



**CALL NO. 318**

**CONTRACT ID. 242005**

**VARIOUS COUNTIES**

**FED/STATE PROJECT NUMBER FE01 121 DW24 0050000**

**DESCRIPTION VARIOUS ROUTES IN DISTRICT 5**

**WORK TYPE WATERBOURNE PAINT STRIPING**

**PRIMARY COMPLETION DATE 9/1/2024**

**LETTING DATE: January 25,2024**

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN STANDARD TIME January 25,2024. 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 - 05

CONTRACT ID - 242005  
FE01 121 DW24 0050000  
COUNTY - VARIOUS  
PCN - MP12100002405  
FE01 121 DW24 005000

VARIOUS ROUTES IN DISTRICT 5 VARIOUS ROUTES IN DISTRICT 5WATERBOURNE PAINT STRIPING  
GEOGRAPHIC COORDINATES LATITUDE 38:18:06.00 LONGITUDE 85:16:20.00  
ADT

COMPLETION DATE(S):

- COMPLETED BY 09/01/2024

COMPLETED BY 06/01/2024

5 WORKING Days

15 CALENDAR Days
- SPECIFIED COMPLETION DATE - ALL ITEMS IN CONTRACT

SPECIFIED COMPLETION DATE - PRIORITY ROUTE

REMOVE ERRORS AND SPILLS

RETRACE 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.

### **BOYCOTT PROVISIONS**

If applicable, the contractor represents that, pursuant to [KRS 45A.607](#), they are not currently engaged in, and will not for the duration of the contract engage in, the boycott of a person or an entity based in or doing business with a jurisdiction with which Kentucky can enjoy open trade. **Note:** The term Boycott does not include actions taken for bona fide business or economic reasons, or actions specifically required by federal or state law.

If applicable, the contractor verifies that, pursuant to KRS 41.480, they do not engage in, and will not for the duration of the contract engage in, in energy company boycotts as defined by KRS 41.472.

### **LOBBYING PROHIBITIONS**

The contractor represents that they, and any subcontractor performing work under the contract, have not violated the agency restrictions contained in [KRS 11A.236](#) during the previous ten (10) years, and pledges to abide by the restrictions set forth in such statute for the duration of the contract awarded.

The contractor further represents that, pursuant to [KRS 45A.328](#), they have not procured an original, subsequent, or similar contract while employing an executive agency lobbyist who was convicted of a crime related to the original, subsequent, or similar contract within five (5) years of the conviction of the lobbyist.

October 4, 2023

## 1.0 BUY AMERICA REQUIREMENT.

Follow the “Buy America” provisions as required by 23 U.S.C. § 313 and 23 C.F.R. § 635.410. Except as expressly provided herein all manufacturing processes of steel or iron materials including but not limited to structural steel, guardrail materials, corrugated steel, culvert pipe, structural plate, prestressing strands, and steel reinforcing bars shall occur in the United States of America, including the application of:

- Coating,
- Galvanizing,
- Painting, and
- Other coating that protects or enhances the value of steel or iron products.

The following are exempt, unless processed or refined to include substantial amounts of steel or iron material, and may be used regardless of source in the domestic manufacturing process for steel or iron material:

- Pig iron,
- Processed, pelletized, and reduced iron ore material, or
- Processed alloys.

The Contractor shall submit a certification stating that all manufacturing processes involved with the production of steel or iron materials occurred in the United States.

Produce, mill, fabricate, and manufacture in the United States of America all aluminum components of bridges, tunnels, and large sign support systems, for which either shop fabrication, shop inspection, or certified mill test reports are required as the basis of acceptance by the Department.

Use foreign materials only under the following conditions:

- 1) When the materials are not permanently incorporated into the project; or
- 2) When the delivered cost of such materials used does not exceed 0.1 percent of the total Contract amount or \$2,500.00, whichever is greater.

The Contractor shall submit to the Engineer the origin and value of any foreign material used.

## 2.0 – BUILD AMERICA, BUY AMERICA (BABA)

Contractor shall comply with the Federal Highway Administration (FHWA) Buy America Requirement in 23 C.F.R. § 635.410 and all relevant provisions of the Build America, Buy America Act (BABA), contained within the Infrastructure Investment and Jobs Act, Pub. L. No. 117-58, §§ 70901-52 enacted November 15, 2021. The BABA requires iron, steel, manufactured products, and construction materials used in infrastructure projects funded by federal financial assistance to be produced in the United States. Comply with 2 C.F.R § 184.

BABA permits FHWA participation in the Contract only if domestic steel and iron will be used on the Project. To be considered domestic, all steel and iron used, and all products manufactured from steel and iron must be produced in the United States and all manufacturing processes, including application of a coating, for these materials must occur in the United States. Coating includes all processes that protect or enhance the value of the material to which the coating is applied. This requirement does not preclude a minimal use of foreign steel and iron materials, provided the cost of such materials does not exceed 0.1% of the total contract amount under the Contract or \$2,500.00 whichever is greater.

BABA permits FHWA participation in the Contract only if all “construction materials” as defined in the Act are made in the United States. The Buy America preference applies to the following construction materials



SPECIAL NOTE – BUY AMERICA REQUIREMENTS AND BUILD  
AMERICA, BUY AMERICA (BABA) ACT

10/26/2023

incorporated into infrastructure projects: non-ferrous metals; plastic and polymer-based products (including polyvinylchloride, composite building materials, and polymers used in fiber optic cables); glass (including optic glass); Fiber optic cable; optical fiber; lumber; engineered wood; and drywall. Contractor will be required to use construction materials produced in the United States on this Project. The Contractor shall submit a certification stating that all construction materials are certified to be BABA compliant.

Finally, BABA permits the continuation of FHWA's current general applicability waivers for manufactured products, raw materials, and ferryboat parts, but these waivers are subject to reevaluation, specifically the general applicability waiver for manufactured products.

The Contractor has completed and submitted, or shall complete and submit, to the Cabinet a Buy America/Build America, Buy America Certificate prior to the Cabinet issuing the notice to proceed, in the format below. After submittal, the Contractor is bound by its original certification.

A false certification is a criminal act in violation of 18 U.S.C. § 1001. The Contractor has the burden of proof to establish that it is in compliance.

At the Contractor's request, the Cabinet may, but is not obligated to, seek a waiver of Buy America requirements if grounds for the waiver exist under 23 C.F.R. § 635.410(c) or will comply with the applicable Buy America requirements if a waiver of those requirements is not available or not pursued by the Cabinet.

Please refer to the Federal Highway Administration's Buy America webpage for more information.

[Buy America - Construction Program Guide - Contract Administration - Construction - Federal Highway Administration \(dot.gov\)](#)

October 26, 2023 Letting

**BUY AMERICA / BUILD AMERICA, BUY AMERICA (ACT) MATERIALS CERTIFICATE OF COMPLIANCE**

The Contractor hereby certifies that it will comply with all relevant provisions of the Build America, Buy America Act, contained within the Infrastructure Investment and Jobs Act, Pub. L. NO. 117-58, §§ 70901-52, the requirements of 23 U.S.C. § 313, 23 C.F.R. § 635.410 and 2 C.F.R § 184.

Date Submitted:\_\_\_\_\_

Contractor:\_\_\_\_\_

Signature:\_\_\_\_\_

Printed Name:\_\_\_\_\_

Title:\_\_\_\_\_

**NOTE: THIS CERTIFICATION IS IN ADDITION TO ANY AND ALL REQUIREMENTS OUTLINED IN THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND/OR SPECIAL NOTES CONTAINED IN THE PROJECT PROPOSAL.**

## **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 2024 DISTRICT WIDE CONTRACTS – DISTRICT 5**

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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 MP and RS Systems routes and durable waterborne striping paint for Interstate System routes, 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. Do not paint over **any non-painted lines, including but not limited to thermoplastic, HPS-8 or tape stripes.** Use only one paint crew per route per county. Use only one paint crew per route per county, **unless otherwise approved by the Engineer.**

### **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 ensure 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 stripers 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 striper.

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 within (1) working day 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", 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 twelve-inch line shall be not less than twelve inches nor more than thirteen inches in width. The centerline of all newly applied lines shall be within one inch of the centerline of the existing stripe. Mark all Interstate and KY 841 routes listed on the summaries for 6-inch and 12-inch striping using Durable Waterborne Paint meeting the requirements of Section 846, except as specified herein. Mark all other routes with 4-inch, 6-inch, and 12-inch 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. If tracking is observed due to extended dry times, the Contractor shall cease work immediately once the issue is discovered. Do not resume striping operations until the problem is resolved, such as appropriate weather conditions and/or new material is available. 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 tracking, tracing or any other quality issues continue following a work stoppage, all contract striping will be stopped indefinitely until the problem(s) are corrected. If the Contractor chooses to continue operations, the Department shall not include subsequent work for payment until striping meets all Contract & Standard Specifications. No time extension shall be granted for any delays in work due to stoppages for quality deficiencies. Liquidated Damages shall be applied per the notes in this Proposal and the Standard Specifications. 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. If any existing durable markings (tape, thermoplastic, HPS-8, etc.) are incorrectly painted, the contractor shall remove and replace the existing durable markings in-kind at no cost to the Department and to the satisfaction of the Engineer.

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 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, 2024** until the following spring at the discretion of the Engineer. All restriping not completed by **October 15, 2024** will be restriped at the Engineer’s discretion as a priority route in the spring of 2025 and completed by **June 1, 2025**. 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, 2024**. The painting of all scheduled routes shall be completed by September 1, 2024.

The Contractor shall coordinate the daily striping schedule, one week in advance, with the Engineer. The Contractor shall submit their anticipated work schedule for the upcoming week to the Engineer no later than noon on Thursday. If a schedule is not submitted in a timely manner, the Engineer may not allow work to be performed the following week. If the Contractor chooses to stripe, the installed striping may not be included for payment. 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 5 types of paint striping: 4" yellow, 4" white, 6" yellow, 6" white, 12" white). The Contractor shall ensure that once striping begins in a county on a route that ALL striping on that route must be completed within two 15 calendar days. Failure to comply with this requirement shall result in Liquidated Damages being assessed at 25% of the daily rate specified in Section 108.09 of the Standard Specifications until all striping complies with this requirement.

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, 2024.

## **CONTRACT COMPLETION AND LIQUIDATED DAMAGES**

All priority routes shall be striped by **June 1, 2024**. Contrary to the Standard Specifications, no time extension will be granted for failure to complete striping of these priority routes by the **June 1, 2024** 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, 2024**.

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, 2024**. Failure to complete all necessary corrective work by the **October 15, 2024** 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, 2024** deadline may be required to be restriped in the spring of 2025 as a priority route with a completion date of **June 1, 2025**. Any re-stripe required by the Engineer that is not completed by **June 1, 2025** shall accrue liquidated damages until **October 15, 2025**.

All routes that are required to be striped under this Contract shall be completed by **August 15, 2024**. 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, 2024. Liquidated damages will accrue until October 15, 2024; 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 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 30, 2024, the Department will not make final payment and restriping may be required in the spring of 2025 where the corrective will become a priority route and re-striping must be completed by June 1, 2025. If the Engineer does not require re-striping to be completed in the spring of 2025, 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 2023 & 2024**

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Be advised that some projects listed herein may be scheduled for resurfacing in 2024. 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 2023, but may have been canceled or postponed. The Engineer may add the striping on canceled 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

## RETROREFLECTOMETER

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Furnish three (3) new LTL3500 Retroreflectometers or equal:

DELTA - a part of FORCE Technology  
Venlighedsvej 4  
2970 Horsham  
Denmark  
Tel. +45 43 25 14 00  
roadsensors@forcetechnology.com  
roadsensors.com

The retro reflectometers shall include the following options: Marking temperature, Road Icon references, Latitude/Longitude format: Decimal degrees, Data presentation in Google Earth, Nighttime color (x,y) for RL measurements (white & yellow), Macro and overview cameras, External printer, Qd, Daylight contrast (requires Qd).

Deliver one (1) Retroreflectometer to the Engineer at the District 5 District Office, 8310 Westport Road, Louisville, KY 40242, within 2 weeks of striping operations beginning on the project.

Deliver two (2) Retroreflectometers to the Engineer (attention Brandi Mitchell) at the Division of Materials 1227 Wilkinson Blvd Frankfort, KY. 40601, within 2 weeks of striping operations beginning on the project.



## **Specification for Retroreflectometer for determining the coefficient of retroreflected luminance ( $R_L$ ) and the luminance coefficient under diffuse illumination ( $Q_d$ ) of pavement markings**

### **LTL3500 retroreflectometer**

#### **1. MEASUREMENT PARAMETERS AND FEATURES:**

**1.1. Geometry:** The retroreflectometer (instrument) shall be constructed to simulate the driver observation angle found at a 30-meter distance from the marking and in accordance with ASTM E 1710.

- Entrance angle of 88.76 degrees
- Observation angle of 1.05 degrees

and in accordance with EN 1436

- 1.1.3. Entrance angle of 1.24 degrees
- 1.1.4. Observation angle of 2.29 degrees

#### **1.2. Compliance with standards:**

LTL3500 comply with the following standards

- EN 1436 ( $R_L$ ,  $Q_d$ ; Dry, wet and continuous wetting; Nighttime Chromaticity colors (x,y)
- ASTM D6628 (Color of pavement markings)
- ASTM E1710 ( $R_L$  dry)
- ASTM E2177 ( $R_L$  wet)
- ASTM E2302 ( $Q_d$ )
- ASTM E2367 (Nighttime chromaticity of pavement markings)
- ASTM E 2832 ( $R_L$  continuous wetting)

**1.3. Illumination and Detection:** The instrument shall utilize a system response illuminant type 'A' and CIE observer sensitivity according to ASTM E 1710 and EN 1436. The instrument is equipped with a long-life illumination system based of LED.

**1.4. Working Range:** The instrument shall measure retroreflection of road markings and shall have a working range of 0 to 4.000  $\text{mcd} \cdot \text{lx}^{-1} \cdot \text{m}^{-2}$  for  $R_L$  and 0 to 318  $\text{mcd} \cdot \text{lx}^{-1} \cdot \text{m}^{-2}$  for  $Q_d$ .

**1.5. Marking Types & Conditions:** The instrument shall be capable of measuring retroreflectivity on planar (flat) and profiled (textured) markings under dry conditions, wet conditions and under continuous wetting. The instrument shall be capable of automatic compensating for stray light allowing for full daylight measurements.

**1.6. Depth Ability - Profile Markings:** The instrument shall have a depth ability which enables the instrument to accurately measure profiled road / pavement markings in accordance with  $R_L$  profile height / depth of up to 0.6 inch / 15 mm.

**1.7. Measurement Fields:** The instrument shall utilize an illumination field that is wholly contained within the observation field. The instrument shall measure the retroreflectance of an area of 7.1 inch / 180 mm in length by 2.0 inch / 50 mm in width.





**1.8. Measurement:** The instrument measurement shall include the following data: Retroreflectivity ( $R_L$  &  $Q_d$ ,  $Q_d$  optional); date and time; series ID; user ID; Temperature and humidity; Road icon reference; GNSS, coordinates of measurement location (optional); Nighttime chromaticity coordinates ( $x, y$ ) (optional); Orientation and tilt (optional).

**1.9. Nighttime Chromaticity Coordinates ( $x, y$ ):** The instrument shall be able to measure measures nighttime retroreflected color – CIE chromaticity for white and yellow markings according to EN1436, ASTM D6628 and ASTM E 2367. The instrument is calibrated to measure white and yellow Marking color coordinates correctly.

**1.10. Positioning Data:** The instrument shall include the following as a minimum to qualify itself as GNSS capable (GPS, Galileo, GLONASS, BeiDou satellite systems, optional):

- Latitude / longitude: Decimal degrees
- Datum: WGS 84
- The coordinates of the location of the instrument shall be recorded with each measurement of retroreflection.
- The instrument will measure, display, and record, along with the position coordinates, the number of satellites used to determine such coordinates for each reading.
- The GNSS receiver must receive all operational power from an internal supply source.
- The GNSS receiver shall be contained wholly within the retroreflectometer housing.
- The accuracy of the GNSS data under optimal conditions shall be 6.5 ft. / 2.0m CEP (Circular Error Probability).

**1.11. Additional measurement support features:**

The following additional features can be offered with LTL3500:

- Macro camera (optional) for close-up pictures of the measurement location
- Overhead camera (optional) for overview pictures of the markings measured.
- Instrument orientation and tilt (optional)
- External printer (optional) for on-location documentation of measurement results
- Daylight contrast
- IR based marking temperature
- Pass/fail indicator for  $R_L$  and  $Q_d$
- External printer

## **2. CALIBRATION / ACCURACY:**

**2.1. Traceable Calibration:** The instrument shall be supplied with a  $R_L$  master calibration assembly, which is made up of a plate and a calibrated ceramic reflection standard. The calibrated reflection standard must be traceable to an accredited national standards laboratory through an ISO17025 certified testing and calibration laboratory. A DANAK accredited calibration certificate shall be supplied with the traceable calibration reflection standard.

**2.2. Calibration Standards  $Q_d$ :** The instrument shall be supplied with a  $Q_d$  calibration marking for  $Q_d$  verification and calibration if required.

**2.3. Stray Light Compensation:** The instrument shall actively detect and compensate for the normal level of stray light present as part of each retroreflectivity measurement.

**2.4. Color Correction:** The instrument shall be internally color corrected to allow retroreflection measurement of white and yellow markings without requiring recalibration using colored reflection standards.



**2.5. Repeatability:** The repeatability of measurements taken with the instrument shall be within  $\pm 2\%$ .

**2.6. Reproducibility:** The reproducibility of measurements taken with the instrument or other similar instruments shall be within  $\pm 5\%$ .

### 3. CONSTRUCTION:

**3.1. Basic Construction:** The instrument is constructed with an internal aluminum frame to which the illumination and observation sources shall be mounted in order to maintain a fixed geometry. The instrument has an external shell made of impact resistant polymer material.

**3.2. Portability:** The instrument is completely self-contained and powered by a replaceable battery.

**3.3. Dimensions & weight:** The instrument's physical dimensions is:

- Length: 18.0 inch / 470 mm
- Width: 5.9 inch / 150 mm
- Height: 11.0 inch / 280 mm

The instrument fully equipped has a weight of 5.6 kg / 12.3 lbs.

**3.4. Power Source:** The instrument is powered by a rechargeable and replaceable Li-Ion battery. The instrument make use of a 12 V / 3.0 Ah professional Bosch battery.

**3.5. Display:** The instrument comes with a 5.0" high brightness color touch display, which is clearly visible in daylight and during sunshine. The display has a resolution of 800 x 480 pixel. The display functions are supported by 3 rugged activity buttons.

**3.6. Macro camera & overhead camera (optional):** The instrument can be equipped with a macro camera for close-up pictures of the markings showing the glass bead spread, numbers and embedment. The instrument can be equipped with an overhead camera which will allow a picture of the road markings being measured. Pictures taken with the cameras can be linked to the measurement. The cameras used has a resolution of 5 Mega Pixels (2592 x 1944 pixels).

**3.7. Operating and storage range, humidity:** The instrument can function within the following temperature range:

- Operation: 0°C to +60°C / +32°F to +140°F
- Storage: -10°C to +60°C / +14°F to +140°F

It is recommended that the instrument is being stored below +30°C / +86°F to conserve the battery best possible.

It is recommended to operate the instrument at relative humidity levels below 85% to ensure there is no condensation on the window underneath the instrument where light passes during measurement.

The instrument can be operated in altitudes up to 4.000 m / 13.000 feet.

**3.8. Electronics Shielding:** The instrument complies with EN 301-489-19 V2.1.1 (2019-04) and FCC-47 CFR part 15B (class B) to eliminate external electromagnetic interference with its performance and block internal electromagnetic radiation.

**3.9. Safety:** The instrument complies with IEC 61010-1:2010, AMD1:2016; EN 61010-1:2010 +A1:2019 in respect to safe use of the instrument.



**3.10. Optics:** The optics of the instrument is fixed within the aluminum frame, totally enclosed and protected by a sealed glass window.

**3.11. Display Shield:** The instrument is provided with a retractable shield that will protect the display when the unit is not in use. The shield shall be fabricated from polymer in such a manner as to cover the display into its furthest extent.

#### 4. USE AND CONTROL:

**4.1. Keyboard Panel:** Use of the instrument is through a color touch display and three activity buttons / navigation buttons.

**4.2. Multi-lingual:** The instrument can display menus and readings in many languages, for example but not limited to: English, French, German, Italian, Polish, Russian and Spanish. Additional languages can be added over time.

**4.3. Timing:** The instrument has the capability to make combined  $R_L$  and Qd measurements simultaneous and in less than 1 second.

**4.4. Data Storage:** The instrument utilizes internal non-volatile 8 GB memory for storing measurement data. The GNSS data (optional) shall be stored internally along with each retroreflectivity measurement and support information. Each stored measurement must be identifiable by way of a series identifier and a user identifier.

**4.5. Data Output:** The instrument is equipped with a USB port and Wi-Fi interface to allow for easy transfer of data and diagnostics. The instrument is prepared for IOT. The GNSS data (optional) shall be linked to the individual measurements. Measurement data shall be presented in Excel and on Google Earth if GNSS is installed (optional)

**4.6. Internal Error Detection:** The instrument must indicate on the display and data log whenever detectable errors exist, such as excessive stray light, low battery or incorrect calibration.

**4.7. GNSS Fix (optional):** The instrument shall during normal use advise the operator if the GNSS fails to have a fix when a reading is taken. The operator will be given the options of a) taking the measurement anyway, b) not taking the measurement.

#### 5. EQUIPMENT:

**5.1. Standard Accessories:** The instrument will be delivered complete with:

- Hardcase transportation box
- Quick guide
- Battery and battery charger
- Calibrated  $R_L$  accredited calibration standard
- Qd verification and calibration marking (if Qd has been purchased)
- USB memory stick for data transfer.

User manual and other support material is available via [www.roadsensor.com](http://www.roadsensor.com) under “Retroreflectometer products” and “LTL3500”.



**5.2. Optional Accessories:** The instrument will come as a base unit model able to measure  $R_L$ . LTL3500 can be added one or more of the following options:

- Qd measurement.
- GNSS positioning
- Nighttime chromaticity coordinates (x,y)
- Macro and overview camera
- Orientation (compass, instrument tilt)
- External printer

## 6. TECHNICAL SUPPORT & SERVICE:

**6.1. Training:** The manufacturer and/or authorized representative will be able to provide training and/or technical service as required by the purchaser or his appointed representative either via instruction video, on-location presence or via Internet.

**6.2. Instrument Services:** The manufacturer must offer a factory certified maintenance program for regular service checks to verify instrument performance as well a repair service. These services can be carried out either by DELTA or by one of our certified service operators.

## 7. REGULATORY COMPLIANCE:

**EU:**

Radio: EN 303-413 V1.1.1:2017

EMC: EN 301-489-19 V2.1.1 (2019-04)

Safety: IEC 61010-1:2010, AMD1:2016; EN 61010-1:2010+A1:2019

**USA:**

FCC: 47 CFR Part 15B (class B)

**Canada:**

ICES-003:2016 (Class B)

## 8. WARRANTY:

The instrument shall be warranted for a period of two years against defective parts and workmanship.



# LTL3500

## Specifications

### Optical specifications

Field of measurement:

- Width: 50 mm / 2 inch
- Height: 180 mm / 7.1 inch

Illumination angle  $R_L$  EN 1436: 1.24°

Illumination angle  $R_L$  ASTM E 1710: 88.76°

Observation angle  $R_L$  EN 1436: 2.29°

Observation angle  $R_L$  ASTM E 1710: 1.05°

Illumination angle Qd: Diffuse

Illumination angular spread:

- Horizontal: / Vertical: 0.33 / 0.17°

Observation angular spread:  $\pm 0.17^\circ$

Equivalent observations distance: 30 m

$R_L$  range ( $\text{mcd}\cdot\text{m}^{-2}\cdot\text{lx}^{-1}$ ) 0 - 4000

Qd range ( $\text{mcd}\cdot\text{m}^{-2}\cdot\text{lx}^{-1}$ ) 0 - 318

### Instrument dimensions

Length: 470 mm / 18.0 inch

Width: 150 mm / 5.9 inch

Height: 280 mm / 11.0 inch

Weight: 5.6 kg / 12.3 lbs

### Construction

Structural parts: Aluminum

Housing: Polymer

Keyboard: Silicone rubber & touch screen

### Display

- 5" high brightness color touch display
- Resolution 800 x 480 pixels

### Macro camera, overhead camera

- Macro camera for close-up pictures of markings
- Overhead camera for overview of markings
- Resolution 5 megapixels (2592 x 1944 pixels)

### Regulatory compliance

*EU:*

Radio: EN 303-413 V1.1.1:2017

EMC: EN 301-489-19 V2.1.1 (2019-04)

Safety: IEC 61010-1:2010, AMD1:2016; EN 61010-1:2010+A1:2019

*USA:*

FCC: 47 CFR Part 15B (class B)

*Canada:*

ICES-003:2016 (Class B)

### Electrical characteristics

Power supply:

Battery: Rechargeable and replaceable Li-Ion 12V 3.0 Ah

Charging time: Approx. 1 hour 15 min.

External chargers:

- 230 V / 50 Hz
- 120 V / 60 Hz

### Data

Data memory: 8 GB

Data transfer: USB 2.0, Wi-Fi

Typical repeatability:  $\pm 2\%$

Typical reproducibility:  $\pm 5\%$

### Environmental specification

Temperature:

- Operating: 0°C to +60°C / 32°F to 140°F
- Storage: -10°C to +60°C / 14°F to 140°F
- Humidity: 20 - 85%, non-condensing
- Altitude: 4000 m / 13,000 feet

### Timing

Measurement time: <1 sec.

### Standards

EN 1436 ( $R_L$  & Qd), ASTM E1710 ( $R_L$ ), ASTM E2177 ( $R_L$  wet), ASTM E2302 (Qd), ASTM E2367 (night colors), ASTM 2832 (continuous wetting)

### General features

- Simultaneous  $R_L$  and Qd for dry & wet markings
- $R_L$  for continuous wetting
- Measurement time less than 1 sec for both  $R_L$  and Qd
- Measures  $R_L$  on profiled markings up to 15 mm / 0.6 inch
- Ambient temperature and humidity
- Memory capacity 8GB
- Multi-lingual
- Average calculation
- Easy-readable color touch LED display with 3 buttons
- Long-life illumination system
- USB memory stick
- Wi-Fi prepared
- Power supply, standard Bosch professional battery
- Shows and stores date, time, air temperature, and humidity
- Facility for entering and storing road ID, user ID and other measurement related data
- Data presentation in Excel
- Stray light compensated
- Single handed operation, user-friendly
- "Time for Service" indicator
- Calibration reminder
- Wet timer
- Pass-fail Indicator

### Optional features

- Qd
- Daylight contrast (requires Qd)
- Marking temperature
- Road Icon references
- GNSS positioning
  - Latitude / Longitude format: Decimal degrees
  - Datum: WGS 84
- Data presentation in Google Earth
- Nighttime color (x,y) for  $R_L$  measurements (white & yellow)
- Color Box reading
- Macro and overview cameras
- Orientation (compass, instrument tilt)
- Wi-Fi API & Web App (SW feature under development)
- User defined data linked to measurement (3rd party equipment)
- Add note to measurement
- External printer

### Standard delivery

- LTL3500 Retroreflectometer
- Hard-case transportation box
- $R_L$  calibration standard with DANAK certificate
- Qd calibration / verification marking (if Qd is ordered)
- Battery charger
- Quick guide
- USB memory stick

### Downloads

User manual to be downloaded from [www.roadsensors.com](http://www.roadsensors.com) under 'Products' and 'User manuals':

### Warranty

2 years

*R&TTE Declaration of Conformity (DoC) and US Attestation of Conformity (AoC) can be supplied by DELTA upon request or viewed on: [roadsensors.madebydelta.com/technical-background/certification](http://roadsensors.madebydelta.com/technical-background/certification) Specifications may be changed without notice.*



## **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 the Department observes any prohibited movements by work vehicles or staff, the Engineer will require that all striping operations be stopped. The Contractor will be required to submit a justification for the occurrence and provide assurance and solutions to prevent any improper maneuvers for the remainder of the project. If approved in advance by the Engineer, the contractor may use rolling road blocks to stripe intersections, and across exit & entrance ramps, 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. Below are anticipated time restrictions when striping operations will not be permitted. The Engineer may specify additional days and hours when work will not be allowed.



**ALL INTERSTATES AND RAMPS**

- Work affecting a single lane will be permitted nightly between the hours of 8:00 P.M. – 5:00 A.M.
- Work affecting multiple lanes will have hours determined by the Engineer.

**JEFFERSON COUNTY (ALL ROUTES)**

- Work will be permitted nightly between the hours of 8:00 P.M. – 5:00 A.M.

**BULLITT, OLDHAM, SHELBY & FRANKLIN COUNTIES**

- Select higher volume routes may have daytime restrictions, requiring night work. The Engineer will provide the permitted working hours prior to striping operations commencing.

**LANE CLOSURES WILL NOT BE PERMITTED ON THE FOLLOWING DAYS:**

Friday March 29 – Sunday March 31, 2024	Easter Weekend
Friday May 3 – Sunday May 5, 2024	KY Derby Weekend (Select routes)
Friday May 24 – Monday May 27, 2024	Memorial Day Weekend
Thursday July 4 – Sunday July 7, 2024	Independence Day Weekend
Thursday August 15 – Sunday August 25, 2024	KY State Fair (Select routes)
Friday August 30 – Monday September 2, 2024	Labor Day Week

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.
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.

If requested by the Contractor, the Engineer may approve Law Enforcement Officer Police Support on Interstate highways while striping operations are taking place. If the Contractor requests Law Enforcement Officer Police Support on non-Interstate Highways, provide written justification for the Engineer's approval. If approved, provide one (1) police support unit 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 a location that is most effective to alert traffic of the work, but safe for the workers and the officer. 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. If police support is utilized without prior approval by the Engineer, the Department may deny payment for any invoiced hours prior to the approval date.

**LANE CLOSURE LIQUIDATED DAMAGES**

Do not leave lane closures in place or perform striping operations during non-working hours. In the event that lane closures on non-interstate routes are in place outside of the days and/or times included in this Proposal or outside of any time period approved by the Engineer, Liquidated Damages shall be applied as follows:

- \$ 2,500 for the first hour or fraction thereof
- \$ 5,000 for any additional hour or fraction thereof

In the event that lane closures on an interstate or ramp are in place outside of the days and/or times listed above or outside of any time period approved by the Engineer, Liquidated Damages shall be applied as follows:

- \$ 5,000 for the first hour or fraction thereof
- \$ 10,000 for any additional hour or fraction thereof

A lane closure shall be defined as any traffic control device, worker, or vehicle owned/operated by the Contractor or the Contractor's worker(s) in the traveled way that could potentially impact the flow of traffic. This includes

but is not limited to signs, barricades, barrels, cones, arrow boards, flaggers, and equipment.

See the Special Note for Contract Completion Date and Liquidated Damages for additional Liquidated Damages.

## CONTRACT COMPLETION DATE AND LIQUIDATED DAMAGES

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All priority routes shall be striped by **June 1, 2024**. Contrary to the Standard Specifications, no time extension will be granted for failure to complete striping of these priority routes by the **June 1, 2024** 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, 2024**.

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 30, 2024**, **unless temperature limitations prohibit striping operations**. Failure to complete all necessary corrective work by the **October 30, 2024** 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 30, 2024** deadline may be required to be restriped in the spring of 2025 as a priority route with a completion date of **June 1, 2025**. Any re-stripe required by the Engineer that is not completed by **June 1, 2025** shall accrue liquidated damages until **October 30, 2025**.

All routes that are required to be striped under this Contract shall be completed by **September 1, 2024**. 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 **September 1, 2024**. Liquidated damages will accrue until October 30, 2024; no striping shall be performed after this date. **Liquidated Damages will accrue until all contract work is complete. If work is not complete by October 30, 2024, Liquidated Damages and striping operations will pause. All remaining work shall not be performed until weather allows in 2025, with daily Liquidated Damages per Section 108.09 of the Standard Specifications applying the day striping operations resume until the contract is complete. Contrary to the Standard Specifications, between October 31, 2024 and the day prior to work resuming in 2025, daily Liquidated Damages shall be assessed at 25% of the rate specified in Section 108.09 of the Standard Specifications. If the Department chooses to not require the Contractor complete remaining contract work in 2025, Liquidated Damages will stop on October 30, 2024. However, any required corrective work to be completed in 2025 shall be subject to Liquidated Damages per the note above.**

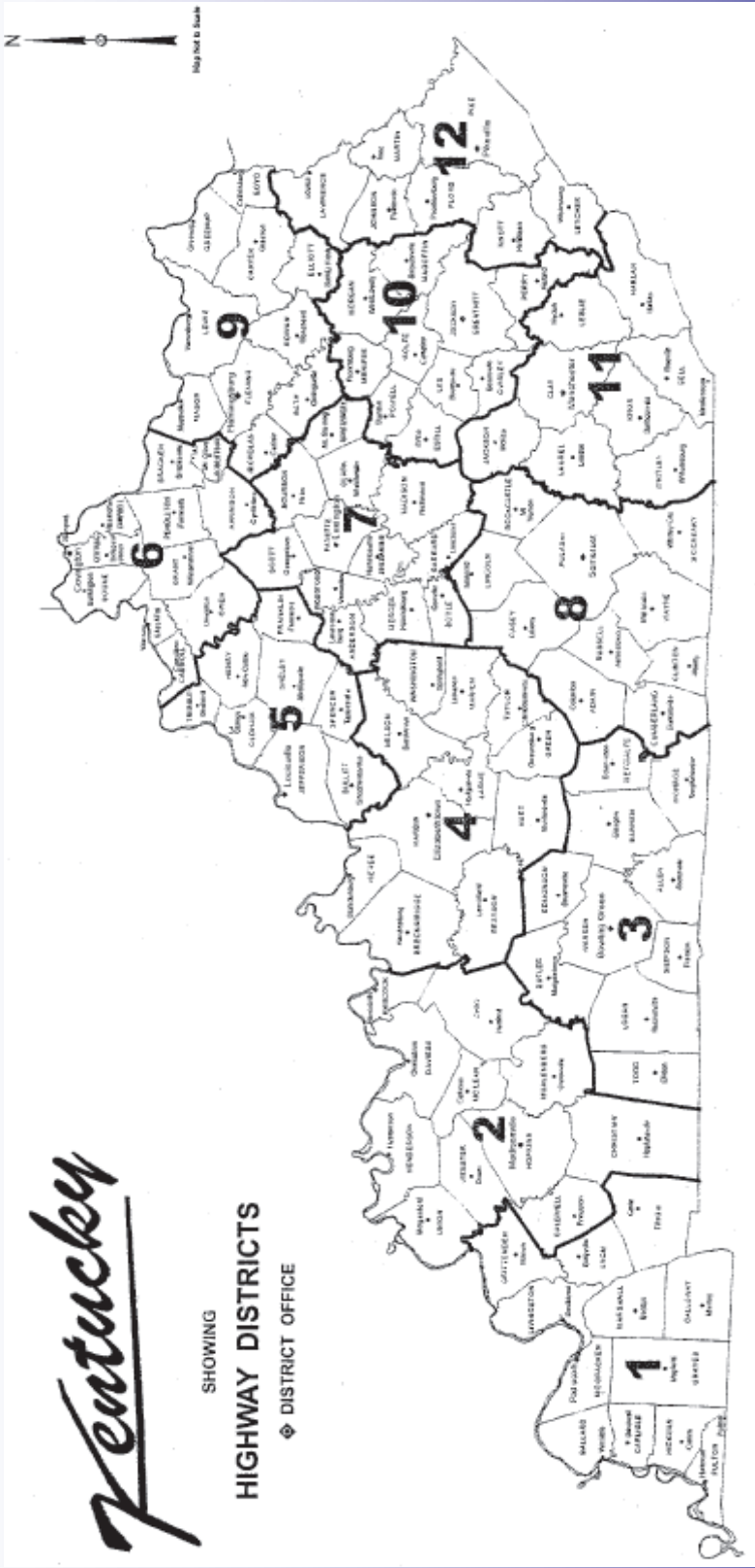
**For any striping error or spill, the Contractor shall notify the Engineer of the occurrence within 24 hours to allow the Department to review and determine any corrective action. If the Contractor fails to notify the Engineer, and the error or spill is later discovered while the project is active, the Engineer will require the Contractor stop all striping until the issue is corrected. 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



DISTRICT 5 DURABLE WATERBORNE PAINT STRIPING - FY 2024  
INTERSTATE SYSTEM

COUNTY	ROUTE	MILEPOINTS		ROADWAY MILES	6" LINE		12" LINE		COMMENTS
		BEGIN	END		YELLOW	WHITE	WHITE	WHITE	
BULLITT CO.	I-65	110.700	123.180	24.960	34.960	44.896	5.024		
FRANKLIN CO.	I-64	46.303	59.431	26.256	30.700	49.972	2.540		Exclude segments within bridge project
HENRY CO.	I-71 SOUTH	28.147	38.086	9.939	12.424	18.636	0.750		
HENRY CO.	I-71 NORTH	28.147	37.154	9.007	11.259	16.888	0.750		
JEFFERSON CO.	I-64	1.300	4.800	7.000	8.750	15.313	2.400		Do not paint thermo & tape striping on mainline & ramps at I-65/I-71 Interchange
JEFFERSON CO.	I-64	11.780	23.974	24.388	30.485	53.349	6.800		Begin at Beargrass Creek Bridge
JEFFERSON CO.	I-65	123.180	135.400	24.440	30.550	76.500	13.033		End/begin paint striping at thermo at about Hospital Curve
JEFFERSON CO.	I-71	0.000	3.660	7.320	9.150	13.725	1.072		
JEFFERSON CO.	I-264	0.000	12.500	25.000	17.500	25.000	14.000		Paint all ramps. Only stripe mainline over existing paint, do not stripe any tape. Verify limits with Engineer prior to striping
JEFFERSON CO.	I-264	12.500	22.297	19.594	24.500	56.000	15.000		
JEFFERSON CO.	I-265	10.250	15.660	10.820	13.525	20.288	4.600		
JEFFERSON CO.	I-265	25.000	34.727	19.454	12.000	18.000	5.250		Only paint ramps and mainline not affected by active construction. Verify limits with the Engineer prior to striping
JEFFERSON CO.	KY 841	0.000	10.250	20.500	25.625	50.000	4.000		Do not paint HPS-8 striping on WB Exit Ramp to US 31W

DISTRICT 5 DURABLE WATERBORNE PAINT STRIPING - FY 2024  
INTERSTATE SYSTEM

COUNTY	ROUTE	MILEPOINTS		ROADWAY MILES	6" LINE		12" LINE		COMMENTS
		BEGIN	END		YELLOW	WHITE	WHITE	WHITE	
OLDHAM CO.	I-71	14.200	22.140	15.880	19.850	29.775	4.500		Do not paint thermo striping on KY 53 ramps
SHELBY CO.	I-64	23.974	38.400	28.852	36.065	54.098	4.400		
SHELBY CO.	I-64	43.770	46.303	5.066	5.066	7.599			
TRIMBLE CO.	I-71	38.086	38.808	1.444	1.444	1.805			
TOTAL				279.920	323.853	551.842	84.119		

- NOTES: 1. Note that 6-Inch routes may include both 4" and 6" gaps between the yellow stripes.  
The Contractor shall modify equipment spacing as necessary to accommodate the changing striping.
2. 4" , 6" & 12" Lines - Durable Waterbourne Striping - Section 846.
3. Quantities included are estimated and are subject to change. Re-trace as directed by the Engineer.
4. The Department will measure & pay only the actual quantities performed.
5. DO NOT PAINT OVER EXISTING DURABLE MARKINGS (IE. TAPE, THERMOPLASTIC, HPS-8, ETC.)

DISTRICT 5 WATERBORNE PAINT STRIPING - FY 2024  
STATE PRIMARY, STATE SECONDARY, & SUPPLEMENTAL SYSTEMS

COUNTY	ROUTE		MILEPOINTS		ROADWAY		4" LINE		6" LINE		12" Line	EDGE	COMMENTS
			BEGIN	END	MILES	YELLOW	WHITE	WHITE	YELLOW	WHITE	White	LINES	
BULLITT	US	31 E	3.530	5.162	1.632				3.264	3.264	0.100	YES	BARDSTOWN RD
BULLITT	KY	44	0.000	26.286	26.286				46.604	53.180	0.600	YES	MT. WASHINGTON RD.
BULLITT	KY	61	0.000	21.634	21.634				43.268	59.494		YES	PRESTON HWY
BULLITT	XX	61	0.000	0.800	0.800	1.600	1.600					YES	Old Preston Hwy
BULLITT	KY	434	0.000	1.932	1.932				2.720	3.590		YES	MAIN STREET
BULLITT	KY	480	1.075	1.700	0.625				1.563	1.563	0.200	YES	CEDAR GROVE RD
BULLITT	KY	480	2.950	11.723	8.773				17.546	17.546		YES	CEDAR GROVE RD
BULLITT	KY	1020	0.000	5.339	5.339				9.260	10.680		YES	CORAL RIDGE ROAD
BULLITT	KY	1116	0.000	0.774	0.774				1.548	1.550		YES	OLD PRESTON HWY
BULLITT	KY	1116	0.774	5.870	5.096	10.192						NO	ZONETON ROAD
BULLITT	KY	1450	1.895	3.554	1.659				2.500	3.320		YES	BLUE LICK RD
BULLITT	KY	1494	6.675	8.073	1.398	3.950	1.670					YES	BEECH GROVE ROAD
BULLITT	KY	1526	10.810	11.158	0.348				0.696	0.696		YES	JOHN HARPER HWY
BULLITT	KY	1526	12.600	17.008	4.408				8.816	8.816		YES	Bells Mill Rd
BULLITT	KY	2237	0.000	0.452	0.452	0.970	1.040					YES	SALT RIVER RD
BULLITT	KY	2553	0.000	0.394	0.394				0.788	0.788		YES	OLD PRESTON HWY
BULLITT	KY	2814	0.000	0.143	0.143	0.300						NO	Whitefield Lane
BULLITT	KY	3538	0.000	2.445	2.445				4.890	4.890		YES	Alpha Way, Ohm Dr. Conn
BULLITT	KY	6303	0.000	0.087	0.087				0.174	0.174		YES	
BULLITT	KY	6313	0.000	1.660	1.660				3.320	3.320		YES	Preston Hwy
BULLITT	KY	6314	0.000	0.161	0.161	0.322	0.322					YES	
FRANKLIN	US	60	0.000	7.292	7.292				18.230	18.230	0.400	YES	FRANKFORT RD
FRANKLIN	US	60	12.185	13.200	1.015				2.538	2.538		YES	Versailles Road
FRANKLIN	US	60	13.465	14.038	0.573				1.146	1.433	0.100	YES	Versailles Road
FRANKLIN	US	60 X	0.000	0.077	0.077				0.154	0.154		YES	Metal Bridge, 9 TON LIMIT
FRANKLIN	US	127	6.003	6.230	0.227				0.454	0.568		YES	LAWRENCEBURG RD
FRANKLIN	US	127	7.100	10.884	3.784				9.460	9.460		YES	LAWRENCEBURG RD
FRANKLIN	US	127	11.100	11.850	0.750				1.500	1.688	0.540	YES	LAWRENCEBURG RD
FRANKLIN	US	421	4.503	5.315	0.812				1.624	1.827		YES	BALD KNOB RD
FRANKLIN	US	460	4.790	6.114	1.324				2.648	2.648		YES	EAST GEORGETOWN RD
FRANKLIN	KY	151	0.000	3.244	3.244				6.488	6.812	0.020	Yes	
FRANKLIN	KY	420	0.000	4.732	4.732				9.460	9.460	0.020	YES	Old Lawrenceburg/Capital/High/Maro



# DISTRICT 5 WATERBORNE PAINT STRIPING - FY 2024

[illegible]

DISTRICT 5 WATERBORNE PAINT STRIPING - FY 2024  
STATE PRIMARY, STATE SECONDARY, & SUPPLEMENTAL SYSTEMS

COUNTY	ROUTE		MILEPOINTS		ROADWAY		4" LINE		6" LINE		12" Line	EDGE	COMMENTS
			BEGIN	END	MILES	YELLOW	WHITE	WHITE	YELLOW	WHITE	White	LINES	
JEFFERSON	US	31	0.000	1.122	1.122				2.244	3.500	0.050	YES	2nd Street bridge
JEFFERSON	US	31 E	0.000	5.864	5.864				11.728	12.140	0.530	YES	Bardstown Rd
JEFFERSON	US	31 E	12.185	14.383	2.198				4.396	5.495		YES	Bardstown Rd
JEFFERSON	US	31 E	16.635	17.887	2.504				2.504	5.008	0.150	NO	Main/Market Streets
JEFFERSON	US	31 W	0.000	11.690	11.690				29.225	32.148	0.920	YES	Dxie Hwy
JEFFERSON	US	31 W	15.350	20.292	4.942				9.884	12.355		YES	Dixie Hwy/22nd St/One-Way
JEFFERSON	US	31 W	20.292	22.115	1.823					1.823		NO	Main Street (Westbound)
JEFFERSON	US	42	0.000	0.587	0.587					1.174		YES	Main St/Mellwood Ave
JEFFERSON	US	42	0.000	0.965	0.965				0.250	1.930	0.196	YES	Story Ave/Brownsboro Rd
JEFFERSON	US	42	3.890	11.835	7.945				19.863	19.863		YES	Brownsboro Rd
JEFFERSON	US	60	0.000	0.123	0.123				0.246	0.123		NO	Frankfort Ave (US 42-US42)
JEFFERSON	US	60	3.543	9.700	6.157				15.393	18.471	0.900	YES	Shelbyville Rd
JEFFERSON	US	60	11.800	12.250	0.450				0.900	1.125		YES	Shelbyville Rd
JEFFERSON	US	60	13.750	17.375	3.625				9.063	9.063	0.350	YES	Shelbyville Rd
JEFFERSON	US	60 A	0.800	1.473	0.673				1.346	4.950	0.570	YES	7th St Rd/Berry Blvd
JEFFERSON	US	60 A	3.409	6.831	3.422				6.844	7.580		YES	Eastern Pkwy
JEFFERSON	US	150	0.515	4.094	3.579				7.158	5.369	1.000	NO	Broadway & One-way
JEFFERSON	US	150 T	0.000	0.089	0.089				0.500	1.000		YES	
JEFFERSON	KY	22	0.000	1.450	1.450				2.900	4.500		YES	Brownsboro Rd
JEFFERSON	KY	22	1.700	2.600	0.900				1.800	2.000			Brownsboro Rd
JEFFERSON	KY	22	2.950	6.725	3.775				7.550	8.450	0.400	YES	Ballardsville Rd
JEFFERSON	KY	22 C	0.000	0.520	0.520				1.040	1.600		YES	
JEFFERSON	KY	44	0.000	0.558	0.558				1.020	0.900		YES	Shepherdsville Rd
JEFFERSON	KY	61	0.000	10.955	10.955				21.910	32.520	2.000	YES	Preston Hwy
JEFFERSON	KY	61	10.955	13.227	2.272					2.272	0.150	NO	Preston Street ONLY
JEFFERSON	KY	146	0.000	8.825	8.825				19.856	19.856	0.500	YES	Lagrange Rd
JEFFERSON	KY	155	0.000	4.642	4.642				9.284	9.748		YES	Taylorsville Lake Rd
JEFFERSON	KY	155	5.145	5.710	0.565				1.130	1.130		YES	Taylorsville Rd
JEFFERSON	KY	155	9.024	15.101	6.077				12.154	15.193	0.150	YES	Taylorsville Rd
JEFFERSON	KY	329	0.000	0.785	0.785				1.570	1.570		YES	
JEFFERSON	KY	864	3.365	4.250	0.885				2.213	1.991	0.100	YES	Beulah Church
JEFFERSON	KY	864	6.390	6.914	0.524				1.048	1.048		Yes	Fegenbush Ln
JEFFERSON	KY	864	7.111	14.400	7.289				14.578	20.150		YES	Poplar Level Rd/Goss Ave

DISTRICT 5 WATERBORNE PAINT STRIPING - FY 2024  
STATE PRIMARY, STATE SECONDARY, & SUPPLEMENTAL SYSTEMS

COUNTY	ROUTE	MILEPOINTS		ROADWAY		4" LINE		6" LINE		12" Line	EDGE	COMMENTS
		BEGIN	END	MILES		YELLOW	WHITE	YELLOW	WHITE	White	LINES	
JEFFERSON	KY 907	0.000	7.036	7.036				14.072	14.070		YES	Third Street Rd
JEFFERSON	KY 913	0.000	3.072	3.072				6.144	8.448	0.200	YES	Blankenbaker Pkwy
JEFFERSON	KY 1020	0.000	7.837	7.837				19.593	19.593		YES	National Turnpike/Southside
JEFFERSON	KY 1020	9.150	12.724	3.574				3.574	8.250		YES	2nd/3rd St
JEFFERSON	KY 1065	0.000	13.715	13.715				30.859	34.288	0.600	YES	Outer Loop (Omit tape section at Minor Lane)
JEFFERSON	KY 1142	0.000	1.736	1.736				2.680	3.170		YES	Palatka rd
JEFFERSON	KY 1447	0.715	1.960	1.245				3.113	3.113	0.500	YES	Westport Rd
JEFFERSON	KY 1447	5.245	6.029	0.784				1.960	1.960		YES	Westport Rd
JEFFERSON	KY 1450	0.000	3.542	3.542				5.878	6.570		YES	Blue Lick Rd
JEFFERSON	KY 1631	0.000	1.582	1.582				4.746	3.955	0.150	YES	Crittenden Drive
JEFFERSON	KY 1694	0.000	1.454	1.454				3.552	2.736		YES	Brownsboro rd
JEFFERSON	KY 1703	0.000	0.497	0.497				0.994	1.243	0.200	YES	Newburg rd
JEFFERSON	KY 1703	1.752	5.682	3.930				8.843	9.825	0.500	YES	Newburg rd
JEFFERSON	KY 1747	0.000	0.152	0.152				0.380	0.456	0.300	YES	Fern Valley Rd
JEFFERSON	KY 1747	1.146	4.250	3.104				7.760	9.312	0.600	YES	Fern Valley/Hurstbourne
JEFFERSON	KY 1747	11.033	17.040	6.007				12.014	18.021	0.750	YES	Hurstbourne Pkwy
JEFFERSON	KY 1819	5.189	12.811	7.622				15.244	16.240		YES	Billtown Rd.
JEFFERSON	KY 1865	0.000	2.208	2.208				4.416	6.420	0.200	YES	New Cut Rd
JEFFERSON	KY 1865	5.355	5.820	0.465				1.163	1.163		YES	New Cut/Taylor Blvd
JEFFERSON	KY 1931	0.538	10.528	9.990				22.478	22.478		YES	Seventh St. Rd.
JEFFERSON	KY 1932	0.000	6.590	6.590				13.180	16.500	0.350	YES	Breckenridge Ln
JEFFERSON	KY 1934	0.000	7.095	7.095				14.190	17.738		YES	Greenbelt Hwy/Cane Run
JEFFERSON	KY 1934	7.280	7.608	0.328				0.656	0.820		YES	Cane Run Rd
JEFFERSON	KY 1934	7.805	9.800	1.995				3.990	4.988		YES	Cane Run Rd
JEFFERSON	KY 2048	0.000	2.733	2.733				5.470	6.120	0.300	YES	Cannons lane
JEFFERSON	KY 2049	0.000	1.720	1.720				3.440	2.500		YES	Crumbs Lane
JEFFERSON	KY 2050	0.000	2.182	2.182				5.455	4.387		YES	Lyndon Lane
JEFFERSON	KY 2051	0.000	1.975	1.975				2.638	4.080		YES	Camp Ground Rd
JEFFERSON	KY 2052	0.000	4.205	4.205				10.510	10.510	0.500	YES	Shepherdsville rd
JEFFERSON	KY 2054	0.000	3.299	3.299				7.500	8.500	0.260	YES	Algonquin Pkwy
JEFFERSON	KY 2241	0.000	0.111	0.111	0.220	0.100					NO	Willis Ave.
JEFFERSON	KY 2251	0.000	1.192	1.192				2.410	2.320		YES	

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DISTRICT 5 WATERBORNE PAINT STRIPING - FY 2024  
STATE PRIMARY, STATE SECONDARY, & SUPPLEMENTAL SYSTEMS

COUNTY	ROUTE		MILEPOINTS		ROADWAY		4" LINE		6" LINE		12" Line	EDGE	COMMENTS
			BEGIN	END	MILES	YELLOW	WHITE	WHITE	YELLOW	WHITE	White	LINES	
SHELBY	US	60	8.390	9.712	1.322				3.305	3.305	0.200	YES	MIDLAD TRAIL
SHELBY	US	60	11.060	11.300	0.240				0.480	0.600		YES	FRANKFORT ROAD
SHELBY	US	60	12.020	23.026	11.006				23.113	23.113		YES	FRANKFORT ROAD
SHELBY	US	421	0.000	0.790	0.790				1.580	1.580		YES	CASTLE HWY
SHELBY	KY	12	0.000	4.798	4.798	9.596	9.596					YES	BAGDAD RD
SHELBY	KY	43	0.000	8.520	8.520				17.040	17.040		YES	CROPPER RD
SHELBY	KY	44	0.000	10.398	10.398				17.630	20.800		YES	MT. EDEN RD
SHELBY	KY	53	0.000	6.300	6.300				12.600	12.600		YES	MT.EDEN RD
SHELBY	KY	53	8.006	19.609	11.603				23.786	23.786		YES	La GRANGE ROAD
SHELBY	KY	55	0.000	5.907	5.907				11.814	11.814	0.020	YES	TAYLORSVILLE RD
SHELBY	KY	55	7.898	20.251	12.353				25.324	27.794		YES	BY PASS/EMINENCE PIKE
SHELBY	KY	241	0.000	2.800	2.800				5.600	5.600		YES	PLEASUREVILLE RD
SHELBY	KY	395	8.470	16.193	7.723				15.450	15.450		YES	
SHELBY	KY	1005	0.000	0.165	0.165	0.260	0.330					YES	VIGO ROAD
SHELBY	KY	1399	0.000	2.572	2.572	5.144	6.140					YES	
SHELBY	KY	1667	0.000	0.391	0.391	0.783						NO	BOAT DOCK RD
SHELBY	KY	1848	4.801	6.025	1.224				2.050	2.870	0.020	YES	TODDS POINT RD
SHELBY	KY	1871	0.000	2.089	2.089	3.280	4.240					YES	ROCKET LANE
SHELBY	KY	2258	0.000	0.361	0.361				0.633	0.300		YES	SEVEN MILE RD
SHELBY	KY	2268	0.000	1.388	1.388				2.260	2.780		YES	TAYLORSVILLE RD
SHELBY	KY	2862	0.000	1.633	1.633				3.032	3.270		YES	OLD FINCHVILLE RD
SPENCER	US	31 E	0.000	1.882	1.882				3.764	4.500		YES	
SPENCER	KY	44	0.000	19.063	19.063				38.126	40.032	0.200	YES	TAYLORSVILLE RD
SPENCER	KY	48	0.000	5.897	5.897	11.790	11.790					YES	HIGHGROVE RD
SPENCER	KY	55	0.000	13.566	13.566				27.130	27.130	0.300	YES	SHELBYVILLE RD
SPENCER	KY	155	0.000	4.247	4.247				8.494	8.490		YES	TAYLORSVILLE RD
SPENCER	KY	248	0.000	7.778	7.778				15.556	16.710		YES	
SPENCER	KY	1392	0.000	4.572	4.572		9.144					YES	
SPENCER	KY	2239	0.000	3.831	3.831	4.710	7.560					YES	OVERLOOK ROAD
SPENCER	KY	2814	0.000	1.404	1.404	3.000	2.810					YES	WHITFIELD LN
SPENCER	KY	3200	0.000	1.490	1.490	2.810	2.820					YES	TOWNHILL RD
SPENCER	KY	3230	0.000	0.120	0.120	0.205						NO	

DISTRICT 5 WATERBORNE PAINT STRIPING - FY 2024  
STATE PRIMARY, STATE SECONDARY, & SUPPLEMENTAL SYSTEMS

COUNTY	ROUTE	MILEPOINTS		ROADWAY	4" LINE		6" LINE		12" Line		EDGE		COMMENTS
		BEGIN	END		YELLOW	WHITE	YELLOW	WHITE	White		LINES		
TRIMBLE	US 42	0.000	14.520	14.520			30.250	29.040	0.020		YES		
TRIMBLE	US 421	18.773	19.198	0.425			0.850	0.850			YES		
TRIMBLE	KY 36	0.000	2.211	2.211			4.422	4.420			YES		
TRIMBLE	KY 55	0.000	1.133	1.133	2.413	2.510					YES		
TOTAL				670.639	104.726	96.886	1230.711	#####	18.046				

- NOTES: 1. Note that 6-Inch routes may include both 4" and 6" gaps between the yellow stripes.  
The Contractor shall modify equipment spacing as necessary to accommodate the changing striping.
2. 4", 6" & 12" Lines - Waterborne Striping - Section 842.
3. Quantities included are estimated and are subject to change. Re-trace as directed by the Engineer.
4. The Department will measure & pay only the actual quantities performed.
5. DO NOT PAINT OVER EXISTING DURABLE MARKINGS (IE. TAPE, THERMOPLASTIC, HPS-8, ETC.)
6. Stripe Bullitt, Franklin & Shelby Maintenance garage entrances as directed by the Engineer.

DISTRICT 5 WATERBORNE PAINT STRIPING - FY 2024  
RURAL SECONDARY SYSTEM

COUNTY	ROUTE			MILEPOINTS		ROADWAY MILES	4" LINE		6" Line		EDGE LINES	COMMENTS
				BEGIN	END		YELLOW	WHITE	Yellow	White		
BULLITT	KY	480	C	0.000	0.916	0.916			1.356	1.826	YES	CEDAR GROVE ROAD
BULLITT	KY	660		0.000	2.617	2.617	5.234	5.230			YES	WATERFORD ROAD
BULLITT	KY	1319		0.000	3.710	3.710	5.943	7.420			YES	KINGS CHURCH ROAD
BULLITT	KY	1417		0.000	2.289	2.289	4.547				NO	MARTIN HILL ROAD
BULLITT	KY	1450		0.000	1.895	1.895			3.790	3.790	YES	BLUE LICK ROAD
BULLITT	KY	1494		0.000	6.675	6.675	13.350	13.350			YES	PITTS POINT
BULLITT	KY	1526		0.000	10.810	10.810	21.620	21.620			YES	BELLS MILL ROAD
BULLITT	KY	1531		0.000	0.670	0.670	1.340	1.700			YES	DAWSON HILL ROAD
BULLITT	KY	2673		0.000	3.233	3.233	5.110				NO	WEST BLUE LICK ROAD
BULLITT	KY	2674		0.000	3.287	3.287	6.570				NO	STRINGER LANE
BULLITT	KY	2723		0.000	2.830	2.830	4.897				NO	RAYMOND ROAD
BULLITT	KY	3219		0.000	2.580	2.580	5.160				NO	CHAPEZE LANE
BULLITT	KY	6302		0.000	0.616	0.616			0.920	1.230	YES	OLD PRESTON HWY
TOTAL						42.128	73.771	49.320	6.066	6.846		
FRANKLIN	KY	12		0.000	12.461	12.461	2.500	22.000			NO	DRY RIDGE ROAD
FRANKLIN	KY	368		0.000	3.414	3.414	6.025				NO	CEDAR ROAD
FRANKLIN	KY	561		0.000	0.543	0.543	1.086				NO	Guist Road
FRANKLIN	KY	1005		0.000	7.450	7.450	14.625	1.000			YES	DEVILS HOLLOW ROAD
FRANKLIN	KY	1262		0.000	12.734	12.734	25.468	10.690			YES	JONES LANE
FRANKLIN	KY	1472		0.000	0.341	0.341	0.590				NO	HICKORY RIDGE ROAD
FRANKLIN	KY	1659		0.000	3.356	3.356	6.712	6.712			YES	GLEENS CREEK ROAD
FRANKLIN	KY	1665		0.000	11.910	11.910	14.547	16.000			YES	EVERGREEN ROAD
FRANKLIN	KY	1681		0.000	0.963	0.963			1.930	1.930	YES	OLD FRANKFORT PIKE
FRANKLIN	KY	1685		0.000	1.467	1.467	2.934				NO	BEDFORD ROAD
FRANKLIN	KY	1688		0.000	0.354	0.354	0.938				NO	STAMPING GROUNG ROAD
FRANKLIN	KY	1689		0.000	6.020	6.020	12.040	12.040			YES	SWITZER ROAD
FRANKLIN	KY	1707		0.000	4.392	4.392		8.784			YES	
FRANKLIN	KY	1784		0.000	0.990	0.990	1.506	1.980			YES	COFFEE TREE
FRANKLIN	KY	1900		0.000	5.936	5.936	12.170	2.000			YES	PEAKS MILL ROAD
FRANKLIN	KY	2817		0.000	3.074	3.074			5.860	6.200	YES	CARDWELL LANE
FRANKLIN	KY	2820		0.000	2.530	2.530	4.238				NO	GREEN WILSON
FRANKLIN	KY	2821		0.000	2.905	2.905	4.802	5.810			YES	HANLEY LANE
FRANKLIN	KY	2822		0.000	3.075	3.075			6.100	2.350	YES	STEADMANTOWN ROAD
FRANKLIN	KY	2919		0.000	2.960	2.960	1.000	5.920			YES	INDIAN GAP
TOTAL						86.875	111.181	92.936	13.890	10.480		
HENRY	KY	153		0.000	5.521	5.521	11.042				YES	PENDLETON ROAD
HENRY	KY	157		0.000	9.770	9.770	14.990				NO	SULPHUR ROAD
HENRY	KY	193		0.000	9.578	9.578	16.583	19.078			YES	PORT ROYAL ROAD
HENRY	KY	322		0.000	2.277	2.277	3.494				NO	McCOUN ROAD
HENRY	KY	389		0.000	19.764	19.764	35.653				NO	HARPERS FERRY ROAD
HENRY	KY	574		0.000	13.950	13.950	27.900	27.900			YES	TURNERS STATION RD
HENRY	KY	997		0.000	4.902	4.902	9.473				NO	HILLSBORO ROAD
HENRY	KY	1359		0.000	2.896	2.896	5.792				NO	HILLSPRING ROAD
HENRY	KY	1606		0.000	8.783	8.783	14.480				NO	FALLEN TIMBER ROAD
HENRY	KY	1899		0.000	1.867	1.867	2.160	2.231			YES	MULBERRY PIKE
HENRY	KY	1922		0.000	0.215	0.215	0.310				NO	CEDARMORE ROAD
HENRY	KY	3175		0.000	0.142	0.142		0.284			YES	SULFER BEDFORD ROAD
HENRY	KY	3320		0.000	2.440	2.440	4.815				NO	MT. OLIVET ROAD
HENRY	KY	3321		0.000	2.117	2.117	3.584				NO	LACIE ROAD
HENRY	KY	3323		0.000	3.825	3.825	7.650				NO	JACKSON ROAD
TOTAL						88.047	157.926	49.493	0.000	0.000		



DISTRICT 5 WATERBORNE PAINT STRIPING - FY 2024  
RURAL SECONDARY SYSTEM

COUNTY	ROUTE			MILEPOINTS		ROADWAY MILES	4" LINE		6" Line		EDGE LINES	COMMENTS
				BEGIN	END		YELLOW	WHITE	Yellow	White		
JEFFERSON	KY	148		0.000	3.394	3.394	5.230	6.670			YES	
JEFFERSON	KY	660		0.000	0.470	0.470	0.940	0.940			YES	WATERFORD ROAD
JEFFERSON	KY	864		0.000	3.365	3.365			5.410	6.890	YES	POPLAR LEVEL ROAD
JEFFERSON	KY	913	C	0.000	0.500	0.500			1.261	0.936	YES	
JEFFERSON	KY	1116		0.000	0.008	0.008	0.016				NO	ZONETON ROAD
JEFFERSON	KY	1819		0.000	4.382	4.382	9.720	10.354			YES	BILLTOWN ROAD
JEFFERSON	KY	1819		4.382	5.189	0.807			1.614	1.614	YS	
JEFFERSON	KY	1819		12.811	13.624	0.813			1.630	1.630	YES	
JEFFERSON	KY	1230		0.000	8.024	8.024	10.060	18.180			YES	DOVER AVENUE
JEFFERSON	KY	1531		0.000	12.656	12.656	23.364	23.000			YES	EASTWOOD FISHERVILLE RD
JEFFERSON	KY	1851		0.000	0.974	0.974	1.530	1.948			YES	HUTCHERSON DRIVE
JEFFERSON	KY	1931		0.000	0.538	0.538			1.080	1.080	YES	
JEFFERSON	KY	2051		1.975	6.374	4.399			8.798	8.798	YES	CAMPGROUND ROAD
JEFFERSON	KY	2053		0.000	7.184	7.184	12.983	14.368			YES	MT.WASHINGTON ROAD
JEFFERSON	KY	2055		0.000	4.206	4.206			8.412	8.412	YES	WEST MANSLICK ROAD
JEFFERSON	KY	2317		0.000	0.347	0.347	0.540				NO	BARRICKS ROAD
JEFFERSON	KY	2840		0.000	0.107	0.107	2.330	0.214			YES	OLD SHELBYVILLE RD
JEFFERSON	KY	2841		0.000	0.643	0.643	1.010	1.286			YES	EASWOOD CUTOFF ROAD
JEFFERSON	KY	3222		0.000	1.057	1.057	1.991	2.110			YES	ROSE ISLAND ROAD
JEFFERSON	KY	6162		0.000	0.295	0.295	0.727	0.618			YES	MINORS LANE (BEHIND McDONALDS)
JEFFERSON	KY	6302		0.000	0.276	0.276			0.552	0.552	YES	OLD KY 61,SO OF MUDLANE
JEFFERSON	KY	6304		0.000	0.498	0.498	1.040	1.040			YES	OLD PRESTON HWY
TOTAL						54.943	71.481	80.728	28.757	29.912		
OLDHAM	KY	329		7.226	8.935	1.709			3.418	3.418	YES	COVERED BRIDGE ROAD
OLDHAM	KY	362		0.000	3.039	3.039	6.500				NO	CENTRAL AVENUE
OLDHAM	KY	393		0.000	2.562	2.562			4.020	5.020	YES	PAYTON LANE
OLDHAM	KY	524		0.000	12.148	12.148	24.296	7.900			YES	COVINGTON RIDGE ROAD
OLDHAM	KY	712		0.000	2.855	2.855			4.480	4.480	YES	JERICHO ROAD
OLDHAM	KY	1315		0.000	3.520	3.520			5.530	7.040	YES	HANNA ROAD
OLDHAM	KY	1408		0.000	3.132	3.132			6.400	6.260	YES	FLOYDSBURG ROAD
OLDHAM	KY	1488		0.000	4.181	4.181	8.362	4.578			YES	
OLDHAM	KY	1694		3.149	8.214	5.065	8.900				NO	MASON LANE
OLDHAM	KY	1793		0.000	2.141	2.141			4.500	5.000	YES	SOUTH HIGHWAY
OLDHAM	KY	1817		0.000	4.756	4.756		9.512			YES	CEDAR POINT ROAD
OLDHAM	KY	1818		0.000	5.864	5.864			11.120	11.730	YES	MOUNT ZION ROAD
OLDHAM	KY	2853		0.000	0.696	0.696			1.120	1.290	YES	JERICHO ROAD
OLDHAM	KY	2854		0.000	2.592	2.592	4.763				NO	DAWKINS ROAD
OLDHAM	KY	2855		0.000	2.458	2.458	4.916				NO	FORT PICKENS ROAD
OLDHAM	KY	2856		0.000	4.103	4.103			6.440	8.200	YES	ELDER PARK ROAD
OLDHAM	KY	2857		0.000	1.576	1.576			4.030	5.130	YES	NEW MOODY LANE
OLDHAM	KY	2858		0.000	1.806	1.806			3.346	3.400	YES	ABBOTT LANE
OLDHAM	KY	2859		0.000	2.446	2.446	5.000	4.900			YES	FIBLE LANE
OLDHAM	KY	3223		0.000	4.800	4.800			8.840	9.500	YES	OLD SLIGO ROAD
OLDHAM	KY	3222		0.000	3.096	3.096	6.190				NO	ROSE ISLAND ROAD
TOTAL						74.545	68.927	26.890	63.244	70.468		



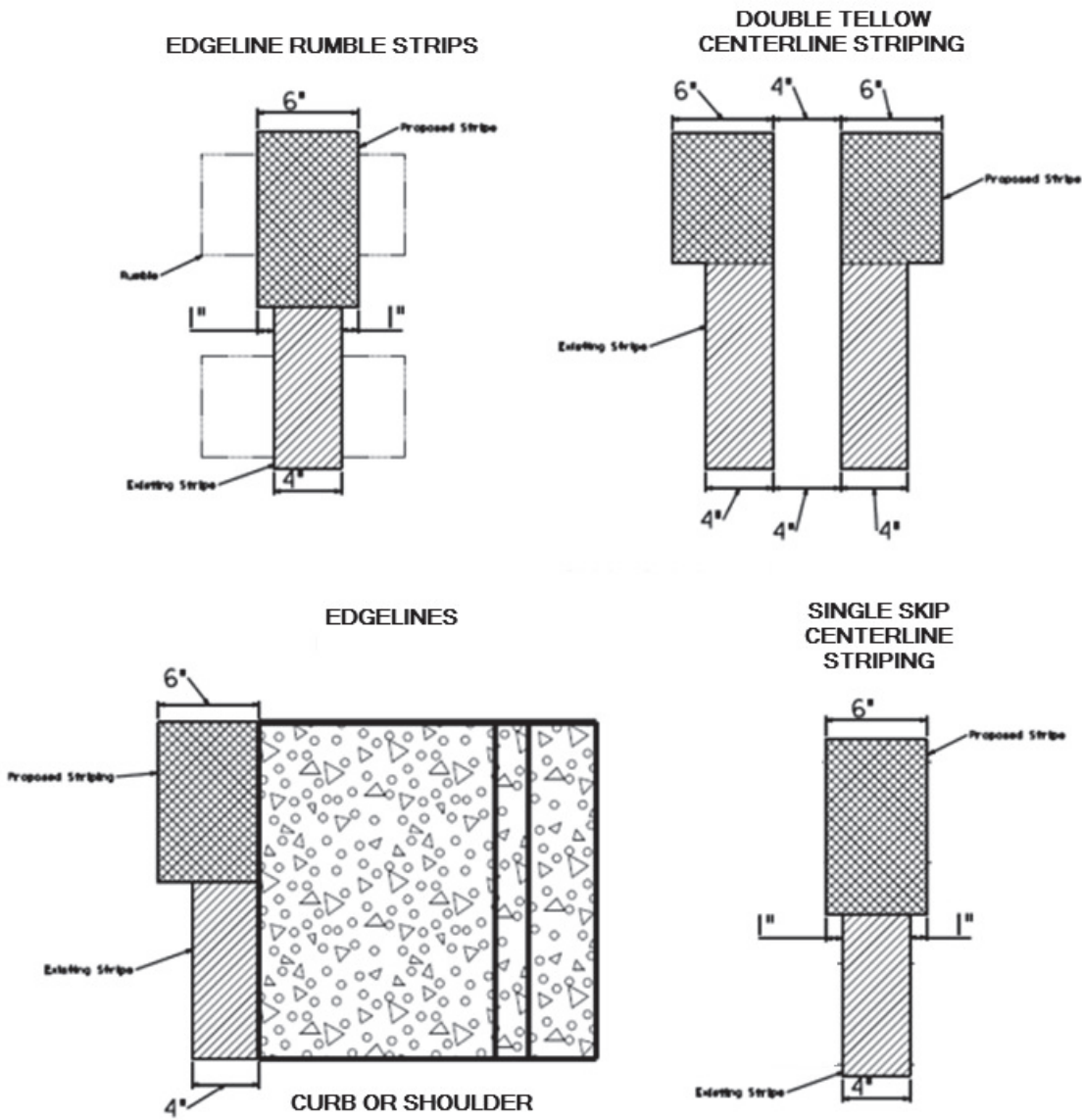
DISTRICT 5 WATERBORNE PAINT STRIPING - FY 2024  
RURAL SECONDARY SYSTEM

COUNTY	ROUTE		MILEPOINTS		ROADWAY MILES	4" LINE		6" Line		EDGE LINES	COMMENTS
			BEGIN	END		YELLOW	WHITE	Yellow	White		
SHELBY	KY	12	4.798	8.829	4.031	6.400	7.789			YES	BAGDAD ROAD
SHELBY	KY	43	8.520	12.535	4.015	6.640	8.030			YES	CROPPER ROAD
SHELBY	KY	148	0.000	13.870	13.870			21.780	27.740	YES	FINCHVILLE ROAD
SHELBY	KY	322	0.000	2.316	2.316	3.929				NO	LUCAS ROAD
SHELBY	KY	636	0.000	5.425	5.425	9.491				NO	BACK CREEK ROAD
SHELBY	KY	362	0.000	12.022	12.022			19.230	19.230	YES	AIKEN ROAD
SHELBY	KY	395	0.000	8.470	8.470	16.940	16.940			YES	WADDY ROAD
SHELBY	KY	395	16.193	21.610	5.417	10.834	10.834			NO	WADDY ROAD
SHELBY	KY	714	0.000	8.733	8.733	17.461	17.460			YES	HEMPRIDGE ROAD
SHELBY	KY	1005	0.165	11.270	11.105	17.650				NO	VIGO ROAD
SHELBY	KY	1315	0.000	1.975	1.975	3.000				NO	HANNAH ROAD
SHELBY	KY	1408	0.000	0.871	0.871	1.660				NO	FLOYDSBURG ROAD
SHELBY	KY	1472	0.000	11.349	11.349	21.176				NO	MINK RUN ROAD
SHELBY	KY	1531	0.000	0.084	0.084			0.200	0.168	YES	AIKEN ROAD
SHELBY	KY	1779	0.000	10.018	10.018	16.550	12.200			YES	BENSON PIKE
SHELBY	KY	1790	0.000	4.449	4.449	8.350				NO	HOOPER STATION ROAD
SHELBY	KY	1848	6.025	10.591	4.566	7.800				YES	TODDS POINT ROAD
SHELBY	KY	1848	0.000	4.801	4.801			9.920	10.050	YES	
SHELBY	KY	1922	0.000	6.766	6.766	12.230				NO	CEDARMORE ROAD
SHELBY	KY	2256	0.000	0.436	0.436	0.769				NO	GRAEFENBURG ROAD
SHELBY	KY	2861	0.000	6.593	6.593			12.383	13.190	YES	ZARING MILL ROAD
SHELBY	KY	2866	0.000	3.820	3.820	6.541				NO	WOODLAWN ROAD
SHELBY	KY	2867	0.000	2.497	2.497	4.330				NO	KINGS HIGHWAY
TOTAL					133.629	171.751	73.253	63.513	70.378		
SPENCER	KY	458	0.000	0.156	0.156	0.312				NO	
SPENCER	KY	652	0.000	6.185	6.185	12.042				NO	LITTLE UNION CREEK
SPENCER	KY	1060	0.000	5.169	5.169	10.270				NO	PLUM CREEK ROAD
SPENCER	KY	1169	0.000	8.916	8.916	17.832	8.320			YES	PLUM RIDGE ROAD
SPENCER	KY	1319	0.000	4.488	4.488	9.700				NO	DALE LANE
SPENCER	KY	1416	0.000	4.396	4.396		9.050			YES	
SPENCER	KY	1795	0.000	5.991	5.991	10.410				NO	MILL ROAD
SPENCER	KY	2885	0.000	7.008	7.008		15.050			YES	
SPENCER	KY	3228	0.000	2.321	2.321		5.500			YES	
SPENCER	KY	3192	0.000	2.950	2.950	6.220				NO	WILSONVILLE ROAD
TOTAL					47.580	66.786	37.920	0.000	0.000		
TRIMBLE	KY	625	0.000	12.215	12.215	18.320				NO	MT. PLEASANT ROAD
TRIMBLE	KY	1335	0.000	4.104	4.104	7.350				NO	
TRIMBLE	KY	1488	0.000	1.743	1.743		3.500			YES	PATTONS CREEK ROAD
TRIMBLE	KY	2869	0.000	1.835	1.835		4.050			YES	
TRIMBLE	KY	2871	0.000	0.295	0.295	0.590				NO	
TRIMBLE	KY	3175	0.000	6.620	6.620		13.240			YES	
TOTAL					26.812	26.260	20.790	0.000	0.000		

- NOTES: 1. 4" & 6" Lines - Waterbourne Striping - Section 842.
2. Quantities included are estimated and are subject to change. Re-trace as directed by the Engineer.
3. The Department will measure & pay only the actual quantities performed.
4. DO NOT PAINT OVER EXISTING DURABLE MARKINGS (IE. TAPE, THERMOPLASTIC, HPS-8, ETC.)

DETAIL 6 INCH TO 4 INCH TRANSITION

PREFERRED METHOD TO OBTAIN 6" WIDTH FOR VARIOUS STRIPING SCENARIOS



To request measurement of retroreflectivity in accordance with KM203, please email all correspondence to [brandi.mitchell@ky.gov](mailto:brandi.mitchell@ky.gov). Please notify Central Office at least two (2) weeks in advance of when mobile testing is needed.

**PART II**

**SPECIFICATIONS AND STANDARD DRAWINGS**

### **STANDARD SPECIFICATIONS**

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

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 administering 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, 1025 Capital Center Drive, Suite 104, Frankfort, Kentucky 40601; telephone (502) 564-7954.

Revised: May 23, 2022

### **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  $1\frac{1}{2}$  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**

Report Date 1/2/24

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 RURAL SECONDARY ROUTES	431.33	MILE		\$	
0040	06520		PAVE STRIPING-WB PAINT-4 IN W STATE PRIMARY, SECONDARY & SUPPLEMENTAL ROUTES	96.89	MILE		\$	
0050	06521		PAVE STRIPING-WB PAINT-4 IN Y RURAL SECONDARY ROUTES	618.67	MILE		\$	
0060	06521		PAVE STRIPING-WB PAINT-4 IN Y STATE PRIMARY, SECONDARY & SUPPLEMENTAL ROUTES	104.73	MILE		\$	
0070	06522		PAVE STRIPING-WB PAINT-6 IN W RURAL SECONDARY ROUTES	117.71	MILE		\$	
0080	06522		PAVE STRIPING-WB PAINT-6 IN W STATE PRIMARY, SECONDARY & SUPPLEMENTAL ROUTES	1,352.75	MILE		\$	
0090	06523		PAVE STRIPING-WB PAINT-6 IN Y RURAL SECONDARY ROUTES	111.96	MILE		\$	
0100	06523		PAVE STRIPING-WB PAINT-6 IN Y STATE PRIMARY, SECONDARY & SUPPLEMENTAL ROUTES	104.73	MILE		\$	
0110	06526		PAVE STRIPING-WB PAINT-12 IN W STATE PRIMARY, SECONDARY & SUPPLEMENTAL ROUTES	18.05	MILE		\$	
0120	20411ED		LAW ENFORCEMENT OFFICER	100.00	HOURL		\$	
0130	22664EN		WATER BLASTING EXISTING STRIPE	500.00	LF		\$	
0140	23138EN		RETROREFLECTOMETER DISTRICT 5	1.00	EACH		\$	
0150	23138EN		RETROREFLECTOMETER DIVISION OF MATERIALS	2.00	EACH		\$	
0160	23140EN		DURABLE WATERBORNE MARKING-6 IN W INTERSTATE SYSTEM	551.84	MILE		\$	
0170	23141EN		DURABLE WATERBORNE MARKING-6 IN Y INTERSTATE SYSTEM	323.85	MILE		\$	
0180	26162EC		DURABLE WATERBORNE MARKING-12 IN W INTERSTATE SYSTEM	84.12	MILE		\$	

Section: 0002 - DEMOBILIZATION

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