

CALL NO. 409
CONTRACT ID. 231109
JEFFERSON COUNTY
FED/STATE PROJECT NUMBER 056GR23D009
DESCRIPTION BILLTOWN ROAD (KY 1819)
WORK TYPE ASPHALT REHAB WITH GRADE & DRAIN
PRIMARY COMPLETION DATE 6/30/2025

LETTING DATE: November 16,2023

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN STANDARD TIME November 16,2023. Bids will be publicly announced at 10:00 AM EASTERN STANDARD TIME.

PLANS AVAILABLE FOR THIS PROJECT.

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

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ADMINISTRATIVE DISTRICT - 05

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056GR23D009

COUNTY - JEFFERSON

PCN - DE05618192309 FD04 056 1819 006-008

BILLTOWN ROAD (KY 1819) EASUM RD. - MARY DELL LANE BILLTOWN ROAD IMPROVEMENTS (KY1819), A DISTANCE OF 0.52 MILES.ASPHALT SURFACE WITH GRADE & DRAIN SYP NO. 05-08203.00. GEOGRAPHIC COORDINATES LATITUDE 0:00:00.00 LONGITUDE 0:00:00.00 ADT 19,000

PCN - DE05618192310 FD04 056 1819 007-008

BILLTOWN ROAD (KY 1819) FAIRGROUNDS RD. SECTION BILLTOWN ROAD IMPROVEMENTS, A DISTANCE OF 0.27 MILES.ASPHALT SURFACE WITH GRADE & DRAIN SYP NO. 05-08203.00.

GEOGRAPHIC COORDINATES LATITUDE 38:10:19.00 LONGITUDE 85:34:22.00

ADT 19.000

PCN - DE05618192311 FD04 056 1819 007-009

BILLTOWN ROAD (KY 1819) COLONNADES PLACE SECTION BILLTOWN ROAD, A DISTANCE OF 0.29 MILES.ASPHALT SURFACE WITH GRADE & DRAIN SYP NO. 05-08203.00.

GEOGRAPHIC COORDINATES LATITUDE 38:10:36.00 LONGITUDE 85:34:22.00

ADT 19.000

COMPLETION DATE(S):

COMPLETED BY 06/30/2025 APPLIES TO 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) to prepare a bid packet for submission to the Department. The bidder must submit electronically using Bid Express.

JOINT VENTURE BIDDING

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

UNDERGROUND FACILITY DAMAGE PROTECTION

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

REGISTRATION WITH THE SECRETARY OF STATE BY A FOREIGN ENTITY

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

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

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

SPECIAL NOTE FOR PROJECT QUESTIONS DURING ADVERTISEMENT

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

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

The questions and answers will be posted for each Letting under the heading "Questions & Answers" on the Construction Procurement website (www.transportation.ky.gov/contract). 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 <u>KRS 45A.607</u>, 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 <u>KRS 11A.236</u> 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 <u>KRS 45A.328</u>, they have not procured an original, subsequent, or similar contract while employing an executive agency lobbyist who was convicted of a crime related to the original, subsequent, or similar contract within five (5) years of the conviction of the lobbyist.

October 4, 2023

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

10/26/2023

1.0 BUY AMERICA REQUIREMENT.

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

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

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

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

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

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

Use foreign materials only under the following conditions:

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

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

2.0 - BUILD AMERICA, BUY AMERICA (BABA)

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

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

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

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

10/26/2023

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

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

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

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

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

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

<u>Buy America - Construction Program Guide - Contract Administration - Construction - Federal Highway</u> Administration (dot.gov)

October 26, 2023 Letting

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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

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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.

ASPHALT PAVEMENT RIDE QUALITY

Pavement Rideability Requirements shall apply on this project in accordance with Section 410 of the current Standard Specifications.

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

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.

SUPPLEMENTARY SPECIFICATIONS BICKNELL AVENUE AREA WATER MAIN REPLACEMENT PROJECT LWC PROJECT 15584

BID NO. KYTC

PROJECT LIMITS

Limits of the referenced project includes 3 sections of Billtown Rd. located in Jeffersontown area, between Easum Rd. and Mary Dell Ln, at intersection at Fairground Rd and between Shady Acres Ln and Colonnades Place, See Construction Plans for exact locations.

PROJECT SUMMARY

The referenced project consists of the supply and install a **total of 4,505 LF of water main**, including <u>supply and install</u> of <u>2,630+/-</u> linear feet of 16-inch Pressure Class 350 ductile iron water main, <u>1,380+/-</u> linear feet of 12-inch Pressure Class 350 ductile iron water main, <u>120+/-</u> linear feet of 8-inch Pressure Class 350 ductile iron water main, <u>120+/-</u> linear feet of 8-inch DR-18 C900 PVC, <u>175+/-</u> linear feet of 6-inch Pressure Class 350 ductile iron water main, using traditional trench installation techniques. Also included with the project is the supply and installation of <u>5</u> fire hydrants, and the supply and transfer, renewal, relocation, or discontinue of <u>38+/-</u> customer services. Fire hydrant removal, main cut and plugs, and restoration on and along Project Limits as stated above shall be included. Contractor shall supply and install all materials required for the completion of this project.

SALES TAX EXEMPTION

On March 24, 2023, Governor Beshear signed House Bill (HB) 360 into law, introducing a new sales tax exemption for specific water and/or sewer utilities. HB 360 establishes an exemption for materials purchased by a contractor for installation in a water or sewer project for public utilities outlined in Page 58 and 59 of the bill. The sales tax exemption is retroactive and takes effect from January 1, 2023.

A full copy of the HB 360 can be found at: https://apps.legislature.ky.gov/recorddocuments/bill/23RS/hb360/bill.pdf

Louisville Water is a quasi-municipal corporation covered under HB 360, making all materials purchased for this project tax-exempt. The bid price for this project shall include all applicable governmental fees and taxes except Kentucky sales and usage tax. Sales tax for materials purchased for this project shall be exempt from this bid. Louisville Water will issue a letter of validation for tax exemption to the successful bidder to be presented to venders when purchasing all materials for this project.

SCOPE OF WORK

- 1. Supply and install <u>2,630+/-</u> linear feet of 16-inch Pressure Class 350 ductile iron water main, and <u>190+/-</u> linear feet of 24-inch steel casing pipe along <u>Billtown Rd.</u>
- 2. Supply and install <u>1,380+/-</u> linear feet of 12-inch Pressure Class 350 ductile iron water main, and <u>75+/-</u> linear feet of 24-inch steel casing pipe along <u>Billtown Rd.</u>
- 3. Supply and install <u>200+/-</u> linear feet of 8-inch Pressure Class 350 ductile iron water main, and <u>95+/-</u> linear feet of 16-inch steel casing pipe along <u>Billtown Rd.</u>
- 4. Supply and install <u>120+/-</u> linear feet of 8-inch DR-18 C900 PVC water main along <u>Billtown Rd.</u>
- 5. Supply and install <u>175+/-</u> linear feet of 6-inch Pressure Class 350 ductile iron water main, and <u>85+/-</u> linear feet of 16-inch steel casing pipe along <u>Billtown Rd.</u>
- 6. Remove <u>5+/-</u> fire hydrants. Supply and install <u>5+/-</u> fire hydrants.
- 7. Transfer, renew, relocate, and/or discontinue **39+/-** customer services.
- 8. All street asphalt pavement restoration is excluded in this scope of work. Immediately after installing pipe in pavement, the Contractor shall compact trench and bring concrete cap flush to surface. (See Section 67 of this Specification).
- 9. All sidewalk and driveway restoration is excluded in this scope of work.
- 10. Provide traffic control including policing, barricades, signs, warning devices, flaggers, etc.
- 11. Ground restoration and cleanup work, including seed and straw. See additional information regarding Site Restoration in Restoration section following.
- Contractor shall supply and install sedimentation and erosion control measures per MSD standards including submittal of erosion control plan and obtaining the necessary permits and approval.
- 13. Perform all site work, utility relocations, and all other work required to complete the project. Normal work shall be based on KYTC and Metro permits. In some cases, the permitting authorities restrict work hours from 9:00 AM to 3:00 PM. Longer hours may be applied for, upon request, but all work must adhere to the final permitted hours and conditions. No additional payment will be made if the permitting authorities restrict work hours.

14. Contractor shall not mobilize until Pre-construction Meeting has been completed, shop drawings approved, Pre-construction Video completed, and submitted and Contractor has received approval from Project Manager that all permits have been approved.

GENERAL INFORMATION

15. The Contractor is bound by and shall comply with the provisions of the "Louisville Water Company Technical Specifications and Standard Drawings for Pipeline Construction" (2022 Edition) which shall govern work on this project with the following additions/exceptions: All materials shall be supplied and installed by the Contractor. Louisville Water Company will not supply any material. Contactor shall, disregard any reference in the Louisville Water Company Technical Specification where it says Louisville Water Company shall/will supply materials. As stated above all materials shall be supplied and installed by the Contractor. Contractor shall comply with: Louisville Water 4" – 20" Pipeline Material Specification, which can be found and downloaded on the Web at "www.louisvillewater.com" under the "Work With Us" tab.

MATERIAL TO BE SUPPLIED BY THE CONTRACTOR

- 16. The Contractor shall supply all the materials required for the successful completion of the project, except for the meters and dielectric couplings. The Contractor-supplied material shall be manufactured within the same twelve (12) month period as the delivery to the jobsite and must be installed per the Manufacturer's installation instructions.
- 17. Submittals/shop drawings and Manufacturer's literature for all supplied materials shall be promptly submitted to the Project Manager for approval and shall be submitted before ordering of such material.
- 18. At the time of delivery to the jobsite, all materials shall be new, clean, and free from dirt and debris. Any damaged or defective material will be rejected and will not be allowed to be installed. Contractor shall be responsible to remove and replace any damaged or defective materials at their own expense.
- Coordinate submittal with construction schedule and fabrication lead-times.
 - Provide a list of submittals.
 - b. No extension of Contract Time will be authorized due to failure to transmit submittals in time to permit processing sufficiently in advance of when materials are required in the Work.
 - c. Project Manager will not accept submittals from sources other than Contractor.
 - d. Digital Submittals are the preferred method and must be in the format of pdf or AutoCad. Paper submittals are also acceptable. Furnish two (2) copies of items submitted for review. One (1) copy will be returned to the

Contractor following review, and one (1) copy will be retained by the Project Manager.

- 20. Compliance with specified product requirements remains Contractor's responsibility regardless of Project Manager's review.
- 21. Project Manager may respond as follows:
 - Rejected Item is wholly rejected. Contractor to resubmit different item.
 - b. Revise & Resubmit Item substantially meets criteria, however, additional information, materials, clarity, administrative numbering, or other requires the submittal to be resubmitted for clarification to Project Manager, Contractor, and/or Supplier.
 - c. No Markings Contractor to furnish the item with all notes made by Project Manager on submittal. Resubmittal not necessary.
 - d. No Exceptions Taken Acceptable submittal. Resubmittal not necessary.

TRAFFIC CONTROL

- 22. Road permits will be acquired by Ky. Transportation Cabinet. If a road permit will be required for work performed within the ROW limits, the Contractor shall submit traffic control plans to the Louisville Water Project Manager prior to permit submittal. The permits will be obtained by the Louisville Water Project Manager prior at the start of work. A minimum of 21 working days advance notice of the need for a permit shall be provided to the Louisville Water Project Manager. Copies of these permits, along with the approved traffic control plan, shall be onsite, readily available, legible, and prominently displayed in all construction vehicles used at the project site. No construction work shall start until these permits are obtained and provided to the contractor by Louisville Water.
- 23. Traffic control plans will be required by permitting authorities and shall be provided by the contractor to Louisville Water prior to the permit request. The plan shall be drafted utilizing "RapidPlan" software or approved equal and shall be in accordance with the KYTC and/or Louisville Metro regulations and templates. Hand drawn plans, sketches and notes will not be accepted. The Contractor shall also submit a project schedule for all streets, at time of permit request. The traffic control plan along with permit dates from the project schedule, will be submitted by Louisville Water to the respective agencies with the requested permit.
- 24. Traffic control shall be provided by the Contractor in accordance with the Manual for Uniform Traffic Control Devices (MUTCD).
- 25. Specific traffic control signage referencing lane blockages, detours, flaggers, etc. shall be removed from the site or covered when not in use. Signs that provide

- general messages such as "Construction Ahead" shall be left in place throughout the completion of this project.
- 26. The Contractor shall be responsible for establishing temporary "No Parking" zones. The zones shall be confined to the immediate work area and appropriate transition zones and shall be limited in duration to the length of time work is actually performed in that area.
- 27. All construction vehicles shall be legally parked. Privately owned vehicles including vehicles owned by the construction crew shall not be parked in the "No Parking" zones.

<u>VIDEO RECORDING / PRECONSTRUCTION PICTURES</u>

- 28. Please refer to Section 1.6 of the Louisville Water Technical Specifications 2022 for Video Recording. In addition, video recording shall be provided in digital format on a USB flash drive prior to start of construction.
- 29. Preconstruction pictures shall be provided by the Contractor to the Louisville Water Project Manager prior to construction. The pictures shall be placed in a binder and appropriately labeled for easy reference. A minimum of one picture shall be provided for each property that is impacted by construction. The Contractor shall utilize Kentuckiana Seismic or approved equal for this task.

SITE WORK

30. Utility locations shown on the plans are from available information and are approximate. The Contractor is responsible for locating all existing utilities including water line facilities prior to start of construction. The Contractor is responsible for relocating any existing utility that is in conflict with the proposed construction at no additional cost to Louisville Water.

RETURN OF USED HYDRANTS

31. Fire hydrants that are discontinued, abandoned, or replaced shall be removed and returned with caps to the Louisville Water Allmond Avenue Warehouse. The Contractor shall also complete Exhibit B - "RETURN OF USED FIRE HYDRANTS" form, sign and submit the form to the Louisville Water Construction Inspector for record keeping and proper accounting. Any removed hydrant that is not returned to the Louisville Water warehouse will be invoiced to the contractor in the amount of \$75 per hydrant.

32. Fire Hydrant Extension Kits shall not be used for any fire hydrant installation on this project. Contractor shall adjust the depth of the water main at the location where a hydrant will be installed to accommodate the height of a standard fire hydrant.

EXCAVATION

- 33. Excavation on this project shall be unclassified.
- 34. Rock shall be removed using mechanical methods (backhoe, hoe ram, or rock trenching machine). Blasting shall not be permitted.

CUSTOMER SERVICES

- 35. All existing 5/8" services shall be renewed with a 3/4" service line.
- 36. All double setter meters shall be relocated. Each service shall be renewed and installed with its own meter vault. Each service shall be reconnected to the existing private customer service at the property line if possible. In some cases, it may not be practical to connect to the private service line at the property line. The Contractor shall anticipate the requirement of additional service line and shall install new service line by digging on the private side until the service line is located at no additional cost to Louisville Water. All work on private property and for additional service line shall be completed by a licensed plumber at no additional cost to Louisville Water.
- 37. Contractor shall not use couplings while installing service lines under paved areas. Full length of service line shall be installed under paved surfaces.
- 38. The renewal/relocation of lead services shall require the contractor to identify the property line location, which is usually a few feet away from the meter vault and excavate the service line. If the property line connection is not found, the Contractor shall seek permission from the property owner to excavate on private property. The Contractor shall continue to excavate up to 10 feet beyond the suspected property line location onto private property in an effort to find the connection and determine the customer's service line material.

Louisville Water Construction Inspector will verify the service line material on the customer side of the property line connection.

If the material on the customer side is not lead or galvanized, the Contractor shall renew/relocate the entire Louisville Water service line from the main to the customer's connection.

If the material on the customer side is lead or galvanized, then Louisville Water Construction Inspector will contact the customer to make them aware of the replacement work to be completed by Louisville Water and the existence of lead /galvanize on the customer's side of the service line. The Louisville Water Construction Inspector shall also inquire if customer is willing to replace the customer's lead service line.

- a. If the customer is willing to replace their private lead service line, the Contractor will coordinate the renewal/relocation of Louisville Water's lead service line with the customer's plumber.
- b. If the customer is not willing to replace their lead service line and the service is to be renewed, the Contractor shall only renew the service from the water main to the meter vault. This shall be noted on the Installation Data Sheet.
- c. If the customer is not willing to replace their lead service line and the service is to be relocated, the Contractor will replace the entire Louisville Water lead service line from the main to the customer's connection and install a dielectric between the end of the new Louisville Water service tail piece and the customer's lead service line. The dielectric will be composed of a 24" section of like diameter Schedule 80 PVC pipe and a plastic universal transition coupling (supplied by Louisville Water). If the customer's service line is less than 10 feet in length as measured from the building to the dielectric connection, Louisville Water will retain a licensed electrician to install an appropriate grounding system before service is relocated.
- 39. If the Contractor encounters a customer's service line whose material is corroded galvanized and it is found to be difficult to make the connection, the Contractor shall seek permission from the property owner to excavate onto the private property. The Contractor shall continue to excavate up to 10 feet beyond the property line location on the private property in an effort to find non-deteriorated line to tie into the tailpiece. All work on private property and for additional service line shall be completed at no additional cost to Louisville Water.
- 40. All service lines within the limits of the project either shown or not shown on the plans must be protected. The Contractor using a licensed plumber must repair all damaged service lines at no addition cost to Louisville Water.
- 41. During service renewals, meter vault frames and covers that have the old-style locking mechanisms shall be replaced with new frames and covers (supplied by the Contractor). Additionally, where covers are broken or inoperable, the covers and frames shall be replaced. The existing meter vault shall be reused for the renewed service provided the vault is in proper working condition. Vaults that are crushed or broken, or improperly sized, shall be removed and replaced with new vaults (supplied by the contractor).

42. The Contractor shall note any large and/or critical customer services located within the limits of this project. Planned water outages affecting these services may require extensive coordination with the affected customers. The Contractor shall provide to the Louisville Water Construction Inspector, a minimum two-week prior notice of planned water outages that affect large services (2-inch or larger) or critical customer services connected to medical facilities, schools, day cares, or similar facilities. The Contractor shall anticipate the need to schedule service work and tie-ins requiring planned water outages around the needs of these facilities.

FLUSHING OF LEAD SERVICES

43. The Contractor shall be responsible for proper disposal of the flushed water to make sure the water is directed to drainage line. Contractor shall use caution not to flood the customer's yard.

WORK SCHEDULE

- 44. Louisville Water observes designated holidays. No work shall be performed during the holiday periods. All equipment, personnel, and materials shall be removed from the work area. All excavations shall be backfilled and restored. All street cuts shall be paved or patched.
- 45. Normal work hours shall be limited to approved permit hours. All other work hour requests must be submitted by the Contractor to the approving agency for approval after standard applications have been made and approved.
- 46. The Contractor shall anticipate the need to work after-hours and on weekends to accommodate all critical customer needs as directed by the Louisville Water Project Manager. All such work will be considered incidental to the project and no additional compensation will be provided. This after-hour work must be preapproved by the Louisville Water Project Manager.
- 47. In the case of an emergency, if the Contractor cannot reach the Louisville Water Construction Inspector, the Contractor shall immediately notify the Louisville Water Project Manager about the emergency. If the emergency requires a water main shut-off, the Contractor shall attempt to contact each customer (door-to-door) to alert customers of the emergency situation and the need to shut the main off.

EROSION CONTROL MEASURES

48. An erosion control plan is required for this project. An erosion control plan shall be prepared by the contractor and submitted to Louisville Water for review. The erosion control plan shall be submitted by the Contractor to the respective agencies

upon request of Louisville Water. The Contractor is responsible for maintaining all erosion control measures within the project limits in accordance with the latest MSD, Louisville Metro, and Louisville Water specifications. The Contractor is responsible for making all erosion control modifications within the project limits required by MSD, Louisville Metro, Louisville Water, or any other permitting authority at no additional cost to Louisville Water. The Contractor is responsible to rectify any disputes that may arise due to inadequate erosion control measures as determined by MSD, Louisville Metro, Louisville Water, or any other permitting authority.

49. As a minimum, erosion control features shall be provided at catch basins, headwalls and in small ditches where associated construction procedures may cause the transport of sediment into the storm drainage system. When soil is disturbed within grassy areas, erosion control protection shall also be provided at yard drains. Care will be required to minimize stockpiling or placing backfill or excavated materials on roadways.

PIPELINE CONSTRUCTION

- 50. Prior to the start of any work at the site (including saw-cutting), the Contractor and Louisville Water Construction Inspector shall review the proposed pipeline alignment with respect to the utility locations marked by the local utility locate company, trees, and other existing site improvements.
- 51. Standard burial depth for new water mains is 42 inches, as measured from the top of ground to the top of the newly installed pipe. While the Contractor is expected to adhere to this standard burial depth requirement at all times, it is understood that revisions to the burial depth will be necessary when the installation of mains and large services conflict with existing utilities and other site improvements. Prior approval from the Louisville Water Project Manager is required for these deviations.
- 52. The Contractor is cautioned that some large trees are located within the project alignment. Care will be required to minimize damage to trees and tree root systems. Excavations that encounter roots should be backfilled as soon as possible. Severed roots more than 2-inches in diameter shall be cut straight at an undamaged portion, maintained in a moist condition, and then buried as soon as possible. Excavated soil shall not be placed within the dripline of any tree.
- 53. When installing main within the dripline of any tree with a diameter of 6 inches or larger, the <u>root system shall be bored</u>. The cost of the tree bore shall be considered incidental to the installation of the pipeline, and no extra compensation will be provided. All tree root systems that require boring shall be bored a minimum of 20 feet; 10 feet either side of the tree trunk, or beyond tree dripline each side. The bore shall be located a minimum of 4 feet below the

ground surface and a minimum of 5 feet from the center of the tree. Note, trees that may need boring may not be shown on plans. The Contractor shall field verify all trees within the alignment, determine what trees to be bored and include in original bid.

RESTORATION

- 54. Contractor shall work on no more than two sites at a time. At least one site must be fully restored with the exception of milling and paving before the Contractor begins working on the next site (this work includes yard, sidewalk and curb restoration and patching of all road cuts).
- 55. Areas that have landscaping shall be replaced with like materials (mulch, plants, flowers, lawn sod, etc.). The Contractor shall contact each customer with landscaping to be disturbed to give them the option of removing it prior to construction and replacing it. If the customer does not choose this option, the Contractor shall remove it for them or replace it with like materials following construction.
- 56. For ground restoration of all disturbed areas; including both landscaping and restoration of grassy areas within; lawns, easements and right-of ways, the contractor shall hire a licensed landscaper to perform the work. Landscaping Company's information must be provided to the Louisville Water Project Manager for approval. The contractor shall not use its own forces to perform final ground restoration. Ground restoration shall be warranted for two years from time of acceptance of installation.
- 57. For all disturbed areas including lawns, the Contractor shall hire a licensed landscaper to perform the yard restoration. Landscaping Company's information must be provided to the Louisville Water Project Manager for approval. The Contractor shall not use its own forces to perform the restoration. Ground restoration of disturbed grassy areas shall consist of installing, seed and straw, straw blanket with seed, or installation of sod then rolled. The Contractor shall agree to install either, at a customer's request when agreed by Louisville Water Project Manager. Sod is to be placed on lawns that have been sodded within the last 2 years. Sod may be approved for select areas where a homeowner has recently installed sod or in special cases where the lawn is in pristine condition. The type of grass seed or sod used shall match the existing Erosion control blanket containing seed (min. 6' wide) shall be placed/pinned along centerline of roadside swales/vegetative ditches or sloped yard areas subject to erosion. Prior to placing seed, straw, blanket or sod, the area shall be leveled to conform with existing grade, graded to prevent ponding and rocks removed. Place and till 4" of topsoil, rake and feather edges to match existing grade.

- 58. When fences are disturbed, the Contractor shall contact the customer with the fence to be disturbed to give them the option of removing it prior to construction and replacing it. If the customer does not choose this option, the Contractor shall remove it for them or replace it with like materials following construction.
- 59. Private Irrigation Lines, when encountered, shall be protected during construction. If these lines are damaged, the Contractor shall hire a qualified licensed plumber to repair the damaged lines at no additional cost to Louisville Water.
- 60. Existing sidewalk and curbs shall not be disturbed. When sidewalk removal is necessary, the Contractor shall minimize the disturbed area by removing only one section of the sidewalk. Driveways and disturbed sidewalk and curbs must be restored utilizing Historic Concrete Mix, unless the pre-existing concrete was a special mix, or recently installed broom finished standard mix, special stamped concrete, or limestone curb. Any variation from using Historic Mix shall be discussed and approved with/by Louisville Water Project Manager. All historic concrete shall be a sand-grout mix design per Louisville Metro design specification. See specification below.

Louisville Metro Public Works - Manual of Specifications and Standard

January 2015

Section 02400 Concrete Curb & Gutter, Driveways, Sidewalks, and Other Miscellaneous Concrete Page 02400-5

2.2.2 MATERIALS

Materials used in this construction shall meet the following requirements:

Sand-Grout Concrete Mix Design					
Mix ID: 6-1/2 bag grout - 4,000 psi					
	Weights/Volumes per Cubic Yard (Saturated, Surface-Dry)	Yield, Cu. Ft.			
Type 1 Portland Cements (lbs.)	640	3.21			
Class F Fly Ash (lbs.)	110	0.70			
Class A Sand (lbs.)	2,729	17.02			
Water (lbs.) (GalUS)	295 (35.3 lbs./Cu. Yd.)	4.73			
Total Air (%)	5.0 ± 1.0	1.35			
Total		27.0			
Add Mixture	·	1,0000000			
Russ Tech. Finishease NC, (oz.)	29.60				
Air Entrain					
Russ Tech, RSA-10 (oxUS)	5.9				
Water/Cement Ration (lbs.)	0.40				
Slump	4.00				
Concrete Unit Weight (lbs./cu. Ft.)	139.4				

Compensation for free and negative moisture will be made at the time of batching.

- 61. All historic mix concrete must be installed with a washed finish.
- 62. Sidewalks and curbs shall be replaced full width from existing joint to joint (partial replacement is not acceptable). All sidewalk construction and replacement shall meet the American Disabilities Act Specifications and requirements (note, flat across drives). Sidewalks shall be replaced per Louisville Metro Public Works Specifications.
- 63. All concrete driveways that are damaged by construction or specified for replacement on the plans shall be replaced in their entirety, street to right-of-way and to the nearest existing construction joint. Concrete thickness and strength shall be per Louisville Water standard specifications. The style/type shall match the existing driveway. In specific cases the Louisville Water Project Manager retains the right to modify style, type and limits of repair based on field conditions and customer consultation, at no additional cost to Louisville Water.

64. All asphalt driveways shall be restored via a utility cut, as approved by the Louisville Water Project Manager and property owner. Asphalt thickness and strength shall be installed per Louisville Water standard specifications. Asphalt driveway replacement shall be full width and completed from edge of pavement to edge of right-of-way.

POST CONSTRUCTION

65. All in-line and service valves installed and/or operated during the completion of this project shall be inspected after construction to verify that all valves used by the Contractor are left in the proper operating position. Unless otherwise noted, or directed, all gates shall be left open.

SCHEDULE OF VALUES

- 66. A Schedule of Values shall be submitted in accordance with Section 1.03 of the Terms and Conditions. The schedule is not limited to but shall include the following:
 - Minimum 6% of the total contract pricing restoration line item.
 - Maximum 6% of the total contract pricing mobilization line item.
 - Minimum 2% of the total contract pricing demobilization line item.

PAVEMENT RESTORATION

67. Trench backfill and compaction shall be completed in accordance with one of the methods in the following chart:

Trench Backfill and Compaction Requirements Beneath Pavements

	Maximum Lo	ose Lift T	hickness (in	iches)		
Category		_	Dense		Maximum	
	Manufactured	Pit Run	Graded	No. 57	Number	
	Sand	Sand	Aggregate	Stone	of Passes ²	Example Models ³
Lightweight Vibratory						
Plate Compactors (100 -						Wacker-Neuson WP
I 200lbs) ¹	8	8	6	8	3	1540; MBW GP18
Medium Weight						
Vibratory Plate						MultiQuip
Compactors (220 -						MWH206GH; MBW
II 660lbs) ¹	12	12	9	12	3	GPR77H
Heavyweight Vibratory						Wacker-Neuson BPU
Plate Compactors						4045A; MBW
III (>660lbs) ^{1,4}	18	18	12	18	3	GPR135H
						Wacker-Neuson
Smooth Drum Vibratory						RTLx with Smooth
IV Rollers ⁴	12	12	9	12	3	Drum Attachment
Equipment Mounted						Allied 1000B;
V Compactors ⁴	24	24	24	24	3	Caterpillar CVP 110

¹Weight range provided is the operating weight of the equipment during compaction.

68. All pavement cuts shall be made flush with existing pavement grade as soon as possible, but not more than four (4) days from when the utility cut is made.

All trench cuts made in pavement shall be backfilled and compacted with DGA. Pavement cuts shall include 1-foot cutbacks that are a minimum 10-inch deep. Cutbacks shall be made after the trench is backfilled with DGA. The Contractor is responsible for maintaining the DGA trench with cold patch for smooth rideability if it

²The minimum number of passes shall be applied across the full trench width. For example, a 30-inch wide trench compacted with a 22-inch wide lightweight plate compactor will require 6 total passes per lift. ³Example models listed are not inclusive. Each manufacturer has multiple models that meet the requirements for each weight category, any of which the contractor may utilize.

⁴For categories III, IV and V, the manufacturers of both the compactors and the pipe should be consulted to determine the minimum amount of cover required over the pipe to prevent damage.

is opened to traffic. Concrete restoration shall occur within 14 days of the utility cut. A minimum 10-inch concrete cap shall be placed over the backfill material, keyed into the cutback and made <u>flush</u> with existing pavement grade. Concrete shall be screeded, floated and broom finished to match pre-existing grade, without dips and shall have smooth rideability. The Contractor will be permitted to leave 4-foot DGA with cold patch gaps at service locations for longer than 14 days, or recessed plates. The Contractor is responsible for maintaining these gaps for smooth rideability.

69. Restored paved areas shall be milled and paved from edge of pavement to edge of pavement, this includes asphalt paved driving lanes, parking lanes, and shoulders. The road shall be milled minimum 1.5 inches, or per permit required depth, and paved per Louisville Metro Specifications for Metro roads and per KYTC Specifications for State roads. All other non-paved or concrete paved areas inside of public right of way, i.e. stone shoulders, etc. shall be restored by the Contractor.

N O T I C E

DEPARTMENT OF THE ARMY CORPS OF ENGINEERS NATIONWIDE PERMIT AUTHORIZATION KENTUCKY DIVISION OF WATER 401 WQC

PROJECT: Jefferson County, Item No. 5-8203

Lane Improvements on KY 1819 Billtown Road

The Section 404 & 401 activities for this project have been previously permitted under the authority of the Department of the Army Nationwide Permit No. 14 "Linear Transportation Projects" & Division of Water General Water Quality Certification. In order for these authorizations to be valid, the attached conditions must be followed. The contractor shall post a copy of this Nationwide Permit & General WQC in a conspicuous location at the project site for the duration of construction and comply with the general conditions as required.

Station 22+85 See sheet R9 Extend the existing 24-inch culvert. The **ephemeral** stream a U.T. to Chenoweth Run will have impacts below the normal high water mark due to widening the crossing, headwalls, and riprap. The estimated area of impact is **71 linear feet** and **0.004 acres**.

Station 66+95 See sheet R7 Extend the existing 30-inch culvert. The **ephemeral** stream a U.T. to Chenoweth Run will have impacts below the normal high water mark due to widening the crossing, headwalls, and riprap. The estimated area of impact is **25 linear feet** and **0.001 acres**.

This project involves work near and/or within Jurisdictional Waters of the United States as defined by the United States Army Corps of Engineers and therefore requires a Nationwide 14 General 404 Permit. The Division of Water certified this General Permit with several conditions (See attached). One that should be brought to your attention is regarding the use of heavy equipment in the stream channel. If there is need to cross the stream channel with heavy equipment or conduct work from within the stream channel a working platform or temporary crossing is authorized. This should be constructed with clean rock and sufficient pipe to allow stream flow to continue unimpeded (see attached typical drawing).

In order for this authorization to be valid, the attached conditions must be followed. The contractor shall post a copy of this Nationwide Approval in a conspicuous location at the project site for the duration of construction and comply with the general conditions as required.

To more readily expedite construction, the contractor may elect to alter the design or perform the work in a manner different from what was originally proposed and specified. Prior to commencing such alternative work, the contractor shall obtain **written** permission from the Division of Construction and the Division of Environmental Analysis. If such changes necessitate further permitting then the contractor will be responsible for applying to the Army Corps of Engineers and the Kentucky Division of Water (KDOW). A copy of any request to the Corps of Engineers or the KDOW to alter this proposal and subsequent responses shall be forwarded to the Division of Environmental Analysis, DA Permit Coordinator, for office records and for informational purposes.



MATTHEW G. BEVIN

CHARLES G. SNAVELY
SECRETARY

ENERGY AND ENVIRONMENT CABINET DEPARTMENT FOR ENVIRONMENTAL PROTECTION

R. BRUCE SCOTT

300 Sower Boulevard FRANKFORT, KENTUCKY 40601

General Certification--Nationwide Permit # 14 Linear Transportation Projects

This General Certification is issued March 19, 2017, in conformity with the requirements of Section 401 of the Clean Water Act of 1977, as amended (33 U.S.C. §1341), as well as Kentucky Statute KRS 224.16-050.

For this and all nationwide permits, the definition of surface water is as per 401 KAR 10:001 Chapter 10, Section 1(80): Surface Waters means those waters having well-defined banks and beds, either constantly or intermittently flowing; lakes and impounded waters; marshes and wetlands; and any subterranean waters flowing in well-defined channels and having a demonstrable hydrologic connection with the surface. Lagoons used for waste treatment and effluent ditches that are situated on property owned, leased, or under valid easement by a permitted discharger are not considered to be surface waters of the commonwealth.

Agricultural operations, as defined by KRS 224.71-100(1) conducting activities pursuant to KRS 224.71-100 (3), (4), (5), (6), or 10 are deemed to have certification if they are implementing an Agriculture Water Quality Plan pursuant to KRS 224.71-145.

For all other operations, the Commonwealth of Kentucky hereby certifies under Section 401 of the Clean Water Act (CWA) that it has reasonable assurances that applicable water quality standards under Kentucky Administrative Regulations Title 401, Chapter 10, established pursuant to Sections 301, 302, 304, 306 and 307 of the CWA, will not be violated for the activity covered under NATIONWIDE PERMIT 14, namely Linear Transportation Projects, provided that the following conditions are met:

- 1. The activity will not occur within surface waters of the Commonwealth identified by the Kentucky Division of Water as Outstanding State or National Resource Water, Cold Water Aquatic Habitat, or Exceptional Waters.
- The activity will not occur within surface waters of the Commonwealth identified as perpetually-protected (e.g. deed restriction, conservation easement) mitigation sites.
- 3. The activity will impact less than 1/2 acre of wetland/marsh.



General Certification--Nationwide Permit # 14 Linear Transportation Projects Page 2

- 4. The activity will impact less than 300 linear feet of surface waters of the Commonwealth. Stream realignment greater than 100 feet and in-stream stormwater detention/retention basins are not covered under this general water quality certification.
- 5. For complete linear transportation projects, all impacts shall not exceed a cumulative length of 500 linear feet within each Hydrologic Unit Code (HUC) 14.
- 6. Any crossings must be constructed in a manner that does not impede natural water flow.
- 7. Stream impacts covered under this General Water Quality Certification and undertaken by those persons defined as an agricultural operation under the Agricultural Water Quality Act must be completed in compliance with the Kentucky Agricultural Water Quality Plan (KWQP).
- 8. The Kentucky Division of Water may require submission of a formal application for an individual certification for any project if the project has been determined to likely have a significant adverse effect upon water quality or degrade the waters of the Commonwealth so that existing uses of the water body or downstream waters are precluded.
- 9. Activities that do not meet the conditions of this General Water Quality Certification require an Individual Section 401 Water Quality Certification.
- 10. Activities qualifying for coverage under this General Water Quality Certification are subject to the following conditions:
 - Projects requiring in-stream stormwater detention/retention basins shall require individual water quality certifications.
 - Erosion and sedimentation pollution control plans and Best Management Practices must be designed, installed, and maintained in effective operating condition at all times during construction activities so that violations of state water quality standards do not occur (401 KAR 10:031 Section 2 and KRS 224.70-100).
 - Sediment and erosion control measures, such as check-dams constructed of any material, silt fencing, hay bales, etc., shall not be placed within surface waters of the Commonwealth, either temporarily or permanently, without prior approval by the Kentucky Division of Water's Water Quality Certification Section. If placement of sediment and erosion control measures in surface waters is unavoidable, design and placement of temporary erosion control measures shall not be conducted in such a manner that may result in instability of streams that are adjacent to,

General Certification--Nationwide Permit # 14 Linear Transportation Projects Page 3

upstream, or downstream of the structures. All sediment and erosion control devices shall be removed and the natural grade restored within the completion timeline of the activities.

- Measures shall be taken to prevent or control spills of fuels, lubricants, or other toxic materials used in construction from entering the watercourse.
- Removal of riparian vegetation in the utility line right-of-way shall be limited to that necessary for equipment access.
- To the maximum extent practicable, all in-stream work under this certification shall be performed under low-flow conditions.
- Heavy equipment, e.g. bulldozers, backhoes, draglines, etc., if required for this project, should not be used or operated within the stream channel. In those instances in which such in-stream work is unavoidable, then it shall be performed in such a manner and duration as to minimize turbidity and disturbance to substrates and bank or riparian vegetation.
- Any fill shall be of such composition that it will not adversely affect the biological, chemical, or physical properties of the receiving waters and/or cause violations of water quality standards. If rip-rap is utilized, it should be of such weight and size that bank stress or slump conditions will not be created because of its placement.
- If there are water supply intakes located downstream that may be affected by increased turbidity and suspended solids, the permittee shall notify the operator when such work will be done.
- Should evidence of stream pollution or jurisdictional wetland impairment and/or violations of water quality standards occur as a result of this activity (either from a spill or other forms of water pollution), the KDOW shall be notified immediately by calling (800) 928-2380.

Non-compliance with the conditions of this general certification or violation of Kentucky state water quality standards may result in civil penalties.

2017 Nationwide Permits Regional and Permit-Specific Conditions COMMONWEALTH OF KENTUCKY

These regional conditions are in addition to, but do not supersede, the requirements in the Federal Register (Volume 82, No. 4 of January 6, 2017, pp 1860).

Notifications for all Nationwide Permits (NWPs) shall be in accordance with General Condition No. 32.

- 1. For activities that would impact Outstanding State or National Resource Waters (OSNRWs), Exceptional Waters (EWs), Coldwater Aquatic Habitat Waters (CAHs) under the Endangered Species Act for the NWPs listed below, a Pre-Construction Notification (PCN) will be required to the Corps. The Corps will coordinate with the appropriate resource agencies (see attached list) on these NWPs (Section 404 activities), for impacts to these waters.
 - NWP 3 (Maintenance)
 - NWP 4 (Fish and Wildlife Harvesting, Enhancement, and Attraction Devices and Activities)
 - NWP 5 (Scientific Measurement Devices)
 - NWP 6 (Survey Activities)
 - NWP 7 (Outfall Structures and Associated Intake Structures)
 - NWP 12 (Utility Line Activities)
 - NWP 13 (Bank Stabilization)
 - NWP 14 (Linear Transportation Projects)
 - NWP 15 (U.S. Coast Guard Approved Bridges)
 - NWP 16 (Return Water from Upland Contained Disposal Areas)
 - NWP 17 (Hydropower Projects)
 - NWP 18 (Minor Discharges)
 - NWP 19 (Minor Dredging)
 - NWP 20 (Response Operations for Oil or Hazardous Substances)
 - NWP 21 (Surface Coal Mining Activities)
 - NWP 22 (Removal of Vessels)
 - NWP 23 (Approved Categorical Exclusions)
 - NWP 25 (Structural Discharges)
 - NWP 27 (Aquatic Habitat Restoration, Establishment, and Enhancement Activities)
 - NWP 29 (Residential Developments)
 - NWP 30 (Moist Soil Management for Wildlife)
 - NWP 31 (Maintenance of Existing Flood Control Facilities)
 - NWP 32 (Completed Enforcement Actions)
 - NWP 33 (Temporary Construction, Access, and Dewatering)
 - NWP 34 (Cranberry Production Activities)
 - NWP 36 (Boat Ramps)
 - NWP 37 (Emergency Watershed Protection and Rehabilitation)
 - NWP 38 (Cleanup of Hazardous and Toxic Waste)
 - NWP 39 (Commercial and Institutional Developments)
 - NWP 40 (Agricultural Activities)

- NWP 41 (Reshaping Existing Drainage Ditches)
- NWP 42 (Recreational Facilities)
- NWP 43 (Stormwater Management Facilities)
- NWP 44 (Mining Activities)
- NWP 45 (Repair of Uplands Damaged by Discrete Events)
- NWP 46 (Discharges in Ditches)
- NWP 48 (Commercial Shellfish Aquaculture Activities)
- NWP 49 (Coal Remining Activities)
- NWP 50 (Underground Coal Mining Activities)
- NWP 51 (Land-Based Renewable Energy Generation Facilities)
- NWP 52 (Water-Based Renewable Energy Generation Pilot Projects)
- NWP 53 (Removal of Low-Head Dams)
- NWP 54 (Living Shorelines)
- 2. In addition to the notification and agency coordination requirements in the NWPs, for impacts greater than 0.25 acres in all "waters of the U.S." for the NWPs listed below, a PCN will be required to the Corps. The Corps will coordinate with the appropriate resource agencies (see attached list) on these NWPs:
 - NWP 3 (Maintenance)
 - NWP 7 (Outfall Structures and Associated Intake Structures)
 - NWP 12 (Utility Line Activities)
 - NWP 14 (Linear Transportation Projects)
 - NWP 29 (Residential Developments)
 - NWP 39 (Commercial and Institutional Developments)
 - NWP 40 (Agricultural Activities)
 - NWP 41 (Reshaping Existing Drainage Ditches)
 - NWP 42 (Recreational Facilities)
 - NWP 43 (Stormwater Management Facilities)
 - NWP 44 (Mining Activities)
 - NWP 51 (Land-Based Renewable Energy Generation Facilities)
 - NWP 52 (Water-Based Renewable Energy Generation Pilot Projects)
 - NWP 53 (Removal of Low-Head Dams)
- 3. For activities in all "waters of the U.S." for the NWPs listed below, a PCN will be required to the Corps. The Corps will coordinate with the appropriate resource agencies (see attached list) on these NWPs:
 - NWP 21 (Surface Coal Mining Activities)
 - NWP 27 (Aquatic Habitat Restoration, Establishment & Enhancement Activities)
 - NWP 49 (Coal Remining Activities)
 - NWP 50 (Underground Coal Mining Activities)
- 4. Nationwide Permit No. 14 Linear Transportation Projects.
 - (a) New road alignments or realignments are limited to a permanent loss of 500 linear feet of intermittent or perennial stream length at each crossing. Road crossings with permanent losses greater than 500 linear feet of intermittent or perennial stream associated with new

- alignments or realignments will be evaluated as an individual permit (i.e., a Letter of Permission or as a Standard Individual Permit).
- (b) In addition to the notification requirements contained in NWP 14, the permittee must submit a PCN to the district engineer prior to commencing the activity for the permanent loss of greater than 300 feet of ephemeral, intermittent and perennial stream of all "waters of the U.S." (See General Condition 32 and the definition of "loss of waters of the United States" in the Nationwide Permits for further information.)
- 5. Notification in accordance with General Condition 32 is required to the Corps for all activities which are subject to jurisdiction under Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
- 6. All applications are required as both a paper copy and in an electronic media format, including electronic mail or compact disc.
- 7. For all activities, the applicant shall review the U.S. Fish and Wildlife Service's IPaC website: http://ecos.fws.gov/ipac to determine if the activity might affect threatened and/or endangered species or designated critical habitat. If federally-listed species or designated critical habitat are identified, a PCN in accordance with General Condition 18 and 32 would be triggered and the official species list generated from the IPaC website must be submitted with the PCN.

Further information:

Outstanding State or National Resource Water (OSNRWs), Exceptional Waters (EWs), and Coldwater Aquatic Habitat Waters (CAHs) are waters designated by the Commonwealth of Kentucky, Natural Resources and Environmental Protection Cabinet. The list can be found at the following link: http://eppcapp.ky.gov/spwaters/

Information on Pre-Construction Notification (PCN) can be found at NWP General Condition No. 32 in the Federal Register (Volume 81, No. 105 of June 1, 2017, pp 35211).

COORDINATING RESOURCE AGENCIES

Chief, Wetlands Regulatory Section
U.S. Environmental Protection Agency
Region IV
Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, Georgia 30303

Supervisor
U.S. Fish & Wildlife Service
JC Watts Federal Building, Room 265
330 West Broadway
Frankfort, Kentucky 40601

Supervisor 401 Water Quality Certification Kentucky Division of Water 300 Sower Boulevard, 3rd Floor Frankfort, KY 40601

Commissioner
Department of Fish and Wildlife Resources
#1 Game Farm Road
Frankfort, Kentucky 40601

Executive Director and State Historic Preservation Officer Kentucky Heritage Council 300 Washington Street Frankfort, Kentucky 40601

ADDITIONAL COORDINATING RESOURCE AGENCY FOR NWPS 21, 49, AND 50

Kentucky Department for Natural Resources Division of Mine Permits 300 Sower Boulevard Frankfort, KY 40601

Terms for Nationwide Permit No. 14 Linear Transportation Projects

Activities required for crossings of waters of the United States associated with the construction, expansion, modification, or improvement of linear transportation projects (e.g., roads, highways, railways, trails, airport runways, and taxiways) in waters of the United States. For linear transportation projects in non-tidal waters, the discharge cannot cause the loss of greater than 1/2-acre of waters of the United States. For linear transportation projects in tidal waters, the discharge cannot cause the loss of greater than 1/3-acre of waters of the United States. Any stream channel modification, including bank stabilization, is limited to the minimum necessary to construct or protect the linear transportation project; such modifications must be in the immediate vicinity of the project.

This NWP also authorizes temporary structures, fills, and work, including the use of temporary mats, necessary to construct the linear transportation project. Appropriate measures must be taken to maintain normal downstream flows and minimize flooding to the maximum extent practicable, when temporary structures, work, and discharges, including cofferdams, are necessary for construction activities, access fills, or dewatering of construction sites. Temporary fills must consist of materials, and be placed in a manner, that will not be eroded by expected high flows. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The areas affected by temporary fills must be revegetated, as appropriate.

This NWP cannot be used to authorize non-linear features commonly associated with transportation projects, such as vehicle maintenance or storage buildings, parking lots, train stations, or aircraft hangars.

Notification: The permittee must submit a pre-construction notification to the district engineer prior to commencing the activity if: (1) the loss of waters of the United States exceeds 1/10-acre; or (2) there is a discharge in a special aquatic site, including wetlands. (See general condition 32.) (Authorities: Sections 10 and 404)

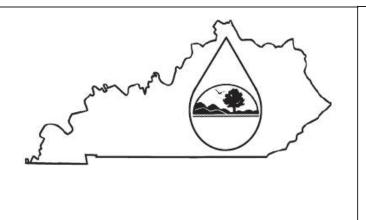
Note 1: For linear transportation projects crossing a single waterbody more than one time at separate and distant locations, or multiple waterbodies at separate and distant locations, each crossing is considered a single and complete project for purposes of NWP authorization. Linear transportation projects must comply with 33 CFR 330.6(d).

Note 2: Some discharges for the construction of farm roads or forest roads, or temporary roads for moving mining equipment, may qualify for an exemption under section 404(f) of the Clean Water Act (see 33 CFR 323.4).

Note 3: For NWP 14 activities that require pre-construction notification, the PCN must include any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity, including other separate and distant crossings that require Department of the Army authorization but do not require pre-construction notification (see paragraph (b) of general condition 32). The district engineer will evaluate the PCN in accordance with Section D, "District Engineer's Decision." The district engineer may require mitigation to ensure that the authorized activity results in no more than minimal individual and cumulative adverse environmental effects (see general condition 23).

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KENTUCKY POLLUTION DISCHARGE

ELIMINATION SYSTEM (KPDES)

Notice of Intent (NOI) for coverage of Storm Water Discharge Associated with Construction Activities Under the KPDES Storm Water General Permit KYR100000

Click here for Instructions (Controls/KPDES FormKYR10 Instructions.hth

Click here to obtain information and a copy of the KPDES General Permit. (http://dep.ky.gov/formslibrary/Documents/KYR10PermitPage.pdf)

(*) indicates a required field; (\checkmark) indicates a field may be required based on user input or is an optionally required field

General Comments:		
Applicant Comment:		
EEC Reviewer Comment:		
Reason for Submittal:(*) Application for New Permit C	Agency Interest ID: Agency Interest ID	Permit Number:(√) KPDES Permit Number
If change to existing permit coverage is sought:(✓)	requested, describe the changes for which	ch modification of coverage is being
FI IGIBII ITY:		

Stormwater discharges associated with construction activities disturbing individually one (1) acre or more, including, in the case of a common plan of development, contiguous construction activities that cumulatively equal one (1) acre or more of disturbance.

EXCLUSIONS:

The following are excluded from coverage under this general permit:

- 1) Are conducted at or on properties that have obtained an individual KPDES permit for the discharge of other wastewaters which requires the development and implementation of a Best Management Practices (BMP) plan;
- 2) Any operation that the DOW determines an individual permit would better address the discharges from that operation;
- 3) Any project that discharges to an Impaired Water listed in the most recent Integrated Report, §305(b) as impaired for sediment and for which an approved TMDL has been developed.

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SECTION I FACILITY OPERATOR IN	IFORMATI	ON (PERI	/ITTEE)					
Company Name:(√)		First Na	me:(√)			M.I.:	Last Na	me:(√)
KYTC District 5		Matt					Bullo	ck
Mailing Address:(*)	City:(*)			Sta	nte:(*)			Zip:(*)
8310 Westport Road	Louis	/ille			Kentu		•	40242
eMail Address:(*)			Busines	s Pho	ne:(*)	Alternat	e Phone:
Matt.Bullock@ky.gov			502-2	10-54	.00		Phone	
Section I Comments:								
Applicant Comment:								
EEC Reviewer Comment:								
SECTION II GENERAL SITE LOCAT	ION INFOR	RMATION						
Project Name:(*)			Status				SIC Co	de(*)
KYTC 05-8203		Owner/Operator(*) State Government		ent 🗸	1611 Highway and 🗸			
Company Name:(√)		First Na	me:(√)			M.I.:	Last Na	me:(√)
KYTC District 5		Matt				N	Bullo	ck
Site Physical Address:(*)								
KY 1819 (Billtown Road), From Easu	m Road to	Colonnade	es Place					
City:(*)			State:(*)			Zip:(*)	
Louisville			Kent	ucky		~	40299	9
County:(*) Jefferson	DD Con	www.fcc.go)				Longitud		I degrees)(*)
Section II Comments:								
Applicant Comment:								

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SECTION III SPECIFIC SITE ACTIVITY INFORMATION	N 2
ection III requires part A or part B to be completed.	
Project Description:(*)	
KY 1819, Billtown Road Spot Improvement	
a. For single projects provide the following information	
Total Number of Acres in Project:(√)	Total Number of Acres Disturbed:(√)
17.75	11.71
Anticipated Start Date:(√)	Anticipated Completion Date:(√)
10/1/2023	10/1/2024
b. For common plans of development provide the follow	wing information
Total Number of Acres in Project:(√)	Total Number of Acres Disturbed:(√)
# Acre(s)	# Acre(s)
Number of individual lots in development, if applicable:	Number of lots in development:(√)
(√)	# lot(s)
# lot(s)	
Total acreage of lots intended to be developed:(√)	Number of acres intended to be disturbed at any one
Project Acres	time:(✓)
	Disturbed Acres
Anticipated Start Date:(√)	Anticipated Completion Date:(√)
List Building Contractor(s) at the time of Application:(*)	
Section III Comments:	
Applicant Comment:	
EEC Reviewer Comment:	

 JEFFERSON COUNTY
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SECTION IV -- IF THE PERMITTED SITE DISCHARGES TO A WATER BODY THE FOLLOWING INFORMATION IS REQUIRED [7]

Complete the following table if the permitted site discharges to a water body. Please note that if you enter a row in hte below table, all columns are required to be filled out.

Unnamed Tributary?: Does discharge enter an unnamed tributary prior to entering a named receiving water? **Latitude in decimal degrees:** Format must be between 36.490000 and 39.150000, with a minimum of 5 decimal points of accuracy.

Longitude in decimal degrees: Format must be between -89.580000 and -81.960000, with a minimum of 5 decimal points of accuracy.

Receiving Water Name: Recieving water name must be from the following list of possible receiving waters.(click here for a list (Controls/ReceivingStream.htm)). If the discharge flows into an unnamed tributary, please enter the first "named" receiving water for which the unnamed tributary(ies) eventually flows into.

Unnamed Tributary?	Latitude	Longitude	Receiving Water Name	
Yes	38.166815	-85.569392	Chenoweth Run	
Yes	38.177993	-85.572011	Chenoweth Run	
Section IV Con	nments:			
000001111				
Applicant Com	ment:			
Applicant Com	ment:			
Applicant Com	ment:			
Applicant Com	ment:			
Applicant Com				

SECTION V -- IF THE PERMITTED SITE DISCHARGES TO A MS4 THE FOLLOWING INFORMATION IS REQUIRED

List all MS4 Discharge Points

Latitude in decimal degrees. Format must be between 36.490000 and 39.150000, with a minimum of 5 decimal points of accuracy.

Longitude in decimal degrees. Format must be between -89.580000 and -81.960000, with a minimum of 5 decimal points of accuracy.

Name of MS4:			
MSD-JEFFERSONTOWN			•
Date of application/notification to the MS4 for	Discharge Po	pint(s):(*)	
construction site permit coverage:	Latitude	Longitude	
5/16/2023	38.163532	-85.56678	
	38.163854	-85.567193	
	38.166815	-85.569392	
	38.169279	-85.571499	
	38.169325	-85.571349	

SECTION VII NOI PREPAI	RER INFO	RMATION					
First Name:(*)	M.I.:	Last Name:(*)		Company Name:(*)		
Kourosh	N	Namin		КҮТС			
Mailing Address:(*)		City:(*)		State:(*)		Zip:(*)	
8310 Westport Road		Louisvillwe		Kentucky	~	40242	
eMail Address:(*)				Business Phone:(*) Alternate Phone:			
matt.bullock@ky.gov			50221	05485	Phone	9	
Section VII Comments:							
Applicant Comment:							
EEC Reviewer Comment:							
SECTION VIII ATTACHME	NTS						
Facility Location Map:(*)			Upload	I file			
Supplemental Information:			Upload	l file			
Section VIII Comments:							
Applicant Comment:							
EEC Reviewer Comment:						//	
EEC Reviewer Comment.							
						//	
SECTION IX CERTIFICAT	ION						
I certify under penalty of law		noumant and all attac	hmonto wo	ro propored under m	v direction	or supervision in	
accordance with a system de					-	•	
submitted. Based on my inquestion for gathering the information	-	· ·	_				
aware that there are signification imprisonment for knowing vic	ınt penaltie	=	_			•	
Signature:(*)				Title:(*)			
Matt Bullock				Chief District En	gineer		

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First Name:(*)	M.I.:	Last Name:(*)	
Matt	MI	Bullock	
eMail Address:(*) Matt.Bullock@ky.gov	Business Phone:(*) 502-210-5400	Alternate Phone:	Signature Date: (*) 5/16/2023
Section IX Comments:			37.37.252
Applicant Comment:			
EEC Reviewer Comment:			
Click to Save Values for Future Re	trieval Click for Review Co	omplete Click to Submit D	Peficiency
			,

FAX (502) 564-7759

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PROJECT MATERIALS RELEASE FORM FOR SIGNAL AND LIGHTING

Note: Email form with signatures to KYTC's warehouse (kim.stamper@ky.gov) at least two (2) days prior to arrival for pickup. Ensure Contractor's delivery driver has a copy of form with signatures. Failure to do either may result in long delays or refusal to distribute materials upon arrival.

5-8203.00 Item Number: County: 56 Billtown Signal and Flasher Description: Cabinets Master code T-01-0000 Aluminum Cabinet (Beacon) 1 T-01-0020 Base Mounted 332 Cabinet 1 T-01-0105 ATC Controller 1C w/Maxtime (this should go with item ATC controller) 1 T-01-0106 Conflict Monitor, Model 2018
Isolator, Model 242 (1 for 2070, plus for ped detector and railroad) 1 T-01-0501 2 T-01-0510 7 T-01-0700

Load Switches

Signals		
8	T-02-0001	1-section beacon backplate
7	T-02-0009	Siemens 3 Section Signal
7	T-02-0032	Siemen 3 section backplate
8	T-02-0080	12 inch red/yellowbeacon
4	T-02-0090	Pedestrian signal housing
1	T-02-0300	LED Module 12" red arrow
2	T-02-0310	LED Module 12" yellow arrow
10	T-02-0330	LED Module 12" red ball
10	T-02-0340	LED Module 12" yellow ball
6	T-02-0350	LED Module 12" green ball
4	T-02-0365	LED Countdown Pedestrian Module

Special items						
1	T-02-0400	/ideo Detection System Camera Detector, SP-See David Huber in D5 502-210-5424				
1	T-02-0504	Router (this includes power supply/antenna/cabling)				
1	T-02-0650	Pedstl.top mntg.bkt One-way				
1	T-02-0661	Post Top for Pedestal (each)				
1	T-02-0670	Pedestal				
4	T-06-0710	Ped Detector Pole Mount FSA Box				
4	T-06-0730	Ped Button w/o Plunger				
4	T-17-0015	9 X 15 Countdown Ped Sign DBL Sided				

Poles				
8 T-04-0020	Steel Strain Pole 30 foot			
REQUIRED		-		
Electrical Contractor Name				
Electrical Contractor Supervisor		Contact number for Sup	pervisor	
Project Engineer		Contact number for Pro	ject Engineer	
Project Engineer attests that the ment	tioned contractor is the actual electrical contractor on this project	_		
Signature of Project Engineer or Designature	gnee			

SPECIAL NOTE

For Tree Removal

Jefferson County KY-1819 Reconstruction Project Item No. 05-8203.00

NO CLEARING OF TREES 5 INCHES OR GREATER (DIAMETER BREAST HEIGHT) FROM JUNE 1- JULY 31.

If there are any questions regarding this note, please contact Danny Peake, Director, Division of Environmental Analysis, 200 Mero Street, Frankfort, KY 40601, Phone: (502) 564-7250.

SPECIAL NOTE FOR NON-TRACKING TACK COAT

- 1. DESCRIPTION AND USEAGE. This specification covers the requirements and practices for applying a non-tracking tack asphalt coating. Place this material on the existing pavement course, prior to placement of a new asphalt pavement layer. Use when expedited paving is necessary or when asphalt tracking would negatively impact the surrounding area. This material is not suitable for other uses. Ensure material can "break" within 15 minutes under conditions listed in 3.2.
- 2. MATERIALS, EQUIPMENT, AND PERSONNEL.
 - 2.1 Non-Tracking Tack. Provide material conforming to Subsection 2.1.1.
 - 2.1.1 Provide a tack conforming to the following material requirements:

Property	Specification	Test Procedure
Viscosity, SFS, 77 ° F	20 - 100	AASHTO T 72
Sieve, %	0.3 max.	AASHTO T 59
Asphalt Residue ¹ , %	50 min.	AASHTO T 59
Oil Distillate, %	1.0 max.	AASHTO T 59
Residue Penetration, 77 ° F	0 - 30	AASHTO T 49
Original Dynamic Shear (G*/sin δ), 82 ° C	1.0 min.	AASHTO T 315
Softening Point, ° F	149 min.	AASHTO T 53
Solubility, %	97.5 min.	AASHTO T 44

¹ Bring sample to 212 °F over a 10-15 minute period. Maintain 212 °F for 15-20 minutes or until 30-40 mL of water has distilled. Continue distillation as specified in T59.

- 2.2. Equipment. Provide a distributor truck capable of heating, circulating, and spraying the tack between 170 °F and 180 °F. Do not exceed 180 °F. Circulate the material while heating. Provide the correct nozzles that is recommend by the producer to ensure proper coverage of tack is obtained. Ensure the bar can be raised to between 14" and 18" from the roadway.
- 2.3. Personnel. Ensure the tack supplier has provided training to the contractor on the installation procedures for this product. Make a technical representative from the supplier available at the request of the Engineer.

3. CONSTRUCTION.

3.1 Surface Preparation. Prior to the application of the non-tracking tack, ensure the pavement surface is thoroughly dry and free from dust or any other debris that would inhibit adhesion. Clean the surface by scraping, sweeping, and the use of compressed air. Ensure this preparation process occurs shortly before application to prevent the return of debris on to the pavement. If rain is expected within one hour after application, do not apply material. Apply material only when the surface is dry, and no precipitation is expected.

- 3.2 Non-tracking Tack Application. Placement of non-tracking tack is not permitted from October 1st to May 15th. When applying material, ensure the roadway temperature is a minimum of 40°F and rising. Prior to application, demonstrate competence in applying the tack according to this note to the satisfaction of the Engineer. Heat the tack in the distributor to between 170 180 °F. After the initial heating, between 170 180 °F, the material may be sprayed between 165 °F and 180 °F. Do not apply outside this temperature range. Apply material at a minimum rate of 0.70 pounds (0.08 gallons) per square yard. Ensure full coverage of the material on the pavement surface. Full coverage of this material is critical. Increase material application rate if needed to achieve full coverage. Schedule the work so that, at the end of the day's production, all non-tracking tack is covered with the asphalt mixture. If for some reason the non-tracking tack cannot be covered by an asphalt mixture, ensure the non-tracking tack material is clean and reapply the non-tracking tack prior to placing the asphalt mixture. Do not heat material more than twice in one day.
- 3.3 Non-tracking Tack Certification. Furnish the tack certification to the Engineer stating the material conforms to all requirements herein prior to use.
- 3.4 Sampling and Testing. The Department will require a sample of non-tracking tack be taken from the distributor at a rate of one sample per 15,000 tons of mix. Take two 1 gallon samples of the heated material and forward the sample to the Division of Materials for testing within 7 days. Ensure the product temperature is between 170 and 180 °F at the time of sampling.
- 4. MEASUREMENT. The Department will measure the quantity of non-tracking tack in tons. The Department will not measure for payment any extra materials, labor, methods, equipment, or construction techniques used to satisfy the requirements of this note. The Department will not measure for payment any trial applications of non-tracking tack, the cleaning of the pavement surface, or furnishing and placing the non-tracking tack. The Department will consider all such items incidental to the non-tracking tack.
- 5. PAYMENT. The Department will pay for the non-tracking tack at the Contract unit bid price and apply an adjustment for each manufacturer's lot of material based on the degree of compliance as defined in the following schedule. Non-tracking tack will not be permitted for use from October 1st to May 15th. During this timeframe, the department will allow the use of an approved asphalt emulsion in lieu of a non-tracking tack product but will not adjust the unit bid price of the material. When a sample fails on two or more tests, the Department may add the deductions, but the total deduction will not exceed 100 percent.

Non-Tracking Tack Price Adjustment Schedule								
Test	Specification	100% Pay	90% Pay	80% Pay	50% Pay	0% Pay		
Viscosity, SFS, 77 ° F	20 – 100	19 - 102	17 - 18	15 - 16	14	≤13		
			103 - 105	106 - 107	108 - 109	≥ 110		
Sieve, %	0.30 max.	≤ 0.40	0.41 - 0.50	0.51 - 0.60	0.61 - 0.70	≥ 0.71		
Asphalt Residue, %	50 min.	≥49.0	48.5 – 48.9	48.0 – 48.4	47.5-47.9	≤ 47.4		
Oil Distillate, %	1.0 max.	≤1.0	1.1-1.5	1.6 - 1.7	1.8-1.9	>2.0		
Residue Penetration, 77 ° F.	30 max.	≤31	32 - 33	34 - 35	36 - 37	≥ 38		
Original Dynamic Shear (G*/sin δ), 82 ° C	1.0 min.	≥0.95	0.92 - 0.94	0.90 - 0.91	0.85 - 0.89	≤ 0.84		
Softening Point, ° F	149 min.	≥145	142 - 144	140 - 141	138 - 139	≤ 137		
Solubility, %	97.5 min.	≥ 97.0	96.8 – 96.9	96.6 – 96.7	96.4 – 96.5	≤ 96.3		

Code
24970ECPay Item
Asphalt Material for Tack Non-TrackingPay Unit
Ton

Revised: May 23, 2022

SPECIAL NOTE FOR DOLOMITIC POLISH-RESISTANT AGGREGATE IN CLASS A 0.38-IN. AND 0.50-IN. NOMINAL ASPHALT MIXTURES

Contrary to Subsection 403.03.03, when utilizing a dolomitic polish-resistant aggregate as the coarse portion of the Class A 0.38-in. or 0.50-in.-nominal asphalt surface mixture, provide an asphalt mixture conforming to the following requirements:

- 70 percent of total combined aggregate is Class A polish-resistant aggregate.
- Any coarse aggregate utilized in the mixture shall be classified as Class A polishresistant.
- Non-dolomitic substitutes from other Class A sources may be used as direct substitutes
- All mixes must have DFT testing/results submitted to Division of Materials with any supporting documentation prior to completion of the project.

Dynamic Friction Testing Procedure. Prepare samples for DFT analysis in accordance with PP 104. Friction testing shall be conducted by an AASHTO-accredited facility and data shall be provided in accordance with ASTM E1911 conforming to the following three-wheel polishing schedule. Variations to the testing frequency or methodology shall be coordinated with Division of Materials prior to testing.

Polishing Cycles				
5,000				
25,000				
75,000				
150,000				

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Kentucky Transportation Cabinet Division of Highway Design TRAFFIC MANAGEMENT PLAN

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County:	Jefferson	_ Item No.:	5-8203.00
Federal Project	No.: FD04 056 18	819 006-008	
Project Descript			
RECONSTRUCTOR EASUM ROAD		1 NORTH OF	COLONNADES PLACE TO SOUTH
	, -		
Roadway Classi	ification: 🛛 Urban	Rural	
Local	☐ Collector	⊠ Arterial	☐ Interstate
ADT (current) *	AM Peak Current	PM Peak Cu	ırrent % Trucks 6.4 <u>%</u>
Project Designa	ation: 🛭 Significant 📗 Of	ther:	
Traffic Control	Plan Design:		
Taper and Diver	rsion Design Speeds 35 & 4	5 mph (Curre	nt signed speed limits)
Minimum Lane \	Width 10 ft **	Minimum :	Shoulder Width <u>n/a</u>
Minimum Bridge	∍ Width <u>n/a</u>		
Minimum Radius	ıs 600' (35mph), 750' (45mpl	h) Maximum	n Grade <u>3.5%</u>
Minimum Taper	Length <u>n/a</u>	Minimum Inter	rsection Level of Service n/a
Existing Traffic (Queue Lengths <u>n/a</u> F	Projected Traf	ffic Queue Lengths <u>n/a</u>
Comments:	- : ()0004	60	
	: 13,500 for KY 1819 (2021 ed Traffic Control Plan Sheet		ast)

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Kentucky Transportation Cabinet Division of Highway Design TRAFFIC MANAGEMENT PLAN

Item No. <u>5-8203.00</u>

Discussion:

	1) Public Information Plan	(Sections	1, 2, &3)	
ļ	a) Prepare with assistance from	$oxed{oxed}$ KYTC or $oxed{oxed}$		
	b) Identify Trip Generators	<u>n/a</u>	f) Railroad Involvement	<u>n/a</u>
I			g) Address Pedestrians, Bikes	
Į	c) Identify Types of Road Users	Referenced	Mass Transit	Referenced
I				
I			h) Address Timing, Frequency, U	lpdates,
	d) Public Information Message	Referenced	Effectiveness of Plan	Referenced
I	e) Public Information Strategies		i) Police & Other	
I	to be used	Referenced	Émergency Services	Referenced

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Kentucky Transportation Cabinet Division of Highway Design TRAFFIC MANAGEMENT PLAN

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2) Temporary Traffic Control Plan (Section 1) Phase I (A & B)				
Exposure Control Measures		Positive Protection Measures		
a) Is Road Closure Allowed Type: **	Referenced	a) Address Drop Off Protection Criteria	Referenced	
b) Detour Conditions	n/a	b) Temporary Barrier Requirements	n/a	
c) Working Hour Restrictions	Referenced	c) Evaluation of Existing Guardrail Conditions	n/a	
d) Holiday or Special Event Work Restrictions	Referenced	d) Address Temporary Drainage	n/a	
e) Evaluation of Intersection LOS	n/a	Uniformed Law Enforcement Officers	n/a	
f) Evaluation of Queue Lengths	n/a	Payment for Traffic Control*		
g) Evaluation of User Costs and Incentives/Disincentives	Referenced	a) Method of Project Bidding	n/a	
h) Address Pedestrians, Bikes, Mass Transit	n/a	b) Special Notes	n/a	
Work Vehicles and Equipment	Referenced	*Payment for traffic control items accordance with the Kentucky De Highways Standard Specifications f Bridge Construction	epartment of	
Comments: • ** See attached Traffic Control	Plan Sheets.			

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Kentucky Transportation Cabinet **Division of Highway Design** TRAFFIC MANAGEMENT PLAN

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No 5 0000 00

Item No. <u>5-8203.00</u>				
2) Temporary Traffic Control Plan (Section 1)				
	Phase	II (A & B)		
Exposure Control Measures		Positive Protection Measures		
a) Is Road Closure Allowed Type: **	Referenced	a) Address Drop Off Protection Criteria	Referenced	
b) Detour Conditions	n/a	b) Temporary Barrier Requirements	n/a	
c) Working Hour Restrictions	Referenced	c) Evaluation of Existing Guardrail Conditions	n/a	
d) Holiday or Special Event Work Restrictions	Referenced	d) Address Temporary Drainage	n/a	
e) Evaluation of Intersection LOS	n/a	Uniformed Law Enforcement Officers	n/a	
f) Evaluation of Queue Lengths	n/a	Payment for Traffic Control*		
g) Evaluation of User Costs and Incentives/Disincentives	Referenced	a) Method of Project Bidding	n/a	
h) Address Pedestrians, Bikes, Mass Transit	n/a	b) Special Notes	n/a	
Work Vehicles and Equipment	Referenced	*Payment for traffic control items accordance with the Kentucky De Highways Standard Specifications f Bridge Construction	epartment of	

Comments:

- ** See attached Traffic Control Plan sheets.
- Entrances to remain open at all times.

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Kentucky Transportation Cabinet Division of Highway Design TRAFFIC MANAGEMENT PLAN

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2) Temporary Traffic Control Plan (Section 1) Phase III				
Exposure Control Measures		Positive Protection Measures		
a) Is Road Closure Allowed Type: **	Referenced	a) Address Drop Off Protection Criteria	Referenced	
b) Detour Conditions	n/a	b) Temporary Barrier Requirements	n/a	
c) Working Hour Restrictions	Referenced	c) Evaluation of Existing Guardrail Conditions	n/a	
d) Holiday or Special Event Work Restrictions	Referenced	d) Address Temporary Drainage	n/a	
e) Evaluation of Intersection LOS	n/a	Uniformed Law Enforcement Officers	n/a	
f) Evaluation of Queue Lengths	n/a	Payment for Traffic Control*		
g) Evaluation of User Costs and Incentives/Disincentives	Referenced	a) Method of Project Bidding	n/a	
h) Address Pedestrians, Bikes, Mass Transit	n/a	b) Special Notes	n/a	
Work Vehicles and Equipment	Referenced	*Payment for traffic control items accordance with the Kentucky De Highways Standard Specifications f Bridge Construction	epartment of	
Comments:				

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Kentucky Transportation Cabinet Division of Highway Design TRAFFIC MANAGEMENT PLAN

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2) Temporary Traffic Control Plan (Section 1) Phase IV				
Exposure Control Measures		Positive Protection Measures		
a) Is Road Closure Allowed Type: **	Referenced	a) Address Drop Off Protection Criteria	Referenced	
b) Detour Conditions	n/a	b) Temporary Barrier Requirements	n/a	
c) Working Hour Restrictions	Referenced	c) Evaluation of Existing Guardrail Conditions	n/a	
d) Holiday or Special Event Work Restrictions	Referenced	d) Address Temporary Drainage	n/a	
e) Evaluation of Intersection LOS	n/a	Uniformed Law Enforcement Officers	n/a	
f) Evaluation of Queue Lengths	n/a	Payment for Traffic Control*		
g) Evaluation of User Costs and Incentives/Disincentives	Referenced	a) Method of Project Bidding	n/a	
h) Address Pedestrians, Bikes, Mass Transit	n/a	b) Special Notes	n/a	
Work Vehicles and Equipment	Referenced	*Payment for traffic control items accordance with the Kentucky De Highways Standard Specifications f Bridge Construction	epartment of	
Comments:				

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Kentucky Transportation Cabinet Division of Highway Design TRAFFIC MANAGEMENT PLAN

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2) Temporary Traffic Control Plan (Section 2) Phase I				
	Positive Protection Measures			
Referenced	a) Address Drop Off Protection Criteria	Referenced		
n/a	b) Temporary Barrier Requirements	n/a		
Referenced	c) Evaluation of Existing Guardrail Conditions	n/a		
Referenced	d) Address Temporary Drainage	n/a		
n/a	Uniformed Law Enforcement Officers	n/a		
n/a	Payment for Traffic Control*			
Referenced	a) Method of Project Bidding	n/a		
n/a	b) Special Notes	n/a		
Referenced	accordance with the Kentucky De Highways Standard Specifications for traffic control items accordance with the Kentucky De Highways Standard Specifications for traffic control items	epartment of		
Dian Chasta				
Plan Sneets.				
	rol Plan (Se Phenolement Plan	Positive Protection Measures Referenced a) Address Drop Off Protection Criteria n/a b) Temporary Barrier Requirements c) Evaluation of Existing Guardrail Conditions Referenced d) Address Temporary Drainage Uniformed Law Enforcement Officers n/a Payment for Traffic Control* Referenced a) Method of Project Bidding n/a b) Special Notes *Payment for traffic control items accordance with the Kentucky De Highways Standard Specifications for Bridge Construction		

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Kentucky Transportation Cabinet Division of Highway Design TRAFFIC MANAGEMENT PLAN

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Item No. <u>5-8203.00</u>

2) Temporary Traffic Control Plan (Section 2) Phase II				
Exposure Control Measures		Positive Protection Measures		
a) Is Road Closure Allowed Type: **	Referenced	a) Address Drop Off Protection Criteria	Referenced	
b) Detour Conditions	n/a	b) Temporary Barrier Requirements	n/a	
c) Working Hour Restrictions	Referenced	c) Evaluation of Existing Guardrail Conditions	n/a	
d) Holiday or Special Event Work Restrictions	Referenced	d) Address Temporary Drainage	n/a	
e) Evaluation of Intersection LOS	n/a	Uniformed Law Enforcement Officers	n/a	
f) Evaluation of Queue Lengths	n/a	Payment for Traffic Control*		
g) Evaluation of User Costs and Incentives/Disincentives	Referenced	a) Method of Project Bidding	n/a	
h) Address Pedestrians, Bikes, Mass Transit	n/a	b) Special Notes	n/a	
Work Vehicles and Equipment	Referenced	*Payment for traffic control items accordance with the Kentucky De Highways Standard Specifications f Bridge Construction	epartment of	
d) Holiday or Special Event Work Restrictions e) Evaluation of Intersection LOS f) Evaluation of Queue Lengths g) Evaluation of User Costs and Incentives/Disincentives h) Address Pedestrians, Bikes, Mass Transit Work Vehicles and	Referenced n/a n/a Referenced n/a	d) Address Temporary Drainage Uniformed Law Enforcement Officers Payment for Traffic Control* a) Method of Project Bidding b) Special Notes *Payment for traffic control items accordance with the Kentucky De Highways Standard Specifications for traffic control items	n/a n/a n/a n/a shall be epartment	

Comments:

- ** See attached Traffic Control Plan sheets.
- Entrances to remain open at all times.

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2) Temporary Traffic Control Plan (Section 2) Phase III				
Exposure Control Measures		Positive Protection Measures		
a) Is Road Closure Allowed Type: **	Referenced	a) Address Drop Off Protection Criteria	Referenced	
b) Detour Conditions	n/a	b) Temporary Barrier Requirements	n/a	
c) Working Hour Restrictions	Referenced	c) Evaluation of Existing Guardrail Conditions	n/a	
d) Holiday or Special Event Work Restrictions	Referenced	d) Address Temporary Drainage	n/a	
e) Evaluation of Intersection LOS	n/a	Uniformed Law Enforcement Officers	n/a	
f) Evaluation of Queue Lengths	n/a	Payment for Traffic Control*		
g) Evaluation of User Costs and Incentives/Disincentives	Referenced	a) Method of Project Bidding	n/a	
h) Address Pedestrians, Bikes, Mass Transit	n/a	b) Special Notes	n/a	
Work Vehicles and Equipment	Referenced	*Payment for traffic control items accordance with the Kentucky De Highways Standard Specifications f Bridge Construction	epartment of	
Comments:				

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2) Temporary Traffic Control Plan (Section 3) Phase I				
Exposure Control Measures		Positive Protection Measures		
a) Is Road Closure Allowed Type: **	Referenced	a) Address Drop Off Protection Criteria	Referenced	
b) Detour Conditions	n/a	b) Temporary Barrier Requirements	n/a	
c) Working Hour Restrictions	Referenced	c) Evaluation of Existing Guardrail Conditions	n/a	
d) Holiday or Special Event Work Restrictions	Referenced	d) Address Temporary Drainage	n/a	
e) Evaluation of Intersection LOS	n/a	Uniformed Law Enforcement Officers	n/a	
f) Evaluation of Queue Lengths	n/a	Payment for Traffic Control*		
g) Evaluation of User Costs and Incentives/Disincentives	Referenced	a) Method of Project Bidding	n/a	
h) Address Pedestrians, Bikes, Mass Transit	n/a	b) Special Notes	n/a	
Work Vehicles and Equipment	Referenced	*Payment for traffic control items accordance with the Kentucky De Highways Standard Specifications to Bridge Construction	epartment of	
Comments: • ** See attached Traffic Control Plan Sheets.				

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Item No. <u>5-8203.00</u>

2) Temporary Traffic Control Plan (Section 3)				
Phase II				
Exposure Control Mesoures		Positive Protection Measures		
Exposure Control Measures		Positive Protection Measures		
a) Is Road Closure Allowed Type: **	Referenced	a) Address Drop Off Protection Criteria	Referenced	
b) Detour Conditions	n/a	b) Temporary Barrier Requirements	n/a	
c) Working Hour Restrictions	Referenced	c) Evaluation of Existing Guardrail Conditions	n/a	
d) Holiday or Special Event Work Restrictions	Referenced	d) Address Temporary Drainage	n/a	
e) Evaluation of Intersection LOS	n/a	Uniformed Law Enforcement Officers	n/a	
f) Evaluation of Queue Lengths	n/a	Payment for Traffic Control*		
g) Evaluation of User Costs and Incentives/Disincentives	Referenced	a) Method of Project Bidding	n/a	
h) Address Pedestrians, Bikes, Mass Transit	n/a	b) Special Notes	n/a	
Work Vehicles and Equipment	3			

Comments:

- ** See attached Traffic Control Plan sheets.
- Entrances to remain open at all times.

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2) Temporary Traffic Control Plan (Section 3) Phase III				
Exposure Control Measures		Positive Protection Measures		
a) Is Road Closure Allowed Type: **	Referenced	a) Address Drop Off Protection Criteria	Referenced	
b) Detour Conditions	n/a	b) Temporary Barrier Requirements	n/a	
c) Working Hour Restrictions	Referenced	c) Evaluation of Existing Guardrail Conditions	n/a	
d) Holiday or Special Event Work Restrictions	Referenced	d) Address Temporary Drainage	n/a	
e) Evaluation of Intersection LOS	n/a	Uniformed Law Enforcement Officers	n/a	
f) Evaluation of Queue Lengths	n/a	Payment for Traffic Control*		
g) Evaluation of User Costs and Incentives/Disincentives	Referenced	a) Method of Project Bidding	n/a	
h) Address Pedestrians, Bikes, Mass Transit	n/a	b) Special Notes	n/a	
Work Vehicles and Equipment	Referenced	*Payment for traffic control items accordance with the Kentucky De Highways Standard Specifications f Bridge Construction	epartment of	
Comments:				

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Kentucky Transportation Cabinet Division of Highway Design TRAFFIC MANAGEMENT PLAN

Item No. <u>5-8203.00</u>

APPROVAL:	
Project Manager	Date
Project Delivery and Preservation Manager	Date
Engineering Support Manager	Date
FHWA Representative	Date

Revisions to the TMP require review/approval by the signatories.

TRAFFIC CONTROL PLAN KYTC Item No. 5-8203.00

MAINTENANCE OF TRAFFIC GENERAL NOTES

TRAFFIC CONTROL GENERAL:

Except as provided herein, maintain and control traffic in accordance with the Manual on Uniform Traffic Control Devices, Standard Specifications and Standard Drawings, current editions.

The Contractor shall maintain a two-lane traveled way with a minimum lane width of 10 feet. However, during working hours one-way traffic may be allowed at the discretion of the Engineer, provided adequate signing and flagpersons are at the location. Lane closures will not be permitted Monday through Friday between the hours of 7:00 - 9:00 a.m. and 4:00 - 6:00 p.m.

Except for the roadway and traffic control bid items listed, all items of work necessary to maintain and control traffic during construction will be paid at the lump sum bid price to "Maintain and Control Traffic" as set forth in the current Standard Specifications for Road and Bridge Construction unless otherwise provided in these notes. The lump sum bid to "Maintain and Control Traffic" shall also include, but is not limited to, the following items:

- A. Labor and materials necessary for construction and maintenance of traffic control devices and markings.
- B. All Flagpersons and traffic control devices such as, but not limited to, flashers, signs, barricades, vertical panels, plastic barrels (steel barrels will not be permitted) and cones necessary for the control and protection of vehicular and pedestrian traffic as specified in these notes, the plans, the Manual on Uniform Traffic Control Devices, or the Engineer.

Any temporary traffic control items, devices, materials, and incidentals shall remain the property of the Contractor, unless otherwise addressed, when no longer needed.

The Contractor shall completely cover any signs, either existing, permanent, or temporary which do not properly apply to the current traffic phasing and shall maintain the covering until the signs are applicable or are removed.

In general, all traffic control devices shall be placed starting and proceeding in the direction of the flow of traffic and removed starting and proceeding in the direction opposite to the flow of traffic.

The Engineer and the Contractor, or their authorized representatives, shall review

the signing before traffic is allowed to use nay lane closures, crossovers, or diversions. All signing shall be approved by the Engineer before work can be started by the Contractor.

If the Contractor desires to deviate from the traffic control scheme and construction schedule outlined in these plans and this proposal, he shall prepare an alternate plan and present it in writing to the Engineer. This alternate plan can be used only after review and approval of the Divisions of Traffic, Design and Construction, and the Federal Highway Administration where applicable.

If traffic should be stopped due to construction operations and an emergency vehicle on an official emergency run arrives on the scene, the Contractor shall make provisions for the passage of that vehicle as quickly as possible.

Any roadways that are anticipated to be in use for a period of two consecutive days (48 hours) or more for the maintenance of traffic shall be paved with bituminous surfacing materials as directed by the engineer. The Contractor will be assessed damages of \$5000/day for the time after 2 days that the roadway is not paved unless approved by the engineer. Payment shall be in accordance with the appropriate bid items for the type of bituminous material selected. Removal of such for continuing grade and drain work or any other permanent work item that may be in conflict with the temporary bituminous surfacing shall be incidental.

During construction, if the Contractor moves equipment, material, etc. back and forth across public roadways that remain open, special provisions may be required by the Engineer. This may include but is not limited to, plating of existing pavements, flaggers, special signing, or lighting to emphasize the construction equipment crossing the roadway.

Local access shall be maintained during all construction phases.

The speed limit in the work area will be reduced by 10 MPH from the posted speed and double fines for work zone speeding violations may be established. The extent of these areas within the project limits will be restricted to the proximity of actual work areas as determined by the engineer.

PAVEMENT EDGE DROP-OFFS:

A pavement edge that traffic is expected to cross in a lane change situation should not have an elevation difference greater than 1-1/4 inches.

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

- Less than two inches no protection required. Warning signs should be placed in advance and throughout the drop-off area.
- Two to four inches plastic drums, vertical panels or barricades every 100

feet on tangent sections for speeds of 50 MPH or greater. Cones may be used in place of plastic drums, panels and barricades during daylight hours. For tangent sections with speeds less than 50 MPH and for curves, devices should be placed every 50 feet. Spacing of devices on tapered sections should be in accordance with the Manual on Uniform Traffic Control Devices (MUTCD), current addition.

• Greater than four inches – positive separation or wedge with 3:1 or flatter slope needed. If there is five feet or more distance between the edge of the pavement and drop-offs then drums, panels, or barricades may be used. If the drop-off is greater than 12 inches, positive separation is strongly encouraged. If concrete barricades are used special reflective devices or steady burn lights should be used for overnight installations.

For temporary conditions, drop-offs greater than 4 inches may be protected with plastic barrels, vertical panels or barricades for short distances during daylight hours while work is being done in the drop-off area.

Lesser treatments than those described above may be considered for low-volume local streets.

Payment will be allowed for the C.S.B used for wedging.

REMOVAL OF PAVEMENT MARKINGS:

The Contractor shall remove all pavement markings that do not conform to the traffic operation in use. In areas where the marking will conform to the final marking scheme or for other reasons will not be removed, markings shall be of a permanent type pavement marking material. All temporary markings which must be subsequently removed from the ultimate pavement shall be an approved temporary striping paint. Temporary striping paint shall be measured in linear feet for payment.

Markings on existing or temporary pavement shall be removed by water blasting to the satisfaction of the Engineer and shall be considered incidental to the bid item "Maintain and Control Traffic." Painting of existing markings with bituminous or other materials to obliterate the markings shall not be allowed.

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 work and maintained in like new condition until completion of the work.

Except as provided herein, unless otherwise or approved by the Engineer, maintenance and control of traffic during construction shall be in accordance with Section 112, applicable Standard Drawings, and the Manual on Uniform Traffic Control Devices (MUTCD), current editions.

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

CONTRACTOR VEHICLES:

The Contractor's vehicles shall always move with and not against the flow of traffic. Vehicles shall enter and leave work areas in a manner which will not interfere with normal traffic. Vehicles shall not park or stop except within work areas designated by the Engineer.

VARIABLE MESSAGE SIGNS:

Variable message signs shall be placed at locations approved by the engineer. Upon project completion, the variable message signs shall remain the property of the Kentucky Transportation Cabinet.

Phase V:

In the final phase, all lane closures and diversions will be removed and the facility will be reopened to traffic. Final surfacing operations will be completed for the entire project. This work will be done under traffic. Flagpersons and/or temporary lane closures may be necessary to complete final surfacing operations.

SPECIAL NOTE FOR FIXED COMPLETION DATE:

Construction, Section 108.09, the contractor shall be assessed liquidated damages of \$2,000 for each calendar day that the Contractor has not completed his work by the fixed completion date of June 30, 2025. There will be no limitations of the liquidated damages. Contrary to the current edition of the Standard Specifications for Road and Bridge Construction, Section 108.09, liquidated damages shall be charged even if work on the controlling item of operation is prohibited by seasonal limitations, including winter months. Liquidated damages shall also be charged during the months of January through March if the road closure remains in place longer than the calendar days allocated.

WORK ZONE ACCESS PLAN:

The contractor is required to develop a work zone access plan specifying entry and exit access locations for all work zones on the project. The Contractor shall submit work zone access details to the Engineer.

The work zone access plan shall be submitted for review and approval to KYTC officials at the pre-construction conference.

PROJECT PHASING AND CONSTRUCTION PROCEDURES:

The specified completion date for this project is June 30, 2025.

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

Nov. 23-26, 2023 Thanksgiving Dec. 22-25, 2023 Christmas

Dec. 30, 2023 - Jan. 1, 2024 New Year's Day

March 30-31, 2024 Easter

May 25-27, 2024 Memorial Day July 4, 2024 Independence Day

 Aug. 31 - Sept. 2, 2024
 Labor Day

 Nov. 27-30, 2024
 Thanksgiving

 Dec. 23-26, 2024
 Christmas

Dec. 31, 2024 - Jan. 1, 2025 New Year's Day

April 19-20, 2025 Easter

May 24-26, 2025 Memorial Day July 4-6, 2025 Independence Day

During allowable working hours, single lane closures will be allowed when required by the actual work in progress. Unless otherwise specified by the Engineer, the clear lane widths shall be 10 feet on KY 1819. Provide additional traffic control or flaggers as directed by the Engineer.

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 school bus as quickly as possible.

Night work is not allowed on this project.

LIQUIDATED DAMAGES:

Liquidated Damages in the following amounts will be assessed for each hour or part of an hour that a lane closure remains in place during periods prohibited by the Traffic Control Plan:

1st Hour \$500 2nd Hour \$3,000 Each hour thereafter \$10,000

Contrary to KYTC Standard Specifications Section 108.09, Liquidated Damages will be assessed regardless of whether seasonal limitations prohibit the Contractor from performing work on the controlling operation.

All Liquidated Damages will be applied accumulatively.

All other applicable portions of KYTC Standard Specifications Section 108 apply.

LANE & SHOULDER CLOSURES:

Lane closures longer than 24 hours will not be allowed. Do not leave short term lane

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closures in place during non-working hours. The lengths of the lane closures shall be only that needed for actual operations in accordance with the phasing specified herein, or as directed by the Engineer. The operations include but are not limited to placement of traffic control devices, construction of the overhead signal, relocation of traffic signal heads, installation of detection system, etc. A minimum of one lane must be kept open during all times with a minimum width of 10' unless overhead work is being done. In that instance, traffic shall not be stopped for more than 15 minutes at a time.

Prior to beginning construction, provide for approval by the Engineer a written plan for maintaining lane and shoulder closures during construction. Specifically identify locations where lane closures shall be in place and the anticipated duration of the closures. Include plans for signing required to implement and maintain the lane and shoulder closures. Channelization devices for lanes closures shall be drums unless otherwise specified in the Maintenance of Traffic Plans.

ENTRANCE CONSTRUCTION:

The Contractor will be responsible for providing access to all entrances during construction of the roadway.

SIGNS:

The Engineer may require additional traffic control signs in addition to normal lane closure signing detailed on the Standard Drawings. Additional signs needed for lane closures may include, but are not limited to; FLAGGERS SLOWED/STOPPED TRAFFIC AHEAD.

Signage for reduced speed limits shall be furnished, relocated, and maintained by the Contractor. 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 shall be incidental to Maintain and Control Traffic. Individual 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 signs directed by the engineer to be replaced due to poor condition or reflectivity will not be measured for payment.

Remove and relocate permanent traffic signs as directed by the Engineer.

PORTABLE CHANGEABLE MESSAGE SIGNS:

Provide a minimum of four Portable Changeable Message Signs in advance of or on the project at locations to be determined by the Engineer. The Engineer will designate the messages to be provided. Operate the Portable Changeable Message Signs as directed by the Engineer. The locations designated for the Portable Changeable Message Signs may vary as the work progresses. The Portable Changeable Message Signs shall be new, in like-new condition or as approved by the Resident Engineer. In the event of damage or mechanical/electrical failure,

repair or replace the Portable Changeable Message Sign within 24 hours. Replacement for damaged Portable Changeable Message Sign directed by the Engineer to be replaced due to poor condition or readability will not be measured for payment. The Department will measure for payment the maximum number of signs in concurrent use at the same time on a single day during the contract. Individual 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.

TRAFFIC COORDINATOR:

Designate an employee to be traffic coordinator during any work period when shoulder and/or lane closure is in place, the traffic coordinator shall arrange for personnel to be present on the project at all times to inspect the traffic control (at least once every two hours during active operations and at any time a lane closure is in effect) and to maintain the signing and devices. The personnel shall have access on the project to a radio or telephone to be used in case of emergencies or accidents. The traffic coordinator shall report all incidents throughout the work zone to the engineer. Furnish the engineer with the name and telephone number where the traffic coordinator can be contacted at all times.

Be advised that other projects may be in progress within or in the near vicinity of this project. The traffic control of those projects may affect this project and the traffic control of this project may affect those projects. Coordinate the work of this project with the work of the other contractors. In case of conflict, the Engineer will determine the relative priority of work phasing on the various projects.

TRAFFIC CONTROL PLAN KYTC Item No. 5-8203.00

PHASE CONSTRUCTION NOTES

SECTION 1

PHASE I (MOT Sheets R33 – R34)

Maintenance of Traffic (MOT)

Maintain traffic on existing Billtown Road, Easum Road, and Lovers Lane. Maintain local access at all times.

Construction

Phase 1A

Rt. Sta. 6+00 to Rt. Easum Rd. Sta. 51+40, construct grading work. Construct cross drains at Sta. 8+25 and Easum Rd. Sta. 50+47 (including an additional 23 feet of temporary pipe at inlet end) and grade existing ditch to drain. Safeload existing Billtown Road and Easum Road cross drains. Construct as much pavement structure for widening as possible.

Phase 1B

Lt. Sta. 6+00 to Lt. Sta. 20+00 construct grade and drain work and as much pavement structure construction for widening as possible. To the extent possible, construct grade, drain and pavement work for proposed Lovers Lane

Lt. Sta. 21+60+/- to Lt. Sta. 33+25, construct grade and drain work. Construct concrete entrances. Construct grading on Frontage Road as shown. Construct cross drain at Sta. 23+65 and storm sewer system between Rt. Sta. 22+60 and Rt. Sta. 24+60, tying to existing ditch.

PHASE II (MOT Sheets R35 – R36)

Maintenance of Traffic (MOT)

Maintain traffic on existing Billtown Road, Easum Road, and Lovers Lane. Maintain local access at all times.

Construction

Rt. Sta. 9+40+/- to Rt. Sta. 20+00, construct grade and drain work and widening pavement structure to the extent possible.

Phase 2A

Lt. Sta. 21+80+/- to Lt. Sta. 33+25, construct pavement widening structure to the

extent possible. Construct grade, drain and pavement widening structure to the extent possible between Rt. Sta. 20+00 and Rt. Sta. 23+40.

Phase 2B

Construct grade, drain and pavement widening structure to the extent possible between Rt. Sta. 23+40 and Rt. Sta. 33+63.

PHASE III (MOT Sheets R37 – R38)

Maintenance of Traffic (MOT)

Maintain traffic on existing Billtown Road, Easum Road, and Lovers Lane. Maintain local access at all times.

Construction

Construct pavement on Billtown Road, realigned Easum Road and realigned Lovers Lane.

Construct pavement on Billtown Road and Mary Dell Drive.

PHASE IV (MOT Sheets R39 – R40)

Maintenance of Traffic (MOT)

Maintain traffic on Billtown Road, realigned Easum Road and realigned Lovers Lane. Maintain local access at all times.

Construction

Construct remaining grade, drain and surfacing work on Easum Road Frontage Road and Frontage Road Tie. Complete all remaining grade and drain construction.

Lt. Sta. 20+00 to Lt. Sta. 21+80 +/-, construct grade, drain and pavement widening. Construct remaining grade, drain and surfacing of Frontage Road and Frontage Road Tie. Complete any remaining grade and drain construction items.

SECTION 2

PHASE I (MOT Sheets R19)

Maintenance of Traffic (MOT)

Maintain traffic on existing Billtown Road, Michael Edward Drive and Fairground Road. Maintain local access at all times.

Construction

Lt. Sta. 37+50 to Lt. Sta. 51+20 and Fairground Road Rt. Sta. 46+60 to Rt. Sta. 49+73 +/-, construct grade and drain work and pavement widening structure to the extent possible.

PHASE II (MOT Sheets R20)

Maintenance of Traffic (MOT)

Maintain traffic on existing Billtown Road, Michael Edward Drive and Fairground Road. Maintain local access at all times.

Construction

Rt. Sta. 37+50 to Rt. Sta. 51+20, construct grade and drain work and pavement widening structure to the extent possible.

PHASE III (MOT Sheets R21)

Maintenance of Traffic (MOT)

Maintain traffic on existing Billtown Road, Michael Edward Drive and Fairground Road. Maintain local access at all times.

Construction

Billtown Road Sta. 37+50 - Sta. 51+20, Michael Edward Drive and Fairground Road, construct paving operations up to final surface course.

SECTION 3

PHASE I (MOT Sheets R23)

Maintenance of Traffic (MOT)

Maintain traffic on existing Billtown Road, Vintage Creek Drive and Colonnades Drive. Maintain local access at all times.

Construction

Rt. Sta. 54+00 to Rt. Sta. 69+40, construct grade and drain work and pavement widening structure to the extent possible. Construct cross drain at Sta. 55+14 along with ditch and entrance construction along Shady Acres Lane.

PHASE II (MOT Sheets R24)

Maintenance of Traffic (MOT)

Maintain traffic on existing Billtown Road, Michael Edward Drive and Fairground

Road. Maintain local access at all times.

Construction

Lt. Sta. 54+00 to Rt. Sta. 69+40 and Colonnades Drive Rt. Sta. 49+32 - Rt. Sta. 49+80 +/-, construct grade and drain work and pavement widening structure to the extent possible

PHASE III (MOT Sheets R25)

Maintenance of Traffic (MOT)

Maintain traffic on existing Billtown Road, Michael Edward Drive and Fairground Road. Maintain local access at all times.

Construction

Construct remaining pavement structure up to final surface course.

FINAL CONSTRUCTION

Any final construction operations not completed in the above-mentioned construction phases, including but not limited to final striping, overhead signals, MOT removal, soil stabilization and final clean-up may be constructed using short term lane/shoulder closures or flaggers as directed by the Engineer.

JEFFERSON COUNTY Contract ID: 231109 056GR23D009 Page 75 of 149 SHEET NO. R32 CONSTRUCTION PHASING NOTES 5-8203.00 ITEM NO. SECT10N COUNTY OF JEFFERSON In the final places, all age locatives and adversalors will be removed and the facility will be recognised for the entire project. This work will be completed for the entire project. This work will be dome under infall, final surfacing operations and/or temporary lane closures may be necessary to complete final surfacing operations. 2 to 4 Inches - Place plastic barrels, vertical panels or barricades every 100 feet on nary angent sections for speeds of 50 miles per hour or greater. Conse may be used in place of plastic barrels, panels, and poricades adming daylight hours. For hangent sections with speed less than 50 miles per hour and curves, elevices solution to in accordance with the Manual on Inform Infific Control Bevices. Creater than 4 index - Positive separation or wedge with flor finite slope and drop-slope mediate it seems to be considered if there is feet a more drop-slope in the considered in the considered in the consideration of the consideration of the consideration is should be used. If the drop-off is prefixed to the consideration is should be used that concept is buricated are used, reflective separation is strongly encouraged. It concerts buricates are used, reflective devices or steady burn lights should be used the coverage of the coverage Dee Contractor shall ensure all operations that contractor shall ensure the find marking scheme of or other feed marking scheme for other reasons will not be removed, marking will conform to the find marking scheme covement marking marking marking scheme powement marking markin Povement adgas that traffic is not expected to cross, except accidentally, should be treated as follows: For temporary conditions, drop-offs greater than 4 inches may be protected with abasic barrels, vertical panels or barricodes for short distances during daylight hours wille work is being done in the drop-off drea. A pavement edge that traffic is expected to cross in a lane change situation should not have an elevation difference greater than I-1/4 inches. La Confractoria's validies shall equays move with and not against a flow of rroffic. Validies shall enter and leave work areas in a manner which will not be entactous to or interfere with mored froffic. Validies shall not park or stop except within work areas lastiguated by the Engineer. Activities on existing or remocracy provement stable be removed by welf-er blossing to the softistication of the Engineer and shall be considered incidental to the bid item Markain and Control Tordfic. Softling of existing markings with bituminous or other materials to oblitecte the markings shall not be allowed. Variable Message Signs shall be placed at locations approved by the Engineer. Upon cooking to the Variable message signs shall remain property of the Kentucky Transportation (abin-th. Warning signs should be placed Lesser treatments than those described above may be considered for low-volume local streets. Payment will be allowed for the C.S.B. used for wedging. Local access shall be maintained during all construction Less than 2 inches - No protection required, in advance and throughout the drop-off area. Difference in Elevation for Travel Lanes Removal of Pavement Markings \mathbb{Z} Variable Message Signs Pavement Drop-Off 9 $\overline{\Box}$ MANAGEMENT TRAFFIC MANAGEMENT PLAN NOTES \Box MAINTENANC 7. 5. ∞. 4 9 5. RAFFI May roadways that are anticipated to be in use for a period of two consecutive days of your roadways that are for the inhibition of it is not been assessed damping and school of the for the time after 2 days that the professor is not powed unless approved by the Engineer. Progress to session dampings of \$5000 / 40 for the time after 2 days that the roadway is not powed unless approved by the Engineer. Payment shall be in accordance with the appropriate bid thems for the type of bituminus permanent work them that may be in conflict with the temporary bituminates surfacing shall be indebrid. Ducing construction, if the Contraction moses againment, anatorial, etc. bost and factorial construction and produces public roadways that remain open, assetlip provisions may be required by the Engineer. This may include but it is not limited to, politing of existing powerints, flaggers, special algoring, or lighting to emphasize the construction equipment crossing the roadway. The Engineer and the Contractor, or their authorized representatives, stabilizable with eighning before traffic is allowed to use and yone alsures, crossovers, or diversions. All signing shall be approved by the Engineer before work can be started by the Contractor. 0 R to another the roadiacy and traffic controlled thems listed, all letters of work necessary. The montain and control traffic will be pold for at the lump sum lad price to Wahrtain and control fraffic as set forth in the current Standard Specifications for Road and Bridge Construction unless otherwise in provided for in these mores. The lump sum bid to Wahrtain and control Traffic shall also include, but is not limited to, the following Items and operations: temporary traffic control Items, devices, materials, and incidentals shall remain property of the Contractor, unless otherwise addressed, when no longer needed, If the Contractor desires to deviate from the traffic control scheme and construction schedule outlined in these plants and this proposati, as Nibil propore on alternate plant and present it in withing to the Engineer. This difference on alternate plant and present it in withing to the Engineer. This difference on alternate plant and expense of the Divisions of Traffic, bestign and Construction, and the Federal Highway Administration where applicable. The Contractor shall maintain a two-lane traveled way with a minimum lane width or 10 feet. Newers, auching working hancs one-way criftic may be allowed and the discretion of the Engineer, provided adequate signing and flagbersons are at the location. Lane closures will not be permitted Mandacy through Friday between the hours of 1:00 - \$100 a.m. and 4:00 - \$100 p.m. Indipersors on of refeff to control devices such as but not limited to flashers, signs, but not limited to flashers, signs, borricodes, vertical ponels, plastic but of borrels (steel borrels will not be permitted and cones necessary for the control and protection of vehicular and pedestrian fraffic specified in these notes the plans, the Manual on liniform if raffic Control Devices, or by the Engineer. In general, all traffic control devices shall be placed starting and proceeding in the direction of the flow of traffic and removed starting and proceeding in the direction opposite to the flow of traffic. Traffic shall be maintained in accordance with the current editions of the Manual on Uniform Traffic Control Devices, the Strandrad Specifications for Road and Bridge Construction and the Standard Drewings. The Contractor shall completely cover any signs, either existing, permanent or temporary which do not properly apply to the current traffic phosing, and shall maintain the covering until the signs are applicable or are removed. \Box If traffic should be stopped due to construction operations and an emergency vehicle on an official emergency trun arrives on the scene, the Contractor shall make provisions for the passage of that vehicle as quickly as passible. RAF Allobor and materials necessory for construction and maintenance of traffic control devices and markings. ö

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JEFFERSON COUNTY Contract ID: 231109 056GR23D009 Page 76 of 149 SHEET NO. R33 STA. 5+00 TO STA. 20+00 CONSTRUCTION PHASING 5-8203.00 ITEM NO. SECTION COUNTY OF JEFFERSON 05.72+81 Iq 200, SCALE: 1"= 50' PHASE IB: Lt. Sta. 6+00 to Lt. Sta. 20+00 construct grade and drain work and as much pavement structure construction for widening as possible. To the extent possible, costruct grade, drain and pavement work for proposed Lovers Lane. PHASE IA: Rt. Sta. 6+00 - Rt. Easum Rd. Sta. 51+40, construct grading Mork. Construct cross drains at Sta. 8+25 and Easum Rd. Sta. 50+47 (including an additional 23 feet of temporary pipe at inlet end) and grade existing ditch to drain. Safeload existing Biltawn Road and Easum Road cross drains. Construct as much pavement structure for widening as possible. 00+91 Road and Lovers Lane. 5 Easum Maintain traffic on existing Billtown Road, Maintain local access at all times. 9 P.I. STATION 10+27.19 ELA H 18*20*46.25*L†. T = 1240.15* E = 9.72* E = 5.87? Runouff = 44.48* Runouff = 44.48* 61×2401 Iq W.E. 726.1 00+01 80.30+6 PHASE I ш ENANCE PAVEMENT CONSTRUCTION MAINT TRAFFIC FLOW OTHER CONSTRUCTION LEGEND \bot 0 TRAI 0849 9 \perp USER: dmcdoniei DATE PLOTTED: September 26, 2023 FILE NAME: F:/WORK/JEFFERSON CO/PHASE II/DCN/EASUM-LOVERS/0805AMOTIA.DCN Power InRoads v8.11.9.397 E-SHEET NAME:

JEFFERSON COUNTY Contract ID: 231109 056GR23D009 Page 77 of 149 SHEET NO. R34 STA, 20+00 TO STA, 35+00 CONSTRUCTION PHASING 5-8203.00 ITEM NO. COUNTY OF JEFFERSON 9 PC_33-(35,3) SCALE: 1"= 50' PAVEMENT CONSTRUCTION OTHER CONSTRUCTION TRAFFIC FLOW LEGEND 0 0 00 00+08 2 Lt. Sta. 21+60+/- to Lt. Sta. 33+25, construct grade and drain work. Construct concrete entrances. Construct grading on Frontage Road as shown. Construct cross drain at Sta. 23+65 and storm sewer system between Rt. Sta. 22+60 and Rt. Sta. 24+60, tying to existing ditch. Easum Road and Lovers Lane. Maintain traffic on existing Billtown Road, Maintain local access at all times. 42.04 S2+00 69.28+65.69 0 90 MAINTENANCE RAFFIC ONLY USER: dmcdoniei DATE PLOTTED: September 26, 2023 FILE NAME: F:/WORK/JEFFERSON CO/PHASE 11/DGN/EASUM-LOVERS/0805AMOT2A,DGN Power InRoads v8.11.9.397 E-SHEET NAME:

JEFFERSON COUNTY Contract ID: 231109 Page 78 of 149 056GR23D009 SHEET NO. R35 STA. 5+00 TO STA. 20+00 CONSTRUCTION PHASING 5-8203.00 ITEM NO. SECTION COUNTY OF JEFFERSON 05.72+81 Iq 200' SCALE: 1"= 50' 00+91 Maintain traffic on existing Billtown Road, Easum Road and Lovers Lane. Maintain local access at all times. Rt. Sta. 9+40+/- - Rt. Sta. 20+00, construct grade and drain work and widening pavement structure to the extent possible. 60-12+01 Id W.E. 00+01 9 ENANCE OTHER CONSTRUCTION PAVEMENT CONSTRUCTION MAINT TRAFFIC FLOW LEGEND TRAFF 0049 FILE NAME: F:/WORK/JEFFERSON CO/PHASE 11/DGN/EASUM-LOVERS/0805AMOTIB.DGN Power InRoads v8.11.9.397 E-SHEET NAME:

JEFFERSON COUNTY Contract ID: 231109 056GR23D009 Page 79 of 149 SHEET NO. R36 STA. 20+00 TO STA. 35+00 CONSTRUCTION PHASING 5-8203.00 ITEM NO. COUNTY OF JEFFERSON 9 PC 33-(35, 31 SCALE: 1"= 50' PAVEMENT CONSTRUCTION OTHER CONSTRUCTION TRAFFIC FLOW LEGEND 0 0 0 00 00+08 2 PHASE IIA Lt. Sta. 21+80+/- to Lt. Sta. 33+25, construct pavement widening structure to the extent possible. Construct grade, drain and pavement widening structure to the extent possible between Rt. Sta. 20+00 and Rt. Sta. 23+40. Road and Lovers Lane. .00 and pavement widening structure Sta. 23+40 and Rt. Sta. 33+63. Maintain traffic on existing Billtown Maintain local access at all times. 42.04 PHASE IIB Construct grade, drain to the extent possible between Rt. S2≠00 69.28+65.69 0 0 90 MAINTENANCE RAFFIC ONLY USER: dmcdoniei DATE PLOTTED: September 26, 2023 FILE NAME: F:/WORK/JEFFERSON CO/PHASE 11/DGN/EASUM-LOVERS/0805AMOT28,DGN Power InRoads v8.11.9.397 E-SHEET NAME:

JEFFERSON COUNTY Contract ID: 231109 Page 80 of 149 056GR23D009 SHEET NO. R37 STA. 5+00 TO STA. 20+00 CONSTRUCTION PHASING 5-8203.00 ITEM NO. SECTION COUNTY OF JEFFERSON 05.72+81 Iq 200' SCALE: 1"= 50' Maintain traffic on existing Billtown Road, Easum Road and Lovers Lane. Maintain local access at all times. Construct pavement on Billtown Road, realigned Easum Road and realigned Lovers Lane. 60-12+01 Id W.E. 00+01 PHASE III 9 ENANCE OTHER CONSTRUCTION PAVEMENT CONSTRUCTION MAINT TRAFFIC FLOW LEGEND TRAFI 0049 FILE NAME: F:/WORK/JEFFERSON CO/PHASE 11/DGN/EASUM-LOVERS/0805AMOTIC.DGN Power InRoads v8.11.9.397 E-SHEET NAME:

JEFFERSON COUNTY Contract ID: 231109 056GR23D009 Page 81 of 149 SHEET NO. R38 STA, 20+00 TO STA, 35+00 CONSTRUCTION PHASING 5-8203.00 ITEM NO. COUNTY OF JEFFERSON 9 PC_33-(35, 31 200' SCALE: 1"= 50' TRAFFIC FLOW PAVEMENT CONSTRUCTION OTHER CONSTRUCTION LEGEND 00+08 2 Easum Road and Lovers Billtown Road and Mary Dell Drive. Billtown Road, Construct proposed pavement on Maintain traffic on existing Maintain local access at all times. 69.88+bs[9 S2+00 MAINTENANCE RAFFIC ONLY USER: dmcdoniei DATE PLOTTED: September 26, 2023 FILE NAME: F:/WORK/JEFFERSON CO/PHASE 11/DGN/EASUM-LOVERS/0805AMOT2C.DGN Power InRoads v8.11.9.397 E-SHEET NAME:

JEFFERSON COUNTY Contract ID: 231109 Page 82 of 149 056GR23D009 SHEET NO. R39 STA. 5+00 TO STA. 20+00 CONSTRUCTION PHASING 5-8203.00 ITEM NO. SECTION COUNTY OF JEFFERSON 05.72+81 Iq 200' SCALE: 1"= 50' Construct remaining grade, drain and surfacing work on Easum Road, Frontage Road and Frontage Road Tie. Complete all remaining grade and drain construction. 00+91 Maintain traffic on Billtown Road, realigned Easum Road and realigned \Diamond_i Lovers Lane. Maintain local access at all times. 60-12+01 Id W.E. 00+01 PHASE IV 9 ENANCE OTHER CONSTRUCTION PAVEMENT CONSTRUCTION MAINT TRAFFIC FLOW LEGEND TRAI 0849 FOR FILE NAME: F:/WORK/JEFFERSON CO/PHASE 11/DGN/EASUM-LOVERS/0805AMOTID.DGN Power InRoads v8.11.9.397 E-SHEET NAME:

JEFFERSON COUNTY Contract ID: 231109 056GR23D009 Page 83 of 149 SHEET NO. R40 STA. 20+00 TO STA. 35+00 CONSTRUCTION PHASING 5-8203.00 ITEM NO. COUNTY OF JEFFERSON 9 PC_33-(35, 31 SCALE: 1"= 50' PAVEMENT CONSTRUCTION OTHER CONSTRUCTION TRAFFIC FLOW LEGEND 0 0 0 00 00+08 2 Lt. Sta. 20+00 to Lt. Sta. 2!+80 +/-, construct grade, drain and pavement widening. Construct remaining grade, drain and surfacing of Frontage Road and Frontage Road Iie. Complete any remaining grade and drain construction items. Maintain traffic on Billtown Road, realigned Easum Road and realigned Lovers Lane, Maintain local access at all times. 42.04 S2+00 69.28+65.69 0 MAINTENANCE RAFFIC ONLY USER: dmcdoniei DATE PLOTTED: September 26, 2023 FILE NAME: F:/WORK/JEFFERSON CO/PHASE 11/DGN/EASUM-LOVERS/0805AMOT2D.DGN Power InRoads v8.11.9.397 E-SHEET NAME:

JEFFERSON COUNTY 056GR23D009 SHEET NO. R18 5-8203.00 ITEM NO. SECTION COUNTY OF JEFFERSON 2 to 4 inches - Place plastic barrels, vertical panels or barricades every 100 feet on an apage sections for speeds of 50 miles per hour or greater. Cones may be used in place of plastic barrels, and porticades auring daylight hours, and proper is sections with speeds less than 50 miles per hour and curves. A for tangent sections with speeds less than 50 miles ber hour and curves. Povement edges that traffic is not expected to cross, except accidentally, should be treated as follows: The Contractor's validas state lavys move with and not adjust at fine of morporative Velicias shall enter and laove work areas in a manare which will not be napacratus to or interfere vith normal traffic. Vehicles shall not park or stop except within work creat state assignment by the Engineer. Vorioble Message Signs shall be placed at locations approved by the Engineer. Upon pagical completion, the variable message signs shall remain property of the Kentucky fransportation Cabiner. Warning signs should be placed considered for <u>H</u> ш lesser treatments than those described above may be local streets. Payment will be allowed for the C.S.B. used for wedging. \mathbb{Z}

Difference in Elevation for Travel Lanes

MANAGEMENT

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TRAFFIC MANAGEMENT PLAN NOTES

A povement edge that traffic is expected to cross in a lane change situation should not have an elevation difference greater than 1-1/4 inches.

Pavement Drop-Off

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Less than 2 inches - No protection required. In advance and throughout the drop-off area.

Assets for the readough and Intelligent controlled transe listed, all teams of a vork necessory to maintain and control tradition will be paid for at the tume sum bid price to Walntein Control Tradition sets for found in the current Strader's Specifications for Road and Bridge Construction unless otherwise in the current Strader's Specifications for Road and Bridge Construction unless otherwise in the convided for in these notices. The lumps sum bid to Walntein and Control Traditios shall also include, but is not limited to, the following Hems and opportances.

All labor and materials necessary for construction and maintenance of traffic control devices and markings.

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The Contractor shall maintain a two-lane traveled way with a minimum lane width of 10 feet. Newer, during working hours one-way forfic may be allowed off the discretion of the Engineer, provided adequate signing and flagpersons are a location, Lone closures will more be permitted Manday through Friday between the hours of 100 * 9000 a.m. and 400 * 6000 p.m.

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Traffic shall be maintained in accordance with the current editions of the Manual on Uniform Traffic Control Devices, the Strandrd Specifications for Road and Bridge Construction and the Standard Drawings.

Create throat larges. Desitive searchion or waday with \$1.0 or flotter aloos medical, 11 three 16.5 feat or more distance between the adge of powement and deposit, bordes, or bordicates may be used. If the drop-off is and deposit, bordes, or bordicates may be used. If the drop-off is sported than 12 inches, positive separation is strongly encouraged. It concrete than the or used, referred to wearight installation.

For temporary conditions, drop-offs greater than 4 inches may be protected with plastic barrels, vertical panels or barricades for short distances during daylight hours while work is being done in the drop-off area.

Removal of Pavement Markings 4.

The Contractor shall ensure all observation shall be not confrom to the traffic operation in our standard shall be a confident to the find marking shall operation in our standard shall be a confident to the find marking shall on the relationship in the find marking shall be on a perment in the subsequently powerwant marking marking which must be subsequently removed from the ultimate powerment shall be on operveal entemorary striping point, removed y striping point shall be measured in linear feet for polyment.

Muckrigos on existing or transcript portainent ability teneroled by wither blosting to the solitisetion of the Englisher and shall be considered incleared inclearing the bild them Mointain and Control Incrifict. Pointing or existing markings with bituminous or other materials to oblineate the markings shall not be allowed. Contractor's Vehicles ŝ

The Engineer and the Contractor, or their authorized representatives, shall review the signing before traffic is allowed to use any lane alosaures, crossovers, and elversions. All signing shall be approved by the Engineer before work can be starred by the Contractorial.

In general, all traffic control devices shall be placed starting and proceeding in the direction of the flow of traffic and removed starting and proceeding in the direction opposite to the flow of traffic.

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The Contractor shall completely cover any signs, either existing, permanent or temporary which do not properly to the current traffic phosins, and shall mainfall the exvering until the signs are applicable or are removed.

If the Contractor desires to deviate from the traffic control scheme and construction schede outlined in these plans and this probabat, he shallprepare on alternate blan and present it in withing to the Englines. This alternate plan alternate the plan and present it in withing to the Englines. This alternate plan alternate blank and only differ the relevely and approved of the Divisions of Traffic, Design and Construction, and the federal Highway Administration where applicable.

If traffic should be stopped due to construction operations and an emergency wholes on an ortical amergency run arrives on the scene, the Contractor shall make providing from the passage of that vehicle as quickly as possible.

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Variable Message Signs 9

Local access shall be maintained during all construction phases. 17.

Aky recovery that one entitioned to be in use for a period of two conscioutive days of the forest of the conscious of the forest of the forest the confrictor will be assessed adoptions of shooloody materials as directed by the Engineer. The confrictor will be assessed adopting of shooloody for the time offers 2 days that the roadway is not board unless operways by the Engineer Payment shall be in accordance with the copyopath solid intensity of the type of bituminous material selected. Remayed is such for continuing grade and drain work of any other permanent work them that may be in conflict with the temporary bituminous surfacing shall be incidental.

Dubing construction, if the Contraction moves adupment, anatolic, etc., box on distribution construction with the Contraction moves about a conductive that remain open, special provisions may be required by the Engineer. This may include but its not limited to, politing of easiling powerins, flaggers, special signing, or illgiting to emphasize the construction edulment crossing the roadway.

In the first pixes, all loce closures and diversions will be removed and the facility will be recopered to traffic. Find surfacing operations will be completed for the entire project. This work will be done under traffic. Flagbersons and/or temporary lane closures may be necessor; to complete find autricaling operations. Phase V



CONSTRUCTION PHASING NOTES

Contract ID: 231109

Page 84 of 149

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temporary traffic control items, devices, materials, and incidentals shall remain property of the Contractor, unless otherwise addressed, when no longer needed.

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M. Il floaperson and troffic control divelse such as, but not limited To, floabers, afors, borricodes, verifolionels, placetic borries is teles formers will find the permitted and conser necessary for the control and protection of vehicular and pedestrian traffic or specified in these notes; the blanch state Manual control individual pedicines are placed to the pedestrian traffic barrier light control levices, or by the Engineer.

JEFFERSON COUNTY Contract ID: 231109 056GR23D009 Page 85 of 149 SHEET NO. RI9 STA. 36+00 TO STA. 52+00 CONSTRUCTION PHASING 5-8203.00 ITEM NO. SECTION COUNTY OF JEFFERSON 00+09 200' SCALE: 1"= 50' Lt. Sta. 37+50 - Lt. Sta. 51+20 and Fairgrounds Road Rt. Sta. 46+60 - Rt. Sta. 49+73 +/-, construct grade and drain work and pavement widening structure to the extent possible. © 60.02+34 Iq Maintain traffic on existing Billtown Road, Michael Edwards Drive and Fairgrounds Road. Maintain local access at all times. MAINTENANCE RAFFIC ONLY OTHER CONSTRUCTION PAVEMENT CONSTRUCTION TRAFFIC FLOW LEGEND FILE NAME: F:/WORX/JEFFERSON CO/PHASE 11/DGN/FAIRGROUNDS/0805BMOTI,DGN Power InRoads v8.11.9.397 E-SHEET NAME:

JEFFERSON COUNTY Contract ID: 231109 056GR23D009 Page 86 of 149 SHEET NO. R20 STA. 36+00 TO STA. 52+00 CONSTRUCTION PHASING 5-8203.00 ITEM NO. ECT10N COUNTY OF JEFFERSON 200' SCALE: 1"= 50' and Fairgrounds pavement © 60.02+9₽ Iq pup Drive drain work Maintain traffic on existing Billtown Road, Michael Edwards Road. Maintain local access at all times. Rt. Sta. 37+50 - Rt. Sta. 51+20, construct grade and widening structure to the extent possible. MAINTENANCE RAFFIC ONLY OTHER CONSTRUCTION PAVEMENT CONSTRUCTION TRAFFIC FLOW LEGEND FILE NAME: F:/WORK/JEFFERSON CO/PHASE II/DGN/FAIRGROUNDS/0805BMOT2.DGN Power InRoads v8.11.9.397 E-SHEET NAME:

JEFFERSON COUNTY Contract ID: 231109 056GR23D009 Page 87 of 149 SHEET NO. R21 STA. 36+00 TO STA. 52+00 CONSTRUCTION PHASING 5-8203.00 ITEM NO. COUNTY OF JEFFERSON 200' SCALE: 1"= 50' 90.02+34 Iq Maintain traffic on existing Billtown Road, Michael Edwards Drive and Fairgrounds Road. Maintain local access at all times. Billtown Road Sto. 37+50 - Sto. 51+20, Michael Edwards Drive and Fairgrounds Road, construct paving operations up to final surface PHASE III MAINTENANCE RAFFIC ONLY OTHER CONSTRUCTION PAVEMENT CONSTRUCTION TRAFFIC FLOW LEGEND FILE NAME: F:/WORX/JEFFERSON CO/PHASE 11/DCN/FAIRGROUNDS/0805BM013.DCN Power InRoads v8.11.9.397 E-SHEET NAME:

JEFFERSON COUNTY Contract ID: 231109 056GR23D009 Page 88 of 149 SHEET NO. R22 CONSTRUCTION PHASING NOTES 5-8203.00 SECTION ITEM NO. COUNTY OF JEFFERSON In the find pices, all note closures and diversions will be removed and the facility will be recogned to tracklife, find surfacing operations will be completed for the entire project. This work will be done under traffic. Flagbersons and/or temporary lane closures may be necessar, to complete find autricating operations. 2 to 4 inches - Place plastic barrels, vertical panels or barricades every 100 feet on dagest sections for speeds of 50 miles per hour or greater. Cones may be used in place of plastic barries, ponels, and barricades during daylight hours. For tangent sections with speeds less than 50 miles per hour and curves. For tangent sections with speeds less than 50 miles per hour and curves. Greater than d increas. Doublitus easterorlin or weaking with 1st, or district aloae medical. If there is 5 feat or more distance between the adge of powement and drop-cit, borriels, portels, or borricades may be used. If the drop-sif is and drop-cit, borriels, possible, separation is strongly secouraged. If concrete than 12 inches, possible separation is strongly secouraged. If concrete for overright installation. For temporary conditions, drop-offs greater than 4 inches may be protected with plastic barrels, vertical panels or barricades for short distances during daylight hours while wink is being done in the drop-off area. Decorrector shell remove all powerent metrings that do not conficient to the traffic operation in use. In oreas where the marking will confrom to the find marking scheme of or other feature in the removed, markings which must be subsequently becoment more will not be importory markings which must be subsequently permitted marking which must be subsequently removed from the utilitate powerent shall be on operations themorary striping point, removed y striping point, and to be measured in linear feat for popyment. Povement edges that traffic is not expected to cross, except accidentally, should be treated as follows: A povement edge that traffic is expected to cross in a lane change situation should not have an elevation difference greater than 1-1/4 inches. Mickrings on existing or temporary powement shall be removed by without both in the bid item. Working an existing or the significant and shall be considered incidental to the bid item. Working and Control Indiffice. Pointing of waising americas with bituminous or other materials as to piliterate the markings shall not be allowed. Less than 2 inches - No protection required. Warning signs should be placed in advance and throughout the drop-off area. Variable Message Signs shall be placed at locations approved by the Engineer. Upon polot completion, the variable message signs shall remain property of the Kentucky Transportation (abinet. Lesser treatments than those described above may be considered for low-volume local streets. The Contractor's vehicles shoul exps. anote with and not applicate the flow of traffic. Vehicles sholl enter and lakeve work areas in a manner which will not be nogardous to or interfere with normal raffic. Vehicles shall not park or stop is within work areas designated by the Engineer. <u>H</u> Local access shall be maintained during all construction phases. Payment will be allowed for the C.S.B. used for wedging. MAINTENANCE TRAFFIC ON YI Difference in Elevation for Travel Lanes Removal of Pavement Markings \mathbb{Z} Variable Message Signs Contractor's Vehicles Pavement Drop-Off 0 R Phase V ū MANAGEMENT TRAFFIC MANAGEMENT PLAN NOTES 5. 8. 2. <u>.</u> 17. 4. 5.

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The Engineer and the Contractor or their authorized representatives, shall review the signing batine straffic, is allowed the use any lane acoustras, crassovers, or diversibrat signing batine static set is the state of the contractor. It is also that contractor is signing to the Contractor.

In general all traffic control devices shall be placed starting and proceeding in the direction of the flow of traffic and removed starting and proceeding in the direction obsite to the flow of traffic.

The Contractor shall completely cover any signs, either existing, permanent or temporary which do not properly to papy to the current traffic phasing, and shall maintain the covering until the signs are applicable or are removed.

If the Contractor desires to deviote from the traffic control scheme and construction schedule outlined in hese plans and this probasel, he studies propried or an expense. This difference plan and present it in withing to the Engineer. This difference plan control plan can be used any offer review and approved of the Divisions of Traffic, besign and Const be used any offer every Maministration where applicable.

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If freffs should be stopped due to construction operations and an emergency vehicle on an original properties on the series to Contractor and make provisions for the possoge of that vehicle as quickly as possible.

temporary traffic control items, devices, materials, and incidentals shall remain property of the Contractor, unless otherwise addressed, when no longer needed.

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to compare the recording and profile controlled transcribed, all trans or work necessary to manning and control traffic will be paid for at the lump sum bid price to Maintain and Control Traffic safe forth. The current Strandar Specifications for Road and Bridge Construction unless or herwise in the current Strandar Specifications for Road and Bridge Construction unless or herwise hovided for in these notes. The lumps am bid to Waintain and Control Traffic shall also include, but is not limited to, the following Items and operations.

All labor and materials necessary for construction and maintenance of traffic control devices and markings.

The Contractor shall maintain a two-lane traveled way with a minimum lane width or 10 feet. However, during working hours one-way traffic may be allowed at the discretion of the Engineer, provided adequate signing and flaggersons are at the location. Lane locations, to the locations will not be permitted Monday through Friday between the hours of 1100 - 9100 a.m. and 4100 - 6100 p.m.

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Traffic shall be maintained in accordance with the current editions of the Manual on Uniform Traffic Corntol Devices, the Stradard Specifications for Road and ondege Construction and the Stradard Drawings.

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Dubring construction, if the Controction moves equipment, indirectle, etc., book and forther cross bublic roadways that remain open, special provisions may be required by the Engineer. This may include but its not limited to, picting of existing powerments, fingagers, special signing, or lighting to emphysize the construction equipment crossing the roadway.

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JEFFERSON COUNTY Contract ID: 231109 Page 89 of 149 056GR23D009 SHEET NO. R23 STA. 54+00 TO STA. 70+00 CONSTRUCTION PHASING ITEM NO. 5-8203.00 COUNTY OF JEFFERSON 00000 2007 SCALE: 1"= 50' PI 64+43.d3 . STATION 64+43.03 TA = 38*36'35.37*R+. = 225.24' + 433.30' Rt. Sta. 54400 - Rt. Sta. 69440, construct grade and drain work and pavement widening structure to the extent possible. Construct cross draing at Sta. 55+14 along with ditch and entrance construction along Shady Acres Lane. 90 MAINTENANCE RAFFIC ONLY Maintain traffic on existing Billtown Road, Vintage Creek Colonnades Drive. Maintain local access at all times. FOR 00+09 PAVEMENT CONSTRUCTION OTHER CONSTRUCTION TRAFFIC FLOW PHASE I LEGEND 8[] 00499 FILE NAME: F:/WORK/JEFFERSON CO/PHASE 11/DGN/COLONNADES/0805CMOTI,DGN Power InRoads v8.11.9.397 E-SHEET NAME:

JEFFERSON COUNTY Contract ID: 231109 056GR23D009 Page 90 of 149 SHEET NO. R24 STA. 54+00 TO STA. 70+00 CONSTRUCTION PHASING ITEM NO. 5-8203.00 COUNTY OF JEFFERSON 00000 200' SCALE: 1"= 50' PI 64+43.03 . STATION 64+43.03 TA = 38*36'35.37*R+. = 225.24' + 433.30' 90 Maintain traffic on existing Vintage Creek Drive, Colonnades Drive and existing and widenened Billtown Road.. Maintain local access at all times. Lt. Sta. 54+00 - Rt. Sta. 69+40 and Colonnades Drive Rt. Sta. 49+32 - Rt. Sta. 49+80 +/-, construct grade and drain work and pavement widening structure to the extent possible. MAINTENANCE RAFFIC ONLY FOR PAVEMENT CONSTRUCTION OTHER CONSTRUCTION TRAFFIC FLOW LEGEND 8 00499 FILE NAME: F:/WORK/JEFFERSON CO/PHASE 11/DGN/COLONNADES/0805CMOT2.DGN Power InRoads v8.11.9.397 E-SHEET NAME:

JEFFERSON COUNTY Contract ID: 231109 Page 91 of 149 056GR23D009 SHEET NO. R25 STA. 54+00 TO STA. 70+00 CONSTRUCTION PHASING ITEM NO. 5-8203.00 COUNTY OF JEFFERSON 00000 2007 SCALE: 1"= 50" PI 64+43.d3 gi) 90 Construct remaining pavement structure up to final surface course. MAINTENANCE RAFFIC ONLY Maintain traffic on existing Billtown Road, Vintage Creek Colonnades Drive. Maintain local access at all times. FOR PAVEMENT CONSTRUCTION OTHER CONSTRUCTION PHASE III TRAFFIC FLOW LEGEND 8 00499 FILE NAME: F:/WORK/JEFFERSON CO/PHASE II/DGN/COLONNADES/0805CMOT3.DGN

JEFFERSON COUNTY 056GR23D009

> TEAM. **KENTUCKY** TRANSPORTATION CABINET

KENTUCKY TRANSPORTATION CABINET Department of Highways

DIVISION OF RIGHT OF WAY & UTILITIES

RIGHT OF WAY CERTIFICATION

Contract ID: 231109

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Origina		Re-C	ertificatio	n	RIGHT OF WAY CERTIFICATION				
ITEN	1#			COUNTY	PROJE	CT # (STATE)	PROJECT # (FEDERAL)		
5-8203.00		Jefferson		1100 FD04 0)56 7839101R				
PROJECT DESC	PROJECT DESCRIPTION								
RECONSTRUC	RECONSTRUCT BILLTOWN ROAD FROM NORTH OF COLONNADES PLACE TO SOUTH OF EASUM ROAD.								
No Addi	No Additional Right of Way Required								
				he existing right of way. Th	e right of way w	vas acquired in accorda	ance to FHWA regulations		
under the Unifo	rm Relo	cation	Assistance	and Real Property Acquisit	ions Policy Act o	of 1970, as amended. N	lo additional right of way or		
relocation assis	tance w	ere req	uired for th	nis project.					
Condition	n # 1 (<i>A</i>	Additio	nal Right	of Way Required and Clo	eared)				
All necessary rig	tht of w	ay, inclu	uding conti	rol of access rights when ap	plicable, have b	een acquired including	g legal and physical		
							e may be some improvements		
_	_	-		· · · · · · · · · · · · · · · · · · ·	•		physical possession and the		
							n paid or deposited with the		
							ilable to displaced persons		
				ance with the provisions of		WA directive.			
				of Way Required with E					
_					_		he proper execution of the		
							n has not been obtained, but sphysical possession and right		
			-	·		•	. , .		
	_		-	be paid or deposited with	-	•	e court for most parcels. Just		
				of Way Required with E		to AWAID of construct	tion contract		
	-				•	mplete and/or some na	arcels still have occupants. All		
	_			ent housing made available					
							necessary right of way will not		
				s will not be relocated, and,					
			-	ing. KYTC will fully meet all	-	•			
				all acquisitions, relocations					
				orce account construction.	, ,	o .	·		
Total Number of Pa	rcels on P	roject	67	EXCEPTION (S) Parcel #	ANTICI	PATED DATE OF POSSESSIO	N WITH EXPLANATION		
Number of Parcels	That Have	Been Ad	quired						
Signed Deed			67						
Condemnation									
Signed ROE									
				ional sheet if necessary.)	tions Wo ownest	to have this situation rea	ctified in 60 days		
A septic system lateral line was disturbed on parcel one during utility relocations. We expect to have this situation rectified in 60 days.									
						51.1. (11.			
LPA RW Project Manager Printed Name			•	Right of Way Supervisor Printed Name					
Signature					Signature				
Date					Date				
	Rig	ht of W	/ay Direct	or		FHWA			
Printed Name				F	Printed Name				
Signature					Signature				
Date					Date				

UTILITIES AND RAIL CERTIFICATION NOTE

Jefferson County
FD04 056 78391 01U
Mile point: 6.900 TO 8.100
RECONSTRUCT BILLTOWN ROAD
ITEM NUMBER: 05-8203.00

PROJECT NOTES ON UTILITIES

The contractor should be aware that there is UTILITY WORK INCLUDED IN THIS ROAD CONSTRUCTION CONTRACT. The Contractor shall review the GENERAL UTILITY NOTES AND INSTRUCTIONS which may include KYTC Utility Bid Item Descriptions, utility owner supplied specifications, plans, list of utility owner preapproved subcontractors, and other instructions. Utility contractors may be added via addendum if KYTC is instructed to do so by the utility owner. Potential contractors must seek prequalification from the utility owner. Any revisions must be sent from the utility owner to KYTC a minimum of one week prior to bid opening.

For all projects over 2000 linear feet, which are defined as a "Large Project" in KRS 367.4903(18), the awarded contractor shall initially mark the first 2000 linear feet minimally of proposed excavation or construction boundaries of the project to be worked using the procedure set forth in KRS 367.4909(9)(k). This temporary field locating of the project excavation boundary shall take place prior to submitting an excavation location request to the underground utility protection Kentucky Contact Center. For large projects, the awarded contractor shall work with the impacted utilities to determine when additional white lining of the remainder of the project site will take place. This provision shall not alter or relieve the awarded contractor from complying with requirements of KRS 367.4905 to 367.4917 in their entirety.

Please Note: The information presented in this Utility Note is informational in nature and the information contained herein is not guaranteed. The utility facilities as noted in the previous section(s) have been determined using data garnered by varied means and with varying degrees of accuracy: from the facility owners, a result of S.U.E., field inspections, and/or reviews of record drawings. The facilities defined may not be inclusive of all utilities in the project scope and are not Level A quality, unless specified as such. It is the contractor's responsibility to verify all utilities and their respective locations before excavating.

The contractor will be responsible for contacting all utility facility owners on the subject project to coordinate his activities. The contractor will coordinate his activities to minimize and, where possible, avoid conflicts with utility facilities. Due to the nature of the work proposed, it is unlikely to conflict with the existing utilities beyond minor facility adjustments. Where conflicts with utility facilities are unavoidable, the contractor will coordinate any necessary relocation work with the facility owner and Resident Engineer. The Kentucky Transportation Cabinet maintains the right to remove or alter portions of this contract if a utility conflict occurs.

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. The contractor is instructed to contact KY 811 for the location of existing underground utilities. Contact shall be made a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor shall submit Excavation Locate Requests to the Kentucky Contact Center (KY 811) via web ticket entry. The submission of this request does not relieve the contractor from the responsibility of contacting non-member facility owners, whom are to be contacted through their individual Protection Notification Center. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area. Non-compliance with these directives can result in the enforcement of penalties.

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UTILITIES AND RAIL CERTIFICATION NOTE

Jefferson County
FD04 056 78391 01U
Mile point: 6.900 TO 8.100
RECONSTRUCT BILLTOWN ROAD
ITEM NUMBER: 05-8203.00

NOTE: DO NOT DISTURB THE FOLLOWING FACILITIES LOCATED WITHIN THE PROJECT DISTURB LIMITS

AT&T – KY – Communication:

Charter Communications – Communication:

Crown Castle Network Operations – Communication:

Louisville Gas and Electric Company / Kentucky Utilities – Electric

Louisville Gas and Electric Company – Natural Gas:

Louisville Water Company - Water:

Metropolitan Sewer District – Sewer: the sewer district has: an 8-IN sewer crossing Lovers Lane at STA. 47+80, an 8-IN sewer crossing Billtown Rd at STA. 26+20 (Mary Dell Lane), a 4-IN force main crossing Billtown Rd at STA. 42+80. These sewer facilities are not to be disturbed.

Verizon - Communication:

Windstream Communications, LLC – Communication:

The Contractor is fully responsible for protection of all utilities listed above

THE FOLLOWING FACILITY OWNERS ARE RELOCATING/ADJUSTING THEIR FACILITIES WITHIN THE PROJECT LIMITS AND WILL BE COMPLETE PRIOR TO CONSTRUCTION

Charter – the company has existing aerial communication lines which have been relocated onto the new LG&E pole route for the entire length of the project. The company has a relocated underground communication duct along the west side of Billtown Rd from the communications tower near STA. 14+00 to Mary Dell Lane.

Crown Castle - the company has underground communication lines, located west of Billtown Rd, from the beginning of the project to the communications tower near STA. 14+00.

Louisville Gas and Electric Company – Electric - the Company has the following electrical facilities: (1) existing pole route running east of, and parallel to, Billtown Road adjacent to the proposed Right of Way from the start of the project, STA 6+00 (~300 FT south of Easum Rd) to STA 24+25 (~225 FT south of Mary Dell Ln); (2) the pole route then crosses Billtown Rd, routes west of, and parallel to, Billtown Road to STA 41+29 (south side of Michael Edward Drive); (3) the pole route then crosses Billtown Road, routes east of, and parallel to, Billtown Road to STA 64+27 (~110 FT south of Collonnades Place); (4) the pole routes then crosses Billtown Rd, routes west of, and parallel to, Billtown Road to the end of the Project; (5) there are 2 existing electric transmission (east/west) pole routes, crossing Billtown Road, STA 62+29 (~325 FT north of Vintage Creek Drive), and STA 63+32 (~200 FT south of Colonnades Place); and there are multiple overhead crosses of Billtown Road providing services to the area. **These facilities are not to be disturbed.**

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UTILITIES AND RAIL CERTIFICATION NOTE

Jefferson County
FD04 056 78391 01U
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Louisville Gas & Electric - Natural Gas: the company is relocating gas main running east of, and parallel to Billtown Rd from the beginning of the project to STA. 22+00, the gas main then crosses Billtown Rd and continues along the west side of the roadway until STA. 48+00, the gas main then crosses Billtown Rd and continues along the east side of the roadway for approximately 400 ft before crossing back to the west side at STA. 52+00, the gas main continues along the west side of Billtown Rd for the remainder of the project.

Verizon Communication – the company has underground communication lines, located west of Billtown Rd, from the beginning of the project to the communications tower near STA. 14+00.

Windstream Communications, LLC – the company has existing aerial communication lines which have been relocated onto the new LG&E pole route from the beginning of Section 1 to the communications tower near STA. 14+00.

THE FOLLOWING FACILITY OWNERS HAVE FACILITIES TO BE RELOCATED/ADJUSTED BY THE OWNER OR THEIR SUBCONTRACTOR AND IS TO BE COORDINATED WITH THE ROAD CONTRACT

The Contractor shall communicate, cooperate, and coordinate with the Department, the utility owners, and potentially affected third parties, as necessary for the utility relocation work. The Contractor shall be responsible for all coordination needed to ensure that the road construction and utility relocation work may concurrently and effectively take place. No delay claims will be considered due to utility relocations.

AT&T – The company has existing communication lines which are to be relocated to the new LG&E pole route described above. This relocation work is expected to be complete March 29, 2024.

Louisville Gas & Electric – The company is currently relocating the existing gas main between STA. 6+00 and STA. 33+20 and is expected to be clear March 29, 2024.

THE FOLLOWING FACILITY OWNERS HAVE FACILITIES TO BE RELOCATED/ADJUSTED BY THE ROAD CONTRACTOR AS INCLUDED IN THIS CONTRACT

Louisville Water Company – Water – the company has existing water mains which are to be relocated as part of the roadway contract.

RAIL COMPANIES HAVE FACILITIES IN CONJUNCTION WITH THIS PROJECT AS NOTED	

oximes No Rail Involvement oximes Rail Involved oximes Rail Adjacent

UTILITIES AND RAIL CERTIFICATION NOTE

Jefferson County
FD04 056 78391 01U
Mile point: 6.900 TO 8.100
RECONSTRUCT BILLTOWN ROAD
ITEM NUMBER: 05-8203.00

AREA FACILITY OWNER CONTACT LIST

1. AT&T KY

1340 E. John Rowan Blvd Bardstown, KY 40004

 Charter Communications 10168 Linn Station Road, Suite 120 Louisville, KY 40223

 Crown Castle Network Operations 10300 Ormsby Park Place, Suite 501 Louisville, KY 40223

LG&E KU (Electric)
 820 West Broadway
 Louisville, KY 40202
 LG&E Emergency Number (502) 589-1444
 LG&E and KU Emergency Number 1-800-331-7370

LG&E (Gas)
 820 West Broadway
 Louisville, KY 40202
 Gas Emergency Number (502) 589-5511
 LG&E and KU Emergency Number 1-800-331-7370

Scott Roche Office (502) 348-4528 Cell (502) 827-4703 SR8832@att.com

Nathen L Howerton Office (502) 357-4318 Cell (502) 639-6838

Nathen.Howerton@charter.com

Kevin Mercer

Office (502) 357-4724 Cell (502) 817-5055

Kevin.Mercer@charter.com

Michael York Cell (502) 548-1632 Michael.York@charter.com

Mona Couch

Office (317) 249-2029, Cell (317) 439-1578

Mona.Couch@crowncastle.com

James Whited, Network Construction Manager

(502) 428-5776

James.Whited@crowncastle.com

Craig Brown, Manager-Network Construction Office (317) 819-8648, Cell (585) 402-8342

Craig.Brown@crowncastle.com

Caroline Justice Office (502) 627-3708

Caroline.Justice@LGE-KU.com

Caroline Justice Office (502) 627-3708

Caroline.Justice@LGE-KU.com

UTILITIES AND RAIL CERTIFICATION NOTE

Jefferson County FD04 056 78391 01U Mile point: 6.900 TO 8.100 **RECONSTRUCT BILLTOWN ROAD** ITEM NUMBER: 05-8203.00

6. Louisville Water Company 550 South Third Street Louisville, KY 40202

Pat Howard, PE Office (502) 569-3615 Cell (502) 287-7568 PHoward@lwcky.com

7. Metropolitan Sewer District 700 West Liberty Street Louisville, KY 40203-1911

Brandon Flaherty Office (502) 540-6632 Cell (502) 381-0804

Brandon.Flaherty@LouisvilleMSD.org

Greg Powell

Greg.Powell@LouisvilleMSD.org

8. Verizon

730 West Henry Street Indianapolis, IN 46225 **Dean Boyers**

Office (615) 777-7855 Cell (615) 507-5287

Verizon

2421 Holloway Road Louisville, KY 40299

Dean.Boyers@verizon.com

Jeffrey Tucker, Engr III Spec-Ntwk Eng & Ops

Office (502) 830-1827 Cell (502) 593-5585

Jeffrey.Tucker@verizon.com

Ronnie Kuerzi, Eng IV Spec-Ntwk Eng & Ops

Cell (502) 780-2748

Ronald.Kuerzi@verizon.com

9. Windstream 111 S. Main Street

Elizabethtown, KY 42701

James Galvin

Office (270) 765-1818 Cell (270) 748-9249

Windstream Steve Johnson, Sr Engineer OSP

130 W New Circle Road, Suite 170

Office (859) 357-6209 Cell (859) 321-2035

Steve.Johnson@windstream.com

James.Galvin@windstream.com Steve Johnson, Sr Engineer OSP

Ronald (Todd) Moore (502) 818-7605

Ronald.Moore@windstream.com

Lexington, KY 40505

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GENERAL UTILITY NOTES AND INSTRUCTIONS APPLICABLE TO ALL UTILITY WORK MADE A PART OF THE ROAD CONSTRUCTION CONTRACT

The contractor should be aware the following utility notes and KYTC Utility Bid Item Descriptions shall supersede, replace and take precedence over any and all conflicting information that may be contained in utility owner supplied specifications contained in the contract, on plans supplied by the utility owner, or any utility owner specifications or information externally referenced in this contract.

Where information may have been omitted from these notes, bid item descriptions, utility owner supplied specifications or plans; the KYTC Standard Specifications for Road and Bridge Construction shall be referenced.

PROTECTION OF EXISTING UTILITIES

The existing utilities shown on the plans are shown as best known at the time the plans were developed and are to be used as a guide only by the Contractor. The Contractor shall use all means at his disposal to accurately locate all existing utilities, whether shown on the plans or not, prior to excavation. The contractor shall protect these utilities during construction. Any damage to existing utilities during construction that are shown or not shown on the plans shall be repaired at the Contractor's expense.

PREQUALIFIED UTILITY CONTRACTORS

Some utility owners may require contractors that perform relocation work on their respective facilities as a part of the road contract be prequalified or preapproved by the utility owner. Utility contractors may be added via addendum if KYTC is instructed to do so by the utility owner. Potential contractors must seek prequalification from the utility owner. Any revisions must be sent from the utility owner to KYTC a minimum of one week prior to bid opening. Those utility owners with a prequalification or preapproval requirement are as follows:

Louisville Water Company

The bidding contractor needs to choose a subcontractor who is a Louisville Water Company prequalified contractor in the categories of 6-inch to 16-inch ductile iron and pvc water main.

The bidding contractor needs to review the above list and choose from the list of approved subcontractors at the end of these general notes as identified above before bidding. When the list of approved subcontractors is provided, only subcontractors shown on the following list(s) will be allowed to work on that utility as a part of this contract. In such instances, the utility subcontractor is not required to be prequalified with the KYTC Division of Construction Procurement.

IF A UTILITY SUPPLIED CONTRACTOR LIST IS NOT PROVIDED

When the above list of approved subcontractors for the utility work is <u>not</u> provided, the utility work can be completed by the prime contractor, or a prime contractor-chosen subcontractor. In such instances, the subcontractor shall be prequalified with the KYTC Division of Construction Procurement in the work type of "Utilities" (I33). Those who would like to become prequalified may contact the Division of Construction Procurement at (502) 564-3500. Please note: it could take up to 30 calendar days for prequalification to be approved. The prequalification does not have to be approved prior to the bid, but must be approved before the subcontract will be approved by KYTC and the work can be performed.

CONTRACT ADMINISTRATION RELATIVE TO UTILITY WORK

All utility work is being performed as a part of a contract administered by KYTC; there is not a direct contract between the utility contractor and utility owner. The KYTC Section Engineer is ultimately responsible for the administration of the road contract and any utility work included in the contract.

SUBMITTALS AND CORRESPONDENCE

All submittals and correspondence of any kind relative to utility work included in the road contract shall be directed to the KYTC Section Engineer, a copy of which may also be supplied to the utility owner by the contractor to expedite handling of items like material approvals and shop drawings. All approvals and correspondence generated by the utility owner shall be directed to the KYTC Section Engineer. The KYTC Section Engineer will relay any approvals or correspondence to the utility contractor as appropriate. At no time shall any direct communication between the utility owner and utility contractor without the communication flowing through the KYTC Section Engineer be considered official and binding under the contract.

ENGINEER

Where the word "Engineer" appears in any utility owner specifications included in this proposal, utility owner specifications included as a part of this contract by reference or on the utility relocation plans, it shall be understood the "Engineer" is the Kentucky Transportation Cabinet (KYTC) Section Engineer or designated representative and the utility owner engineer or designated representative jointly. Both engineers must mutually agree upon all decisions made with regard to the utility construction. The Transportation Cabinet, Section Engineer shall make all final decisions in all disputes.

JEFFERSON COUNTY 056GR23D009

INSPECTOR OR RESIDENT PROJECT REPRESENTATIVE

Where the word "Inspector" or "Resident Project Representative" appears in the utility specifications included in this proposal, utility owner specifications included as a part of this contract by reference or on the utility relocation plans, it shall be understood the "Inspector" or "Resident Project Representative" is the utility owner inspector and KYTC inspector jointly. The Transportation Cabinet, Section Engineer shall make all final decisions in all disputes.

NOTICE TO UTILITY OWNERS OF THE START OF WORK

One month before construction is to start on a utility, the utility contractor shall make notice to the KYTC Section Engineer and the utility owner of when work on a utility is anticipated to start. The utility contractor shall again make confirmation notice to the KYTC Section Engineer and the utility owner one week before utility work is to actually start.

UTILITY SHUTDOWNS

The Contractor shall not shut down any active and in-service mains, utility lines or services for any reason unless specifically given permission to do so by the utility owner. The opening and closing of valves and operating of other active utility facilities for main, utility line or utility service shut downs are to be performed by the utility owner unless specific permission is given to the contractor by the owner to make shutdowns. If and when the utility owner gives the contractor permission to shutdown mains, utility lines or utility services, the contractor shall do so following the rules, procedures and regulations of the utility owner. Any permission given by the utility owner to the contractor to shutdown active and in-service mains, utility lines or services shall be communicated to the KYTC Section Engineer by the utility owner that such permission has been given.

Notice to customers of utility shut downs is sometimes required to be performed by the utility contractor. The contractor may be required; but, is not limited to, making notice to utility customers in a certain minimum amount of time in advance of the shut down and by whatever means of communication specified by the utility owner. The means of communication to the customer may be; but is not limited to, a door hanger, notice by newspaper ad, telephone contact, or any combination of communication methods deemed necessary, customary and appropriate by the utility owner. The contractor should refer to the utility owner specifications for requirements on customer notice.

Any procedure the utility owner may require the contractor to perform by specification or plan note and any expense the contractor may incur to comply with the utility owner's shut down procedure and notice to customers shall be considered an incidental expense to the utility construction.

CUSTOMER SERVICE AND LATERAL ABANDONMENTS When temporary or permanent abandonment of customer water, gas, or sewer services or laterals are necessary during relocation of utilities included in the contract, the utility contractor shall perform these abandonments as part of the contract as incidental work. No separate payment will be made for service line and lateral abandonments. The contractor shall provide all labor, equipment and materials to accomplish the temporary or permanent abandonment in accordance with the plans, specifications and/or as directed by the engineer. Abandonment may include, but is not limited to, digging down on a water or gas main at the tap to turn off the tap valve

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or corporation stop and/or capping or plugging the tap, digging down on a sewer tap at the main and plugging or capping the tap, digging down on a service line or lateral at a location shown on the plans or agreeable to the engineer and capping or plugging, or performing any other work necessary to abandon the service or lateral to satisfactorily accomplish the final utility relocation.

STATIONS AND DISTANCES

All stations and distances, when indicated for utility placement in utility relocation plans or specifications, are approximate; therefore, some minor adjustment may have to be made during construction to fit actual field conditions. Any changes in excess of 6 inches of plan location shall be reviewed and approved jointly by the KYTC Section Engineer or designated representative and utility owner engineer or designated representative. Changes in location without prior approval shall be remedied by the contractor at his own expense if the unauthorized change creates an unacceptable conflict or condition.

RESTORATION

Temporary and permanent restoration of paved or stone areas due to utility construction shall be considered incidental to the utility work. No separate payment will be made for this work. Temporary restoration shall be as directed by the KYTC Section Engineer. Permanent restoration shall be "in-kind" as existing.

Restoration of seed and sod areas will be measured and paid under the appropriate seeding and sodding bid items established in the contract for roadway work.

BELOW ARE NOTES FOR WHEN "INST" ITEMS ARE IN THE CONTRACT MEANING THE UTILITY COMPANY IS PROVIDING CERTAIN MATERIALS FOR UTILITY RELOCATION

MATERIAL

Contrary to Utility Bid Item Descriptions, those bid items that have the text "Inst" at the end of the bid item will have the major components of the bid item provided by the utility owner. No direct payment will be made for the major material component(s) supplied by the utility company. All remaining materials required to construct the bid item as detailed in utility bid item descriptions, in utility specifications and utility plans that are made a part of this contract will be supplied by the contractor. The contractor's bid price should reflect the difference in cost due to the provided materials.

The following utility owners have elected to provide the following materials for work under this contract:

Louisville Water Company – the company will be supplying: 14523 W PIPE DUCTILE IRON 06 INCH (INST), 14524 W PIPE DUCTILE IRON 08 INCH (INST), 14526 W PIPE DUCTILE IRON 12 INCH (INST), 14527 W PIPE DUCTILE IRON 16 INCH (INST).

SECURITY OF SUPPLIED MATERIALS

If any utility materials are to be supplied by the utility owner, it will be the responsibility of the utility contractor to secure all utility owner supplied materials after delivery to the project site. The utility

contractor shall coordinate directly with the utility owner and their suppliers for delivery and security of the supplied materials. Any materials supplied by the utility owner and delivered to the construction site that are subsequently stolen, damaged or vandalized and deemed unusable shall be replaced with like materials at the contractor's expense.



Kentucky Transportation Cabinet Highway District 5 (1)

And

(2) .	Construction
.\ <i>—」</i> ,	

Kentucky Pollutant Discharge Elimination System Permit KYR10 Best Management Practices (BMP) plan

Groundwater protection plan

For Highway Construction Activities

For

KY 1819 (Billtown Road) Spot Improvements

Project: CID 05 - 8203.00

KPDES BMP Plan Page 1 of 15

Project information

Note -(1) = Design (2) = Construction (3) = Contractor

- 1. Owner Kentucky Transportation Cabinet, District 5 (1)
- 2. Resident Engineer: (2)
- 3. Contractor name: (2)

Address: (2)

Phone number: (2)

Contact: (2)

Contractors agent responsible for compliance with the KPDES permit requirements (3):

- 4. Project Control Number (2)
- 5. Route (Address) KY 1819 (5306 Billtown Road) (1)
- 6. Latitude/Longitude (project mid-point) 38/10/08 N, 85/34/17 W (1)
- 7. County (project mid-point) **Jefferson** (1)
- 8. Project start date (date work will begin): (2)
- 9. Projected completion date: (2)

A. Site description:

- 1. Nature of Construction Activity (from letting project description) Roadway widening for turn lanes and intersection improvements. (1)
- 2. Order of major soil disturbing activities (2) and (3)
- 3. Projected volume of material to be moved. 9,067 Cubic Yards (1)
- 4. Estimate of total project area (acres). 17.75 Acres (1)
- 5. Estimate of area to be disturbed (acres). **8.10 Acres** (1)
- 6. Post construction runoff coefficient will be included in the project drainage folder. Persons needing information pertaining to the runoff coefficient will contact the resident engineer to request this information. (1)
- 7. Data describing existing soil condition. No data (1) & (2)
- 8. Data describing existing discharge water quality (if any). None (1) & (2)
- 9. Receiving water name. Chenoweth Run (1)
- 10. TMDLs and Pollutants of Concern in Receiving Waters: No data (1 DEA)
- 11. Site map Project layout sheet plus the erosion control sheets in the project plans that depict Disturbed Drainage Areas (DDAs) and related information. These sheets depict the existing project conditions with areas delineated by DDA (drainage area bounded by watershed breaks and right of way limits), the storm water discharge locations (either as a point discharge or as overland flow) and the areas that drain to each discharge point. These plans define the limits of areas to be disturbed and the location of control measures. Controls will be either site specific as designated by the designer or will be annotated by the contractor and resident engineer before disturbance commences. The project layout sheet shows the surface waters and wetlands.

12. Potential sources of pollutants:

The primary source of pollutants is solids that are mobilized during storm events. Other sources of pollutants include oil/fuel/grease from servicing

KPDES BMP Plan Page 3 of 15

and operating construction equipment, concrete washout water, sanitary wastes and trash/debris. (3)

B. Sediment and Erosion Control Measures:

1. Plans for highway construction projects will include erosion control sheets that depict Disturbed Drainage Areas (DDAs) and related information. These plan sheets will show the existing project conditions with areas delineated by DDA within the right of way limits, the discharge points and the areas that drain to each discharge point. Project managers and designers will analyze the DDAs and identify Best Management Practices (BMPs) that are site specific. The balance of the BMPs for the project will be listed in the bid documents for selection and use by the contractor on the project with approval by the resident engineer.

Projects that do not have DDAs annotated on the erosion control sheets will employ the same concepts for development and managing BMP plans.

- 2. Following award of the contract, the contractor and resident engineer will annotate the erosion control sheets showing location and type of BMPs for each of the DDAs that will be disturbed at the outset of the project. This annotation will be accompanied by an order of work that reflects the order or sequence of major soil moving activities. The remaining DDAs are to be designated as "Do Not Disturb" until the contractor and resident engineer prepare the plan for BMPs to be employed. The initial BMP's shall be for the first phase (generally Clearing and Grubbing) and shall be modified as needed as the project changes phases. The BMP Plan will be modified to reflect disturbance in additional DDA's as the work progresses. All DDA's will have adequate BMP's in place before being disturbed.
- 3. As DDAs are prepared for construction, the following will be addressed for the project as a whole or for each DDA as appropriate:
 - ➤ Construction Access This is the first land-disturbing activity. As soon as construction begins, bare areas will be stabilized with gravel and temporary mulch and/or vegetation.
 - At the beginning of the project, all DDAs for the project will be inspected for areas that are a source of storm water pollutants. Areas that are a source of pollutants will receive appropriate cover or BMPs to arrest the introduction of pollutants into storm water.

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Areas that have not been opened by the contractor will be inspected periodically (once per month) to determine if there is a need to employ BMPs to keep pollutants from entering storm water.

- ➤ Clearing and Grubbing The following BMP's will be considered and used where appropriate.
 - Leaving areas undisturbed when possible.
 - Silt basins to provide silt volume for large areas.
 - Silt Traps Type A for small areas.
 - Silt Traps Type C in front of existing and drop inlets which are to be saved
 - Diversion ditches to catch sheet runoff and carry it to basins or traps or to divert it around areas to be disturbed.
 - Brush and/or other barriers to slow and/or divert runoff.
 - Silt fences to catch sheet runoff on short slopes. For longer slopes, multiple rows of silt fence may be considered.
 - Temporary Mulch for areas which are not feasible for the fore mentioned types of protections.
 - Non-standard or innovative methods.
- Cut & Fill and placement of drainage structures The BMP Plan will be modified to show additional BMP's such as:
 - Silt Traps Type B in ditches and/or drainways as they are completed
 - Silt Traps Type C in front of pipes after they are placed
 - Channel Lining
 - Erosion Control Blanket
 - Temporary mulch and/or seeding for areas where construction activities will be ceased for 21 days or more.
 - Non-standard or innovative methods
- Profile and X-Section in place The BMP Plan will be modified to show elimination of BMP's which had to be removed and the addition of new BMP's as the roadway was shaped. Probably changes include:
 - Silt Trap Type A, Brush and/or other barriers, Temporary Mulch, and any other BMP which had to be removed for final grading to take place.
 - Additional Silt Traps Type B and Type C to be placed as final drainage patterns are put in place.
 - Additional Channel Lining and/or Erosion Control Blanket.
 - Temporary Mulch for areas where Permanent Seeding and Protection cannot be done within 21 days.
 - Special BMP's such as Karst Policy
- Finish Work (Paving, Seeding, Protect, etc.) A final BMP Plan will result from modifications during this phase of construction. Probably changes include:

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- Removal of Silt Traps Type B from ditches and drainways if they are protected with other BMP's which are sufficient to control erosion, i.e. Erosion Control Blanket or Permanent Seeding and Protection on moderate grades.
- Permanent Seeding and Protection
- Placing Sod
- Planting trees and/or shrubs where they are included in the project
- ▶ BMP's including Storm Water Management Devices such as velocity dissipation devices and Karst policy BMP's to be installed during construction to control the pollutants in storm water discharges that will occur after construction has been completed are: N/A (1)

C. Other Control Measures

1. No solid materials, including building materials, shall be discharged to waters of the commonwealth, except as authorized by a Section 404 permit.

2. Waste Materials

All waste materials that may leach pollutants (paint and paint containers, caulk tubes, oil/grease containers, liquids of any kind, soluble materials, etc.) will be collected and stored in appropriate covered waste containers. Waste containers shall be removed from the project site on a sufficiently frequent basis as to not allow wastes to become a source of pollution. All personnel will be instructed regarding the correct procedure for waste disposal. Wastes will be disposed in accordance with appropriate regulations. Notices stating these practices will be posted in the office.

3. Hazardous Waste

All hazardous waste materials will be managed and disposed of in the manner specified by local or state regulation. The contractor shall notify the Section Engineer if there any hazardous wastes being generated at the project site and how these wastes are being managed. Site personnel will be instructed with regard to proper storage and handling of hazardous wastes when required. The Transportation Cabinet will file for generator, registration when appropriate, with the Division of Waste Management and advise the contractor regarding waste management requirements.

4. Spill Prevention

The following material management practices will be used to reduce the risk of spills or other exposure of materials and substances to the weather and/or runoff.

Good Housekeeping:

The following good housekeeping practices will be followed onsite during the construction project.

- An effort will be made to store only enough product required to do the job
- All materials stored onsite will be stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure
- Products will be kept in their original containers with the original manufacturer's label
- Substances will not be mixed with one another unless recommended by the manufacturer
- Whenever possible, all of the product will be used up before disposing of the container
- Manufacturers' recommendations for proper use and disposal will be followed
- The site contractor will inspect daily to ensure proper use and disposal of materials onsite

Hazardous Products:

These practices will be used to reduce the risks associated with any and all hazardous materials.

- Products will be kept in original containers unless they are not resealable
- Original labels and material safety data sheets (MSDS) will be reviewed and retained
- Contractor will follow procedures recommended by the manufacturer when handling hazardous materials
- If surplus product must be disposed of, manufacturers' or state/local recommended methods for proper disposal will be followed

The following product-specific practices will be followed onsite:

> Petroleum Products:

Vehicles and equipment that are fueled and maintained on site will be monitored for leaks, and receive regular preventative maintenance to reduce the chance of

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leakage. Petroleum products onsite will be stored in tightly sealed containers, which are clearly labeled and will be protected from exposure to weather.

The contractor shall prepare an Oil Pollution Spill Prevention Control and Countermeasure plan when the project that involves the storage of petroleum products in 55 gallon or larger containers with a total combined storage capacity of 1,320 gallons. This is a requirement of 40 CFR 112.

This project (will / will not) (3) have over 1,320 gallons of petroleum products with a total capacity, sum of all containers 55 gallon capacity and larger.

> Fertilizers:

Fertilizers will be applied at rates prescribed by the contract, standard specifications or as directed by the resident engineer. Once applied, fertilizer will be covered with mulch or blankets or worked into the soil to limit exposure to storm water. Storage will be in a covered shed. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.

> Paints:

All containers will be tightly sealed and stored indoors or under roof when not being used. Excess paint or paint wash water will not be discharged to the drainage or storm sewer system but will be properly disposed of according to manufacturers' instructions or state and local regulations.

Concrete Truck Washout:

Concrete truck mixers and chutes will not be washed on pavement, near storm drain inlets, or within 75 feet of any ditch, stream, wetland, lake, or sinkhole. Where possible, excess concrete and wash water will be discharged to areas prepared for pouring new concrete, flat areas to be paved that are away from ditches or drainage system features, or other locations that will not drain off site. Where this approach is not possible, a shallow earthen wash basin will be excavated away from ditches to receive the wash water

> Spill Control Practices

In addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices will be followed for spill prevention and cleanup:

 Manufacturers' recommended methods for spill cleanup will be clearly posted. All personnel will be made aware of procedures and the location of the information and cleanup supplies.

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- Materials and equipment necessary for spill cleanup will be kept in the material storage area. Equipment and materials will include as appropriate, brooms, dust pans, mops, rags, gloves, oil absorbents, sand, sawdust, and plastic and metal trash containers.
- All spills will be cleaned up immediately after discovery.
- The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contract with a hazardous substance.
- Spills of toxic or hazardous material will be reported to the appropriate state/local agency as required by KRS 224 and applicable federal law.
- The spill prevention plan will be adjusted as needed to prevent spills from reoccurring and improve spill response and cleanup.
- Spills of products will be cleaned up promptly. Wastes from spill clean up will be disposed in accordance with appropriate regulations.

D. Other State and Local Plans

This BMP plan shall include any requirements specified in sediment and erosion control plans, storm water management plans or permits that have been approved by other state or local officials. Upon submittal of the NOI, other requirements for surface water protection are incorporated by reference into and are enforceable under this permit (even if they are not specifically included in this BMP plan). This provision does not apply to master or comprehensive plans, non-enforceable guidelines or technical guidance documents that are not identified in a specific plan or permit issued for the construction site by state or local officials. (1)

E. Maintenance

- 1. The BMP plan shall include a clear description of the maintenance procedures necessary to keep the control measures in good and effective operating condition.
- Maintenance of BMPs during construction shall be a result of weekly and post rain event inspections with action being taken by the contractor to correct deficiencies.
- Post Construction maintenance will be a function of normal highway maintenance operations. Following final project acceptance by the cabinet, district highway crews will be responsible for identification and correction of deficiencies regarding ground cover and cleaning of storm water BMPs. The project manager shall identify any BMPs that will be for the purpose of post construction storm water management with specific guidance for any non-routine maintenance. (1)

F. Inspections

Inspection and maintenance practices that will be used to maintain erosion and sediment controls:

- All erosion prevention and sediment control measures will be inspected at least once each week and following any rain of one-half inch or more.
- ➤ Inspections will be conducted by individuals that have successfully completed the KEPSC-RI course as required by Section 213.02.02 of the Standard Specifications for Road and Bridge Construction, current edition
- Inspection reports will be written, signed, dated, and kept on file.
- > Areas at final grade will be seeded and mulched within 14 days.
- Areas that are not at final grade where construction has ceased for a period of 21 days or longer and soil stock piles shall receive temporary mulch no later than 14 days from the last construction activity in that area.
- All measures will be maintained in good working order; if a repair is necessary, it will be initiated within 24 hours of being reported.
- ➤ Built-up sediment will be removed from behind the silt fence before it has reached halfway up the height of the fence.
- ➤ Silt fences will be inspected for bypassing, overtopping, undercutting, depth of sediment, tears, and to ensure attachment to secure posts.

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- ➤ Sediment basins will be inspected for depth of sediment, and built-up sediment will be removed when it reaches 50 percent of the design capacity and at the end of the job.
- ➤ Diversion dikes and berms will be inspected and any breaches promptly repaired. Areas that are eroding or scouring will be repaired and re-seeded / mulched as needed.
- ➤ Temporary and permanent seeding and mulching will be inspected for bare spots, washouts, and healthy growth. Bare or eroded areas will be repaired as needed.
- All material storage and equipment servicing areas that involve the management of bulk liquids, fuels, and bulk solids will be inspected weekly for conditions that represent a release or possible release of pollutants to the environment.

G. Non – Storm Water discharges

It is expected that non-storm water discharges may occur from the site during the construction period. Examples of non-storm water discharges include:

- > Water from water line flushings.
- > Water form cleaning concrete trucks and equipment.
- Pavement wash waters (where no spills or leaks of toxic or hazardous materials have occurred).
- > Uncontaminated groundwater and rain water (from dewatering during excavation).

All non-storm water discharges will be directed to the sediment basin or to a filter fence enclosure in a flat vegetated infiltration area or be filtered via another approved commercial product.

H. Groundwater Protection Plan (3)

This plan serves as the groundwater protection plan as required by 401 KAR 5:037.

Contractors statement: (3)

The following activities, as enumerated by 401 KAR 5:037 Section 2 that require the preparation and implementation of a groundwater protection plan, will or may be may be conducted as part of this construction project:

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KyTC BMP Plan for Project CID 05 – 8203.00

2. (e) land treatment or land disposal of a pollutant;
2. (f) Storing,, or related handling of hazardous waste, solid waste or special waste,, in tanks, drums, or other containers, or in piles, (This does not include wastes managed in a container placed for collection and removal of municipal solid waste for disposal off site);
2. (g) Handling of materials in bulk quantities (equal or greater than 55 gallons or 100 pounds net dry weight transported held in an individual container) that, if released to the environment, would be a pollutant;
2. (j) Storing or related handling of road oils, dust suppressants,, at a central location;
2. (k) Application or related handling of road oils, dust suppressants or deicing materials, (does not include use of chloride-based deicing materials applied to roads or parking lots);
2. (m) Installation, construction, operation, or abandonment of wells, bore holes, or core holes, (this does not include bore holes for the purpose of explosive demolition);
Or, check the following only if there are no qualifying activities
There are no activities for this project as listed in 401 KAR 5:037 Section 2 that require the preparation and implementation of a groundwater protection plan.
The contractor is responsible for the preparation of a plan that addresses the
401 KAR 5:037 Section 3. (3) Elements of site specific groundwater protection plan:
(a) General information about this project is covered in the Project information;
(b) Activities that require a groundwater protection plan have been

- identified above;
- (c) Practices that will protect groundwater from pollution are addressed in section C. Other control measures.
- (d) Implementation schedule all practices required to prevent pollution of groundwater are to be in place prior to conducting the activity:
- (e) Training is required as a part of the ground water protection All employees of the contractor, sub-contractor and resident engineer personnel will be trained to understand the nature and requirements of this plan as they pertain to their job

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function(s). Training will be accomplished within one week of employment and annually thereafter. A record of training will be maintained by the contractor with a copy provide to the resident engineer.

- (f) Areas of the project and groundwater plan activities will be inspected as part of the weekly sediment and erosion control inspections
- (g) Certification (see signature page.)

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KyTC BMP Plan for Project CID 05 – 8203.00

Contractor and Resident Engineer Plan certification

The contractor that is responsible for implementing this BMP plan is identified in the Project Information section of this plan.

The following certification applies to all parties that are signatory to this BMP plan:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Further, this plan complies with the requirements of 401 KAR 5:037. By this certification, the undersigned state that the individuals signing the plan have reviewed the terms of the plan and will implement its provisions as they pertain to ground water protection.

Resident Engineer and Contractor Certification:

(2) Resident Enginee	r signature		
Signed Typed or pr	title inted name²	,signature	
(3) Signed	title	,	
Typed or prin	ted name ¹	signati	ıre

- 1. Contractors Note: to be signed by a person who is the owner, a responsible corporate officer, a general partner or the proprietor or a person designated to have the authority to sign reports by such a person in accordance with 401 KAR 5:060 Section 9. This delegation shall be in writing to: Manager, KPDES Branch, Division of Water, 14 Reilly Road, Frankfort Kentucky 40601. Reference the Project Control Number (PCN) and KPDES number when one has been issued.
- 2. KyTC note: to be signed by the Chief District Engineer or a person designated to have the authority to sign reports by such a person (usually the resident engineer) in accordance with 401 KAR 5:060 Section 9. This delegation shall be in writing to: Manager, KPDES Branch, Division of Water, 14 Reilly Road, Frankfort Kentucky 40601 Reference the Project Control Number (PCN) and KPDES number when one has been issued.

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The following sub-contractor shall be made aware of the BMP plan and responsible for

Sub-Contractor Certification

Subcontractor

Name:

implementation of BMPs identified in this plan as follows:

Address: Address:			
Phone:			
The part of BMP p	olan this subcontractor is resp	oonsible to implement is:	
Kentucky Pollutan discharges, the Bl discharged as a r	nalty of law that I understand It Discharge Elimination Syst MP plan that has been devel esult of storm events associon-storm water pollutant sou	em permit that authorize loped to manage the qua ated with the construction	es the storm water ality of water to be on site activity and
Signed	title printed name¹	, signatu	
1. Sub Cont responsible of designated to accordance of to: Manager, Kentucky 400	tractor Note: to be signe corporate officer, a generate have the authority to with 401 KAR 5:060 Section KPDES Branch, Division 601. Reference the Project one has been issued.	d by a person who il partner or the propri sign reports by su on 9. This delegation s n of Water, 14 Reilly	is the owner, a letor or a person ch a person in shall be in writing Road, Frankfort

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KENTUCKY TRANSPORTATION CABINET COMMUNICATING ALL PROMISES (CAP)

Item No. 5 - 8203 County: Jefferson Route: 1,819 Project Manager: PATRICK MATHENY

10/5/23

CAP#	Date of Promise	Promise made to:	Location of Promise:	CAP Description
1	10/5/23	District 5 R/W	Parcel 2	The 12' wide entrance will be constructed at Station 6+30 (see entrance change exhibit, attached)
2	10/5/23	District 5 R/W	Parcel 2	The existing pile of gravel will become property of the Department and the property owner's compensation shown in this document includes said compensation.
3	10/5/23	District 5 R/W	Parcel 5	Plantings that border the permanent easement nearest the house labeled as 36.14' will be protected and untouched by the contractors.
4	10/5/23	District 5 R/W	Parcel 9	The KYTC has agreed to design and construct entrance at approximate RT station 10+60 and remove existing entrance at approximate RT Station 11+20. Any and all additional temporary easement is dedicated by owner in order to construct entrance; temporary easement description will be added to the deed.
5	10/5/23	District 5 R/W	Parcel 9	The KYTC has agreed to design and construct entrance at approximate RT station 10+60 and remove existing entrance at approximate RT Station 11+20. Any and all additional temporary easement is dedicated by owner in order to construct entrance; temporary easement description will be added to the deed.
6	10/5/23	District 5 R/W	Parcel 11	Construction equipment and materials will be present in the temporary easement only during actual construction, that is, materials will not be staged in the temporary easement. The construction will be performed from the roadway into the property.
7	10/5/23	District 5 R/W	Parcel 11	The KYTC has agreed to widen the drive-way entry 6 feet northward. The additional 6 feet of drive-way will be stubbed off at the proposed right-of-way line. This will widen the driveway a total of 22 feet from Billtown Road to the proposed right-of-way line.
8	10/5/23	District 5 R/W	Parcel 12	The KYTC has agreed to adjust the proposed temporary easement area and intends to acquire a 5 foot wide temporary easement along the expanded right of way mentioned above. The temporary easement will be in effect for two years from the start of construction (including utilities relocations). Construction equipment and materials will be present in the temporary easement only during actual construction, that is, equipment and materials will not be staged in the temporary easement. The construction will be performed from the roadway into the property.
9	10/5/23	District 5 R/W	Parcel 12	The temporary easement description will be revised once an agreement is signed. The revised temporary easement description will be included in the Deed and will replace Tract B of the contract.
10	10/5/23	District 5 R/W	Parcel 12	The KYTC project will expand Billtown Road to include a south bound turning lane on to Easum Road. The north bound lane of Billtown Road will be shifted 8 feet northward. The drainage swale top of slope will be approximately 12 feet from the existing right of way so that any new construction is entirely within the newly acquired right of way.

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KENTUCKY TRANSPORTATION CABINET COMMUNICATING ALL PROMISES (CAP)

Item No. 5 - 8203 County: Jefferson Route: 1,819 Project Manager: PATRICK MATHENY

10/5/23

CAP#	Date of Promise	Promise made to:	Location of Promise:	CAP Description
11	10/5/23	District 5 R/W	Parcel 12	The KYTC has agreed that the drive-way entry will be reconstructed to match the existing layout including expanding the pavement an additional 4 feet northward from the existing location of the post boxes at the island between drive-ways under the existing oak tree. This will result in at least 16 feet of pavement between the post boxes and the relocated Billtown Road. The entry drive will receive new pavement over the entire entry to include the right of way, the temporary easement, and any area where heavy construction equipment is used during construction. Areas with lawn turf in the right of way and temporary easement will be replaced to match existing or better condition except that the willow tree, myrtle, and oak tree will be removed. Matching existing conditions also includes assurance that drive and lawn will drain per current conditions which do not result in storm water ponding.
12	10/5/23	District 5 R/W	Parcel 12	It is understood that LG&E intends to relocate the utility pole at the current right of way line in the northwest corner to the property line between 5509 Billtown Road and 5507 Billtown Road. LG&E intends to place an intermediate utility pole between the relocated pole and the northwest corner of the house at 5509 Billtown Road. To date, LG&E has not made contact with the owner, and it is presumed that the exact location of the intermediate pole is a negotiable item.
13	10/5/23	District 5 R/W	Parcel 13	The KYTC anticipates construction starting in 2019 and ending in 2021. This is to be the timeframe for the use of the temporary easement area.
14	10/5/23	District 5 R/W	Parcel 24	The KYTC has agreed to design and construct entrance at approximate RT station 20+50. Any and all additional temporary easement is dedicated by owner in order to construct entrance; temporary easement description will be added to the deed.
15	10/5/23	District 5 R/W	Parcel 25	The driveway will be reconstructed to match the existing driveway material, which is concrete.
16	10/5/23	District 5 R/W	Parcel 25	The driveway will receive new pavement which will include the right of way and any area within the permanent easement that is disturbed by heavy equipment during construction or utility relocation.
17	10/5/23	District 5 R/W	Parcel 29	KYTC agrees to place a "Do Not Disturb" on the flagpole.
18	10/5/23	District 5 R/W	Parcel 31	The driveway will be reconstructed to match the existing driveway material, which is aggregate concrete.
19	10/5/23	District 5 R/W	Parcel 31	The driveway will receive new pavement which will include the right of way and any area within the permanent easement that is disturbed by heavy equipment during construction or utility relocation.
20	10/5/23	District 5 R/W	Parcel 34	The utilities companies are not allowed to have any fixtures protruding above the ground level.
21	10/5/23	District 5 R/W	Parcel 36	Do not remove holly tree on plans.
22	10/5/23	District 5 R/W	Parcel 38	Replace driveway with original concrete and correct surveyed measurement.
23	10/5/23	District 5 R/W	Parcel 39	Place a "do not disturb" on the tree located within the temporary easement area; pending KYTC approval.

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KENTUCKY TRANSPORTATION CABINET COMMUNICATING ALL PROMISES (CAP)

Item No. 5 - 8203 County: Jefferson Route: 1,819 Project Manager: PATRICK MATHENY

10/5/23

CAP#	Date of Promise	Promise made to:	Location of Promise:	CAP Description
24	10/5/23	District 5 R/W	Parcel 39	Do not remove on dogwood tree in NW corner.
25	10/5/23	District 5 R/W	Parcel 39	Place rocks by driveway back after construction of driveway (to help with erosion control).
26	10/5/23	District 5 R/W	Parcel 47	Please notify owner prior to starting any demo.
27	10/5/23	District 5 R/W	Parcel 49	Additional payment included for the removal/capping of the sprinkler system, which must be removed from all easements and fee simple during construction and after construction may not be replaced in the permanent easement or fee simple.
28	10/5/23	District 5 R/W	Parcel 63	The owner requests that ALL trees within the temporary easement be completely removed by the contractor which includes the large tree in the front yard.
29	10/5/23	District 5 R/W	Parcel 64	Existing driveway is concrete, repave as concrete during construction.
30	10/5/23	District 5 R/W	Parcel 70	Per this agreement, the party of the first part agrees to accept full and complete liability for the large maple tree approximately 40 feet west of Sta. 59+80. This tree will be marked on the design plans as "Do Not Remove." The party of the first part will assume responsibility for removal of the tree should the tree fail to survive and must be removed.
31	10/5/23	District 5 R/W	Parcel 76	Any trees impacted within the temporary easement will be completely removed by the contractor including stumps and root system.
32	10/5/23	District 5 R/W	Parcel 77	This agreement is based on a plan revision that Colonnades entrance will be left as-is. With the plan revision, the permanent easement will no longer be required along Colonnades.

CONTRACT ID: 231109	056GR23D009	DE05618192309
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BILLTOWN ROAD (KY 1819) EASUM RD. - MARY DELL LANE BILLTOWN ROAD IMPROVEMENTS (KY1819) ASPHALT SURFACE WITH GRADE & DRAIN, A DISTANCE OF .52 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0005	00003	CRUSHED STONE BASE	1,914.00	TON
0010	00020	TRAFFIC BOUND BASE	250.00	TON
0015	00190	LEVELING & WEDGING PG64-22	1,230.00	TON
0020	00214	CL3 ASPH BASE 1.00D PG64-22	2,568.00	TON
0025	02101	CEM CONC ENT PAVEMENT-8 IN	605.00	SQYE
0030	02677	ASPHALT PAVE MILLING & TEXTURING	167.00	TON
0035	10020NS	FUEL ADJUSTMENT	7,485.00	DOLL
0040	10030NS	ASPHALT ADJUSTMENT	18,801.00	DOLL
0045	20072ES805	GRANULAR EMBANKMENT	2,355.00	TON
0050	22906ES403	CL3 ASPH SURF 0.38A PG64-22	1,011.00	TON
0055	24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	6.50	TON
0060	00078	CRUSHED AGGREGATE SIZE NO 2	8.00	TON
0065	01811	STANDARD CURB AND GUTTER MOD	344.00	LF
0070	02091	REMOVE PAVEMENT	316.00	SQYE
0075	02159	TEMP DITCH	3,627.00	LF
0800	02160	CLEAN TEMP DITCH	3,627.00	LF
0085	02200	ROADWAY EXCAVATION	4,901.00	CUYE
0090	02242	WATER	1.00	MGAI
0095	02429	RIGHT-OF-WAY MONUMENT TYPE 1	20.00	EACH
0100	02430	RIGHT-OF-WAY MONUMENT TYPE 1A	1.00	EACH
0105	02432	WITNESS POST	3.00	EACH
0110	02483	CHANNEL LINING CLASS II	78.00	TON
0115	02545	CLEARING AND GRUBBING - 4.3 ACRES	1.00	LS
0120	02562	TEMPORARY SIGNS	370.00	SQF1
0125	02585	EDGE KEY	138.00	LF
0130	02602	FABRIC-GEOTEXTILE CLASS 1	5,470.00	SQYE
0135	02604	FABRIC-GEOTEXTILE CLASS 1A	4,460.00	
0140		FABRIC-GEOTEXTILE CLASS 2 FOR PIPE	1,940.00	
0145		MAINTAIN & CONTROL TRAFFIC - SECTION 1	1.00	LS
0150		PORTABLE CHANGEABLE MESSAGE SIGN	4.00	
0155		MOBILIZATION FOR MILL & TEXT - SECTION 1	1.00	LS
0160		SAFELOADING		CUYE
0165		TEMP SILT FENCE	3,627.00	LF
0170		SILT TRAP TYPE A	8.00	
0175		SILT TRAP TYPE B	8.00	
0180		SILT TRAP TYPE C	8.00	
0185		CLEAN SILT TRAP TYPE A	24.00	
0190		CLEAN SILT TRAP TYPE B	24.00	
0195		CLEAN SILT TRAP TYPE C	24.00	
0200		SIDEWALK-4 IN CONCRETE		SQYE
0200		STAKING - SECTION 1	1.00	LS
0203		EROSION CONTROL BLANKET	1,537.00	
0210		TEMP MULCH	30,302.00	

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0220	05953	TEMP SEEDING AND PROTECTION	30,302.00	SQYD
0225	05963	INITIAL FERTILIZER	.60	TON
0230	05964	MAINTENANCE FERTILIZER	.40	TON
0235	05985	SEEDING AND PROTECTION	2,865.00	SQYD
0240	05990	SODDING	8,364.00	SQYD
0245	05992	AGRICULTURAL LIMESTONE	7.00	TON
0250	06510	PAVE STRIPING-TEMP PAINT-4 IN	5,790.00	LF
0255	06514	PAVE STRIPING-PERM PAINT-4 IN	1,760.00	LF
0260	06515	PAVE STRIPING-PERM PAINT-6 IN	13,200.00	LF
0265	06568	PAVE MARKING-THERMO STOP BAR-24IN	58.00	LF
0270	06574	PAVE MARKING-THERMO CURV ARROW	19.00	EACH
0275	20550ND	SAWCUT PAVEMENT	5,450.00	LF
0280	22520EN	PAVE MARKING-THERMO YIELD BAR-36 IN	33.00	LF
0285	23158ES505	DETECTABLE WARNINGS	70.00	SQFT
0290	23261EC	PAVE MARK-THERMO-X-WALK-24 IN	159.00	LF
0295	23274EN11F	TURF REINFORCEMENT MAT 1	101.00	SQYD
0300	00440	ENTRANCE PIPE-15 IN	457.00	LF
0305	00441	ENTRANCE PIPE-18 IN	141.00	LF
0310	00462	CULVERT PIPE-18 IN	108.00	LF
0315	00464	CULVERT PIPE-24 IN	55.00	LF
0320	00521	STORM SEWER PIPE-15 IN	536.00	LF
0325	00522	STORM SEWER PIPE-18 IN	737.00	LF
0330	00524	STORM SEWER PIPE-24 IN	120.00	LF
0335	00526	STORM SEWER PIPE-30 IN	4.00	LF
0340	01000	PERFORATED PIPE-4 IN	4,897.00	LF
0345	01010	NON-PERFORATED PIPE-4 IN	110.00	LF
0350	01028	PERF PIPE HEADWALL TY 3-4 IN	8.00	EACH
0355	01208	PIPE CULVERT HEADWALL-24 IN	1.00	EACH
0360	01450	S & F BOX INLET-OUTLET-18 IN	5.00	EACH
0365	01451	S & F BOX INLET-OUTLET-24 IN	1.00	EACH
0370		S & F BOX INLET-OUTLET-30 IN	1.00	
0375		CURB BOX INLET TYPE A		EACH
0380		DROP BOX INLET TYPE 11 MOD		EACH
0385		CORED HOLE DRAINAGE BOX CON-4 IN		EACH
0390		MANHOLE TYPE A		EACH
0395		MANHOLE TYPE C		EACH
0400		DRAINAGE JUNCTION BOX TY B	1.00	
0405		PIPELINE INSPECTION	1,560.00	LF
0410		SBM ALUM SHEET SIGNS .080 IN	214.00	
0415		SBM ALUM SHEET SIGNS .125 IN		SQFT
0420		STEEL POST TYPE 1	407.00	LF
0425		STEEL POST MILE MARKERS	1.00	
0420		BARCODE SIGN INVENTORY	36.00	
0435		CONDUIT-1 1/4 IN	10.00	LACIT
0433		CABLE-NO. 14/5C	425.00	LF
0440		MESSENGER-10800 LB	280.00	LF
0445		INSTALL STEEL STRAIN POLE	4.00	
0450		INSTALL STEEL STRAIN POLE INSTALL LED BEACON-12 IN		EACH
0455		TRAFFIC SIGNAL POLE BASE		CUYD
0465	24526ED	INSTALL-BEACON CONTROLLER-2 CIRCUIT	1.00	EACH

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0470	24955ED	REMOVE SIGNAL EQUIPMENT	1.00	EACH
0475	14002	W AIR RELEASE VALVE SPECIAL	2.00	EACH
0480	14014	W ENCASEMENT STEEL OPEN CUT RANGE 3	115.00	LF
0485	14015	W ENCASEMENT STEEL OPEN CUT RANGE 4	95.00	LF
0490	14016	W ENCASEMENT STEEL OPEN CUT RANGE 5	290.00	LF
0495	14019	W FIRE HYDRANT ASSEMBLY	5.00	EACH
0500	14021	W FIRE HYDRANT REMOVE	5.00	EACH
0505	14030	W METER RELOCATE	39.00	EACH
0510	14031	W METER VAULT	18.00	EACH
0515	14060	W PIPE PVC 08 INCH	120.00	LF
0520	14074	W PLUG EXISTING MAIN	15.00	EACH
0525	14094	W TIE-IN 06 INCH	4.00	EACH
0530	14096	W TIE-IN 10 INCH	4.00	EACH
0535	14097	W TIE-IN 12 INCH	6.00	EACH
0540	14098	W TIE-IN 16 INCH	4.00	EACH
0545	14105	W VALVE 06 INCH	4.00	EACH
0550	14106	W VALVE 08 INCH	4.00	EACH
0555	14108	W VALVE 12 INCH	7.00	EACH
0560	14109	W VALVE 16 INCH	10.00	EACH
0565	14148	W SERV COPPER LONG SIDE 3/4 IN	21.00	EACH
0570	14151	W SERV COPPER SHORT SIDE 2 IN	1.00	EACH
0575	14152	W SERV COPPER SHORT SIDE 3/4 IN	17.00	EACH
0580	14523	W PIPE DUCTILE IRON 06 INCH INST	210.00	LF
0585	14524	W PIPE DUCTILE IRON 08 INCH INST	145.00	LF
0590	14526	W PIPE DUCTILE IRON 12 INCH INST	1,400.00	LF
0595	14527	W PIPE DUCTILE IRON 16 INCH INST	2,660.00	LF
0600	02568	MOBILIZATION	1.00	LS
0605	02569	DEMOBILIZATION	1.00	LS

CONTRACT ID: 231109 056GR23D009 DE05618192310

BILLTOWN ROAD (KY 1819) FAIRGROUNDS RD. SECTION BILLTOWN ROAD IMPROVEMENTS ASPHALT SURFACE WITH GRADE & DRAIN, A DISTANCE OF .27 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0610	00003	CRUSHED STONE BASE	690.00	TON
0615	00020	TRAFFIC BOUND BASE	150.00	TON
0620	00190	LEVELING & WEDGING PG64-22	702.00	TON
0625	00214	CL3 ASPH BASE 1.00D PG64-22	1,111.00	TON
0630	02677	ASPHALT PAVE MILLING & TEXTURING	92.00	TON
0635	10020NS	FUEL ADJUSTMENT	3,645.00	DOLL
0640	10030NS	ASPHALT ADJUSTMENT	9,156.00	DOLL
0645	20072ES805	GRANULAR EMBANKMENT	1,267.00	TON
0650	22906ES403	CL3 ASPH SURF 0.38A PG64-22	529.00	TON
0655	24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	3.50	TON
0660	00078	CRUSHED AGGREGATE SIZE NO 2	6.00	TON
0665	01875	STANDARD HEADER CURB	36.00	LF

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0670	02159	TEMP DITCH	1,741.00	LF
0675	02160	CLEAN TEMP DITCH	1,741.00	LF
0680	02200	ROADWAY EXCAVATION	1,961.00	CUYD
0685	02242	WATER	1.00	MGAL
0690	02429	RIGHT-OF-WAY MONUMENT TYPE 1	14.00	EACH
0695	02432	WITNESS POST	3.00	EACH
0700	02483	CHANNEL LINING CLASS II	167.00	TON
0705	02545	CLEARING AND GRUBBING - 1.65 ACRES - SECTION 2	1.00	LS
0710	02562	TEMPORARY SIGNS	191.00	SQFT
0715	02585	EDGE KEY	144.50	LF
0720	02602	FABRIC-GEOTEXTILE CLASS 1	3,006.00	SQYD
0725	02604	FABRIC-GEOTEXTILE CLASS 1A	2,460.00	SQYD
0730	02607	FABRIC-GEOTEXTILE CLASS 2 FOR PIPE	71.00	SQYD
0735	02650	MAINTAIN & CONTROL TRAFFIC - SECTION 2	1.00	LS
0740	02676	MOBILIZATION FOR MILL & TEXT - SECTION 2	1.00	LS
0745	02701	TEMP SILT FENCE	1,741.00	LF
0750	02703	SILT TRAP TYPE A	4.00	EACH
0755	02704	SILT TRAP TYPE B	4.00	EACH
0760	02705	SILT TRAP TYPE C	4.00	EACH
0765	02706	CLEAN SILT TRAP TYPE A	12.00	EACH
0770	02707	CLEAN SILT TRAP TYPE B	12.00	EACH
0775	02708	CLEAN SILT TRAP TYPE C	12.00	EACH
0780	02720	SIDEWALK-4 IN CONCRETE	257.80	SQYD
0785	02726	STAKING - SECTION 2	1.00	LS
0790	05950	EROSION CONTROL BLANKET	587.00	SQYD
0795	05952	TEMP MULCH	15,384.00	SQYD
0800	05953	TEMP SEEDING AND PROTECTION	15,384.00	
0805	05963	INITIAL FERTILIZER	.30	TON
0810	05964	MAINTENANCE FERTILIZER	.20	TON
0815	05985	SEEDING AND PROTECTION	3,557.00	SQYD
0820	05990	SODDING	1,620.00	
0825		AGRICULTURAL LIMESTONE	3.20	TON
0830	06510	PAVE STRIPING-TEMP PAINT-4 IN	3,390.00	LF
0835		PAVE STRIPING-PERM PAINT-4 IN	1,435.00	LF
0840		PAVE STRIPING-PERM PAINT-6 IN	7.500.00	LF
0845		PAVE MARKING-THERMO X-WALK-12 IN	234.00	LF
0850		PAVE MARKING-THERMO STOP BAR-24IN	105.00	LF
0855		PAVE MARKING-THERMO CURV ARROW	15.00	
0860		SAWCUT PAVEMENT	2,740.00	LF
0865		DETECTABLE WARNINGS	72.00	
0870		TURF REINFORCEMENT MAT 1	147.00	
0875		ENTRANCE PIPE-15 IN	160.00	LF
0880		CULVERT PIPE-18 IN	30.00	LF
0885		CULVERT PIPE-24 IN	17.00	LF
0890		PERFORATED PIPE-4 IN	3,091.00	LF
0895		NON-PERFORATED PIPE-4 IN	5,091.00	LF
0990		PERF PIPE HEADWALL TY 2-4 IN	1.00	
0900		PERF PIPE HEADWALL TY 3-4 IN	5.00	
		PIPE CULVERT HEADWALL-24 IN		
0910			1.00	
0915	01450	S & F BOX INLET-OUTLET-18 IN	2.00	EACH

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0920	01545	DROP BOX INLET TYPE 11 MOD	1.00	EACH
0925	24814EC	PIPELINE INSPECTION	47.00	LF
0930	06406	SBM ALUM SHEET SIGNS .080 IN	59.00	SQFT
0935	06407	SBM ALUM SHEET SIGNS .125 IN	8.00	SQFT
0940	06410	STEEL POST TYPE 1	138.00	LF
0945	06490	CLASS A CONCRETE FOR SIGNS	.46	CUYD
0950	24631EC	BARCODE SIGN INVENTORY	3.00	EACH
0955	04820	TRENCHING AND BACKFILLING	30.00	LF
0960	04845	CABLE-NO. 14/7C	1,100.00	LF
0965	04885	MESSENGER-10800 LB	330.00	LF
0970	04932	INSTALL STEEL STRAIN POLE	4.00	EACH
0975	20093NS835	INSTALL PEDESTRIAN HEAD-LED	4.00	EACH
0980	20188NS835	INSTALL LED SIGNAL-3 SECTION	7.00	EACH
0985	20275EC	VIDEO DETECTION-INSTALL	1.00	EACH
0990	20390NS835	INSTALL COORDINATING UNIT	1.00	EACH
0995	21743NN	INSTALL PEDESTRIAN DETECTOR	4.00	EACH
1000	23157EN	TRAFFIC SIGNAL POLE BASE	16.80	CUYD
1005	23222EC	INSTALL SIGNAL PEDESTAL	1.00	EACH
1010	24900EC	PVC CONDUIT-1 1/4 IN-SCHEDULE 80	20.00	LF
1015	24901EC	PVC CONDUIT-2 IN-SCHEDULE 80	50.00	LF
1020	24908EC	INSTALL SIGNAL CONTROLLER-TY ATC	1.00	EACH
1025	02568	MOBILIZATION	1.00	LS
1030	02569	DEMOBILIZATION	1.00	LS

CONTRACT ID: 231109 056GR23D009 DE05618192311

BILLTOWN ROAD (KY 1819) COLONNADES PLACE SECTION BILLTOWN ROAD ASPHALT SURFACE WITH GRADE & DRAIN, A DISTANCE OF .29 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
1035	00003	CRUSHED STONE BASE	841.00	TON
1040	00020	TRAFFIC BOUND BASE	175.00	TON
1045	00190	LEVELING & WEDGING PG64-22	1,014.00	TON
1050	00214	CL3 ASPH BASE 1.00D PG64-22	1,027.00	TON
1055	02101	CEM CONC ENT PAVEMENT-8 IN	246.00	SQYD
1060	02677	ASPHALT PAVE MILLING & TEXTURING	108.00	TON
1065	10020NS	FUEL ADJUSTMENT	3,985.00	DOLL
1070	10030NS	ASPHALT ADJUSTMENT	10,009.00	DOLL
1075	20072ES805	GRANULAR EMBANKMENT	1,426.00	TON
1080	22906ES403	CL3 ASPH SURF 0.38A PG64-22	519.00	TON
1085	24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	3.40	TON
1090	00078	CRUSHED AGGREGATE SIZE NO 2	3.00	TON
1095	01811	STANDARD CURB AND GUTTER MOD	952.00	LF
1100	01895	VALLEY GUTTER	20.00	LF
1105	02159	TEMP DITCH	2,557.00	LF
1110	02160	CLEAN TEMP DITCH	2,557.00	LF
1115	02200	ROADWAY EXCAVATION	2,205.00	CUYD

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
1120	02242	WATER	1.00	MGAL
1125	02429	RIGHT-OF-WAY MONUMENT TYPE 1	7.00	EACH
1130	02432	WITNESS POST	2.00	EACH
1135	02483	CHANNEL LINING CLASS II	63.00	TON
1140	02545	CLEARING AND GRUBBING - 2.15 ACRES - SECTION 3	1.00	LS
1145	02562	TEMPORARY SIGNS	230.00	SQFT
1150	02585	EDGE KEY	119.00	LF
1155	02602	FABRIC-GEOTEXTILE CLASS 1	3,140.00	SQYD
1160	02604	FABRIC-GEOTEXTILE CLASS 1A	2,560.00	SQYD
1165	02607	FABRIC-GEOTEXTILE CLASS 2 FOR PIPE	1,204.00	SQYD
1170	02650	MAINTAIN & CONTROL TRAFFIC - SECTION 3	1.00	LS
1175	02676	MOBILIZATION FOR MILL & TEXT - SECTION 3	1.00	LS
1180	02701	TEMP SILT FENCE	2,557.00	LF
1185	02703	SILT TRAP TYPE A	5.00	EACH
1190	02704	SILT TRAP TYPE B	5.00	EACH
1195	02705	SILT TRAP TYPE C	5.00	EACH
1200	02706	CLEAN SILT TRAP TYPE A	15.00	EACH
1205	02707	CLEAN SILT TRAP TYPE B	15.00	EACH
1210	02708	CLEAN SILT TRAP TYPE C	15.00	
1215		SIDEWALK-4 IN CONCRETE	741.00	_
1220		STAKING - SECTION 3	1.00	LS
1225		EROSION CONTROL BLANKET	292.00	
1230		TEMP MULCH	19,435.00	
1235		TEMP SEEDING AND PROTECTION	19,435.00	
1240		INITIAL FERTILIZER	.40	TON
1245		MAINTENANCE FERTILIZER	.30	TON
1250		SEEDING AND PROTECTION	1,539.00	
1255		SODDING	5,939.00	
1260		AGRICULTURAL LIMESTONE	4.80	TON
1265		PAVE STRIPING-TEMP PAINT-4 IN	3,080.00	LF
1203		PAVE STRIPING-PERM PAINT-4 IN	600.00	LF
1275		PAVE MARKING THERMO STOR RAD 24IN	7,895.00	LF
1280		PAVE MARKING-THERMO STOP BAR-24IN	36.00	LF
1285		PAVE MARKING-THERMO CURV ARROW	12.00	
1290		SAWCUT PAVEMENT	3,080.00	LF
1295		DETECTABLE WARNINGS	50.00	
1300		TURF REINFORCEMENT MAT 1	173.00	
1305		ROLL CURB MODIFIED	122.00	LF . –
1310		ENTRANCE PIPE-15 IN	86.00	LF
1315		ENTRANCE PIPE-18 IN EQUIV	108.00	LF
1320		CULVERT PIPE-18 IN	8.00	LF
1325		STORM SEWER PIPE-15 IN	392.00	LF
1330		STORM SEWER PIPE-18 IN	142.00	LF
1335		PERFORATED PIPE-4 IN	2,670.00	LF
1340		NON-PERFORATED PIPE-4 IN	50.00	LF
1345		PERF PIPE HEADWALL TY 3-4 IN	3.00	EACH
1350	01202	PIPE CULVERT HEADWALL-15 IN	1.00	EACH
1355	01433	SLOPED BOX OUTLET TYPE 1-18 IN	1.00	EACH
1360	01450	S & F BOX INLET-OUTLET-18 IN	1.00	EACH
1365	01456	CURB BOX INLET TYPE A	4.00	EACH

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
1370	01545	DROP BOX INLET TYPE 11 MOD	1.00	EACH
1375	01650	JUNCTION BOX	2.00	EACH
1380	01719	ADJUST INLET	1.00	EACH
1385	01740	CORED HOLE DRAINAGE BOX CON-4 IN	2.00	EACH
1390	24814EC	PIPELINE INSPECTION	537.00	LF
1395	06406	SBM ALUM SHEET SIGNS .080 IN	37.00	SQFT
1400	06410	STEEL POST TYPE 1	71.00	LF
1405	06412	STEEL POST MILE MARKERS	1.00	EACH
1410	24631EC	BARCODE SIGN INVENTORY	4.00	EACH
1415	02568	MOBILIZATION	1.00	LS
1420	02569	DEMOBILIZATION	1.00	LS

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

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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:

- Provide 3-line messages with each line being 8 characters long and at least 18 inches tall. Each character comprises 35 pixels.
- 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.

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- 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:

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

*Insert numerals as directed by the Engineer.

Add other messages during the project when required by the Engineer.

2.3 Power.

- 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

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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:

CodePay ItemPay Unit02671Portable Changeable Message SignEach

Effective June 15, 2012

SPECIAL NOTE FOR BARCODE LABEL ON PERMANENT SIGNS

- **1.0 DESCRIPTION.** Install barcode label on sheeting signs. Section references herein are to the Department's Standard Specifications for Road and Bridge Construction, current edition.
- **2.0 MATERIALS.** The Department will provide the Contractor with a 2 inch x 1 inch foil barcode label for each permanent sheeting sign. A unique number will be assigned to each barcode label.

The Contractor shall contact the Operations and Pavement Management Branch in the Division of Maintenance at (502) 564-4556 to obtain the barcode labels.

3.0 CONSTRUCTION. Apply foil barcode label in the lower right quadrant of the sign back. Signs where the bottom edge is not parallel to the ground, the lowest corner of the sign shall serve as the location to place the barcode label. The barcode label shall be placed no less than one-inch and no more than three inches from any edge of the sign. The barcode must be placed so that the sign post does not cover the barcode label.

Barcodes shall be applied in an indoor setting with a minimum air temperature of 50°F or higher. Prior to application of the barcode label, the back of the sign must be clean and free of dust, oil, etc. If the sign is not clean, an alcohol swab shall be used to clean the area. The area must be allowed to dry prior to placement of the barcode label.

Data for each sign shall include the barcode number, MUTCD reference number, sheeting manufacturer, sheeting type, manufacture date, color of primary reflective surface, installation date, latitude and longitude using the North American Datum of 1983 (NAD83) or the State Plane Coordinates using an x and y ordinate of the installed location.

Data should be provided electronically on the TC 71-229 Sign Details Information and TC 71-230 Sign Assembly Information forms. The Contractor may choose to present the data in a different format provided that the information submitted to the Department is equivalent to the information required on the Department TC forms. The forms must be submitted in electronic format regardless of which type of form is used. The Department will not accept PDF or handwritten forms. These completed forms must be submitted to the Department prior to final inspection of the signs. The Department will not issue formal acceptance for the project until the TC 71-229 and TC-230 electronic forms are completed for all signs and sign assemblies on the project.

4.0 MEASUREMENT. The Department will measure all work required for the installation of the barcode label and all work associated with completion and submission of the sign inventory data (TC 71-229 and TC 71-230).

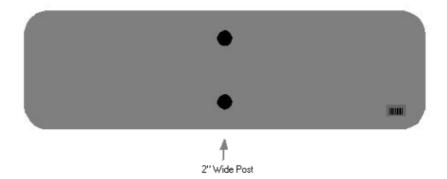
The installation of the permanent sign will be measured in accordance to Section 715.

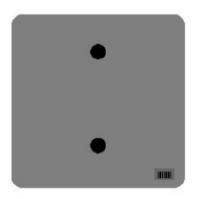
5.0 PAYMENT. The Department will make payment for the completed and accepted quantities under the following:

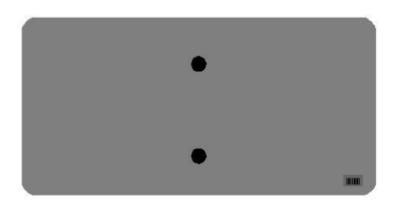
CodePay ItemPay Unit24631ECBarcode Sign InventoryEach

The Department will not make payment for this item until all barcodes are installed and sign inventory is complete on every permanent sign installed on the project. The Department will make payment for installation of the permanent sign in accordance to Section 715. The Department will consider payment as full compensation for all work required under this special note.

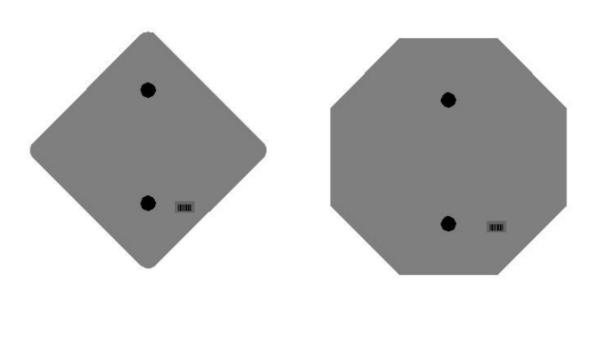
One Sign Post

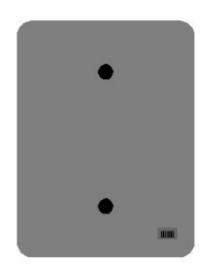


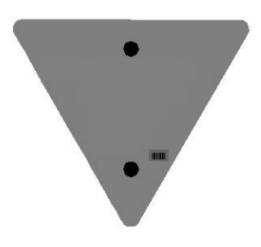




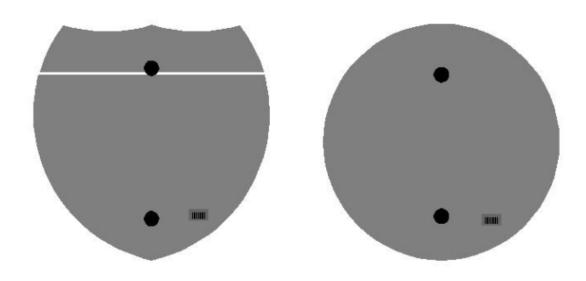
One Sign Post

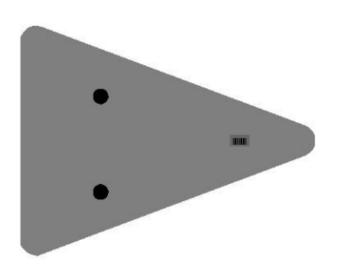




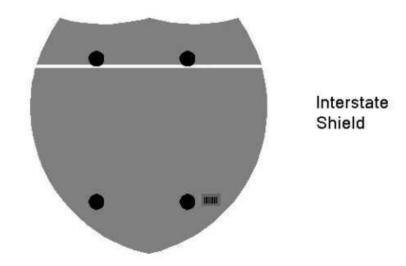


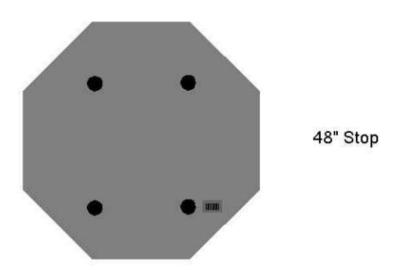
One Sign Post





Double Sign Post

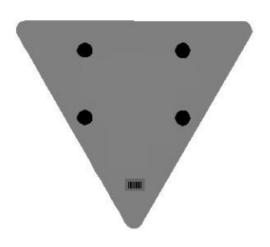




2 Post Signs







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.

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.

- 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

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** 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

I LII IIOOI

BEGINNING JULY 24, 2009

OVERTIME PAY

At least $1\frac{1}{2}$ times your regular rate of pay for all hours worked over 40 in a workweek.

CHILD LABOR

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

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

No more than

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

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

TIP CREDIT

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

ENFORCEMENT

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

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

ADDITIONAL INFORMATION

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



PART IV

INSURANCE

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

current edition

PART V

BID ITEMS

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PROPOSAL BID ITEMS

Report Date 10/18/23

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00003		CRUSHED STONE BASE	3,445.00	TON		\$	
0020	00020		TRAFFIC BOUND BASE	575.00	TON		\$	
0030	00190		LEVELING & WEDGING PG64-22	2,946.00	TON		\$	
0040	00214		CL3 ASPH BASE 1.00D PG64-22	4,706.00	TON		\$	
0050	02101		CEM CONC ENT PAVEMENT-8 IN	851.00	SQYD		\$	
0060	02677		ASPHALT PAVE MILLING & TEXTURING	367.00	TON		\$	
0070	10020NS		FUEL ADJUSTMENT	15,115.00	DOLL	\$1.00	\$	\$15,115.00
0800	10030NS		ASPHALT ADJUSTMENT	37,966.00	DOLL	\$1.00	\$	\$37,966.00
0090	20072ES805		GRANULAR EMBANKMENT	5,048.00	TON		\$	
0100	22906ES403		CL3 ASPH SURF 0.38A PG64-22	2,059.00	TON		\$	
0110	24970EC		ASPHALT MATERIAL FOR TACK NON- TRACKING	13.40	TON		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0120	00078	CRUSHED AGGREGATE SIZE NO 2	17.00	TON		\$	
0130	01811	STANDARD CURB AND GUTTER MOD	1,296.00	LF		\$	
0140	01875	STANDARD HEADER CURB	36.00	LF		\$	
0150	01895	VALLEY GUTTER	20.00	LF		\$	
0160	02091	REMOVE PAVEMENT	316.00	SQYD		\$	
0170	02159	TEMP DITCH	7,925.00	LF		\$	
0180	02160	CLEAN TEMP DITCH	7,925.00	LF		\$	
0190	02200	ROADWAY EXCAVATION	9,067.00	CUYD		\$	
0200	02242	WATER	3.00	MGAL		\$	
0210	02429	RIGHT-OF-WAY MONUMENT TYPE 1	41.00	EACH		\$	
0220	02430	RIGHT-OF-WAY MONUMENT TYPE 1A	1.00	EACH		\$	
0230	02432	WITNESS POST	8.00	EACH		\$	
0240	02483	CHANNEL LINING CLASS II	308.00	TON		\$	
0250	02545	CLEARING AND GRUBBING 1.65 ACRES - SECTION 2	1.00	LS		\$	
0260	02545	CLEARING AND GRUBBING 2.15 ACRES - SECTION 3	1.00	LS		\$	
0270	02545	CLEARING AND GRUBBING 4.3 ACRES	1.00	LS		\$	
0280	02562	TEMPORARY SIGNS	791.00	SQFT		\$	
0290	02585	EDGE KEY	401.50	LF		\$	
0300	02602	FABRIC-GEOTEXTILE CLASS 1	11,616.00	SQYD		\$	
0310	02604	FABRIC-GEOTEXTILE CLASS 1A	9,480.00	SQYD		\$	
0320	02607	FABRIC-GEOTEXTILE CLASS 2 FOR PIPE	3,215.00	SQYD	\$2.00	\$	\$6,430.00
0330	02650	MAINTAIN & CONTROL TRAFFIC SECTION 1	1.00	LS		\$	
0340	02650	MAINTAIN & CONTROL TRAFFIC SECTION 2	1.00	LS		\$	
0350	02650	MAINTAIN & CONTROL TRAFFIC SECTION 3	1.00	LS		\$	
0360	02671	PORTABLE CHANGEABLE MESSAGE SIGN	4.00	EACH		\$	

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PROPOSAL BID ITEMS

Report Date 10/18/23

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0370	02676		MOBILIZATION FOR MILL & TEXT SECTION 1	1.00	LS		\$	
0380	02676		MOBILIZATION FOR MILL & TEXT SECTION 2	1.00	LS		\$	
0390	02676		MOBILIZATION FOR MILL & TEXT SECTION 3	1.00	LS		\$	
0400	02690		SAFELOADING	6.20	CUYD		\$	
0410	02701		TEMP SILT FENCE	7,925.00	LF		\$	
0420	02703		SILT TRAP TYPE A	17.00	EACH		\$	
0430	02704		SILT TRAP TYPE B	17.00	EACH		\$	
0440	02705		SILT TRAP TYPE C	17.00	EACH		\$	
0450	02706		CLEAN SILT TRAP TYPE A	51.00	EACH		\$	
0460	02707		CLEAN SILT TRAP TYPE B	51.00	EACH		\$	
0470	02708		CLEAN SILT TRAP TYPE C	51.00	EACH		\$	
0480	02720		SIDEWALK-4 IN CONCRETE	1,033.80	SQYD		\$	
0490	02726		STAKING SECTION 1	1.00	LS		\$	
0500	02726		STAKING SECTION 2	1.00	LS		\$	
0510	02726		STAKING SECTION 3	1.00	LS		\$	
0520	05950		EROSION CONTROL BLANKET	2,416.00	SQYD		\$	
0530	05952		TEMP MULCH	65,121.00	SQYD		\$	
0540	05953		TEMP SEEDING AND PROTECTION	65,121.00	SQYD		\$	
0550	05963		INITIAL FERTILIZER	1.30	TON		\$	
0560	05964		MAINTENANCE FERTILIZER	.90	TON		\$	
0570	05985		SEEDING AND PROTECTION	7,961.00	SQYD		\$	
0580	05990		SODDING	15,923.00	SQYD		\$	
0590	05992		AGRICULTURAL LIMESTONE	15.00	TON		\$	
0600	06510		PAVE STRIPING-TEMP PAINT-4 IN	12,260.00	LF		\$	
0610	06514		PAVE STRIPING-PERM PAINT-4 IN	3,795.00	LF		\$	
0620	06515		PAVE STRIPING-PERM PAINT-6 IN	28,595.00	LF		\$	
0630	06566		PAVE MARKING-THERMO X-WALK-12 IN	234.00	LF		\$	
0640	06568		PAVE MARKING-THERMO STOP BAR-24IN	199.00	LF		\$	
0650	06574		PAVE MARKING-THERMO CURV ARROW	46.00	EACH		\$	
0660	20550ND		SAWCUT PAVEMENT	11,270.00	LF		\$	
0670	22520EN		PAVE MARKING-THERMO YIELD BAR-36 IN	33.00	LF		\$	
0680	23158ES505		DETECTABLE WARNINGS	192.00	SQFT		\$	
0690	23261EC		PAVE MARK-THERMO-X-WALK-24 IN	159.00	LF		\$	
0700	23274EN11F		TURF REINFORCEMENT MAT 1	421.00	SQYD		\$	
0710	24378EC		ROLL CURB MODIFIED	122.00	LF		\$	

Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0720	00440		ENTRANCE PIPE-15 IN	703.00	LF		\$	
0730	00441		ENTRANCE PIPE-18 IN	141.00	LF		\$	
0740	00451		ENTRANCE PIPE-18 IN EQUIV	108.00	LF		\$	
0750	00462		CULVERT PIPE-18 IN	146.00	LF		\$	
0760	00464		CULVERT PIPE-24 IN	72.00	LF		\$	

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PROPOSAL BID ITEMS

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0770	00521		STORM SEWER PIPE-15 IN	928.00	LF		\$	
0780	00522		STORM SEWER PIPE-18 IN	879.00	LF		\$	
0790	00524		STORM SEWER PIPE-24 IN	120.00	LF		\$	
0800	00526		STORM SEWER PIPE-30 IN	4.00	LF		\$	
0810	01000		PERFORATED PIPE-4 IN	10,658.00	LF		\$	
0820	01010		NON-PERFORATED PIPE-4 IN	220.00	LF		\$	
0830	01024		PERF PIPE HEADWALL TY 2-4 IN	1.00	EACH		\$	
0840	01028		PERF PIPE HEADWALL TY 3-4 IN	16.00	EACH		\$	
0850	01202		PIPE CULVERT HEADWALL-15 IN	1.00	EACH		\$	
0860	01208		PIPE CULVERT HEADWALL-24 IN	1.00	EACH		\$	
0870	01208		PIPE CULVERT HEADWALL-24 IN	1.00	EACH		\$	
0880	01433		SLOPED BOX OUTLET TYPE 1-18 IN	1.00	EACH		\$	
0890	01450		S & F BOX INLET-OUTLET-18 IN	8.00	EACH		\$	
0900	01451		S & F BOX INLET-OUTLET-24 IN	1.00	EACH		\$	
0910	01452		S & F BOX INLET-OUTLET-30 IN	1.00	EACH		\$	
0920	01456		CURB BOX INLET TYPE A	7.00	EACH		\$	
0930	01545		DROP BOX INLET TYPE 11 MOD	12.00	EACH		\$	
0940	01650		JUNCTION BOX	2.00	EACH		\$	
0950	01719		ADJUST INLET	1.00	EACH		\$	
0960	01740		CORED HOLE DRAINAGE BOX CON-4 IN	5.00	EACH		\$	
0970	01756		MANHOLE TYPE A	1.00	EACH		\$	
0980	01767		MANHOLE TYPE C	1.00	EACH		\$	
0990	23952EC		DRAINAGE JUNCTION BOX TY B	1.00	EACH		\$	
1000	24814EC		PIPELINE INSPECTION	2,144.00	LF		\$	

Section: 0004 - SIGNING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1010	06406		SBM ALUM SHEET SIGNS .080 IN	310.00	SQFT		\$	
1020	06407		SBM ALUM SHEET SIGNS .125 IN	16.00	SQFT		\$	
1030	06410		STEEL POST TYPE 1	616.00	LF		\$	
1040	06412		STEEL POST MILE MARKERS	2.00	EACH		\$	
1050	06490		CLASS A CONCRETE FOR SIGNS	.46	CUYD		\$	
1060	24631EC		BARCODE SIGN INVENTORY	43.00	EACH		\$	

Section: 0005 - SIGNALIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1070	04793		CONDUIT-1 1/4 IN	10.00	LF		\$	
1080	04820		TRENCHING AND BACKFILLING	30.00	LF		\$	
1090	04844		CABLE-NO. 14/5C	425.00	LF		\$	
1100	04845		CABLE-NO. 14/7C	1,100.00	LF		\$	
1110	04885		MESSENGER-10800 LB	610.00	LF		\$	
1120	04932		INSTALL STEEL STRAIN POLE	8.00	EACH		\$	
1130	20093NS835		INSTALL PEDESTRIAN HEAD-LED	4.00	EACH		\$	
1140	20188NS835		INSTALL LED SIGNAL-3 SECTION	7.00	EACH		\$	
1150	20275EC		VIDEO DETECTION-INSTALL	1.00	EACH		\$	

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231109 PROPOSAL BID ITEMS

Report Date 10/18/23

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1160	20390NS835		INSTALL COORDINATING UNIT	1.00	EACH		\$	
1170	20408ES835		INSTALL LED BEACON-12 IN	8.00	EACH		\$	
1180	21743NN		INSTALL PEDESTRIAN DETECTOR	4.00	EACH		\$	
1190	23157EN		TRAFFIC SIGNAL POLE BASE	30.40	CUYD		\$	
1200	23222EC		INSTALL SIGNAL PEDESTAL	1.00	EACH		\$	
1210	24526ED		INSTALL-BEACON CONTROLLER-2 CIRCUIT	1.00	EACH		\$	
1220	24900EC		PVC CONDUIT-1 1/4 IN-SCHEDULE 80	20.00	LF		\$	
1230	24901EC		PVC CONDUIT-2 IN-SCHEDULE 80	50.00	LF		\$	
1240	24908EC		INSTALL SIGNAL CONTROLLER-TY ATC	1.00	EACH		\$	
1250	24955ED		REMOVE SIGNAL EQUIPMENT	1.00	EACH		\$	

Section: 0006 - WATERMAIN

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1260	14002		W AIR RELEASE VALVE SPECIAL	2.00	EACH		\$	
1270	14014		W ENCASEMENT STEEL OPEN CUT RANGE 3	115.00	LF		\$	
1280	14015		W ENCASEMENT STEEL OPEN CUT RANGE 4	95.00	LF		\$	
1290	14016		W ENCASEMENT STEEL OPEN CUT RANGE 5	290.00	LF		\$	
1300	14019		W FIRE HYDRANT ASSEMBLY	5.00	EACH		\$	
1310	14021		W FIRE HYDRANT REMOVE	5.00	EACH		\$	
1320	14030		W METER RELOCATE	39.00	EACH		\$	
1330	14031		W METER VAULT	18.00	EACH		\$	
1340	14060		W PIPE PVC 08 INCH	120.00	LF		\$	
1350	14074		W PLUG EXISTING MAIN	15.00	EACH		\$	
1360	14094		W TIE-IN 06 INCH	4.00	EACH		\$	
1370	14096		W TIE-IN 10 INCH	4.00	EACH		\$	
1380	14097		W TIE-IN 12 INCH	6.00	EACH		\$	
1390	14098		W TIE-IN 16 INCH	4.00	EACH		\$	
1400	14105		W VALVE 06 INCH	4.00	EACH		\$	
1410	14106		W VALVE 08 INCH	4.00	EACH		\$	
1420	14108		W VALVE 12 INCH	7.00	EACH		\$	
1430	14109		W VALVE 16 INCH	10.00	EACH		\$	
1440	14148		W SERV COPPER LONG SIDE 3/4 IN	21.00	EACH		\$	
1450	14151		W SERV COPPER SHORT SIDE 2 IN	1.00	EACH		\$	
1460	14152		W SERV COPPER SHORT SIDE 3/4 IN	17.00	EACH		\$	
1470	14523		W PIPE DUCTILE IRON 06 INCH INST	210.00	LF		\$	
1480	14524		W PIPE DUCTILE IRON 08 INCH INST	145.00	LF		\$	
1490	14526		W PIPE DUCTILE IRON 12 INCH INST	1,400.00	LF		\$	
1500	14527		W PIPE DUCTILE IRON 16 INCH INST	2,660.00	LF		\$	

Section: 0007 - DEMOBILIZATION &/OR MOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1510	02568		MOBILIZATION	1.00	LS		\$	
1520	02569		DEMOBILIZATION	1.00	LS		\$	