



**CALL NO. 407**

**CONTRACT ID. 242137**

**KENTON COUNTY**

**FED/STATE PROJECT NUMBER 059GR24P022 - FD05 & FE01**

**DESCRIPTION KENTON COUNTY (KY 8)**

**WORK TYPE ASPHALT RESURFACING**

**PRIMARY COMPLETION DATE 11/15/2024**

**LETTING DATE: April 25,2024**

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN DAYLIGHT TIME April 25,2024. Bids will be publicly announced at 10:00 AM EASTERN DAYLIGHT TIME.

**NO PLANS ASSOCIATED WITH THIS PROJECT.**

**DEFERRED PAYMENT**

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

## TABLE OF CONTENTS

PART I	SCOPE OF WORK
	<ul style="list-style-type: none"><li>• PROJECT(S), COMPLETION DATE(S), &amp; LIQUIDATED DAMAGES</li><li>• CONTRACT NOTES</li><li>• STATE CONTRACT NOTES</li><li>• DEFERRED PAYMENT</li><li>• NATIONAL HIGHWAY</li><li>• SURFACING AREAS</li><li>• ASPHALT MIXTURE</li><li>• INCIDENTAL SURFACING</li><li>• FUEL AND ASPHALT PAY ADJUSTMENT</li><li>• COMPACTION OPTION A</li><li>• COMPACTION OPTION B</li><li>• SPECIAL NOTE(S) APPLICABLE TO PROJECT</li><li>• WASTE AND BORROW SITES</li><li>• AWARD OF CONTRACT</li><li>• ELECTRONIC DELIVERY MANAGEMENT SYSTEM (E-TICKETING)</li><li>• EXPERIMENTAL KYCT AND HAMBURG TESTING</li><li>• MANHOLE ADJUSTMENTS</li><li>• ASPHALT MIX PAVEMENT WEDGE MONOLITHIC OPERATION</li><li>• ASPHALT MILLING AND TEXTURING</li><li>• BASE FAILURE REPAIR</li><li>• TYPICAL SECTION DIMENSIONS</li><li>• TRAFFIC CONTROL PLAN</li><li>• DURABLE PAVEMENT EDGE DETAILS</li><li>• SKETCH MAP(S)</li><li>• MATERIAL SUMMARY</li><li>• SUMMARY SHEET(S)</li><li>• TYPICAL SECTION(S)</li><li>• DETAIL SHEET(S)</li><li>• BRIDGE DETAIL FOR PAVING PROJECT</li></ul>
PART II	SPECIFICATIONS AND STANDARD DRAWINGS
	<ul style="list-style-type: none"><li>• STANDARD AND SUPPLEMENTAL SPECIFICATIONS</li><li>• [SN-1I] PORTABLE CHANGEABLE SIGNS</li><li>• 2020 STANDARD DRAWINGS THAT APPLY</li></ul>
PART III	EMPLOYMENT, WAGE AND RECORD REQUIREMENTS
	<ul style="list-style-type: none"><li>• LABOR AND WAGE REQUIREMENTS</li><li>• EXECUTIVE BRANCH CODE OF ETHICS</li><li>• KENTUCKY EQUAL EMPLOYMENT OPPORTUNITY ACT OF 1978 LOCALITY / STATE</li><li>• PROJECT WAGE RATES / STATE FUNDED</li></ul>
PART IV	INSURANCE
PART V	BID ITEMS

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

## ADMINISTRATIVE DISTRICT - 06

**CONTRACT ID - 242137**

**059GR24P022 - FD05 & FE01**

**COUNTY - KENTON**

**PCN - MP05900082401**

**FD05 059 0008 006-008**

HIGHWAY AVE/5TH STREET (KY 8 EASTBOUND, OMIT MP'S 6.232-6.680) (MP 6.147) BEGIN AT SPRING STREET  
EXTENDING EAST TO THE LICKING RIVER BRIDGE (MP 7.606), A DISTANCE OF 01.45 MILES.ASPHALT  
RESURFACING

GEOGRAPHIC COORDINATES LATITUDE 39:05:07.00 LONGITUDE 84:31:00.00

ADT 8,107

**PCN - MP05900082402**

**FD05 059 0008 006-008**

4TH STREET (KY 8 WESTBOUND) (MP 6.660) BEGIN AT PHILADELPHIA STREET EXTENDING WEST TO  
GARRARD STREET (MP 7.414), A DISTANCE OF 0.75 MILES.ASPHALT RESURFACING

GEOGRAPHIC COORDINATES LATITUDE 39:05:12.00 LONGITUDE 84:30:52.00

ADT 8,107

**PCN - MP05900082403**

**FD05 059 0008 000-004**

RIVER ROAD (KY 8) (MP 0.000) BEGIN AT THE BOONE/KENTON COUNTY LINE EXTENDING EAST TO 0.031  
MILES EAST OF KY 1072 (MP 3.970), A DISTANCE OF 03.97 MILES.ASPHALT RESURFACING

GEOGRAPHIC COORDINATES LATITUDE 39:04:25.00 LONGITUDE 84:35:13.00

ADT 2,414

**PCN - MP05900082404**

**FE01 059 0008 006-008**

FOURTH AND FIFTH STREETS (KY 8 EB & WB) (MP 6.147) BEGIN AT SPRING STREET EXTENDING EAST TO THE  
LICKING RIVER BRIDGE (MP 7.606), A DISTANCE OF 01.45 MILES.OPERATIONS (MAINTENANCE)

GEOGRAPHIC COORDINATES LATITUDE 39:05:07.00 LONGITUDE 84:31:00.00

ADT 8,107

**COMPLETION DATE(S):**

COMPLETED BY 11/15/2024

APPLIES TO ENTIRE CONTRACT



## **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 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/construction-procurement](http://www.transportation.ky.gov/construction-procurement)). 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.

## 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

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

10/26/2023

**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

### **DEFERRED PAYMENT**

The successful bidder on this project has the distinct understanding that payment for any work may be delayed until July 15, 2024. Work Order/Notice to Proceed will be issued in accordance the Standard Specifications for Road and Bridge Construction, current edition.

### **NATIONAL HIGHWAY (MP 6.147 – 7.606 EB & WB)**

Be advised this project is on the NATIONAL HIGHWAY SYSTEM.

### **SURFACING AREAS FD05 059 0008 000-004**

The Department estimates the mainline surfacing width to be varied 21 to 30 feet.

The Department estimates the total mainline area to be surfaced to be 57,347 square yards.

The Department estimates the shoulder width to be varied 0 to 1 foot on each side.

The Department estimates the total shoulder area to be surfaced to be 3,931 square yards.

#### **SURFACING AREAS FD05 059 0008 006-008 EASTBOUND**

The Department estimates the mainline surfacing width to be varied 22 to 36 feet.

The Department estimates the total mainline area to be surfaced to be 20,906 square yards.

The Department estimates the shoulder width to be N/A foot on each side.

The Department estimates the total shoulder area to be surfaced to be N/A square yards.

#### **SURFACING AREAS FD05 059 0008 006-008 WESTBOUND**

The Department estimates the mainline surfacing width to be varied 36 feet.

The Department estimates the total mainline area to be surfaced to be 17,201 square yards.

The Department estimates the shoulder width to be N/A foot on each side.

The Department estimates the total shoulder area to be surfaced to be N/A square yards.

### **ASPHALT MIXTURE**

Unless otherwise noted, the Department estimates the rate of application for all asphalt mixtures to be 110 lbs/sy per inch of depth.

### **INCIDENTAL SURFACING**

The Department has included in the quantities of asphalt mixtures established in the proposal estimated quantities required for resurfacing or surfacing mailbox turnouts, farm field entrances, residential and commercial entrances, curve widening, ramp gores and tapers, and road and street approaches, as applicable. Pave these areas to the limits as shown on Standard Drawing RPM-110-06 or as directed by the Engineer. In the event signal detectors are present in the intersecting streets or roads, pave the crossroads to the right of way limit or back of the signal detector, whichever is the farthest back of the mainline. Surface or resurface these areas as directed by the Engineer. The Department will not measure placing and compacting for separate payment but shall be incidental to the Contract unit price for the asphalt mixtures.

### **FUEL AND ASPHALT PAY ADJUSTMENT**

The Department has included the Contract items Asphalt Adjustment and Fuel Adjustment for possible future payments at an established Contract unit price of \$1.00. The Department will calculate actual adjustment quantities after work is completed. If existing Contract amount is insufficient to pay all items on the contract with the adjustments, the Department will establish additional monies with a change order.

### **OPTION A (MP 6.147-7.606 EB and WB)**

Be advised that the Department will accept compaction of asphalt mixtures furnished for driving lanes and ramps, at 1 inch (25mm) or greater, on this project according to OPTION A in accordance with Section 402 and Section 403 of the current Standard



Specifications. The Department will require joint cores as described in Section 402.03.02 for surface mixtures only. The Department will accept compaction of all other asphalt mixtures according to OPTION B.

**OPTION B (MP 0.000-3.970)**

Be advised that the Department will control and accept compaction of asphalt mixtures furnished on this project under OPTION B in accordance with Sections 402 and 403.

**SPECIAL NOTE FOR  
NEW STRIPING LAYOUT  
KENTON COUNTY  
FD05 059 0008 006-008**

The new striping, signing and thermoplastic markings shall be installed according to the attached 4<sup>th</sup> Street Reconfiguration Striping Plans. The reconfiguration will only occur on 4<sup>th</sup> St between Garrard St. and Russell St.

## **SPECIAL PROVISION FOR WASTE AND BORROW SITES**

Obtain U.S. Army Corps of Engineer's approval before utilizing a waste or borrow site that involves "Waters of the United States". The Corps of Engineers defines "Waters of the United States" as perennial or intermittent streams, ponds or wetlands. The Corps of Engineers also considers ephemeral streams, typically dry except during rainfall but having a defined drainage channel, to be jurisdictional waters. Direct questions concerning any potential impacts to "Waters of the United States" to the attention of the appropriate District Office for the Corps of Engineers for a determination prior to disturbance. Be responsible for any fees associated with obtaining approval for waste and borrow sites from the U.S. Army Corps of Engineer or other appropriate regulatory agencies.

1-296 Waste & Borrow Sites  
01/02/2012

## **SPECIAL NOTE FOR AWARD OF CONTRACT**

Contrary to Section 103.02, the Department may hold the Bid Proposals of any or all bidders for a period not to exceed 90 calendar days for final disposition of award. The Department may hold the Bid Proposal of the lowest bidder longer than 90 calendar days if the bidder concurs.

Contrary to Section 103.04, The Department will hold the Proposal Guaranty of the lowest bidder and the Proposal Guaranty of the second lowest bidder, as determined by the Commissioner, until the Department awards the Contract and executes and approves the Contract and bond of the successful bidder, or until the Department rejects all Bid Proposals. If the Department does not make an award within 90 calendar days, the Department will return all Proposal Guaranties.

Except as provided in this note or elsewhere in the proposal, the Department will apply all other applicable portions of Section 103.

1-3002 Award of Contract  
01/02/2012

### **SPECIAL NOTE FOR ELECTRONIC DELIVERY MANAGEMENT SYSTEM (e-Ticketing)**

This Special Note will apply when indicated on the plans or in the proposal. Section references herein are to the Department's Standard Specifications for Road and Bridge Construction current edition.

**1.0 DESCRIPTION.** Incorporate an e-Ticketing Delivery Software for weighed asphalt material delivered to the project to report loads and provide daily running totals of weighed asphalt material for pay items and incidental work during the construction processes from the point of measurement and loading to the point of incorporation to the project.

**2.0 MATERIALS AND EQUIPMENT.** Contractor shall supply material data in JavaScript Object Notation (JSON) documents to the KYTC e-Ticketing Delivery Software (KYTC e-Ticketing Portal) via Application Programming Interface (API) or direct connection. Test and verify that ticket data can be shared from the original source no fewer than 30 days prior to material placement activities. An e-Ticketing Delivery Software supplier can provide a qualified representative for on-site technical assistance during the initial setup, pre-construction verifications, and data management and processing as needed during the Project to maintain material data delivery capabilities. Virtual meetings may be hosted in lieu of on-site meetings when deemed appropriate by the Engineer.

Provide e-Ticketing Delivery Software that will meet the following:

1. The e-Ticketing Delivery Software shall be fully integrated with the Contractor's Load Read-Out scale system at the material source location.
2. The e-Ticketing Delivery Software shall provide real-time delivery to KYTC e-Ticketing Portal.
3. Transmit any updates to the ticket data within 5 minutes of a change.

**3.0 CONSTRUCTION.** Provide the Engineer with the manufacturer's specifications and all required documentation for data access at the pre-construction conference.

#### **A. Construction Requirements**

1. Install and operate software in accordance with the manufacturer's specifications.
2. Verify that all pertinent information is provided by the software within the requirements of this Special Note.

#### **B. Data Deliverables**

Provide to the Engineer a means in which to gather report summaries by way of iOS apps, web pages, or any other method at the disposal of the Engineer. The Engineer may request data at any time during the project.

##### **1. Asphalt Material**

###### **a. Real-time Continuous Data Items**

Provide the Engineer access to JSON documents capable of being transmitted through the KYTC's e-Ticketing Portal that displays the following information in real-time with a web-based system compatible with iOS and Windows environments.

- Each Truck
  - Supplier Name
  - Supplier Address
  - Supplier Phone
  - Plant location
  - Date
  - Time at source
  - Project Location

- Contract ID#
- Carrier Name
- Unique Truck ID
- Description of Material
- Mix Design Number
- Gross, Tare and Net Weight
- Weighmaster

**4.0 MEASUREMENT.** The Department will measure the electronic delivery management system as a lump sum item.

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

1. Payment is full compensation for all work associated with providing all required equipment, training, and documentation.
2. Payment will be full compensation for costs related to providing the e-Ticketing Delivery Software, including integration with plant load-out systems, and report viewing/exporting process. All quality control procedures including the software representative's technical support and on-site training shall be included in the Contract lump sum price.

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
26228EC	ELECTRONIC DELIVERY MGMT SYSTEM	LS

January 2024

## SPECIAL NOTE FOR EXPERIMENTAL KYCT AND HAMBURG TESTING

### 1.0 General

**1.1 Description.** The KYCT (Kentucky Method for Cracking Test) and the Hamburg test results will help determine if the mixture is susceptible to cracking and rutting. During the experimental phase, data will be gathered and analyzed by the Department to determine the durability of the bituminous mixes. Additionally, the data will help the Department to create future performance-based specifications which will include the KYCT and Hamburg test methods.

### 2.0 Equipment

**2.1 KYCT Testing Equipment.** The Department will require a Marshall Test Press with digital recordation capabilities. Other CT testing equipment may be used for testing with prior approval by the Department.

**2.2 Water Baths.** One or more water baths will be required that can maintain a temperature of 77° +/- 1.8° F with a digital thermometer showing the water bath temperature. Also, one water bath shall have the ability to suspend gyratory specimen fully submerged in water in accordance with AASHTO T-166, current edition.

**2.3 Hamburg Wheel Track Testing.** The department encourages the use of the PTI APA/Hamburg Jr. test equipment to perform the loaded wheel testing. The Department will allow different equipment for the Hamburg testing, but the testing device must be approved by the Department prior to testing.

**2.4 Gyratory Molds.** Gyratory molds will be required to assist in the production of gyratory specimens in accordance with AASHTO T-312, current edition.

**2.5 Ovens.** Adequate (minimum of two ovens) will be required to accommodate the additional molds and asphalt mixture necessary to perform the acceptance testing as outlined in Section 402 of the Kentucky Standard Specifications for Road and Bridge Construction, current edition.

**2.6 Department Equipment.** The Department will provide gyratory molds, PINE 850 Test Press with digital recordation, and CT testing equipment to assist during this experimental phase so data can be gathered. Hamburg test specimens will be submitted to the Division of Materials for testing on the PTI APA/Hamburg Jr if the asphalt contractor or district materials office does not have an approved Hamburg testing device.

### 3.0 Testing Requirements

**3.1 Acceptance Testing.** Perform all acceptance testing and aggregate gradation as according with Section 402 and Section 403 of the Kentucky Standard Specifications for Road and Bridge Construction, current edition.

**3.2 KYCT Testing.** Perform crack resistance analysis (KYCT) in accordance with the current Kentucky Method for KYCT Index Testing during the mix design phase and during the plant production of all surface mixtures. For mix design approvals, submit KYCT results on the Department MixPack. For Class 4 mixtures, submit ingredient materials to the Division of Materials for verification.

**3.2.1 KYCT Frequency.** Obtain an adequate sample of hot mix asphalt to ensure the acceptance testing, gradation, and KYCT gyratory samples can be fabricated and is representative of the bituminous mixture. Acceptance specimens shall be fabricated first, then immediately after, fabricate the KYCT samples with the gyratory compactor in accordance with Section 2.4 of this Special Note. Analysis of the KYCT specimens and gradation will be required one per subplot produced from the same asphalt material and at the same time as the acceptance specimen is sampled and tested.

**3.2.2 Number of Specimens and Conditioning.** Fabricate specimens in accordance with the Kentucky Method for KYCT Index Testing. Contrary to the method, for field specimens, fabricate a minimum of 3 and up to 6 test specimens. The specimens shall be compacted at the temperature in accordance with KM 64-411. KYCT mix design specimens shall be short-term conditioned uncovered for four hours at compaction temperature in accordance with KM 64-411. Contrary to the Kentucky Method, plant produced bituminous material shall be short-term conditioned immediately after sampling for two hours uncovered in the oven at compaction temperature in accordance with KM 64-411. Additionally, fabricated specimens shall be allowed to cool in air (fan is permissible) for 30 minutes +/- 5 minutes and conditioned in a 77 °F water bath for 30 minutes +/- 5 minutes. To ensure confidence and reliability of the test results provided by KYCT testing and Hamburg testing, reheating of the asphalt mixture is prohibited.

**3.2.3 Record Times.** For each subplot, record the time required between drying aggregates in the plant to KYCT specimen fabrication. The production time may vary due to the time that the bituminous material is held in the silo. Record the preconditioning time when the time exceeds the one-hour specimen cool down time as required in accordance with The Kentucky Method for KYCT Index Testing. The preconditioning time may exceed an hour if the technician is unable to complete the test on the same day or within the specified times as outlined in The Kentucky Method for KYCT Index Testing. The production time and the preconditioning time shall be recorded on the AMAW.

**3.2.4 File Name.** As according to section 7.12 of The Kentucky Method for KYCT Index Testing, save the filename with the following format: "CID\_Approved Mix Number\_Lot Number\_Sublot Number\_Date"

**3.3 Hamburg Testing.** Perform the rut resistance analysis (Hamburg) in accordance with AASTHO T-324, not to exceed 20,000 passes for all bituminous mixtures during the mix design phase and production. For mix design approvals, submit Hamburg results on the Department MixPack. For Class 4 mixtures, submit ingredient materials to the Division of Materials for informational verification.

**3.3.1 Hamburg Testing Frequency.** Perform testing and analysis per lot of material. The plant produced bituminous material sampled for the Hamburg test does not have to be obtained at the same time as the acceptance and KYCT sample. If the Hamburg test sample is not obtained at the same time as the KYCT sample, determine the Maximum Specific Gravity of the KYCT sample in accordance with AASHTO T-209 coinciding with the Hamburg specimens.

**3.3.2 Record Times.** Record the production time as according to section 3.2.3 in this special note. Also record the time that the specimens were fabricated and the time the Hamburg testing was started. All times shall be recorded on the AMAW.



**3.3.3 File Name.** Save the Excel spreadsheet with the following file name; “Hamburg\_CID\_Approved Mix Number\_Lot Number\_Sublot Number\_Date” and upload the file into the AMAW.

#### **4.0 Data**

Submit the AMAW and all test data that was obtained for acceptance, gradation, KYCT, and Hamburg testing within five working days once all testing has been completed for a lot to Central Materials Lab and the District Materials Engineer. Also, any data and or comments that the asphalt contractor or district personnel deem informational during this experimental phase, shall also be submitted to the Central Materials Lab and the District Materials Engineer. Any questions or comments regarding any item in this Special Note can be directed to the Central Office, Division of Materials, Asphalt Branch.

#### **5.0 Payment**

Any additional labor and testing equipment that is required to fabricate and test the KYCT and Hamburg specimens shall be considered incidental to the asphalt surface line item. The Department will perform the testing for the KYCT and Hamburg specimens if a producer does not possess the proper equipment.

June 15<sup>th</sup>, 2022

### **SPECIAL NOTE FOR MANHOLE ADJUSTMENTS**

The City of Covington is responsible for manhole adjustments. Notify the Engineer a minimum of 30 calendar days prior to beginning any work on the project. Unless directed otherwise by the Engineer, do not begin resurfacing until the manhole adjustments are completed by the City. The Engineer will coordinate the work between the Contractor and City.

1-3181 Manhole Adjustments  
01/01/2009

## SPECIAL NOTE FOR PAVEMENT WEDGE AND SHOULDER MONOLITHIC OPERATION

**1.0 MATERIALS.** Provide an Asphalt Surface Mixture conforming to Section 403 of the Standard Specifications, as applicable to the project, for the pavement wedge.

**2.0 CONSTRUCTION.** Place the specified Asphalt Surface Mixture on shoulders monolithically with the driving lane. Prime the existing shoulder with tack material as the Engineer directs before placing the wedge. Construct according to Section 403.03 of the Standard Specifications.

Equip the paver with a modified screed that extends the full width of the wedge being placed and is tapered to produce a wedge. Obtain the Engineer's approval of the modified screed before placing shoulder wedge monolithically with the driving lane.

The wedge may vary in thickness at the edge of the milled area in the shoulder. If the area to receive the shoulder wedge is milled prior to placement, during rolling operations pinch the outside edge of the new inlay wedge to match the existing shoulder elevation not being resurfaced. Unless required otherwise by the Contract, construct rolled or sawed rumble strips according to Section 403.03.08, as applicable.

The following sketch is primarily for the computation of quantities; however, the wedge will result in a similar cross-section where sufficient width exists. Do not construct a shoulder for placing the wedge unless specified elsewhere in the Contract.



**3.0 MEASUREMENT.** The Department will measure Asphalt Surface Mixture placed as the pavement wedge according to Section 403.

**4.0 PAYMENT.** The Department will make payment for the completed and accepted quantities of Asphalt Surface Mixtures on pavement wedges according to Section 403.

**SPECIAL NOTE FOR  
ASPHALT MILLING AND TEXTURING**

Begin paving operations within **48 hours** of commencement of the milling operation. Continue paving operations continuously until completed. If paving operations are not begun within this time period, the Department will assess liquidated damages at the rate prescribed by Section 108.09 until such time as paving operations are begun.

Take possession of the millings and recycle the millings or dispose of the millings off the Right-of-Way at sites obtained by the Contractor at no additional cost to the Department.

1-3520 48 hours Contractor keeps millings  
01/2/2012

## **SPECIAL NOTES FOR BASE FAILURE REPAIR**

Base failure repair locations will be determined by the Engineer before the resurfacing begins. Saw cut the existing pavement, asphalt surface, base, DGA, and PCC and/or brick pavers (if present). Excavate approximately 9 inches from the existing pavement level. Remove and dispose of all materials. Use all possible care to avoid damaging existing culvert pipes and any existing underground utilities. Repair or restore any damaged items at no additional costs to the Department. Waste all removed materials off the Right of Way at sites obtained by the Contractor. Base Failure repairs shall occur between 9 am and 3 pm on weekdays or during daytime hours on the weekend.

Backfill the remaining area with Class 2 Asphalt Base 1.0D PG64-22 in 4-inch maximum courses up to the existing pavement surface. Seal the Asphalt Base with Leveling and Wedging. Compact each course of asphalt base to the proper compaction as required by the Section 403. Perform all base failure repairs in such a manner that removal and replacement are completed on the same day. Do this work as one of the Contractor's first operations in order to allow further compaction by traffic. Do not place new asphalt surface over repaired base failure areas until a minimum of 7 days has elapsed after placement of the final course of asphalt base. Prior to constructing the new asphalt surface, level and wedge any settlement of the repair areas.

The bidder must draw his own conclusions as to the conditions encountered. The Department does not give any guarantee as to the accuracy of the data and no claim will be considered for additional compensation of the materials encountered that are not in accord with the classification shown.

Payment at the Contract unit prices per Square Yard for "Base Failure Repair" shall be full compensation for all labor, materials, equipment, and incidentals for saw cutting pavement, excavating and disposing of all materials, backfilling trench up to the pavement boundary, furnishing, placing the asphalt base, and all other items necessary to complete the work to the satisfaction of the Engineer. Level and wedge will be paid as per the Standard Specifications.

### **SPECIAL NOTE FOR TYPICAL SECTION DIMENSIONS**

Consider the dimensions shown on the typical sections for pavement and shoulder widths and thickness' to be nominal or typical dimensions. The Engineer may direct or approve varying the actual dimensions to be constructed to fit existing conditions. Do not widen existing pavement or shoulders unless specified elsewhere in this proposal or directed by the engineer.

1-3725 Typical Section Dimensions  
01/02/2012

## TRAFFIC CONTROL PLAN

### TRAFFIC CONTROL GENERAL

Except as provided herein, traffic shall be maintained in accordance with the current Standard Specifications and the Standard Drawings, current editions. Except for the roadway and traffic control bid items listed, all items of work necessary to maintain and control traffic will be paid at the lump sum bid price to "Maintain and Control Traffic".

Contrary to Section 106.01, traffic control devices used on this project may be new, or used in like new condition, at the beginning of the work and maintained in like new condition until completion of the work.

### PROJECT PHASING & CONSTRUCTION PROCEDURES (FD05 059 0008 006-008)

All lanes shall be open to traffic and no work will be allowed between the hours of 7 A.M. and 7 P.M. Monday through Friday. **Night work will be required on the project.** Minor operations and base failure repairs that require only a single lane closure and cause little disruption to traffic are allowed weekdays between the hours of 9:00 A.M. to 3:00 P.M. The Contractor is advised to take these restrictions into account in his bid. No additional payment will be allowed for any delays to the contractor as a result of these restrictions.

No lane closures will be allowed on the following days or nights:

May 25-27, 2024	Memorial Day Weekend
July 3 & 4, 2024	Fourth of July
Sept. 1 & 2, 2024	Labor Day Weekend

At the discretion of the Engineer, other days and hours may be specified when lane closures will not be allowed.

Maintain a minimum of one traffic lane (mainline) in each direction at all times during construction. The clear lane width shall be 9 feet (FD05 059 0008 000-004) 10 feet (FD05 059 0008 006-008 EB & WB) where possible. If traffic should be stopped due to construction operations, and a school bus on an official run arrives on the scene, the Contractor shall make provisions for the passage of the bus as quickly as possible.

Do not leave lane closures in place during non-working hours.

## **SIGNS**

Sign posts and splices shall be compliant with NCHRP 350 or MASH. Manufacturer's documentation validating this compliance shall be provided to the Engineer prior to installation. Signs, including any splices, shall be installed according to manufacturer's specifications and installation recommendations. Contrary to section 112.04.02, only long-term signs (signs intended to be continuously in place for more than 3 days) will be measured for payment. Short-term signs (signs intended to be left in place for 3 days or less) will not be measured for payment but will be incidental to Maintain and Control Traffic.

## **TEMPORARY ENTRANCES/ACCESS TO PROPERTY**

The Contractor will not be required to provide continuous access to farms, single family, duplex, or triplex residential properties during working hours; however, provide reasonable egress and ingress to each such property when actual operations are not in progress at that location. The time during which a farm or residential entrance is blocked shall be the minimum length of time required for actual operations, shall not be extended for the Contractor's convenience, and in no case shall exceed six (6) hours. Notify all residents twenty-four hours in advance of any driveway or entrance closings and make any accommodations necessary to meet the access needs of disabled residents.

Except as allowed by the Phasing as specified above, maintain direct access to all side streets and roads, schools, churches, commercial properties and apartments or apartment complexes of four or more units at all times.

Payment will be allowed at the unit price bid for all asphalt materials required to construct and maintain any temporary entrances which may be necessary to provide temporary access; however, no direct payment will be allowed for aggregates, excavation and/or embankment needed. The Engineer will determine the type of surfacing material, asphalt or aggregate, to be used at each entrance.

## **BARRICADES**

Barricades used in lieu of barrels and cones for channelization or delineation will be incidental to Maintain and Control Traffic according to Section 112.04.01. Barricades used to protect pavement removal areas will be bid as each according to Section 112.04.04.

## **TRAFFIC COORDINATOR (FD05 059 0008 006-080 EB & WB)**

Furnish a Traffic Coordinator as per Section 112 for unclassified project.

## **THERMOPLASTIC INTERSECTION MARKING**

All items required for lane closures related to this item of work shall be considered incidental to bid item "Maintain and Control Traffic". The Contractor shall be required to locate, document,



and replace the markings that are existing in the field upon completion of project or as directed by Engineer.

### **CHANGEABLE MESSAGE SIGNS**

Provide changeable message signs in advance of and within the project at locations to be determined by the Engineer. If work is in progress concurrently in both directions or if more than one lane closure is in place in the same direction of travel, provide additional changeable message signs as directed by the Engineer. Place changeable message signs one mile in advance of the anticipated queue at each lane closure. As the actual queue lengthens and/or shortens relocate or provide additional changeable message signs so that traffic has warning of slowed or stopped traffic at least one mile but not more than two miles before reaching the end of the actual queue. The locations designated may vary as the work progresses. The messages required to be provided shall be designated by the Engineer. In the event of damage or mechanical/electrical failure, the Contractor shall repair or replace the Changeable Message Sign within 24 hours. The Department will measure for payment the maximum number of changeable message signs in concurrent use at the same time on a single day on all sections of the contract. Individual changeable message signs will be measured only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. Replacements for damaged changeable message signs directed by the Engineer to be replaced due to poor condition or readability will not be measured for payment.

### **ARROW PANEL**

Use arrow panels as shown on the Standard Drawings or as directed by the Engineer. The Department will measure for payment the maximum number of arrow panels in concurrent use at the same time on a single day on all sections of the contract. Individual arrow panels will be measured only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. Replacements for damaged arrow panels directed by the Engineer to be replaced due to poor condition or readability will not be measured for payment. Arrow panels will remain the property of the Contractor after construction is complete.

### **PAVEMENT MARKINGS**

Coordinate the installation of all temporary and permanent striping with the Resident Engineer, and the TEBM for Traffic in the District. If there is a deviation from the existing striping plan, a striping plan for the pavement shall be provided to the Contractor prior to the installation of any temporary or permanent markings.

Do not install temporary pavement striping, permanent pavement striping, and/or thermoplastic or Durable Pavement markings without written permission from the Engineer.

Temporary Striping will be installed as per Section 112 with the following exceptions:

Temporary striping shall include striping of the edgelines.

Temporary or Permanent striping shall be in place before a lane is opened to traffic

If the Contractor's operations or phasing requires temporary markings that must be subsequently removed from the final surface course, an approved "Removable Lane Tape" shall be used. This removable lane tape will not be measured separately. The "removable lane tape", if used, will be measured and paid as temporary striping.

### **PAVEMENT EDGE DROP-OFFS**

A pavement edge between opposing directions of traffic or lanes that traffic is expected to cross in a lane change situation shall not have an elevation difference greater than 1½". Warning signs (MUTCD W8-9 or W8-9A, or W8-11) shall be placed in advance of and at 1500' intervals throughout the drop-off area. Dual posting on both sides of the traveled way shall be required. All transverse transitions between the newly surfaced area and the existing surface areas that traffic may cross shall be wedged with asphalt mixture for leveling and wedging. The wedges shall be removed prior to placement of the final surface course.

Pavement edges that traffic is not expected to cross, except accidentally, shall be treated as follows:

Less than 2" - No protection required.

2" to 4" - Place plastic drums, vertical panels, or barricades every 50 feet. Cones may be used in place of plastic drums, panels, and barricades during daylight working hours only. Wedge with asphalt mixture for leveling and wedging with a 1:1 or flatter slope in daylight hours, or 3:1 or flatter slope during nighttime hours, when work is not active in the drop-off area.

Greater than 4 inches - Drop-offs exceeding 4 inches will be allowed only during active operations during the interval between removal of shoulder/traffic islands/medians and the placement of the asphalt base courses in these areas. Place plastic drums, vertical panels or barricades every 40 feet. Drop-offs less than eight feet behind a lane or shoulder closure shall be protected by a asphalt wedge with 3:1 or flatter slope; the wedge shall be removed and the base course placed in the drop-off area as soon as possible.

In lieu of a wedge, drop-offs at lateral trenches may be covered by a 1" thick steel plate when work is not actively in progress at the pavement removal area; the plate shall be anchored to the pavement by any method approved by the Engineer that will prevent it being dislodged by accidental impact. If for any reason, it is necessary to excavate small areas, any holes adjacent to traffic where there exists a possibility that a vehicle may drop a wheel into the holes shall be filled with asphalt or plated. No direct payment will be made for the wedge or steel plates, but shall be incidental to other items of work.

## **USE AND PLACEMENT OF CHANGEABLE MESSAGE SIGNS**

The following policy is based upon current Changeable Message Signs (CMS) standards and practice from many sources, including the Federal Highway Administration (FHWA), other State Departments of Transportation, and Traffic Safety Associations. It is understood that each CMS installation or use requires individual consideration due to the specific location or purpose. However, there will be elements that are constant in nearly all applications. Accordingly these recommended guidelines bring a level of uniformity, while still being open to regional experience and engineering judgment.

### **Application**

The primary purpose of CMS is to advise the driver of unexpected traffic and routing situations. Examples of applications where CMS can be effective include:

- Closures (road, lane, bridge, ramp, shoulder, interstate)
- Changes in alignment or surface conditions
- Significant delays, congestion
- Construction/maintenance activities (delays, future activities)
- Detours/alternative routes
- Special events with traffic and safety implications
- Crash/incidents
- Vehicle restrictions (width, height, weight, flammable)
- Advance notice of new traffic control devices
- Real-time traffic conditions (must be kept up to date)
- Weather /driving conditions, environmental conditions, Roadway Weather Information Systems
- Emergency Situations
- Referral to Highway Advisory Radio (if available)
- Messages as approved by the County Engineer's Office

### **CMS should not be used for:**

- Replacement of static signs (e.g. road work ahead), regulatory signage (e.g. speed limits), pavement markings, standard traffic control devices, conventional warning or guide signs.
- Replacement of lighted arrow board
- Advertising (Don't advertise the event unless clarifying "action" to be taken by driver – e.g. Speedway traffic next exit)
- Generic messages
- Test messages (portable signs only)
- Describe recurrent congestion (e.g. rush hour)
- Public service announcements (not traffic related)

## Messages

Basic principles that are important to providing proper messages and insuring the proper operation of a CMS are:

- Visible for at least ½ mile under ideal daytime and nighttime conditions
- Legible from all lanes a minimum of 650 feet
- Entire message readable twice while traveling at the posted speed
- Not more than two message panels should be used (three panels may be used on roadways where vehicles are traveling less than 45 mph). A panel is the message that fits on the face of the sign without flipping or scrolling.
- Each panel should convey a single thought; short and concise
- Do not use two unrelated panels on a sign
- Do not use the sign for two unrelated messages
- Should not scroll text horizontally or vertically
- Should not contain both the words left and right
- Use standardized abbreviations and messages
- Should be accurate and timely
- Avoid filler/unnecessary words and periods (hazardous, a, an, the)
- Avoid use of speed limits
- Use words (not numbers) for dates

## Placement

Placement of the CMS is important to insure that the signs is visible to the driver and provides ample time to take any necessary action. Some of the following principles may only be applicable to controlled access roadways. The basic principles of placement for a CMS are:

- When 2 signs are needed, place on same side of roadway and at least 1,000 feet apart
- Place behind semi-rigid/rigid protection (guardrail, barrier) or outside of the clear zone
- Place 1,000 feet in advance of work zone; at least one mile ahead of decision point
- Normally place on right side of roadway; but should be placed closest to the affected lane so that either side is acceptable
- Signs should not be dual mounted (one on each side of roadway facing same direction)
- Point trailer hitch downstream
- Secure to immovable object to prevent thief (if necessary)
- Do not place in sags or just beyond crest
- Check for reflection of sun to prevent the blinding of motorist
- Should be turned ~3 degrees outward from perpendicular to the edge of pavement
- Bottom of sign should be 7 feet above the elevation of edge of roadway
- Should be removed when not in use
-

### Standard Abbreviations

The following is a list of standard abbreviations to be used on CMS.

<b><u>Word</u></b>	<b><u>Abbrev.</u></b>	<b><u>Example</u></b>
Access	ACCS	ACCIDENT AHEAD/USE ACCS RD NEXT RIGHT
Alternate	ALT	ACCIDENT AHEAD/USE ALT RTE NEXT RIGHT
Avenue	AVE	FIFTH AVE CLOSED/DETOUR NEXT LEFT
Blocked	BLKD	FIFTH AVE BLKD/MERGE LEFT
Boulevard	BLVD	MAIN BLVD CLOSED/USE ALT RTE
Bridge	BRDG	SMITH BRDG CLOSED/USE ALT RTE
Cardinal Directions	N, S, E, W	N I75 CLOSED/ DETOUR EXIT 30
Center	CNTR	CNTR LANE CLOSED/MERGE LEFT
Commercial	COMM	OVRSZ COMM VEH/USE I275
Condition	COND	ICY COND POSSIBLE
Congested	CONG	HVY CONG NEXT 3 MI
Construction	CONST	CONST WORK AHEAD/EXPECT DELAYS
Downtown	DWNTN	DWNTN TRAF USE EX 40
Eastbound	E-BND	E-BND I64 CLOSED/DETOUR EXIT 20
Emergency	EMER	EMER VEH AHEAD/PREPARE TO STOP
Entrance, Enter	EX, EXT	DWNTN TRAF USE EX 40
Expressway	EXPWY	WTRSN EXPWY CLOSED/DETOUR EXIT 10
Freeway	FRWY, FWY	GN SYNDR FWY CLOSED/DETOUR EXIT 15
Hazardous Materials	HAZMAT	HAZMAT IN ROADWAY/ALL TRAF EXIT 25
Highway	HWY	ACCIDENT ON AA HWY/EXPECT DELAYS
Hour	HR	ACCIDENT ON AA HWY/2 HR DELAY
Information	INFO	TRAF INFO TUNE TO 1240 AM
Interstate	I	E-BND I64 CLOSED/DETOUR EXIT 20
Lane	LN	LN CLOSED/MERGE LEFT
Left	LFT	LANE CLOSED/MERGE LFT
Local	LOC	LOC TRAF USE ALT RTE
Maintenance	MAINT	MAINT WRK ON BRDG/SLOW
Major	MAJ	MAJ DELWAYS I75/USE ALT RTE
Mile	MI	ACCIDENT 3 MI AHEAD/ USE ALT RTE
Minor	MNR	ACCIDENT 3 MI MNR DELAY

Minutes Northbound	MIN N-BND	ACCIDENT 3 MI/30 MIN DELAY N-BND I75 CLOSED/ DETOUR EXIT 50
Oversized	OVRSZ	OVRSZ COMM VEH/USE I275 NEXT RIGHT
Parking Parkway	PKING PKWY	EVENT PKING NEXT RGT CUM PKWAY TRAF/DETOUR EXIT 60
Prepare Right Road Roadwork	PREP RGT RD RDWK	ACCIDENT 3 MIL/PREP TO STOP EVENT PKING NEXT RGT HAZMAT IN RD/ALL TRAF EXIT 25 RDWK NEXT 4 MI/POSSIBLE DELAYS
Route Shoulder Slippery Southbound	RTE SHLDR SLIP S-BND	MAJ DELAYS I75/USE ALT RTE SHLDR CLOSED NEXT 5 MI SLIP COND POSSIBLE/ SLOW SPD S-BND I75 CLOSED/DETOUR EXIT 50
Speed Street Traffic	SPD ST TRAF	SLIP COND POSSIBLE/ SLOW SPD MAIN ST CLOSED/USE ALT RTE CUM PKWAY TRAF/DETOUR EXIT 60
Vehicle	VEH	OVRSZ COMM VEH/USE I275 NEXT RIGHT
Westbound	W-BND	W-BND I64 CLOSED/DETOUR EXIT 50
Work	WRK	CONST WRK 2MI/POSSIBLE DELAYS

Certain abbreviations are prone to inviting confusion because another word is abbreviated or could be abbreviated in the same way. DO NO USE THESE ABBREVIATIONS.

<u>Abbrev.</u>	<u>Intended Word</u>	<u>Word Erroneously Given</u>
ACC	Accident	Access (Road)
CLRS	Clears	Colors
DLY	Delay	Daily
FDR	Feeder	Federal
L	Left	Lane (merge)
LOC	Local	Location
LT	Light (traffic)	Left
PARK	Parking	Park
POLL	Pollution (index)	Poll
RED	Reduce	Red
STAD	Stadium	Standard
TEMP	Temporary	Temperature
WRNG	Warning	Wrong

## TYPICAL MESSAGES

The following is a list of typical messages used on CMS. The list consists of the reason or problem that you want the driver to be aware of and the action that you want the driver to take.

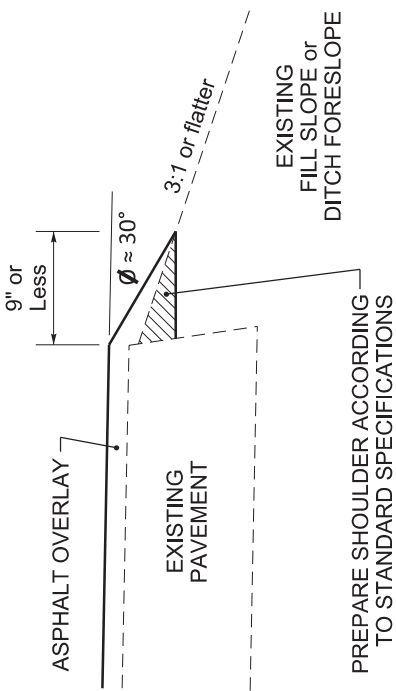
<u>Reason/Problem</u>	Action
ACCIDENT	ALL TRAFFIC EXIT RT
ACCIDENT/XX MILES	AVOID DELAY USE XX
XX ROAD CLOSED	CONSIDER ALT ROUTE
XX EXIT CLOSED	DETOUR
BRIDGE CLOSED	DETOUR XX MILES
BRIDGE/(SLIPPERY, ICE, ETC.)	DO NOT PASS
CENTER/LANE/CLOSED	EXPECT DELAYS
DELAY(S), MAJOR/DELAYS	FOLLOW ALT ROUTE
DEBRIS AHEAD	KEEP LEFT
DENSE FOG	KEEP RIGHT
DISABLED/VEHICLE	MERGE XX MILES
EMER/VEHICLES/ONLY	MERGE LEFT
EVENT PARKING	MERGE RIGHT
EXIT XX CLOSED	ONE-WAY TRAFFIC
FLAGGER XX MILES	PASS TO LEFT
FOG XX MILES	PASS TO RIGHT
FREEWAY CLOSED	PREPARE TO STOP
FRESH OIL	REDUCE SPEED
HAZMAT SPILL	SLOW
ICE	SLOW DOWN
INCIDENT AHEAD	STAY IN LANE
LANES (NARROW, SHIFT, MERGE, ETC.)	STOP AHEAD
LEFT LANE CLOSED	STOP XX MILES
LEFT LANE NARROWS	TUNE RADIO 1610 AM
LEFT 2 LANES CLOSED	USE NN ROAD
LEFT SHOULDER CLOSED	USE CENTER LANE
LOOSE GRAVEL	USE DETOUR ROUTE
MEDIAN WORK XX MILES	USE LEFT TURN LANE
MOVING WORK ZONE, WORKERS IN ROADWAY	USE NEXT EXIT
NEXT EXIT CLOSED	USE RIGHT LANE
NO OVERSIZED LOADS	WATCH FOR FLAGGER
NO PASSING	
NO SHOULDER	
ONE LANE BRIDGE	
PEOPLE CROSSING	
RAMP CLOSED	
RAMP (SLIPPERY, ICE, ETC.)	
RIGHT LANE CLOSED	
RIGHT LANE NARROWS	
RIGHT SHOULDER CLOSED	
ROAD CLOSED	
ROAD CLOSED XX MILES	
ROAD (SLIPPERY, ICE, ETC.)	
ROAD WORK	
ROAD WORK (OR CONSTRUCTION) (TONIGHT, TODAY, TOMORROW, DATE)	

ROAD WORK XX MILES  
SHOULDER (SLIPPERY, ICE, SOFT, BLOCKED, ETC.)  
NEW SIGNAL XX MILES  
SLOW 1 (OR 2) - WAY TRAFFIC  
SOFT SHOULDER  
STALLED VEHICLES AHEAD  
TRAFFIC BACKUP  
TRAFFIC SLOWS  
TRUCK CROSSING  
TRUCKS ENTERING  
TOW TRUCK AHEAD  
UNEVEN LANES  
WATER ON ROAD  
WET PAINT  
WORK ZONE XX MILES  
WORKERS AHEAD



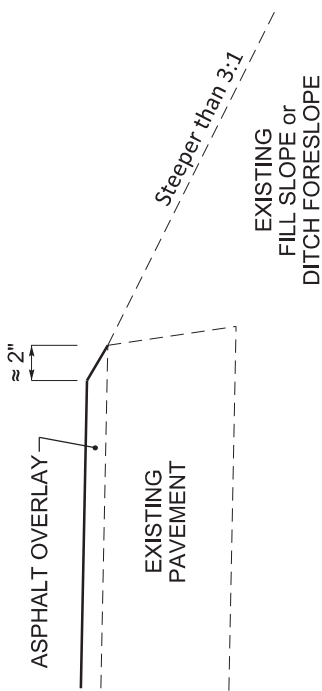
DURABLE PAVEMENT EDGE DETAIL

(Resurfacing adjacent to fill slope or ditch foreslope that is 3:1 or less)



DURABLE PAVEMENT EDGE DETAIL

(Resurfacing adjacent to fill slope or ditch foreslope that is steeper than 3:1)



NOTES

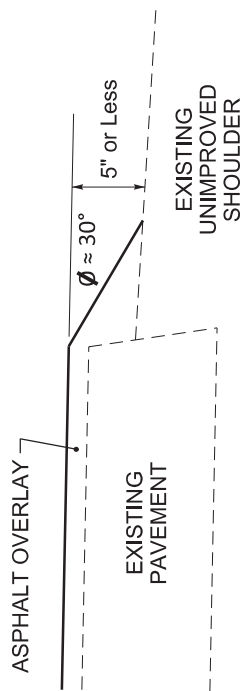
1. DETAILS DO NOT APPLY TO OVERLAYS LESS THAN 1 INCH THICK.
2. THE DURABLE PAVEMENT EDGE DEVICE MAY BE DISENGAGED AT DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT, AS APPROVED BY THE ENGINEER.

DURABLE PAVEMENT EDGE DETAILS

DRAWING NOT TO SCALE

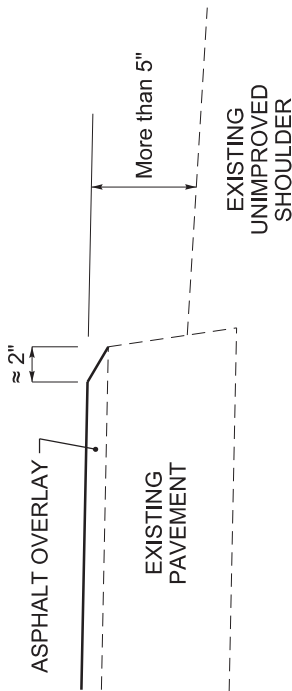
DURABLE PAVEMENT EDGE DETAIL

(Resurfacing adjacent to low shoulder with dropoff of 5 inches or less)



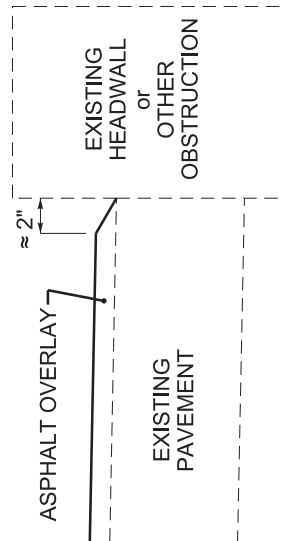
DURABLE PAVEMENT EDGE DETAIL

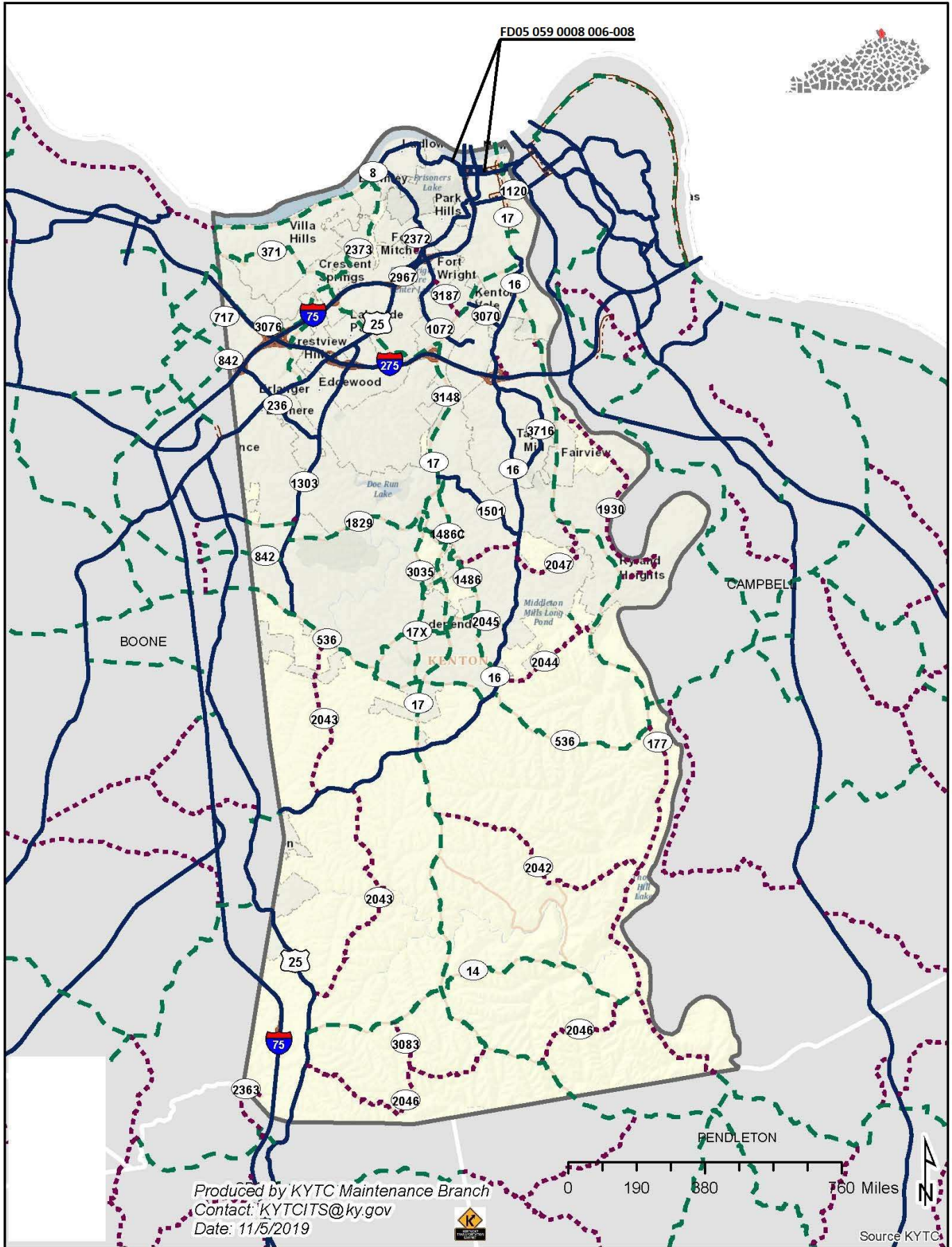
(Resurfacing adjacent to low shoulder with dropoff of more than 5 inches)



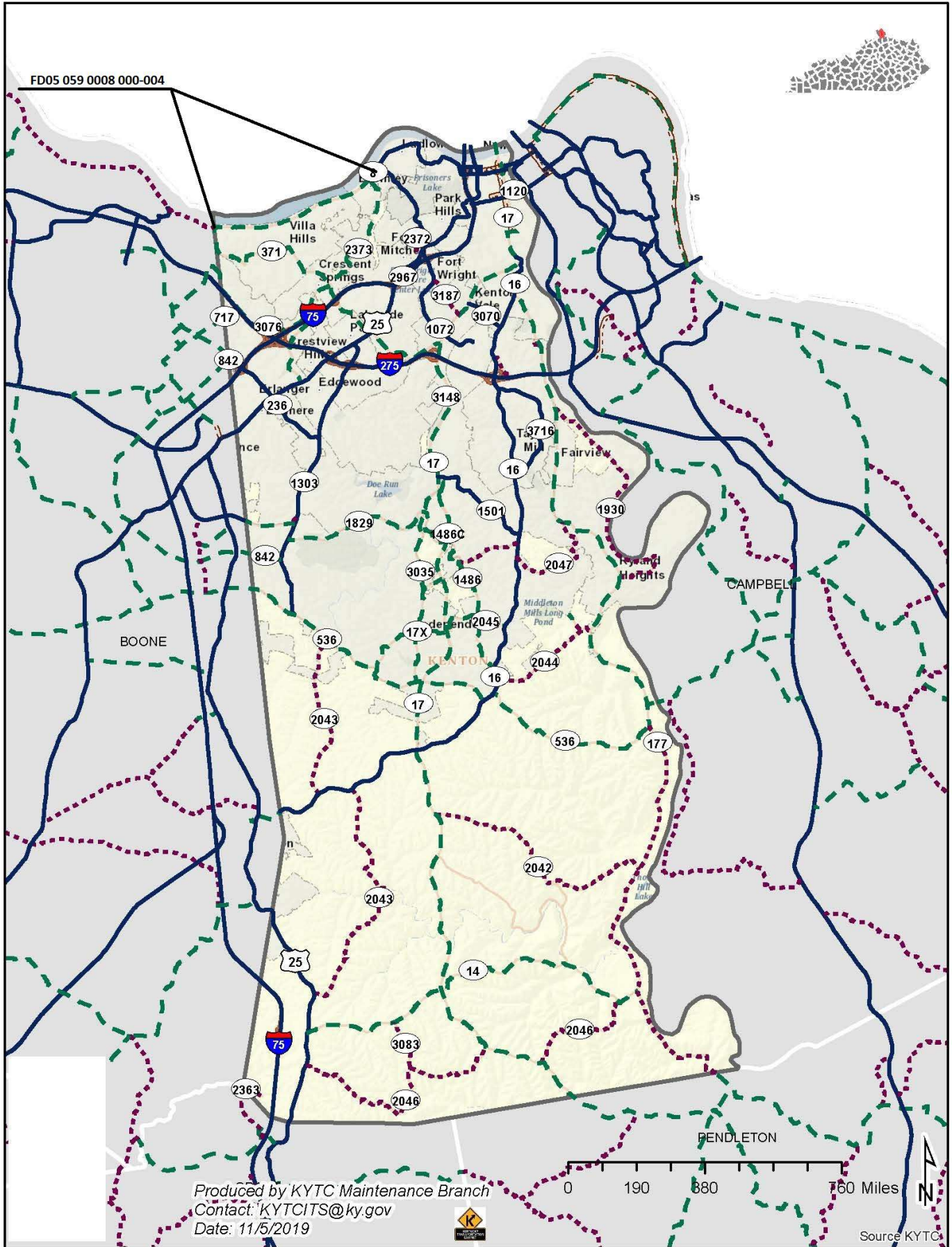
DURABLE PAVEMENT EDGE DETAIL

(Resurfacing adjacent to an obstruction, such as an existing headwall)









# MATERIAL SUMMARY

**CONTRACT ID: 242137**

**059GR24P022 - FD05 & FE01**

**MP05900082401**

HIGHWAY AVE/5TH STREET (KY 8 EASTBOUND, OMIT MP'S 6.232-6.680) BEGIN AT SPRING STREET  
EXTENDING EAST TO THE LICKING RIVER BRIDGE ASPHALT RESURFACING, A DISTANCE OF 1.45 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0005	00356	ASPHALT MATERIAL FOR TACK	9.00	TON
0010	00388	CL3 ASPH SURF 0.38B PG64-22	1,440.00	TON
0015	02562	TEMPORARY SIGNS	910.00	SQFT
0020	02650	MAINTAIN & CONTROL TRAFFIC - (KY 8 MP 006-008 EASTBOUND)	1.00	LS
0025	02671	PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH
0030	02676	MOBILIZATION FOR MILL & TEXT - (KY 8 MP 006-008 EASTBOUND)	1.00	LS
0035	02677	ASPHALT PAVE MILLING & TEXTURING	1,440.00	TON
0040	02775	ARROW PANEL	2.00	EACH
0045	03240	BASE FAILURE REPAIR	315.00	SQYD
0050	06510	PAVE STRIPING-TEMP PAINT-4 IN	7,668.00	LF
0055	06542	PAVE STRIPING-THERMO-6 IN W	5,200.00	LF
0060	06543	PAVE STRIPING-THERMO-6 IN Y	3,000.00	LF
0065	06565	PAVE MARKING-THERMO X-WALK-6 IN	2,468.00	LF
0070	06568	PAVE MARKING-THERMO STOP BAR-24IN	390.00	LF
0075	06573	PAVE MARKING-THERMO STR ARROW	6.00	EACH
0080	06574	PAVE MARKING-THERMO CURV ARROW	8.00	EACH
0085	06575	PAVE MARKING-THERMO COMB ARROW	6.00	EACH
0090	06576	PAVE MARKING-THERMO ONLY	2.00	EACH
0095	10020NS	FUEL ADJUSTMENT	2,241.00	DOLL
0100	10030NS	ASPHALT ADJUSTMENT	5,630.00	DOLL
0105	20100ES842	PAVE MARK TEMP PAINT LINE ARROW	20.00	EACH
0110	23010EN	PAVE MARK TEMP PAINT STOP BAR-24 IN	390.00	LF
0115	23625EC	PAVE MARK THERMO-6 IN W CAT TRAXX	26.00	LF
0120	26228EC	ELECTRONIC DELIVERY MGMT SYSTEM - (KY 8 MP 006-008 EASTBOUND)	1.00	LS
0125	02569	DEMOBILIZATION	1.00	LS

# MATERIAL SUMMARY

**CONTRACT ID: 242137**

**059GR24P022 - FD05 & FE01**

**MP05900082402**

4TH STREET (KY 8 WESTBOUND) BEGIN AT PHILADELPHIA STREET EXTENDING WEST TO GARRARD STREET ASPHALT RESURFACING, A DISTANCE OF .75 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0130	00388	CL3 ASPH SURF 0.38B PG64-22	1,185.00	TON
0135	00356	ASPHALT MATERIAL FOR TACK	8.00	TON
0140	02562	TEMPORARY SIGNS	690.00	SQFT
0145	02650	MAINTAIN & CONTROL TRAFFIC - (KY 8 MP 006-008 WESTBOUND)	1.00	LS
0150	02671	PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH
0155	02676	MOBILIZATION FOR MILL & TEXT - (KY 8 MP 006-008 WESTBOUND)	1.00	LS
0160	02677	ASPHALT PAVE MILLING & TEXTURING	1,185.00	TON
0165	02775	ARROW PANEL	2.00	EACH
0170	03240	BASE FAILURE REPAIR	200.00	SQYD
0175	06511	PAVE STRIPING-TEMP PAINT-6 IN	4,500.00	LF
0180	06542	PAVE STRIPING-THERMO-6 IN W	8,072.00	LF
0185	06543	PAVE STRIPING-THERMO-6 IN Y	2,641.00	LF
0190	06565	PAVE MARKING-THERMO X-WALK-6 IN	2,500.00	LF
0195	06568	PAVE MARKING-THERMO STOP BAR-24IN	294.00	LF
0200	06573	PAVE MARKING-THERMO STR ARROW	4.00	EACH
0205	06574	PAVE MARKING-THERMO CURV ARROW	2.00	EACH
0210	06575	PAVE MARKING-THERMO COMB ARROW	2.00	EACH
0215	06576	PAVE MARKING-THERMO ONLY	1.00	EACH
0220	10020NS	FUEL ADJUSTMENT	1,845.00	DOLL
0225	10030NS	ASPHALT ADJUSTMENT	4,633.00	DOLL
0230	20100ES842	PAVE MARK TEMP PAINT LINE ARROW	8.00	EACH
0235	20782NS714	PAVE MARKING THERMO-BIKE	14.00	EACH
0240	22692NS714	PAVEMENT MARKING-THERMO LETTERS - (ONLY BUS BIKE)	11.00	EACH
0245	23010EN	PAVE MARK TEMP PAINT STOP BAR-24 IN	294.00	LF
0250	24386EC	PAVE MARKING THERMO-BIKE LANE ARROW	14.00	EACH
0255	24679ED	PAVE MARK THERMO CHEVRON	4,307.00	SQFT
0260	24683ED	PAVE MARKING-THERMO DOTTED LANE EXTEN	484.00	LF
0265	26228EC	ELECTRONIC DELIVERY MGMT SYSTEM - (KY 8 MP 006-008 WESTBOUND)	1.00	LS
0270	02569	DEMOBILIZATION	1.00	LS

# MATERIAL SUMMARY

**CONTRACT ID: 242137**

**059GR24P022 - FD05 & FE01**

**MP05900082403**

RIVER ROAD (KY 8) BEGIN AT THE BOONE/KENTON COUNTY LINE EXTENDING EAST TO 0.031 MILES EAST OF KY 1072 ASPHALT RESURFACING, A DISTANCE OF 3.97 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0275	00190	LEVELING & WEDGING PG64-22	118.00	TON
0280	00301	CL2 ASPH SURF 0.38D PG64-22	3,370.00	TON
0285	00356	ASPHALT MATERIAL FOR TACK	27.00	TON
0290	02562	TEMPORARY SIGNS	390.00	SQFT
0295	02650	MAINTAIN & CONTROL TRAFFIC - (KY 8 MP'S 000-004)	1.00	LS
0300	02676	MOBILIZATION FOR MILL & TEXT - (KY 8 MP'S 000-004)	1.00	LS
0305	02677	ASPHALT PAVE MILLING & TEXTURING	1.00	TON
0310	03240	BASE FAILURE REPAIR	125.00	SQYD
0315	06510	PAVE STRIPING-TEMP PAINT-4 IN	42,000.00	LF
0320	06515	PAVE STRIPING-PERM PAINT-6 IN	77,000.00	LF
0325	06565	PAVE MARKING-THERMO X-WALK-6 IN	610.00	LF
0330	06568	PAVE MARKING-THERMO STOP BAR-24IN	148.00	LF
0335	06573	PAVE MARKING-THERMO STR ARROW	2.00	EACH
0340	06574	PAVE MARKING-THERMO CURV ARROW	2.00	EACH
0345	06576	PAVE MARKING-THERMO ONLY	1.00	EACH
0350	10020NS	FUEL ADJUSTMENT	5,297.00	DOLL
0355	10030NS	ASPHALT ADJUSTMENT	13,304.00	DOLL
0360	20100ES842	PAVE MARK TEMP PAINT LINE ARROW	4.00	EACH
0365	23010EN	PAVE MARK TEMP PAINT STOP BAR-24 IN	148.00	LF
0370	26228EC	ELECTRONIC DELIVERY MGMT SYSTEM - (KY 8 MP'S 000-004)	1.00	LS
0375	02569	DEMOBILIZATION	1.00	LS

**CONTRACT ID: 242137**

**059GR24P022 - FD05 & FE01**

**MP05900082404**

FOURTH AND FIFTH STREETS (KY 8 EB & WB) BEGIN AT SPRING STREET EXTENDING EAST TO THE LICKING RIVER BRIDGE MAINTENANCE, A DISTANCE OF 1.45 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0380	02562	TEMPORARY SIGNS	910.00	SQFT
0385	02650	MAINTAIN & CONTROL TRAFFIC - (FE01)	1.00	LS
0390	06406	SBM ALUM SHEET SIGNS .080 IN	60.00	SQFT
0395	06410	STEEL POST TYPE 1	96.00	LF
0400	02569	DEMOBILIZATION	1.00	LS









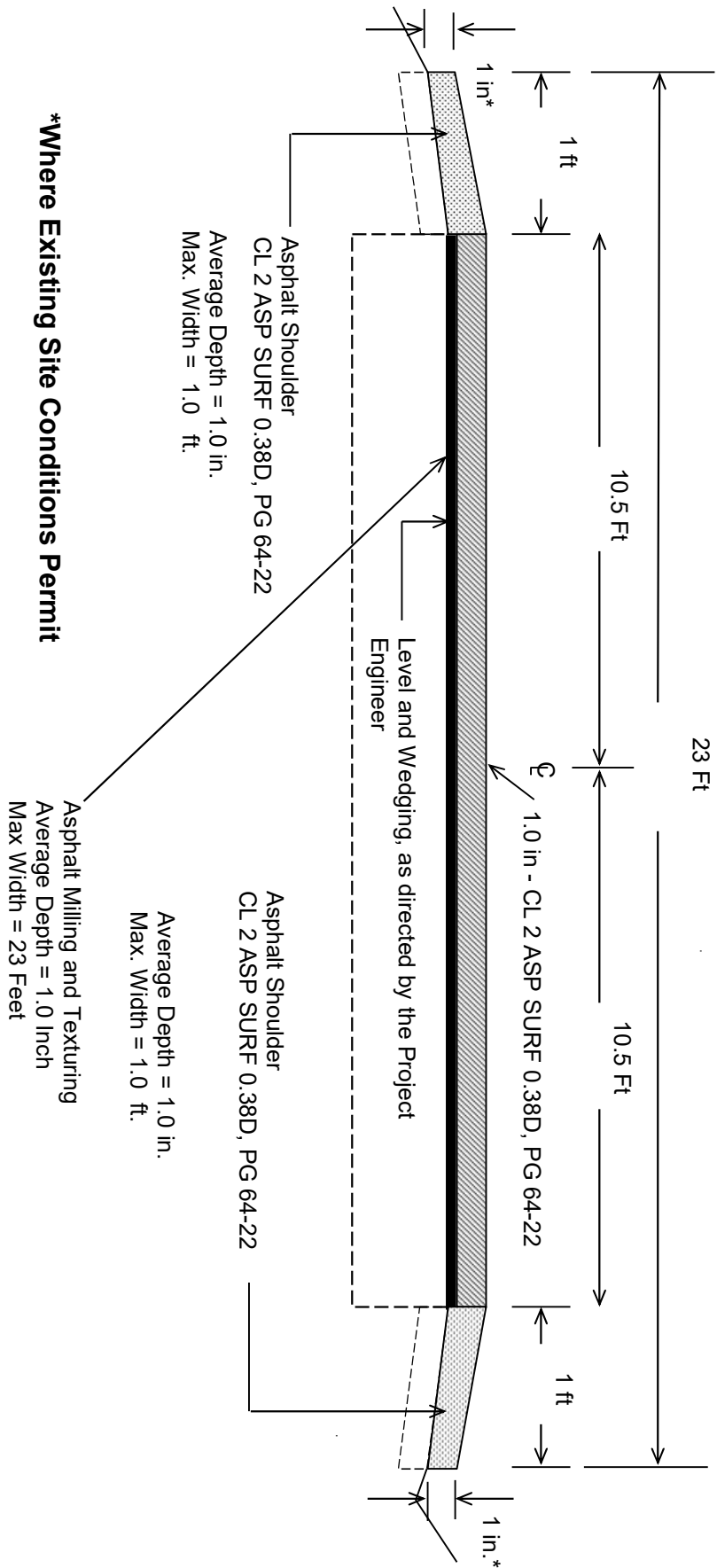
**Base Failure  
 Repair Summary  
 FD05 059 0008 006-008 EASTBOUND  
 5th Street/Highway Ave**

				Total	315	155
Milepoint	Lane	Length	Width	SQYD	Tons	
6.19	EAST	10	10	11.11	5.50	
6.20	BOTH	6	24	16.00	7.92	
6.22	WEST	6	4	2.67	1.32	
6.68	LEFT	8	4	3.56	1.76	
6.69	LEFT	25	12	33.33	16.50	
6.70	LEFT	30	12	40.00	19.80	
6.73	BOTH	40	14	62.22	30.80	
6.75	LEFT	15	12	20.00	9.90	
6.80	RIGHT	30	4	13.33	6.60	
6.85	LEFT	10	8	8.89	4.40	
6.86	LEFT	10	8	8.89	4.40	
6.98	LEFT	30	4	13.33	6.60	
6.99	RIGHT	6	6	4.00	1.98	
7.23	LEFT	30	4	13.33	6.60	
7.34	RIGHT	4	12	5.33	2.64	
7.35	RIGHT	4	12	5.33	2.64	
7.38	LEFT	8	8	7.11	3.52	
7.55	RIGHT	4	4	1.78	0.88	
MISC				40.00	19.80	

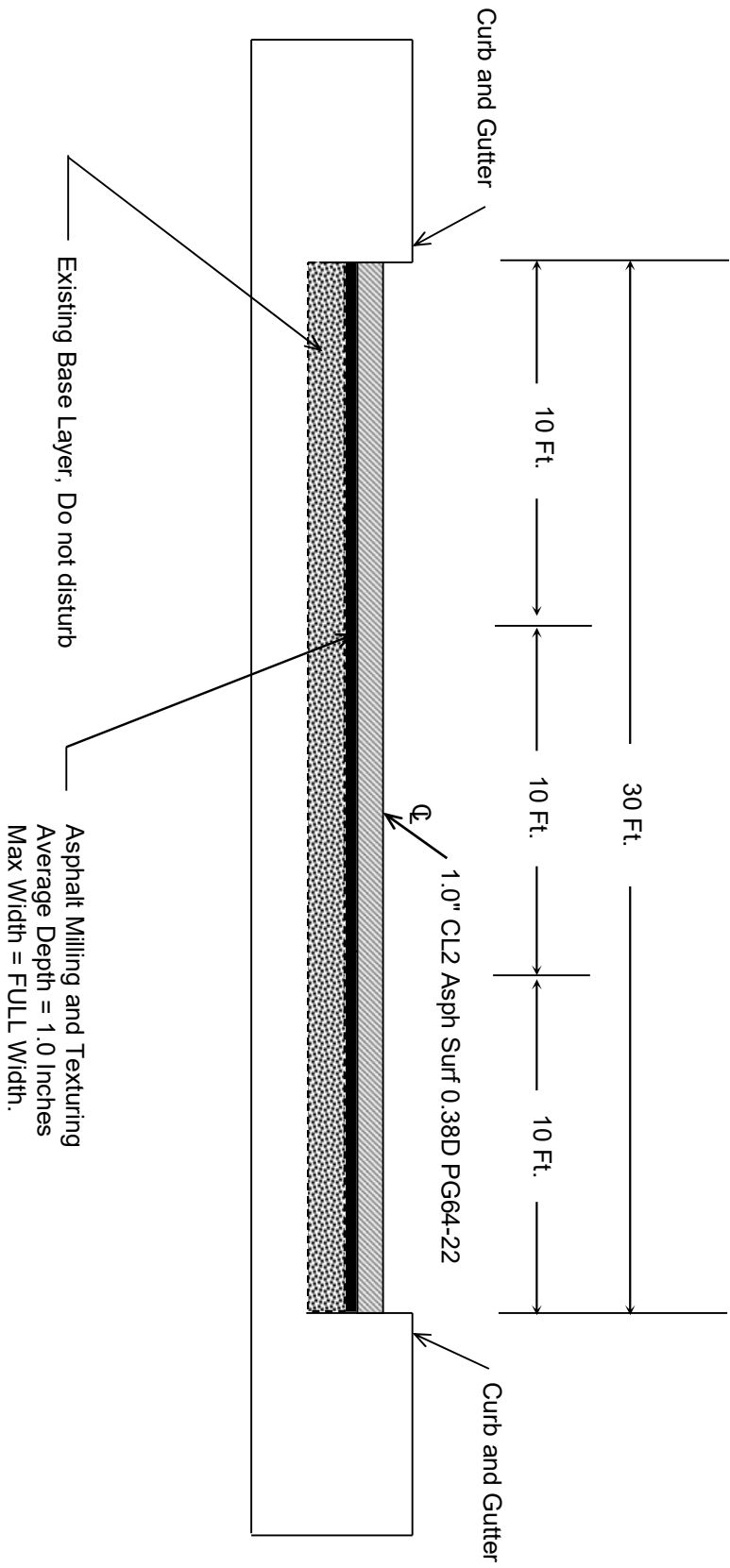




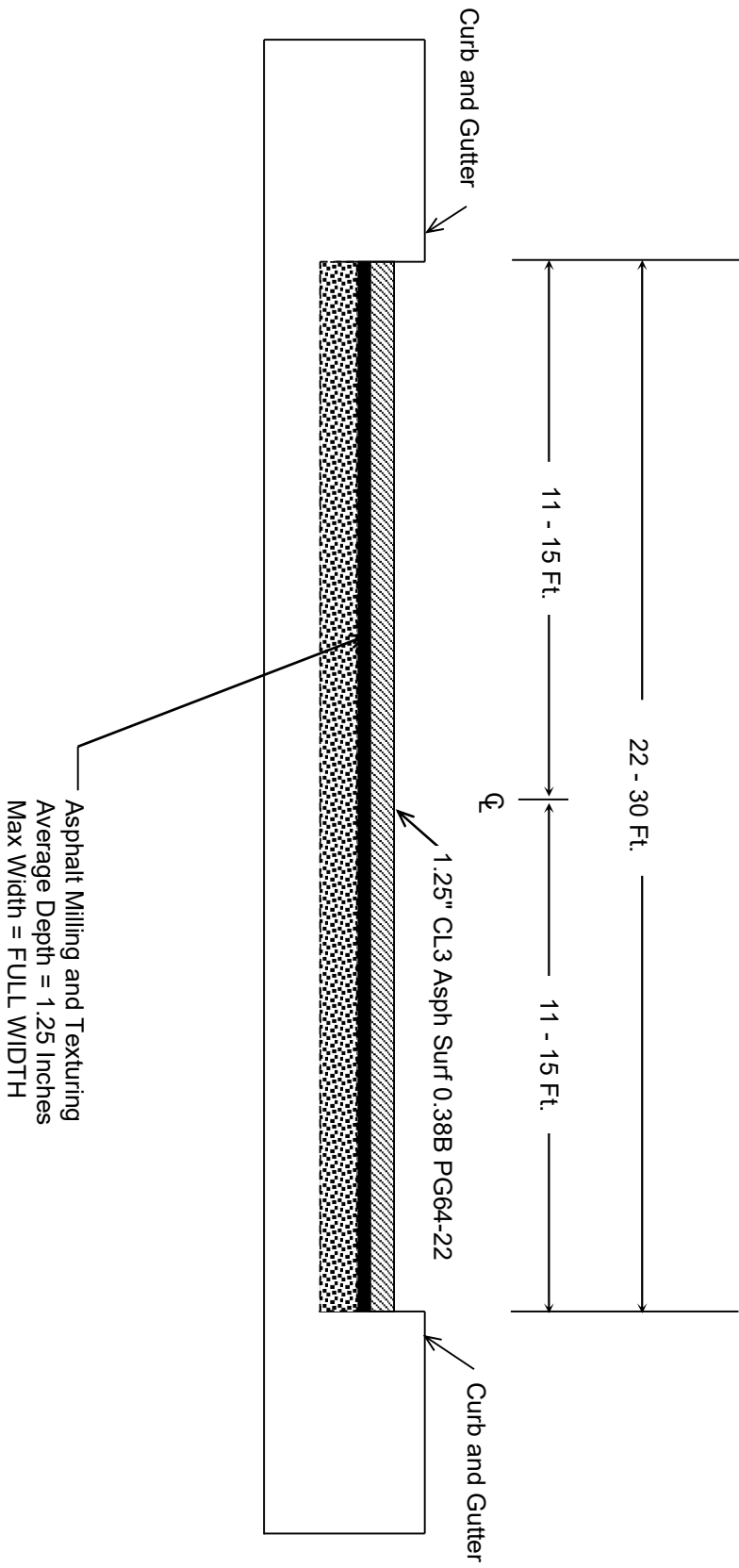
**KENTON COUNTY**  
**FD05 059 0008 000-004**  
**TYPICAL SECTION**  
**MP 0.000 - MP 3.350**



**KENTON COUNTY**  
**FD05 059 0008 000-004**  
**MP 3.350 - 3.970**



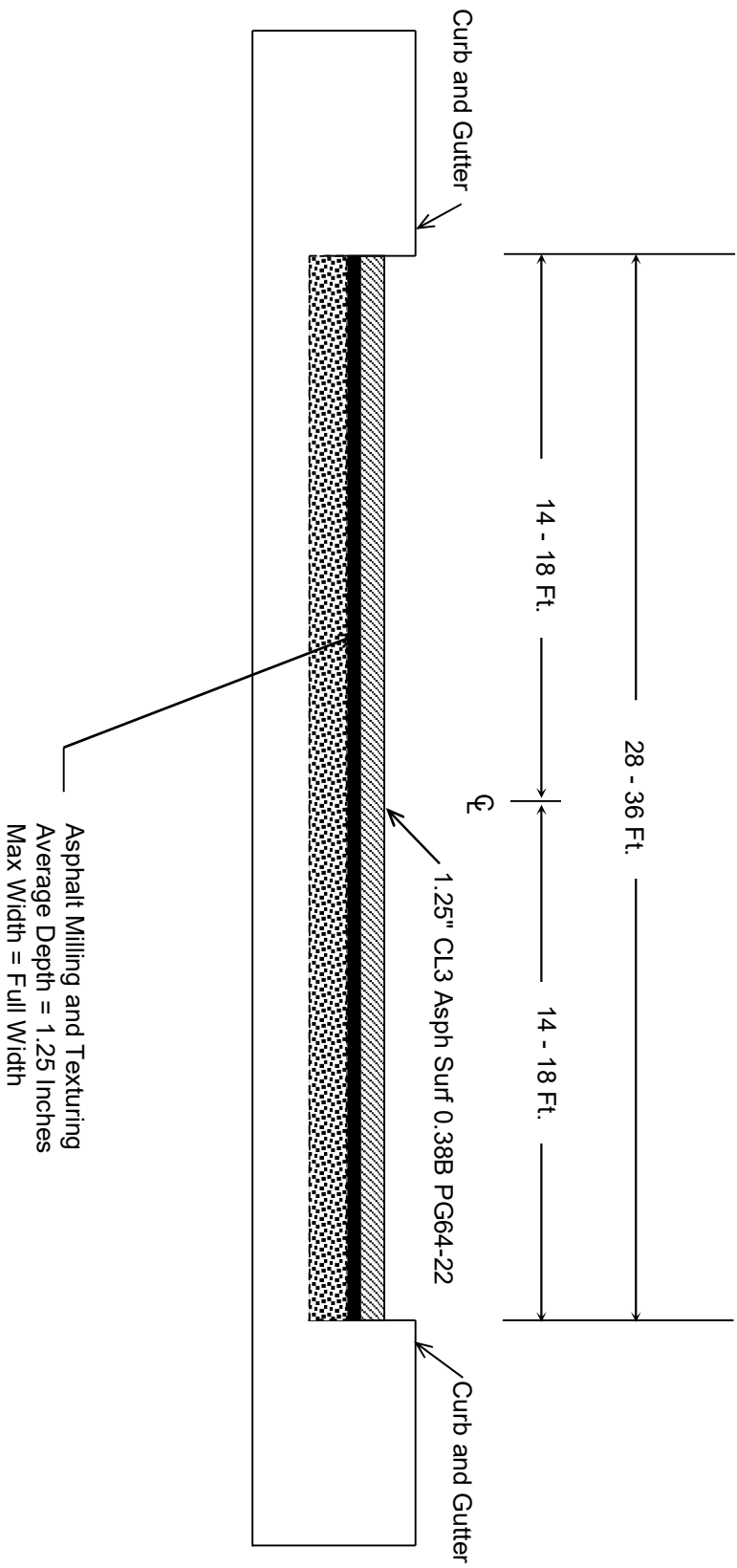
**Kenton County**  
**TYPICAL SECTION**  
**FD05 059 0008 006-008 EASTBOUND**  
**MP's 6.147 - 6.232 & 7.492 - 7.606**



1

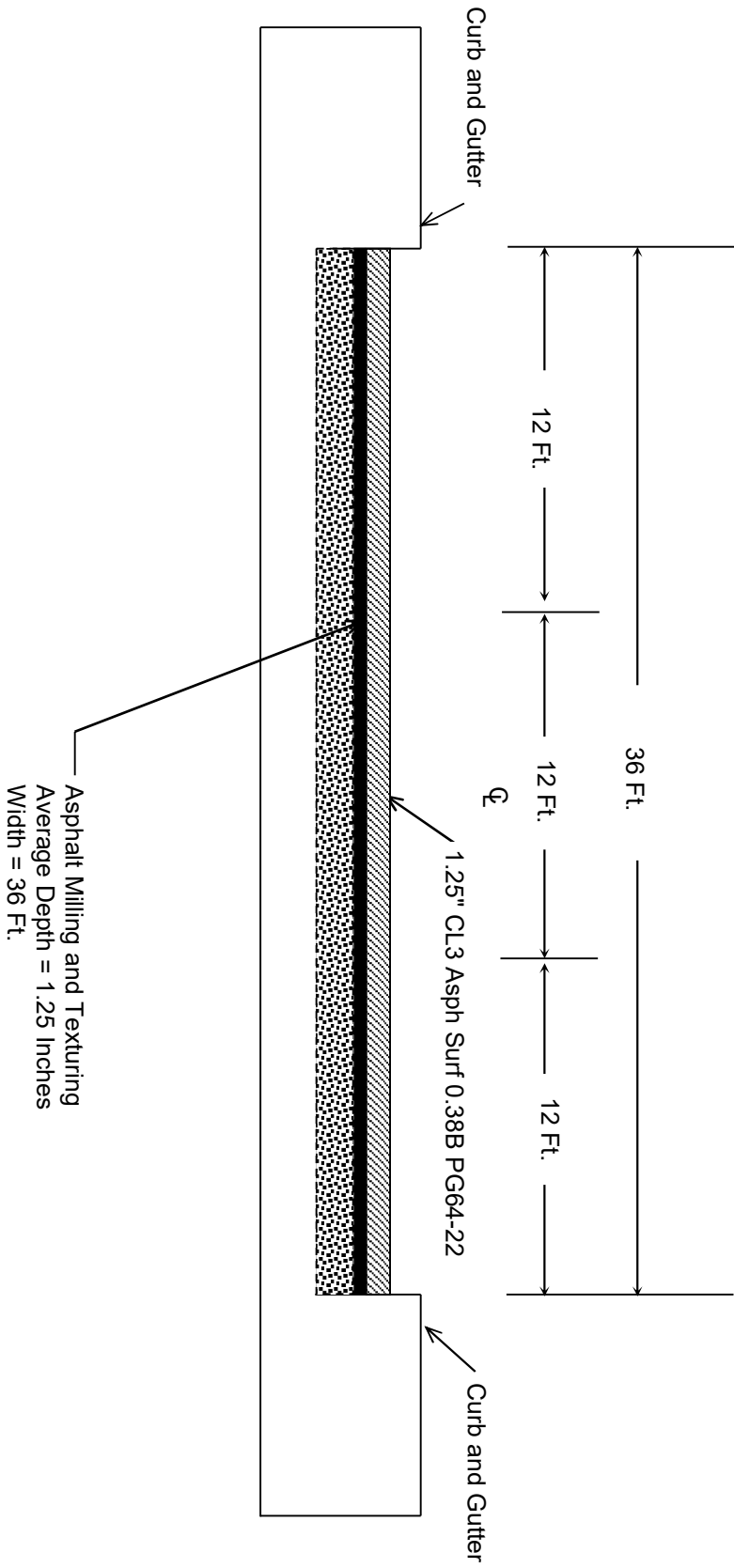
Typical Section 1

**Kenton County**  
**TYPICAL SECTION**  
**FD05 059 0008 006-008**  
**5th Street MP's 6.680 - 7.492**  
**EASTBOUND**

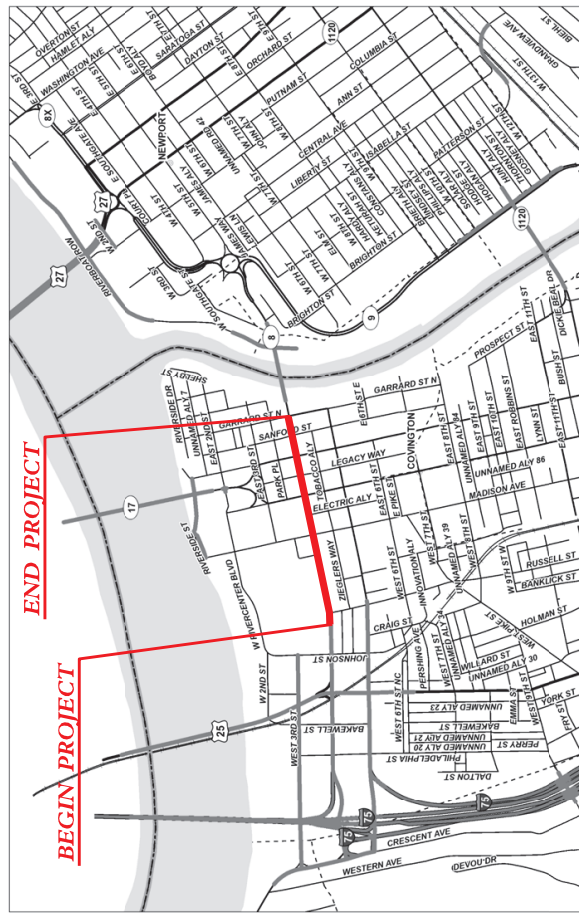
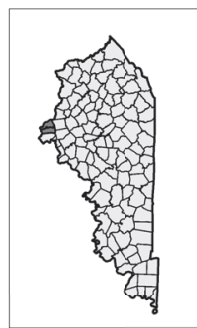




**Kenton County**  
**TYPICAL SECTION**  
**FD05 059 0008 006-008 WESTBOUND**  
**4th Street MP's 6.660 - 7.414**



# 4TH STREET RECONFIGURATION STRIPING PLANS



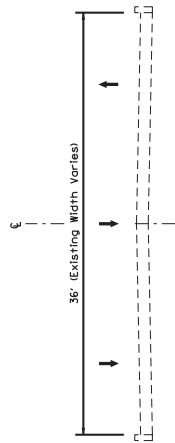
## LAYOUT MAP

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
RI	LAYOUT
RS	TYPICALS, SIGNING & QUANTITIES
RS-R7	STRIPING PLANS

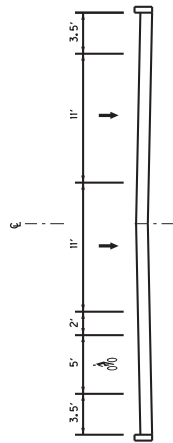
ITEM NO.	COUNTY OF KENTON
SHEET NO.	RI

**COMMONWEALTH OF KENTUCKY**  
 DEPARTMENT OF HIGHWAYS  
MicroStation V8.11.3.00 USER: cccorral

FILE NAME: K220405-2022 SW PLANNING/CYG-4TH ST COVING/STRIPING PLANS/LAYOUT.DGN



EXISTING NORMAL SECTION



PROPOSED NORMAL SECTION



R3-17  
24"x18"

9 TOTAL= 27 SO. FT.



R3-17  
24"x18"

1 TOTAL= 3 SO. FT.



R3-17  
24"x18"

1 TOTAL= 3 SO. FT.



R7-99  
12"x18"

11 TOTAL= 16.5 SO. FT.



R3-17GP  
24"x8"

1 TOTAL= 1.3 SO. FT.



R3-17BP  
24"x8"

1 TOTAL= 1.3 SO. FT.

R4-4 MODIFIED  
36"x30"

1 TOTAL= 7.5 SO. FT.



BID ITEM NO.	ITEM DESCRIPTION	PROJECT TOTALS	
		UNITS	QUANTITY
6410	STEEL POST TYPE I	LF	96.0
6406	SBW ALUM. SHEET SIGNS - 080 IN	S.F.	59.6
6541	PAVE STRIPING-THERMO-6 IN Y	LF	2641
6542	PAVE STRIPING-THERMO-6 IN W	LF	7215
6566	PAVE STRIPING-THERMO X-WALK-6 IN	LF	1302
6568	PAVE MARKING-THERMO STOP BAR-24IN	LF	149
24386EC	PAVE MARKING-THERMO-BIKE LANE ARROW	E.A.	14
24683ED	PAVE MARK-THERMO DOTTED LANE EXTEN	LF	454
24679ED	PAVE MARK THERMO CHEVRON	S.F.	4307
20782NS714	PAVE MARKING-THERMO-BIKE	E.A.	15
22692NS714	PAVEMENT MARKING - THERMO LETTERS	E.A.	11

Ⓢ BIKE, BUS, ONLY

HORIZONTAL SCALE: 1"=20'



DRAWING TITLE: 4th STREET STRIPING TYPICAL, SIGNING & SUMMARY

COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS



ITEM NO. COUNTY OF KENTON  
SHEET NO. R2

FILE NAME: K22645-2022 SW PLANNING/6076-4TH ST COVING/STRIPING/PLANS/TYPICAL\_SIGNING\_QUANTITIES.DGN

USER: cccrall

MicroStation v8.11.3.00

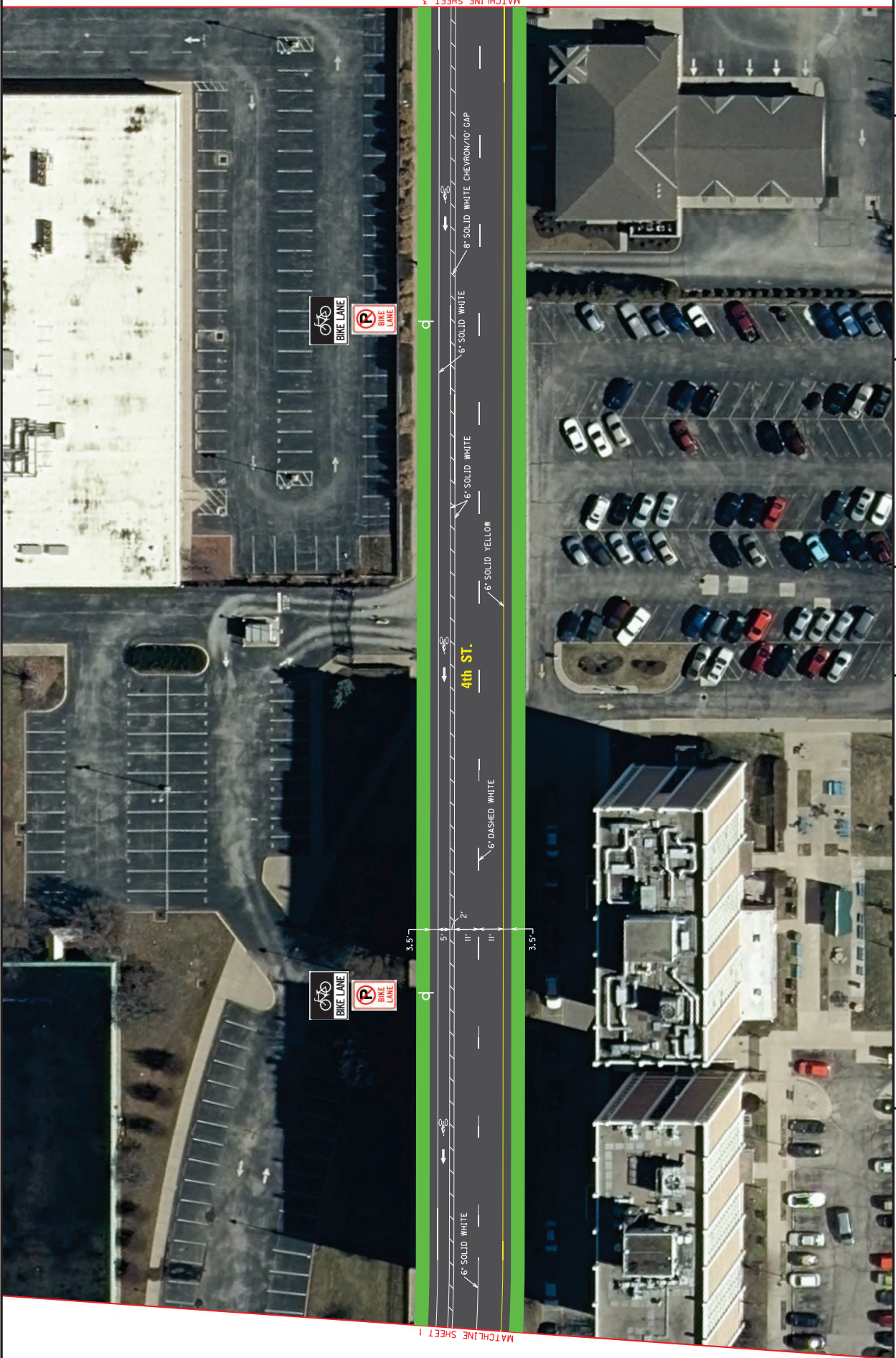


ITEM NO. COUNTY OF KENTON  
SHEET NO. R3

HORIZONTAL SCALE: 1"=20'  
SCALE: 1"=20'  
80'  
40'  
20'  
0'

FILE NAME: K220405-2022 SW PLANNING/0505-4TH ST COVING/STRIPING PLANS/PLAND.DGN  
DRAWING TITLE: 4th STREET STRIPING PLAN  
COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS  
KENTUCKY  
USER: dcevalle  
MicroStation v8.11.3.20





ITEM NO. COUNTY OF KENTON  
SHEET NO. 80

FILE NAME: K220405-2022 SW PLANNING/05CVG-4TH ST COVING/STRIPING PLANS/PLANDZ.DGN

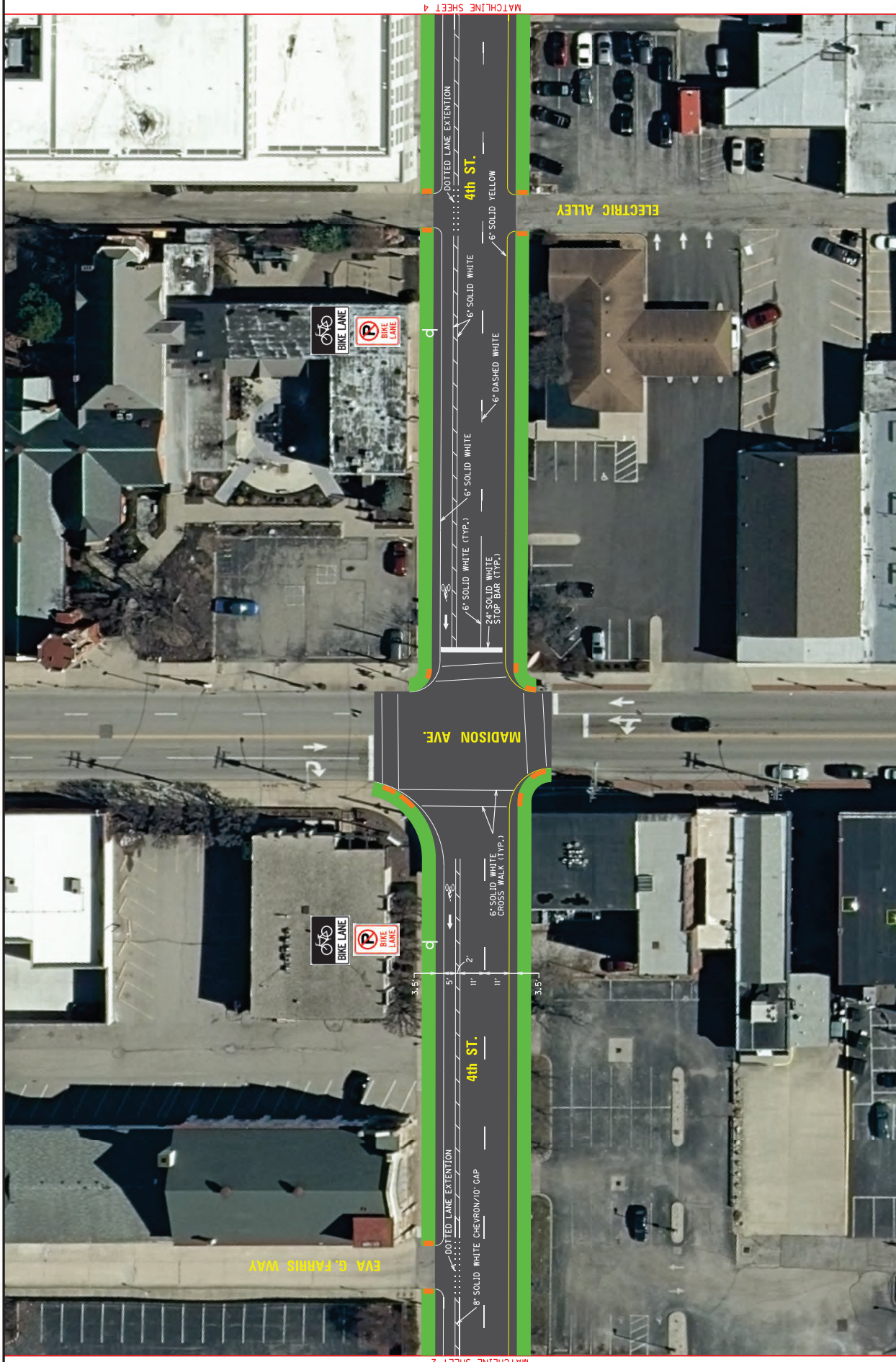


DRAWING TITLE: 4th STREET STRIPING PLAN

COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS

MicroStation v8.11.3.00 USER: cecorall





	COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS	DRAWING TITLE: 4th STREET STRIPIN PLAN	FILE NAME: K222405-2022 SW PLANNING/059G-4TH ST COVING/STRIPING PLANS/059G.DWG	HORIZONTAL SCALE SCALE: 1"=20'		ITEM NO.	COUNTY OF KENTON
	SHEET NO.					RS	

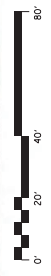




MATCHLINE SHEET 5  
GREENUP ST.

MATCHLINE SHEET 3

ITEM NO.  
SHEET NO.  
COUNTY OF  
KENTON  
RE



HORIZONTAL SCALE  
SCALE: 1"=20'

DRAWING TITLE: 4th STREET STRIPING PLAN

COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS

USER: cecorall

FILE NAME: K220405-2022 SW PLANNING/059GR-4TH ST COVING/STRIPING PLANS/PLANDWG.DGN

MicroStation v8.11.3.00





MATCHLINE SHEET 4

ITEM NO. COUNTY OF KENTON  
SHEET NO. R7



HORIZONTAL SCALE  
SCALE: 1"=20'

DRAWING TITLE: 4th STREET STRIPING PLAN

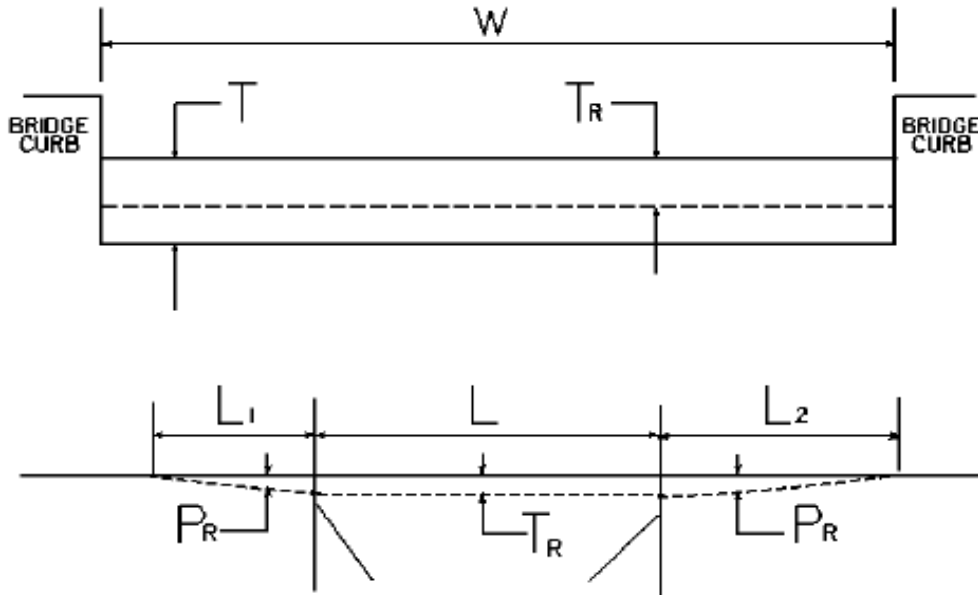
COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS

USER: dcearrill  
MicroStation V8.11.3.00

FILE NAME: K222405-2022 SW PLANNING/05CVG-4TH ST COVING/STRIPING PLANS/PLANS.DGN



### BRIDGE DETAIL FOR PAVING PROJECT



W = bridge width curb to curb  
 T = thickness of existing asphalt overlay  
 L = length of bridge  
 L<sub>1</sub> & L<sub>2</sub> = length of approach pavement to be removed  
 T<sub>R</sub> = thickness to be removed and replaced on bridge  
 P<sub>R</sub> = thickness to be removed and replaced on pavement  
 Note: L<sub>1</sub> & L<sub>2</sub> lengths shall be determined by using a transition rate of 100 ft/in of thickness

Route	Bridge No.	MP	W (ft)	T (in)	L <sub>1</sub> (ft)	L <sub>2</sub> (ft)	T <sub>R</sub> (in)	L (ft)	P <sub>R</sub> (in)
KY 8	B00039N	6.528	14.00	0.00	0.00	0.00	0.00	62.00	1.25
KY 8	B00037N	7.634	48.00	0.00	0.00	0.00	0.00	1002.00	1.25

**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>

### **SPECIAL NOTE FOR PORTABLE CHANGEABLE MESSAGE SIGNS**

This Special Note will apply when indicated on the plans or in the proposal.

**1.0 DESCRIPTION.** Furnish, install, operate, and maintain variable message signs at the locations shown on the plans or designated by the Engineer. Remove and retain possession of variable message signs when they are no longer needed on the project.

### **2.0 MATERIALS.**

**2.1 General.** Use LED Variable Message Signs Class I, II, or III, as appropriate, from the Department's List of Approved Materials.

Unclassified signs may be submitted for approval by the Engineer. The Engineer may require a daytime and nighttime demonstration. The Engineer will make a final decision within 30 days after all required information is received.

### **2.2 Sign and Controls.** All signs must:

- 1) Provide 3-line messages with each line being 8 characters long and at least 18 inches tall. Each character comprises 35 pixels.
- 2) Provide at least 40 preprogrammed messages available for use at any time. Provide for quick and easy change of the displayed message; editing of the message; and additions of new messages.
- 3) Provide a controller consisting of:
  - a) Keyboard or keypad.
  - b) Readout that mimics the actual sign display. (When LCD or LCD type readout is used, include backlighting and heating or otherwise arrange for viewing in cold temperatures.)
  - c) Non-volatile memory or suitable memory with battery backup for storing pre-programmed messages.
  - d) Logic circuitry to control the sequence of messages and flash rate.
- 4) Provide a serial interface that is capable of supporting complete remote control ability through land line and cellular telephone operation. Include communication software capable of immediately updating the message, providing complete sign status, and allowing message library queries and updates.
- 5) Allow a single person easily to raise the sign to a satisfactory height above the pavement during use, and lower the sign during travel.
- 6) Be Highway Orange on all exterior surfaces of the trailer, supports, and controller cabinet.
- 7) Provide operation in ambient temperatures from -30 to + 120 degrees Fahrenheit during snow, rain and other inclement weather.
- 8) Provide the driver board as part of a module. All modules are interchangeable, and have plug and socket arrangements for disconnection and reconnection. Printed circuit boards associated with driver boards have a conformable coating to protect against moisture.
- 9) Provide a sign case sealed against rain, snow, dust, insects, etc. The lens is UV stabilized clear plastic (polycarbonate, acrylic, or other approved material) angled to prevent glare.
- 10) Provide a flat black UV protected coating on the sign hardware, character PCB, and appropriate lens areas.
- 11) Provide a photocell control to provide automatic dimming.

- 12) Allow an on-off flashing sequence at an adjustable rate.
- 13) Provide a sight to aim the message.
- 14) Provide a LED display color of approximately 590 nm amber.
- 15) Provide a controller that is password protected.
- 16) Provide a security device that prevents unauthorized individuals from accessing the controller.
- 17) Provide the following 3-line messages preprogrammed and available for use when the sign unit begins operation:

/KEEP/RIGHT/=>=>=>/	/MIN/SPEED/**MPH/
/KEEP/LEFT/<<<</	/ICY/BRIDGE/AHEAD/ /ONE
/LOOSE/GRAVEL/AHEAD/	LANE/BRIDGE/AHEAD/
/RD WORK/NEXT/**MILES/	/ROUGH/ROAD/AHEAD/
/TWO WAY/TRAFFIC/AHEAD/	/MERGING/TRAFFIC/AHEAD/
/PAINT/CREW/AHEAD/	/NEXT/***/MILES/
/REDUCE/SPEED/**MPH/	/HEAVY/TRAFFIC/AHEAD/
/BRIDGE/WORK/***0 FT/	/SPEED/LIMIT/**MPH/
/MAX/SPEED/**MPH/	/BUMP/AHEAD/
/SURVEY/PARTY/AHEAD/	/TWO/WAY/TRAFFIC/

\*Insert numerals as directed by the Engineer.  
Add other messages during the project when required by the Engineer.

**2.3 Power.**

- 1) Design solar panels to yield 10 percent or greater additional charge than sign consumption. Provide direct wiring for operation of the sign or arrow board from an external power source to provide energy backup for 21 days without sunlight and an on-board system charger with the ability to recharge completely discharged batteries in 24 hours.

**3.0 CONSTRUCTION.** Furnish and operate the variable message signs as designated on the plans or by the Engineer. Ensure the bottom of the message panel is a minimum of 7 feet above the roadway in urban areas and 5 feet above in rural areas when operating. Use Class I, II, or III signs on roads with a speed limit less than 55 mph. Use Class I or II signs on roads with speed limits 55 mph or greater.

Maintain the sign in proper working order, including repair of any damage done by others, until completion of the project. When the sign becomes inoperative, immediately repair or replace the sign. Repetitive problems with the same unit will be cause for rejection and replacement.

Use only project related messages and messages directed by the Engineer, unnecessary messages lessen the impact of the sign. Ensure the message is displayed in either one or 2 phases with each phase having no more than 3 lines of text. When no message is needed, but it is necessary to know if the sign is operable, flash only a pixel.

When the sign is not needed, move it outside the clear zone or where the Engineer directs. Variable Message Signs are the property of the Contractor and shall be removed from the project when no longer needed. The Department will not assume ownership of these signs.

**4.0 MEASUREMENT.** The final quantity of Variable Message Sign will be

11

the actual number of individual signs acceptably furnished and operated during the project. The Department will not measure signs replaced due to damage or rejection.

**5.0 PAYMENT.** The Department will pay for the Variable Message Signs at the unit price each. The Department will not pay for signs replaced due to damage or rejection. Payment is full compensation for furnishing all materials, labor, equipment, and service necessary to, operate, move, repair, and maintain or replace the variable message signs. 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>
02671	Portable Changeable Message Sign	Each

Effective June 15, 2012

# 2020 KENTUCKY STANDARD DRAWINGS

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CURVE WIDENING AND SUPERELEVATION TRANSITIONS .....RGS-001-07  
SUPERELEVATION FOR MULTILANE PAVEMENT .....RGS-002-06  
MISCELLANEOUS STANDARDS .....RGX-001-06  
APPROACHES, ENTRANCES, AND MAIL BOX TURNOUT .....RPM-110-07  
LANE CLOSURE TWO-LANE HIGHWAY .....TTC-100-05  
LANE CLOSURE MULTI-LANE HIGHWAY CASE I.....TTC-115-04  
LANE CLOSURE MULTI-LANE HIGHWAY CASE II .....TTC-120-04  
SHOULDER CLOSURE .....TTC-135-03  
PAVEMENT CONDITION WARNING SIGNS.....TTD-125-02  
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  
SHOULDER & EDGELINE RUMBLE STRIPS PLACEMENT DETAILS .....TPR-115  
EDGELINE RUMBLE STRIP DETAILS TWO LANE ROADWAYS .....TPR-120  
CURB AND GUTTER, CURBS AND VALLEY GUTTER .....RPM-100-11

**PART III**

**EMPLOYMENT, WAGE AND RECORD REQUIREMENTS**



**TRANSPORTATION CABINET  
DEPARTMENT OF HIGHWAYS**

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

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

**I. APPLICATION**

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

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

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

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

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

Revised: January 25, 2017

**II. NONDISCRIMINATION OF EMPLOYEES**

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

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

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

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

## EXECUTIVE BRANCH CODE OF ETHICS

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

KRS 11A.040 (7) provides:

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

KRS 11A.040 (9) states:

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

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

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

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

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

In case of doubt, the law permits you to request an advisory opinion from the Executive Branch Ethics Commission, 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 1½ times your regular rate of pay for all hours worked over 40 in a workweek.

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

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

**No more than**

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

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

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

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

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

**ADDITIONAL INFORMATION**

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

For additional information:



# 1-866-4-USWAGE

(1-866-487-9243)

TTY: 1-877-889-5627



# WWW.WAGEHOUR.DOL.GOV

**PART IV**  
**INSURANCE**

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

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

**PROPOSAL BID ITEMS**

242137

Page 1 of 2

Report Date 3/21/24

**Section: 0001 - PAVING**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00190		LEVELING & WEDGING PG64-22	118.00	TON		\$	
0020	00301		CL2 ASPH SURF 0.38D PG64-22	3,370.00	TON		\$	
0030	00356		ASPHALT MATERIAL FOR TACK	44.00	TON		\$	
0040	00388		CL3 ASPH SURF 0.38B PG64-22	2,625.00	TON		\$	
0050	02562		TEMPORARY SIGNS	1,990.00	SQFT		\$	
0060	02650		MAINTAIN & CONTROL TRAFFIC (KY 8 MP 006-008 EASTBOUND)	1.00	LS		\$	
0070	02650		MAINTAIN & CONTROL TRAFFIC (KY 8 MP 006-008 WESTBOUND)	1.00	LS		\$	
0080	02650		MAINTAIN & CONTROL TRAFFIC (KY 8 MP'S 000-004)	1.00	LS		\$	
0090	02671		PORTABLE CHANGEABLE MESSAGE SIGN	4.00	EACH		\$	
0100	02676		MOBILIZATION FOR MILL & TEXT (KY 8 MP 006-008 EASTBOUND)	1.00	LS		\$	
0110	02676		MOBILIZATION FOR MILL & TEXT (KY 8 MP 006-008 WESTBOUND)	1.00	LS		\$	
0120	02676		MOBILIZATION FOR MILL & TEXT (KY 8 MP'S 000-004)	1.00	LS		\$	
0130	02677		ASPHALT PAVE MILLING & TEXTURING	2,626.00	TON		\$	
0140	02775		ARROW PANEL	4.00	EACH		\$	
0150	03240		BASE FAILURE REPAIR	640.00	SQYD		\$	
0160	06510		PAVE STRIPING-TEMP PAINT-4 IN	49,668.00	LF		\$	
0170	06511		PAVE STRIPING-TEMP PAINT-6 IN	4,500.00	LF		\$	
0180	06515		PAVE STRIPING-PERM PAINT-6 IN	77,000.00	LF		\$	
0190	06542		PAVE STRIPING-THERMO-6 IN W	13,272.00	LF		\$	
0200	06543		PAVE STRIPING-THERMO-6 IN Y	5,641.00	LF		\$	
0210	06565		PAVE MARKING-THERMO X-WALK-6 IN	5,578.00	LF		\$	
0220	06568		PAVE MARKING-THERMO STOP BAR-24IN	832.00	LF		\$	
0230	06573		PAVE MARKING-THERMO STR ARROW	12.00	EACH		\$	
0240	06574		PAVE MARKING-THERMO CURV ARROW	12.00	EACH		\$	
0250	06575		PAVE MARKING-THERMO COMB ARROW	8.00	EACH		\$	
0260	06576		PAVE MARKING-THERMO ONLY	4.00	EACH		\$	
0270	10020NS		FUEL ADJUSTMENT	9,383.00	DOLL	\$1.00	\$	\$9,383.00
0280	10030NS		ASPHALT ADJUSTMENT	23,567.00	DOLL	\$1.00	\$	\$23,567.00
0290	20100ES842		PAVE MARK TEMP PAINT LINE ARROW	32.00	EACH		\$	
0300	20782NS714		PAVE MARKING THERMO-BIKE	14.00	EACH		\$	
0310	22692NS714		PAVEMENT MARKING-THERMO LETTERS (ONLY BUS BIKE)	11.00	EACH		\$	
0320	23010EN		PAVE MARK TEMP PAINT STOP BAR-24 IN	832.00	LF		\$	
0330	23625EC		PAVE MARK THERMO-6 IN W CAT TRAXX	26.00	LF		\$	
0340	24386EC		PAVE MARKING THERMO-BIKE LANE ARROW	14.00	EACH		\$	
0350	24679ED		PAVE MARK THERMO CHEVRON	4,307.00	SQFT		\$	
0360	24683ED		PAVE MARKING-THERMO DOTTED LANE EXTEN	484.00	LF		\$	
0370	26228EC		ELECTRONIC DELIVERY MGMT SYSTEM (KY 8 MP 006-008 EASTBOUND)	1.00	LS		\$	
0380	26228EC		ELECTRONIC DELIVERY MGMT SYSTEM (KY 8 MP 006-008 WESTBOUND)	1.00	LS		\$	

## PROPOSAL BID ITEMS

242137

Page 2 of 2

Report Date 3/21/24

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0390	26228EC		ELECTRONIC DELIVERY MGMT SYSTEM (KY 8 MP'S 000-004)	1.00	LS		\$	

### Section: 0002 - SIGNING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0400	02562		TEMPORARY SIGNS	910.00	SQFT		\$	
0410	02650		MAINTAIN & CONTROL TRAFFIC (FE01)	1.00	LS		\$	
0420	06406		SBM ALUM SHEET SIGNS .080 IN	60.00	SQFT		\$	
0430	06410		STEEL POST TYPE 1	96.00	LF		\$	

### Section: 0003 - DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0440	02569		DEMOBILIZATION	1.00	LS		\$	