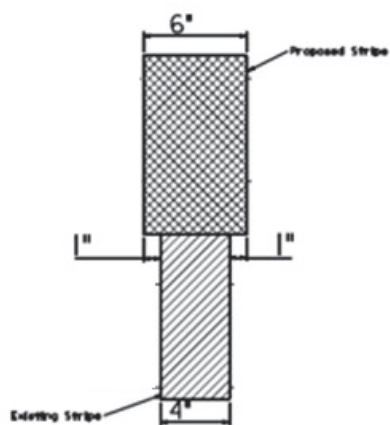
DOUBLE TELLOW CENTERLINE STRIPING



EDGELINES



SINGLE SKIP CENTERLINE STRIPING





**PART II**  
**SPECIFICATIONS AND STANDARD DRAWINGS**

### **SPECIFICATIONS REFERENCE**

Any reference in the plans or proposal to previous editions of the *Standard Specifications for Road and Bridge Construction* and *Standard Drawings* are superseded by *Standard Specifications for Road and Bridge Construction, Edition of 2019* and *Standard Drawings, Edition of 2020*.

## **SUPPLEMENTAL SPECIFICATIONS**

The contractor shall use the Supplemental Specifications that are effective at the time of letting.  
The Supplemental Specifications can be found at the following link:

<http://transportation.ky.gov/Construction/Pages/Kentucky-Standard-Specifications.aspx>

## 2020 KENTUCKY STANDARD DRAWINGS

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CURVE WIDENING AND SUPERELEVATION TRANSITIONS .....	RGS-001-07
SUPERELEVATION FOR MULTILANE PAVEMENT .....	RGS-002-06
MISCELLANEOUS STANDARDS .....	RGX-001-06
APPROACHES, ENTRANCES, AND MAIL BOX TURNOUT .....	RPM-110-07
PAVEMENT MARKER ARRANGEMENTS MULTI-LANE ROADWAYS .....	TPM-100-03
PAVEMENT MARKER ARRANGEMENTS MULTI-LANE ROADWAYS .....	TPM-105-03
PAVEMENT MARKER ARRANGEMENTS MULTI-LANE ROADWAYS .....	TPM-110-03
PAVEMENT MARKER ARRANGEMENTS TWO-LANE TWO-WAY ROADWAYS .....	TPM-115-03
PAVEMENT MARKER ARRANGEMENT TWO-LANE TO FOUR-LANE TRANSITIONS .....	TPM-120-03
PAVEMENT MARKER ARRANGEMTEN ESIT GORE AND OFF-RAMP.....	TPM125-03
PAVEMENT MARKER ARRANGEMTEN FOR PARALLEL DECELERATION LANE.....	TPM-126
PAVEMENT MARKER ARRANGEMTEN ON-RAMP W/ TAPERED ACCELERATION LANE .....	TPM-130-03
PAVEMENT MARKER ARRANGEMTEN ON-RAMP W/ PARALLLEL ACCELERATION LANE....	TPM135-03
PAVEMENT MARKER ARRANGEMTEN TWO-WAY, LEFT TURN LANE .....	TPM-140-04
PAVEMENT MARKER ARRANGEMENT CHANNELIZED INTERSECTION.....	TPM-145-03
PAVEMENT STRIPING DETAILS FOR TWO LANE TWO WAY ROADWAYS .....	TPM-175
TYPICAL ENTRANCE RAMP MARKINGS .....	TPM-200
TYPICAL EXIT RAMP MARKINGS PAGE 1 .....	TPM-201
TYPICAL EXIT RAMP MARKINGS PAGE 2.....	TPM 202
TYPICAL MARKINGS AT SIGNALIZED INTERSECTIONS .....	TPM-203
TYPICAL MARKINGS FOR GORE AREAS .....	TPM-204
TYPICAL MARKINGS FOR ISLANDS AND MEDIANS .....	TPM-205
TYPICAL MARKINGS FOR TURN LANES PAGE 1 .....	TPM-206
TYPICAL MARKINGS FOR TURN LANES PAGE 2 .....	TPM-207
CENTERLINE RUMBLE STRIPS PLACEMENT DETAILS .....	TPR-100
CENTERLINE RUMBLE STRIPS 4 INCH STRIPING .....	TPR-105
CENTERLINE RUMBLE STRIPS 6 INCH STRIPING .....	TPR-110
SHOULDER & EDGELINE RUMBLE STRIPS PLACEMENT DETAILS .....	TPR-115
EDGELINE RUMBLE STRIP DETAILS TWO LANE ROADWAYS .....	TPR-120
SHOULDER RUMBLE STRIP DETAILS TWO LANE ROADWAYS .....	TPR-125
RUMBLE STRIP DETAILS MULTI LANE ROADWAYS & RAMPS .....	TPR-130
PAVEMENT CONDITION WARNING SIGNS.....	TTD-125-03
MOBILE OPERATION FOR PAINT STRIPING CASE I.....	TTS-100-02
MOBILE OPERATION FOR PAINT STRIPING CASE II.....	TTS-105-02
MOBILE OPERATION FOR PAINT STRIPING CASE III.....	TTS-110-02
MOBILE OPERATION FOR PAINT STRIPING CASE IV .....	TTS-115-02
MOBILE OPERATION FOR DURABLE STRIPING CASE I .....	TTS-120-02
MOBILE OPERATION FOR DURABLE STRIPING CASE II.....	TTS-125-02
MOBILE OPERATION FOR DURABLE STRIPING CASE III.....	TTS-130-02
MOBILE OPERATION FOR DURABLE STRIPING CASE IV .....	TTS-135-02

## **PART III**

### **EMPLOYMENT, WAGE AND RECORD REQUIREMENTS**

**TRANSPORTATION CABINET  
DEPARTMENT OF HIGHWAYS**

**LABOR AND WAGE REQUIREMENTS  
APPLICABLE TO OTHER THAN FEDERAL-AID SYSTEM PROJECTS**

- I. Application
- II. Nondiscrimination of Employees (KRS 344)

**I. APPLICATION**

1. These contract provisions shall apply to all work performed on the contract by the contractor with his own organization and with the assistance of workmen under his immediate superintendence and to all work performed on the contract by piecework, station work or by subcontract. The contractor's organization shall be construed to include only workmen employed and paid directly by the contractor and equipment owned or rented by him, with or without operators.

2. The contractor shall insert in each of his subcontracts all of the stipulations contained in these Required Provisions and such other stipulations as may be required.

3. A breach of any of the stipulations contained in these Required Provisions may be grounds for termination of the contract.

3. If the contractor is in control of apprenticeship or other training or retraining, including on-the-job training programs, he shall not discriminate against an individual because of his race, color, religion, national origin, sex, disability or age forty (40) and over, in admission to, or employment in any program established to provide apprenticeship or other training.

4. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representative of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment. The contractor will take such action with respect to any subcontract or purchase order as the administrating agency may direct as a means of enforcing such provisions, including sanctions for non-compliance.

Revised: January 25, 2017

**II. NONDISCRIMINATION OF EMPLOYEES**

**AN ACT OF THE KENTUCKY  
GENERAL ASSEMBLY TO PREVENT  
DISCRIMINATION IN EMPLOYMENT  
KRS CHAPTER 344  
EFFECTIVE JUNE 16, 1972**

The contract on this project, in accordance with KRS Chapter 344, provides that during the performance of this contract, the contractor agrees as follows:

1. The contractor shall not fail or refuse to hire, or shall not discharge any individual, or otherwise discriminate against an individual with respect to his compensation, terms, conditions, or privileges of employment, because of such individual's race, color, religion, national origin, sex, disability or age (forty and above); or limit, segregate, or classify his employees in any way which would deprive or tend to deprive an individual of employment opportunities or otherwise adversely affect his status as an employee, because of such individual's race, color, religion, national origin, sex, disability or age forty (40) and over. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

2. The contractor shall not print or publish or cause to be printed or published a notice or advertisement relating to employment by such an employer or membership in or any classification or referral for employment by the employment agency, indicating any preference, limitation, specification, or discrimination, based on race, color, religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, except that such a notice or advertisement may indicate a preference, limitation, or specification based on religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, when religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, is a bona fide occupational qualification for employment.

## EXECUTIVE BRANCH CODE OF ETHICS

In the 1992 regular legislative session, the General Assembly passed and Governor Brereton Jones signed Senate Bill 63 (codified as KRS 11A), the Executive Branch Code of Ethics, which states, in part:

KRS 11A.040 (7) provides:

No present or former public servant shall, within six (6) months following termination of his office or employment, accept employment, compensation, or other economic benefit from any person or business that contracts or does business with, or is regulated by, the state in matters in which he was directly involved during the last thirty-six (36) months of his tenure. This provision shall not prohibit an individual from returning to the same business, firm, occupation, or profession in which he was involved prior to taking office or beginning his term of employment, or for which he received, prior to his state employment, a professional degree or license, provided that, for a period of six (6) months, he personally refrains from working on any matter in which he was directly involved during the last thirty-six (36) months of his tenure in state government. This subsection shall not prohibit the performance of ministerial functions, including but not limited to filing tax returns, filing applications for permits or licenses, or filing incorporation papers, nor shall it prohibit the former officer or public servant from receiving public funds disbursed through entitlement programs.

KRS 11A.040 (9) states:

A former public servant shall not represent a person or business before a state agency in a matter in which the former public servant was directly involved during the last thirty-six (36) months of his tenure, for a period of one (1) year after the latter of:

- a) The date of leaving office or termination of employment; or
- b) The date the term of office expires to which the public servant was elected.

This law is intended to promote public confidence in the integrity of state government and to declare as public policy the idea that state employees should view their work as a public trust and not as a way to obtain private benefits.

If you have worked for the executive branch of state government within the past six months, you may be subject to the law's prohibitions. The law's applicability may be different if you hold elected office or are contemplating representation of another before a state agency.

Also, if you are affiliated with a firm which does business with the state and which employs former state executive-branch employees, you should be aware that the law may apply to them.

In case of doubt, the law permits you to request an advisory opinion from the Executive Branch Ethics Commission, 3 Fountain Place, Frankfort, Kentucky 40601; telephone (502) 564-7954.

Revised: January 27, 2017

### **Kentucky Equal Employment Opportunity Act of 1978**

The requirements of the Kentucky Equal Employment Opportunity Act of 1978 (KRS 45.560-45.640) shall apply to this Contract. The apparent low Bidder will be required to submit EEO forms to the Division of Construction Procurement, which will then forward to the Finance and Administration Cabinet for review and approval. No award will become effective until all forms are submitted and EEO/CC has certified compliance. The required EEO forms are as follows:

- EEO-1: Employer Information Report
- Affidavit of Intent to Comply
- Employee Data Sheet
- Subcontractor Report

These forms are available on the Finance and Administration's web page under ***Vendor Information, Standard Attachments and General Terms*** at the following address:  
**<https://www.eProcurement.ky.gov>**.

Bidders currently certified as being in compliance by the Finance and Administration Cabinet may submit a copy of their approval letter in lieu of the referenced EEO forms.

For questions or assistance please contact the Finance and Administration Cabinet by email at **[finance.contractcompliance@ky.gov](mailto:finance.contractcompliance@ky.gov)** or by phone at 502-564-2874.

# EMPLOYEE RIGHTS UNDER THE FAIR LABOR STANDARDS ACT

THE UNITED STATES DEPARTMENT OF LABOR WAGE AND HOUR DIVISION

## FEDERAL MINIMUM WAGE

# \$7.25 PER HOUR

BEGINNING JULY 24, 2009

**OVERTIME PAY** At least 1½ times your regular rate of pay for all hours worked over 40 in a workweek.

**CHILD LABOR** An employee must be at least **16** years old to work in most non-farm jobs and at least **18** to work in non-farm jobs declared hazardous by the Secretary of Labor.

Youths **14** and **15** years old may work outside school hours in various non-manufacturing, non-mining, non-hazardous jobs under the following conditions:

**No more than**

- **3** hours on a school day or **18** hours in a school week;
- **8** hours on a non-school day or **40** hours in a non-school week.

Also, work may not begin before **7 a.m.** or end after **7 p.m.**, except from June 1 through Labor Day, when evening hours are extended to **9 p.m.** Different rules apply in agricultural employment.

**TIP CREDIT** Employers of “tipped employees” must pay a cash wage of at least \$2.13 per hour if they claim a tip credit against their minimum wage obligation. If an employee’s tips combined with the employer’s cash wage of at least \$2.13 per hour do not equal the minimum hourly wage, the employer must make up the difference. Certain other conditions must also be met.

**ENFORCEMENT** The Department of Labor may recover back wages either administratively or through court action, for the employees that have been underpaid in violation of the law. Violations may result in civil or criminal action.

Employers may be assessed civil money penalties of up to \$1,100 for each willful or repeated violation of the minimum wage or overtime pay provisions of the law and up to \$11,000 for each employee who is the subject of a violation of the Act’s child labor provisions. In addition, a civil money penalty of up to \$50,000 may be assessed for each child labor violation that causes the death or serious injury of any minor employee, and such assessments may be doubled, up to \$100,000, when the violations are determined to be willful or repeated. The law also prohibits discriminating against or discharging workers who file a complaint or participate in any proceeding under the Act.

### ADDITIONAL INFORMATION

- Certain occupations and establishments are exempt from the minimum wage and/or overtime pay provisions.
- Special provisions apply to workers in American Samoa and the Commonwealth of the Northern Mariana Islands.
- Some state laws provide greater employee protections; employers must comply with both.
- The law requires employers to display this poster where employees can readily see it.
- Employees under 20 years of age may be paid \$4.25 per hour during their first 90 consecutive calendar days of employment with an employer.
- Certain full-time students, student learners, apprentices, and workers with disabilities may be paid less than the minimum wage under special certificates issued by the Department of Labor.

For additional information:



# 1-866-4-USWAGE

(1-866-487-9243) TTY: 1-877-889-5627



# WWW.WAGEHOUR.DOL.GOV

**PART IV**  
**INSURANCE**

Refer to  
*Kentucky Standard Specifications for Road and Bridge Construction,*  
current edition

**PART V**  
**BID ITEMS**

## PROPOSAL BID ITEMS

222251

Page 1 of 1

Report Date 2/14/22

### Section: 0001 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	02572		QUALITY CONTROL	1.00	LS		\$	
0020	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0030	06520		PAVE STRIPING-WB PAINT-4 IN W MP ROUTES	760.24	MILE		\$	
0040	06520		PAVE STRIPING-WB PAINT-4 IN W RS ROUTES	195.99	MILE		\$	
0050	06521		PAVE STRIPING-WB PAINT-4 IN Y MP ROUTES	905.43	MILE		\$	
0060	06521		PAVE STRIPING-WB PAINT-4 IN Y RS ROUTES	1,236.31	MILE		\$	
0070	06522		PAVE STRIPING-WB PAINT-6 IN W MP ROUTES	17.62	MILE		\$	
0080	06523		PAVE STRIPING-WB PAINT-6 IN Y MP ROUTES	15.86	MILE		\$	
0090	20411ED		LAW ENFORCEMENT OFFICER	100.00	HOUR		\$	
0100	22664EN		WATER BLASTING EXISTING STRIPE	1,000.00	LF		\$	
0110	23140EN		DURABLE WATERBORNE MARKING-6 IN W MP ROUTES	53.43	MILE		\$	
0120	23141EN		DURABLE WATERBORNE MARKING-6 IN Y MP ROUTES	43.38	MILE		\$	

### Section: 0002 - DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0130	02569		DEMOBILIZATION	1.00	LS		\$	