



**CALL NO. 205**

**CONTRACT ID. 234412**

**JESSAMINE - FAYETTE COUNTIES**

**FED/STATE PROJECT NUMBER 121GR23T024-HSIP**

**DESCRIPTION VARIOUS INTERSECTIONS IN DISTRICT 7**

**WORK TYPE ASPHALT SURFACE WITH GRADE & DRAIN**

**PRIMARY COMPLETION DATE 10/31/2024**

**LETTING DATE: August 24,2023**

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN DAYLIGHT TIME August 24,2023. Bids will be publicly announced at 10:00 AM EASTERN DAYLIGHT TIME.

**NO PLANS ASSOCIATED WITH THIS PROJECT.**

**DBE CERTIFICATION REQUIRED - 0%**

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

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# **PART I**

## **SCOPE OF WORK**

ADMINISTRATIVE DISTRICT - 07

CONTRACT ID - 234412  
121GR23T024-HSIP  
COUNTY - FAYETTE  
PCN - 07034000423W1  
HSIP 0272(119)

NEW CIRCLE ROAD (KY 4) (MP 10.356) SIDEWALK AND DRAINAGE IMPROVEMENTS AT THE INTERSECTION OF KY 4 AT KY 353 (RUSSELL CAVE RD) (MP 10.416), A DISTANCE OF 0.06 MILES.GRADE & DRAIN SYP NO. 07-09012.25.  
GEOGRAPHIC COORDINATES LATITUDE 38:04:15.20 LONGITUDE 84:28:36.90  
ADT 40,721

PCN - 07034002523W1  
HSIP 8610(005)

GEORGETOWN RD (US 25) (MP 17.665) IMPROVEMENTS AT THE INTERSECTION OF GEORGETOWN RD (US 25) AND CITATION BLVD (MP 17.735), A DISTANCE OF 0.07 MILES.ASPHALT SURFACE WITH GRADE & DRAIN SYP NO. 07-09006.40.  
GEOGRAPHIC COORDINATES LATITUDE 38:05:46.00 LONGITUDE 84:30:47.90  
ADT 24,704

PCN - 07034002723W1  
HSIP 8547(010)

NORTH BROADWAY (US 27) (MP 7.810) IMPROVEMENTS AT THE INTERSECTION OF NORTH BROADWAY (US 27) AND W LOUDON AVE (MP 7.964)ASPHALT PAVEMENT & ROADWAY REHAB SYP NO. 07-09006.10.  
GEOGRAPHIC COORDINATES LATITUDE 38:03:35.20 LONGITUDE 84:29:03.60  
ADT 15,424

PCN - 07034002723W2  
HSIP 0272(120)

NORTH BROADWAY (US 27) (MP 9.547) IMPROVEMENTS AT THE INTERSECTION OF US 27 AND HAGGARD LANE (MP 9.929), A DISTANCE OF 0.38 MILES.SIGNS-LIGHTING-SIGNALS SYP NO. 07-09012.70.  
GEOGRAPHIC COORDINATES LATITUDE 38:04:26.50 LONGITUDE 84:27:33.10  
ADT 29,072

PCN - 0703400682302  
HSIP 8547(014)

SOUTH BROADWAY (US 68) (MP 5.539) MINOR WIDENING ALONG US 68 AT RED MILE ROAD (MP 5.639), A DISTANCE OF 0.10 MILES.ASPHALT SURFACE WITH GRADE & DRAIN SYP NO. 07-00967.00.  
GEOGRAPHIC COORDINATES LATITUDE 38:02:18.00 LONGITUDE 84:30:56.00  
ADT 31,889

PCN - 07034006823W1  
HSIP 2681(035)

HARRODSBURG RD (US 68) (MP 2.365) IMPROVEMENTS AT THE INTERSECTION OF HARRODSBURG RD (US 68) AND FT HARRODS RD (MP 2.441)ASPHALT SURFACE WITH GRADE & DRAIN SYP NO. 07-09006.30.  
GEOGRAPHIC COORDINATES LATITUDE 38:00:33.00 LONGITUDE 84:33:42.00  
ADT 34,722

PCN - 0703440092301  
HSIP 8532(008)

ALEXANDRIA DRIVE (CS 4009) (MP 0.150) IMPROVEMENTS AT THE INTERSECTION OF CS 4009 (ALEXANDRIA DRIVE) AND CS 4871 (TRAILWOOD LANE) (MP 0.400), A DISTANCE OF 0.25 MILES.ASPHALT SURFACE WITH GRADE & DRAIN SYP NO. 07-00963.00.  
GEOGRAPHIC COORDINATES LATITUDE 38:04:41.29 LONGITUDE 84:32:56.21  
ADT 11,832

**PCN - 07034452423W1**  
**HSIP 9010(409)**

MAN O WAR BLVD (CS 4524) (MP 1.169) IMPROVEMENTS AT THE INTERSECTION OF MAN O WAR BLVD (CS 4524) AND PARKERS MILL RD (MP 1.369), A DISTANCE OF 0.20 MILES.SIGNS-LIGHTING-SIGNALS SYP NO. 07-09006.60.

GEOGRAPHIC COORDINATES LATITUDE 38:01:42.60 LONGITUDE 84:35:01.50

ADT 18,696

**COUNTY - JESSAMINE**

**PCN - 07057002723W1**  
**HSIP 0271(099)**

NICHOLASVILLE BYPASS (US 27) (MP 7.360) IMPROVEMENTS AT THE INTERSECTION OF NICHOLASVILLE BYPASS (US 27) AND EDGEWOOD DR (MP 7.760), A DISTANCE OF 0.40 MILES.ASPHALT SURFACE WITH GRADE & DRAIN SYP NO. 07-09012.90.

GEOGRAPHIC COORDINATES LATITUDE 37:52:20.50 LONGITUDE 84:35:51.10

ADT 23,487

**COMPLETION DATE(S):**

COMPLETED BY 10/31/2024	APPLIES TO ENTIRE PROJECT
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## **CONTRACT NOTES**

### **PROPOSAL ADDENDA**

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

### **BID SUBMITTAL**

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

### **JOINT VENTURE BIDDING**

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

### **UNDERGROUND FACILITY DAMAGE PROTECTION**

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

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

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

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

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

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

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

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

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

### **HARDWOOD REMOVAL RESTRICTIONS**

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

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

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

### **ACCESS TO RECORDS**

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

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

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

### **BUILD AMERICA, BUY AMERICA ACT (BABA)**

On November 15, 2021, President Biden signed into law the Infrastructure Investment and Jobs Act (IIJA), Pub. L. No. 117-58, includes the Build America, Buy America Act (“the Act”). Pub. L. No. 117-58, §§70901-52. The Act strengthens the Buy America preference to include “construction materials.” The current temporary waiver for **“construction materials”** will expire on November 10, 2022.

The Act will apply to construction materials as outlined in the guidance issued in OMB [M-22-11](#).

Construction Materials – Includes an article, material, or supply – other than an item of primarily iron or steel; a manufactured product; cement and cementitious materials; aggregates such as stone, sand, or gravel; or aggregate binding agents or additives – that is or consists primarily of:

- Non-ferrous metals
- Plastic/polymer-based products (including polyvinylchloride, composite building materials, and polymers used in fiber optic cables);
- Glass (including optic glass);
- Lumber; or
- Drywall.

Construction Materials only applies to items, materials, and supplies that are consumed in, incorporated into, or affixed to an infrastructure project.

Construction Materials does not apply to tools, equipment or supplies brought to the jobsite and removed before completion.

### **BOYCOTT PROVISIONS**

If applicable, the contractor represents that, pursuant to [KRS 45A.607](#), they are not currently engaged in, and will not for the duration of the contract engage in, the boycott of a person or an entity based in or doing business with a jurisdiction with which Kentucky can enjoy open trade.

**Note:** The term Boycott does not include actions taken for bona fide business or economic reasons, or actions specifically required by federal or state law.

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

### **LOBBYING PROHIBITIONS**

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

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

February 1, 2023

## **FEDERAL CONTRACT NOTES**

The Kentucky Department of Highways, in accordance with the Regulations of the United States Department of Transportation 23 CFR 635.112 (h), hereby notifies all bidders that failure by a bidder to comply with all applicable sections of the current Kentucky Standard Specifications, including, but not limited to the following, may result in a bid not being considered responsive and thus not eligible to be considered for award:

- |                                |  |
|--------------------------------|--|
| 102.02 Current Rating          | 102.08 Preparation and Delivery of Proposals |
| 102.13 Irregular Bid Proposals | 102.14 Disqualification of Bidders           |
| 102.09 Proposal Guaranty       |  |

### **CIVIL RIGHTS ACT OF 1964**

The Kentucky Transportation Cabinet, Department of Highways, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C. §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, national origin, sex, age (over 40), religion, sexual orientation, gender identity, veteran status, disability, income- level, or Limited English Proficiency (LEP) in consideration for an award.

### **NOTICE TO ALL BIDDERS**

To report bid rigging activities call: 1-800-424-9071.

The U.S. Department of Transportation (DOT) operates the above toll-free “hotline” Monday through Friday, 8:00 a.m. to 5:00 p.m. eastern time. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should use the “hotline” to report such activities.

The “hotline” is part of the DOT’s continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

### **SECOND TIER SUBCONTRACTS**

Second tier subcontracts are acceptable per Section 108.01 of the Standard Specifications for Road and Bridge Construction. Sub-Contractors fulfilling a disadvantaged business enterprise goal on a project may enter into a 2<sup>nd</sup> tier subcontract with a Non-DBE Subcontractor. However, in this instance, none of the work subcontracted to the Non-DBE Contractor will count toward fulfilling the established Disadvantaged Goal for the project.



### **DISADVANTAGED BUSINESS ENTERPRISE PROGRAM**

It is the policy of the Kentucky Transportation Cabinet (“the Cabinet”) that Disadvantaged Business Enterprises (“DBE”) shall have the opportunity to participate in the performance of highway construction projects financed in whole or in part by Federal Funds in order to create a level playing field for all businesses who wish to contract with the Cabinet. To that end, the Cabinet will comply with the regulations found in 49 CFR Part 26, and the definitions and requirements contained therein shall be adopted as if set out verbatim herein.

The Cabinet, contractors, subcontractors, and sub-recipients shall not discriminate on the basis of race, color, national origin, or sex in the performance of work performed pursuant to Cabinet contracts. The contractor shall carry out applicable requirements of 49 CFR 26 in the award and administration of federally assisted highway construction projects. The contractor will include this provision in all its subcontracts and supply agreements pertaining to contracts with the Cabinet.

Failure by the contractor to carry out these requirements is a material breach of its contract with the Cabinet, which may result in the termination of the contract or such other remedy as the Cabinet deems necessary.

### **DBE GOAL**

The Disadvantaged Business Enterprise (DBE) goal established for this contract, as listed on the front page of the proposal, is the percentage of the total value of the contract.

The contractor shall exercise all necessary and reasonable steps to ensure that Disadvantaged Business Enterprises participate in a least the percent of the contract as set forth above as goals for this contract.

### **OBLIGATION OF CONTRACTORS** MRA(1)

Each contractor prequalified to perform work on Cabinet projects shall designate and make known to the Cabinet a liaison officer who is assigned the responsibility of effectively administering and promoting an active program for utilization of DBEs.

If a formal goal has not been designated for the contract, all contractors are encouraged to consider DBEs for subcontract work as well as for the supply of material and services needed to perform this work.

Contractors are encouraged to use the services of banks owned and controlled by minorities and women.

### **CERTIFICATION OF CONTRACT GOAL**

Contractors shall include the following certification in bids for projects for which a DBE goal has been established. BIDS SUBMITTED WHICH DO NOT INCLUDE CERTIFICATION OF DBE PARTICIPATION WILL NOT BE ACCEPTED. These bids will not be considered for award by the Cabinet and they will be returned to the bidder.

“The bidder certifies that it has secured participation by Disadvantaged Business Enterprises (“DBE”) in the amount of \_\_\_\_\_ percent of the total value of this contract and that the DBE participation is in compliance with the requirements of 49 CFR 26 and the policies of the Kentucky Transportation Cabinet pertaining to the DBE Program.”

**The certification statement is located in the electronic bid file. All contractors must certify their DBE participation on that page. DBEs utilized in achieving the DBE goal must be certified and prequalified for the work items at the time the bid is submitted.**

### **DBE PARTICIPATION PLAN**

Lowest responsive bidders must submit the *DBE Plan/ Subcontractor Request*, form TC 14-35 DBE, within **5** days of the letting. This is necessary before the Awards Committee will review and make a recommendation. **The project will not be considered for award prior to submission and approval of the apparent low bidder’s DBE Plan/Subcontractor Request.**

The DBE Participation Plan shall include the following:

1. Name and address of DBE Subcontractor(s) and/or supplier(s) intended to be used in the proposed project;
2. Description of the work each is to perform including the work item, unit, quantity, unit price and total amount of the work to be performed by the individual DBE. The Proposal Line Number, Category Number, and the Project Line Number can be found in the “material listing” on the Construction Procurement website under the specific letting;
3. The dollar value of each proposed DBE subcontract and the percentage of total project contract value this represents. DBE participation may be counted as follows:
  - a) If DBE suppliers and manufactures assume actual and contractual responsibility, the dollar value of materials to be furnished will be counted toward the goal as follows:
    - The entire expenditure paid to a DBE manufacturer;
    - 60 percent of expenditures to DBE suppliers that are not manufacturers provided the supplier is a regular dealer in the product involved. A regular dealer must be engaged in, as its principal business and in its own name, the sale of products to the public, maintain an inventory and own and operate distribution equipment; and
    - The amount of fees or commissions charged by the DBE firms for a bona fide service, such as professional, technical, consultant, or managerial services and assistance in the procurement of essential personnel, facilities, equipment, materials, supplies, delivery of materials and supplies or for furnishing bonds, or insurance, providing such fees or commissions are determined to be reasonable and customary.
  - b) The dollar value of services provided by DBEs such as quality control testing, equipment repair and maintenance, engineering, staking, etc.;

- c) The dollar value of joint ventures. DBE credit for joint ventures will be limited to the dollar amount of the work actually performed by the DBE in the joint venture;
- 4. Written and signed documentation of the bidder's commitment to use a DBE contractor whose participation is being utilized to meet the DBE goal; and
- 5. Written and signed confirmation from the DBE that it is participating in the contract as provided in the prime contractor's commitment.

**AFTER PROJECT AWARD AND BEFORE NOTICE TO PROCEED/WORK ORDER IS ISSUED (SEE SECTION 103.06, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION**

Prime Contractors awarded a federally funded project with a DBE Goal greater than zero will be required to submit DBE Subcontract Agreement Form, TC 14-36, along with the attached FHWA 1273 and Certificate of Liability Insurance for each DBE Firm submitted as part of the previously approved DBE Utilization Plan (TC 14-35). A signed quote or purchase order shall be attached when the DBE subcontractor is a material supplier or broker.

The Certificate of Liability Insurance submitted must meet the requirements outlined in Section 107.18 of the Standard Specifications for Road and Bridge Construction.

Changes to **APPROVED** DBE Participation Plans must be approved by the Cabinet. The Cabinet may consider extenuating circumstances including, but not limited to, changes in the nature or scope of the project, the inability or unwillingness of a DBE to perform the work in accordance with the bid, and/or other circumstances beyond the control of the prime contractor.

**CONSIDERATION OF GOOD FAITH EFFORTS REQUESTS**

If the DBE participation submitted in the bid by the apparent lowest responsive bidder does not meet or exceed the DBE contract goal, the apparent lowest responsive bidder must submit a Good Faith Effort Package to satisfy the Cabinet that sufficient good faith efforts were made to meet the contract goals prior to submission of the bid. Efforts to increase the goal after bid submission will not be considered in justifying the good faith effort, unless the contractor can show that the proposed DBE was solicited prior to the letting date. DBEs utilized in achieving the DBE goal must be certified and prequalified for the work items at the time the bid is submitted. One complete set (hard copy along with an electronic copy) of this information must be received in the Division of Contract Procurement no later than 12:00 noon of the tenth calendar day after receipt of notification that they are the apparent low bidder.

Where the information submitted includes repetitious solicitation letters it will be acceptable to submit a sample representative letter along with a distribution list of the firms solicited. Documentation of DBE quotations shall be a part of the good faith effort submittal as necessary to demonstrate compliance with the factors listed below which the Cabinet considers in judging good faith efforts. This documentation may include written subcontractors' quotations, telephone log notations of verbal quotations, or other types of quotation documentation.

The Good Faith Effort Package shall include, but may not be limited to information showing evidence of the following:

1. Whether the bidder attended any pre-bid meetings that were scheduled by the Cabinet to inform DBEs of subcontracting opportunities;
2. Whether the bidder provided solicitations through all reasonable and available means;
3. Whether the bidder provided written notice to all DBEs listed in the DBE directory at the time of the letting who are prequalified in the areas of work that the bidder will be subcontracting;
4. Whether the bidder followed up initial solicitations of interest by contacting DBEs to determine with certainty whether they were interested. If a reasonable amount of DBEs within the targeted districts do not provide an intent to quote or no DBEs are prequalified in the subcontracted areas, the bidder must notify the Disadvantaged Enterprise Business Liaison Officer (DEBLO) in the Office for Civil Rights and Small Business Development to give notification of the bidder's inability to get DBE quotes;
5. Whether the bidder selected portions of the work to be performed by DBEs in order to increase the likelihood of meeting the contract goals. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate DBE participation, even when the prime contractor might otherwise perform these work items with its own forces;
6. Whether the bidder provided interested DBEs with adequate and timely information about the plans, specifications, and requirements of the contract;
7. Whether the bidder negotiated in good faith with interested DBEs not rejecting them as unqualified without sound reasons based on a thorough investigation of their capabilities. Any rejection should be so noted in writing with a description as to why an agreement could not be reached;
8. Whether quotations were received from interested DBE firms but were rejected as unacceptable without sound reasons why the quotations were considered unacceptable. The fact that the DBE firm's quotation for the work is not the lowest quotation received will not in itself be considered as a sound reason for rejecting the quotation as unacceptable. The fact that the bidder has the ability and/or desire to perform the contract work with its own forces will not be considered a sound reason for rejecting a DBE quote. Nothing in this provision shall be construed to require the bidder to accept unreasonable quotes in order to satisfy DBE goals;
9. Whether the bidder specifically negotiated with subcontractors to assume part of the responsibility to meet the contract DBE goal when the work to be subcontracted includes potential DBE participation;
10. Whether the bidder made any efforts and/or offered assistance to interested DBEs in obtaining the necessary equipment, supplies, materials, insurance and/or bonding to satisfy the work requirements of the bid proposal; and
11. Any other evidence that the bidder submits which may show that the bidder has made reasonable good faith efforts to include DBE participation.

### **FAILURE TO MEET GOOD FAITH REQUIREMENT**

Where the apparent lowest responsive bidder fails to submit sufficient participation by DBE firms to meet the contract goal and upon a determination by the Good Faith Committee based upon the information submitted that the apparent lowest responsive bidder failed to make sufficient reasonable efforts to meet the contract goal, the bidder will be offered the opportunity to meet in person for administrative reconsideration. The bidder will be notified of the Committee's decision within 24 hours of its decision. The bidder will have 24 hours to request reconsideration of the Committee's decision. The reconsideration meeting will be held within two days of the receipt of a request by the bidder for reconsideration.

The request for reconsideration will be heard by the Office of the Secretary. The bidder will have the opportunity to present written documentation or argument concerning the issue of whether it met the goal or made an adequate good faith effort. The bidder will receive a written decision on the reconsideration explaining the basis for the finding that the bidder did or did not meet the goal or made adequate Good Faith efforts to do so.

The result of the reconsideration process is not administratively appealable to the Cabinet or to the United States Department of Transportation.

The Cabinet reserves the right to award the contract to the next lowest responsive bidder or to rebid the contract in the event that the contract is not awarded to the low bidder as the result of a failure to meet the good faith requirement.

### **SANCTIONS FOR FAILURE TO MEET DBE REQUIREMENTS OF THE PROJECT**

Failure by the prime contractor to fulfill the DBE requirements of a project under contract or to demonstrate good faith efforts to meet the goal constitutes a breach of contract. When this occurs, the Cabinet will hold the prime contractor accountable, as would be the case with all other contract provisions. Therefore, the contractor's failure to carry out the DBE contract requirements shall constitute a breach of contract and as such the Cabinet reserves the right to exercise all administrative remedies at its disposal including, but not limited to the following:

- Suspension of Prequalification;
- Disallow credit toward the DBE goal;
- Withholding progress payments;
- Withholding payment to the prime in an amount equal to the unmet portion of the contract goal; and/or
- Termination of the contract.

### **PROMPT PAYMENT**

The prime contractor will be required to pay the DBE and Non-DBE Subcontractors within seven (7) working days after he or she has received payment from the Kentucky Transportation Cabinet for work performed or materials furnished.

### **CONTRACTOR REPORTING**

All contractors must keep detailed records and provide reports to the Cabinet on their progress in meeting the DBE requirement on any highway contract. These records may include, but shall not be limited to payroll, lease agreements, cancelled payroll checks, executed subcontracting agreements, etc. Prime contractors will be required to complete and submit a **signed and notarized** Affidavit of Subcontractor Payment (TC 18-7) and copies of checks for any monies paid to each DBE subcontractor or supplier utilized to meet a DBE goal. These documents must be completed and signed within 7 days of being paid by the Cabinet.

Payment information that needs to be reported includes date the payment is sent to the DBE, check number, Contract ID, amount of payment and the check date. Before Final Payment is made on this contract, the Prime Contractor will certify that all payments were made to the DBE subcontractor and/or DBE suppliers.

\*\*\*\*\* IMPORTANT \*\*\*\*\*

**Please mail the original, signed and completed TC (18-7) Affidavit of Subcontractor Payment form and all copies of checks for payments listed above to the following address:**

Office for Civil Rights and Small Business Development  
6<sup>th</sup> Floor West 200 Mero Street  
Frankfort, KY 40622

The prime contractor should notify the KYTC Office for Civil Rights and Small Business Development seven (7) days prior to DBE contractors commencing work on the project. The contact in this office is Mr. Melvin Byne. Mr. Byne's current contact information is email address – [melvin.bynes2@ky.gov](mailto:melvin.bynes2@ky.gov) and the telephone number is (502) 564-3601.

### **DEFAULT OR DECERTIFICATION OF THE DBE**

If the DBE subcontractor or supplier is decertified or defaults in the performance of its work, and the overall goal cannot be credited for the uncompleted work, the prime contractor may utilize a substitute DBE or elect to fulfill the DBE goal with another DBE on a different work item. If after exerting good faith effort in accordance with the Cabinet's Good Faith Effort policies and procedures, the prime contractor is unable to replace the DBE, then the unmet portion of the goal may be waived at the discretion of the Cabinet.

### **PROHIBITION ON TELECOMMUNICATIONS EQUIPMENT OR SERVICES**

In accordance with the FY 2019 National Defense Authorization Act (NDAA), 2 CFR 200.216, and 2 CFR 200.471, Federal agencies are prohibited, after August 13, 2020, from obligating or expending financial assistance to obtain certain telecommunications and video surveillance services and equipment from specific producers. As a result of these regulations, contractors and subcontractors are prohibited, on projects with federal funding participation, from providing telecommunication or video surveillance equipment, services, or systems produced by:

- Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities)
- Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities)

Revised: 7/21/2023

**LEGAL REQUIREMENTS AND RESPONSIBILITY TO THE PUBLIC – CARGO  
PREFERENCE ACT (CPA).**

**(REV 12-17-15) (1-16)**

SECTION 7 is expanded by the following new Article:

**102.10      Cargo Preference Act – Use of United States-flag vessels.**

Pursuant to Title 46CFR Part 381, the Contractor agrees

- To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels.
- To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph 1 of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590.
- To insert the substance of the provisions of this clause in all subcontracts issued pursuant to this contract.

**NATIONAL HIGHWAY**

Be advised this project is on the NATIONAL HIGHWAY SYSTEM.

**OPTION B**

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



## Special Notes Applicable to Project GENERAL NOTES

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Except as specified herein, perform all work in accordance with the Department's Standard Specifications, Supplemental Specifications, applicable Special Notes and Special Provisions, and applicable Standard and Sepia Drawings, current editions. Section references are to the Standard Specifications.

### **CAUTION – PROPOSAL INFORMATION IS APPROXIMATE – PERFORM AN ON-SITE INSPECTION**

Potential bidders are cautioned that the information within this proposal is approximate only and is not to be taken as an exact evaluation of the bid quantities, nor the materials and conditions that may be encountered during construction. As such, before submitting a bid, potential bidders shall make a thorough inspection of the site to examine the conditions to be encountered per Section 104.07. Furthermore, during the execution of the work, the Engineer reserves the right to make changes to the bid item quantities and/or alterations in the work when necessary to complete the project satisfactorily per Section 104.02.

NOTE: The Department will pay for bid item quantity overruns, but only if pre-approved by the Engineer.

### **STATIONING**

The contractor is advised that the planned locations of work were established from the following stations:

- **7-963.00 - Fayette County, Alexandria Drive (CS 4009):** A station number which is STA 13+25 (Milepoint 0.251) which is the intersection of Alexandria Drive and Trailwood Lane in Fayette County.
- **7-967.00 – Fayette County, South Broadway (US 68):** A station number, which is STA 298+48 at the intersection of US 68 and Virginia Ave. and corresponds to Milepoint 5.653 along US 68.
- **7-9006.10 - Fayette County, North Broadway (US 27) MP 7.853 at West Loudon:** A station number which is STA 414+64 which is the intersection of North Broadway and West Loudon in Fayette County. Milepoints were established from a Milepoint which is MP 7.853 along North Broadway at the intersection of North Broadway and West Loudon.
- **7-9006.30 - Fayette County, Harrodsburg Road (US 68) MP 2.403 at Ft. Harrods Drive:** A station number which is STA 126+87 which is the intersection of Harrodsburg Road and Ft. Harrods Drive in Fayette County. Milepoints were established from a Milepoint which is MP 2.403 along Harrodsburg Road at the intersection of Harrodsburg Road and Ft. Harrods Drive.
- **7-9006.40 - Fayette County, Georgetown Road (US 25) MP 17.695 at Citation Boulevard:** A station number which is STA 934+30 which is the intersection of Georgetown Road and Citation Boulevard in Fayette County. Milepoints were established from a Milepoint which is MP 17.695 along Georgetown Road at the intersection of Georgetown Road and Citation Boulevard.
- **7-9006.60 - Fayette County, Man O War (CS 4524) MP 1.269 at Parkers Mill Road:** A station number which is STA 67+00 which is the intersection of Man O War Boulevard and Parkers Mill Road in Fayette County. Milepoints were established from a Milepoint which is MP 1.269 along Man O War Boulevard at the intersection of Man O War and Parkers Mill Road.
- **7-9012.25 - Fayette County, New Circle Road (KY 4) MP 10.356 at Russell Cave Road (KY 353):** A station number for New Circle Road is STA 546+80 which is established from the Milepoint (MP 10.356) at the intersection of New Circle Road and Russell Cave Road. A station number for Russell Cave Road at this intersection is STA 50+00.
- **7-9012.70 - Fayette County, North Broadway (US 27) MP 9.597 at Haggard Lane:** A station number which is STA 494+00 which is the intersection of US 27 and Haggard Lane in Fayette County. Milepoints were established from a Milepoint which is MP 9.597 along New Circle Road at the intersection of New Circle Road and Russell Cave Road. A station number for Haggard Lane at this intersection is STA 50+00.

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- **7-9012.90 - Jessamine County, Nicholasville Bypass (US 27) MP 7.560 at Edgewood Dr:** A station number for US 27 is STA 127+50, which is established from the Milepoint (MP 7.560) at the intersection of US 27 and Edgewood Drive. A station number for Edgewood Drive at this intersection is STA 107+73.

The existing mile marker signs may not correspond to the proposed work locations.

**ON-SITE INSPECTION**

Before submitting a bid for the work, make a thorough inspection of the site and determine existing conditions so that the work can be expeditiously performed after a contract is awarded. The Department will consider submission of a bid to be evidence of this inspection having been made. The Department will not honor any claims for money or time extension resulting from site conditions.

**RIGHT OF WAY LIMITS**

The Department has not established the exact limits of the Right-of-Way. Unless a consent and release from is obtained from the adjoining property owner, limit work activities to the obvious Right-of-Way and staging areas secured and environmentally cleared by the Contractor at no additional cost to the Department. In the event that private improvements (i.e. fences, buildings, etc.) encroach upon the Right-of-Way, the contractor shall notify the Engineer and limit work activities in order to NOT disturb the improvements. If they become necessary, the Department will secure consent and releases from property owners through the Engineer. Be responsible for all encroachments onto private lands.

**CONTROL**

Perform all work under the absolute control of the Department of Highways. Obtain the Engineer's approval of all designs required to be furnished by the Contractor prior to incorporation into the work. The Department reserves the right to have other work performed by other contractors and its own forces and to permit public utility companies and others to do work during the construction within the limits of, or adjacent to, the project. Conduct operations and cooperate with such other parties so that interference with such other work will be reduced to a minimum. The Department will not honor any claims for money or time extension created by the operations of such other parties.

Should a difference of opinion arise as to the rights of the Contractor and others working within the limits of, or adjacent to, the project, the Engineer will decide as to the respective rights of the various parties involved in order to assure the completion of the Department's work in general harmony and in a satisfactory manner, and his/her decision shall be final and binding upon the Contractor.

**DESCRIPTION OF WORK**

**7-963.00 - Fayette County, Alexandria Drive at Trailwood Lane:**

**Pavement Widening.** The existing pavement along the left side of Alexandria Drive is to be widened from approximate Station 9+10 to 17+07. This work includes, but is not limited to, excavation and longitudinal edge key to prepare the area to receive full depth pavement and placement of full depth pavement. The excavation bid item will include any full-depth pavement removal as well as regrading roadside slopes. Other items of work may include but is not limited to: removal and relocation of existing signs and temporary erosion control. Refer to the Typical Sections, Summary Sheets, Plan Sheets, and Special Notes for more information and details on this work.

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**Pavement Resurfacing.** The existing roadway is to be resurfaced from Station 9+10 to Station 16+25. Other items that may be associated with the pavement resurfacing include: removal of existing pavement by milling and texturing and application of pavement markings.

**Perforated Pipe.** A quantity of 700 linear feet of Perforated Pipe – 4 in, 15 linear feet of Non-perforated Pipe – 4 in, and 1 Perforated Pipe Headwall Type 1 – 4 in, has been included in the contract for use in conjunction with the pavement widening and/or potential use in other areas as directed by the Engineer. The Contractor and Engineer should work together to determine any locations throughout the project requiring perforated pipe. The Engineer will make the final determination as to the quantities and placement of Perforated Pipe and associated bid items.

**Remove and Relocate Sheet Signs.** A quantity of 2 each of “Remove and Relocate Sheet Signs” has been included in the contract for existing sheet signs that will need to be relocated due to the proposed pavement widening. Do not remove an existing sign until just prior to working in the vicinity of the sign. Install the sign in its proposed location as soon as possible once the construction activities in the vicinity of the sign has reached a stage that the sign will no longer be an obstruction or interfere with the work. The intent is for the sign to be “down” the minimum length of time necessary.

**Sidewalk.** Existing sidewalk is to be removed and sidewalk with ADA ramps are to be constructed as shown in the plan sheets and summaries. Prior to beginning the ADA ramp work, the Engineer must be consulted to determine the final ramp type, layout, and quantities.

**Luminaires.** Two existing luminaires will be removed as part of this project. Two new pole bases will be installed by Kentucky Utilities. The conduit will be installed by the Contractor as shown in the plans. This work should be completed before beginning roadway construction to minimize the time that the luminaires will be out of service. The Contractor shall coordinate with Kentucky Utilities (KU) and LFUCG prior to performing this work.

**7-967.00 - Fayette County, Broadway at Red Mile Road:**

**Minor Widening.** Sta. 294+19 to Sta. 297+81, construct Full Depth Pavement and Curb & Gutter to widen US 68 outside thru lane to allow for a longer US 68 northbound left turn lane onto Red Mile Road. Work will include sawcut existing pavement, roadway excavation, remove existing curb and gutter, remove existing sidewalk, full depth pavement, and proposed curb and gutter. Coordinate with LOFTS construction and Utility Companies during construction as indicated on the Plan Sheets. Refer to the Typical Section, Plan Sheets, Detail Sheets, and Summaries for more information.

**Pavement Resurfacing.** US 68 northbound approach is to be resurfaced from Station 293+82 to Station 297+95. Work will include removal of existing pavement by milling and texturing and asphalt surface. Refer to the Typical Section, Plan Sheets, Detail Sheets, and Summaries for more information.

**Proposed Sidewalk.** Construct proposed sidewalk, 5' width and 4 ½" depth concrete, from Sta. 294+19 to Sta. 295+37. Tie into existing sidewalk at beginning and end construction limits. Do not disturb existing utility poles and guy wires. Coordinate with Lofts Construction on their section of proposed sidewalk by others. Refer to the Typical Section, Plan Sheets, Detail Sheets, and Summaries for more

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information.

**Remove and Relocate Sign Assembly.** Remove existing City of Lexington Wayfinding sign and relocate approximately 5' behind proposed sidewalk. The intent is that the edge of the wayfinding sign will not be over top the proposed sidewalk. All work necessary to remove and relocate sign at proposed location, including sign foundation, is incidental to the bid item "REMOVE AND RELOCATE SIGN ASSEMBLY". Refer to City of Lexington Detail Sheets and Sign Specifications for more information.

**Proposed Striping.** Following resurfacing operations, place thermoplastic striping and pavement markings as shown on the Striping Plan Sheet. Refer to the Striping and Pavement Marking Summary, Standard Drawings, and Striping Plan Sheet for more information.

**Signal.** Install WaveTronix system for detection. Contact KYTC District 7 Traffic Engineer a minimum of two (2) weeks' notice to order detection system. Refer to the Signal Plan Sheets, Summary Sheets and Special Note for Radar Presence Detection Devices for more information.

**7-9006.10 - Fayette County, North Broadway (US 27) at West Loudon:** Work at this intersection will consist of milling and resurfacing the north leg of North Broadway and installing standard barrier median, Pexco City Post Markers, signage, thermoplastic striping and pavement markings, and installing supplemental signal heads. Work on West Loudon includes thermoplastic striping.

**7-9006.30 - Fayette County, Harrodsburg Road (US 68) at Ft. Harrods Drive:** Work at this intersection will consist of constructing offset left turn lanes on Harrodsburg Road and widening Ft. Harrods Drive to install a third southbound lane, installing signal heads with reflective backplates, signing, thermoplastic striping and pavement markings, and pedestrian improvements including a crosswalk across Harrodsburg Road. Remove and replace ADA ramps identified on the plan sheets. Prior to beginning the ADA ramp work, the Engineer must be consulted to determine the final ramp type, layout, and quantities. Removal of existing signal heads will be paid under the bid item "Remove Signal Equipment."

**Remove (Brick Mailbox).** The existing mailbox at Ft. Harrods Dr. Sta. 11+55, 22' RT will be removed as part of this work. The Contractor is responsible for removing this mailbox. The Department of Highways will install a new mailbox before removal of the existing mailbox. The removal of the existing mailbox shall be coordinated with the Engineer.

**7-9006.40 - Fayette County, Georgetown Road (US 25) at Citation Boulevard:** Work at this intersection will consist of reshaping the median nose on Citation Boulevard, adding lane extension markings, and installing supplemental signal heads.

**7-9006.60 - Fayette County, Man O War (CS 4524) at Parkers Mill Road:** Work at this intersection will consist of installing signal heads with reflective backplates, thermoplastic striping, pavement marking, and cross-hatching, signing, and constructing ADA ramps. Prior to beginning the ADA ramp work, the Engineer must be consulted to determine the final ramp type, layout, and quantities. Removal of existing signal heads will be paid under the bid item "Remove Signal Equipment."

General Notes  
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**7-9012.25 - Fayette County, New Circle Road (KY 4) MP 10.356 at Russell Cave Road (KY 353):** Work at this intersection will consist of constructing sidewalk along both sides of New Circle Road, in addition to drainage and entrance improvements.

**Sidewalk.** Construct the sidewalk as shown on the plans. Any earthwork to place sidewalk and minor regrading will be incidental to the sidewalk installation. A Consent and Release has been obtained from LFUC Housing Authority and Taco Bell to complete sidewalk construction as needed outside of the Right of Way limits. The Contractor should keep construction area to the minimum area needed for construction (see Consent and Release for further details).

**Standard Curb and Gutter (MOD).** The gutter slope of the standard curb and gutter shown in the Standard Drawing is to be modified to ensure positive drainage and maintain a minimum slope of 0.50% along the gutter line. Approximate gutter elevations are included on the cross sections but should be verified in the field to ensure positive drainage.

**Driveway Surfacing.** To accommodate the proposed drainage improvements, the existing concrete entrance at Sta. 548+88 will be replaced with Cem. Concrete Entrance Pavement-8" (24 hr cure concrete). The Engineer will make the final determination as to the locations and quantities required to complete the work based on the existing conditions encountered during construction. The entrance should be constructed to grade to drain to the new gutter and/or drainage boxes. The contractor shall saw cut the existing edge of concrete entrance to replace the existing concrete apron. Any repair to damage of the adjacent asphalt entrance is the responsibility of the contractor. See Traffic Control Plan for restrictions on maintaining access to entrance.

**Drainage Improvements.** There will be drainage improvements with the entrance and sidewalk construction on the south side of New Circle Road. Locations and estimated quantities are noted on the Pipe Sheet and included in the General Summary. Included with the pipe extensions/replacements is a Drop Box Inlet Type 12A, Junction Box- 18", Junction Box Type B, erosion control blanket, cap box inlet, etc. Reconstructing the concrete apron to tie in the proposed culvert pipe to the existing drop box inlet will be incidental to the pipe construction. Cleaning out the existing 18" pipe adjacent to New Circle Road within the limits of the work, from Rt. Sta 548+70.5 to Sta 549+63, will be incidental to the pipe construction.

**Sod / Erosion Control Blanket.** A quantity of Sodding is included in the General Summary for disturbed areas around the new sidewalk (generally assumed 5' wide behind sidewalk). Keep disturbance to a minimum. A quantity of Erosion Control Blanket has been included in the contract for potential use along ditch lines and any other areas as directed by the Engineer. The Contractor and Engineer should work together to determine the location and best use of Erosion Control Blanket and Sodding throughout this project. The Engineer will make the final determination as to the quantities and placement of Erosion Control Blanket and Sodding.

**Fiber Conduit.** The contractor is to rebury the exposed LFUCG fiber optic conduit around Rt. Sta. 548+50, incidental to the sidewalk installation. Use the LFUCG Fiber Installation details included in the proposal for this work. Maintain a minimum cover of 24" to reinstalled conduit.

General Notes  
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**7-9012.70 - Fayette County, North Broadway (US 27) at Haggard Ln:** Work at this intersection will consist of installing signal heads with reflective backplates at Haggard Lane and the SB I-75 ramp and North Broadway, installing lane separator curb and striping on Haggard Lane, and standard barrier median and a new sign along North Broadway. Removal of existing signal heads will be paid under the bid item "Remove Signal Equipment."

**7-9012.90 - Jessamine County, Nicholasville Bypass (US 27) MP 7.560 at Edgewood Dr.:** Work at this intersection will consist of constructing offset left-turn lanes along US 27, as well as installing signal heads with reflective backplates on US 27, new pedestrian pedestals, new loop detectors, and striping and sidewalk improvements.

**Sidewalk.** Construct the sidewalk as shown in the plans. Any earthwork to place sidewalk and minor regrading will be incidental to Sidewalk 4-in Concrete. A Consent and Release form has been obtained to complete sidewalk construction as needed outside of Right of Way. Contractor should keep construction area to minimum area needed for construction (see Consent and Release for further details).

**Standard Curb and Gutter.** The gutter slope of the standard curb and gutter is to be constructed to ensure positive drainage and maintain minimum slope of 0.50% along the gutter line. A quantity of leveling and wedging has been included for the west side of the intersection along Edgewood Drive to ensure positive drainage. See Special Note for Staking for further description.

**Offset Left Turn Lanes.** Construct offset left turn lanes along US 27 on either side of the intersection. This will include the construction of full depth pavement, mill and overlay of the existing turn lane, and standard barrier median, Type 2. Regrade the median ditches to drain. Elevations on the plans are approximate and should be verified in the field. For potential poor median soil, crushed aggregate No. 2 and geotextile fabric is provided to be used at the discretion of the engineer.

**DGA Wedge & Chip Seal.** The offset left turn lane is set up to receive a DGA Wedge & Chip Seal after the grading is complete. The proposed DGA Wedge dimensions are detailed on the Typical Sections.

**Drainage Improvements.** There will be drainage improvements with the construction of the offset left turn lane on the north side of the intersection. Locations and estimated quantities are noted on the Pipe Section and included in the General Summary. Included with the pipe extensions/replacements is a drop box inlet, Type 5D, erosion control blanket, cap box inlet, etc.

**Erosion Control Blanket.** A quantity of Erosion Control Blanket has been included in the contract for potential use along areas of regraded shoulders, ditch lines, fills slopes and/or back slopes, inlets and outlets of pipes, and any other areas as directed by the Engineer. The Contractor and Engineer should work together to determine the location and best use of Erosion Control Blanket throughout this project. The Engineer will make the final determination as to the quantities and placement of Erosion Control Blanket.

**Remove Signal Equipment:** Any existing traffic signal material or equipment associated with this work that is no longer needed shall also be disposed of by the contractor and paid under the bid item

General Notes  
Page 7 of 7

REMOVE SIGNAL EQUIPMENT. At these intersections, removal items may generally include but not be limited to the following:

- Nicholasville Bypass (US 27) at Edgewood Dr – signal heads and pedestrian detectors

**Removal of Existing Signs.** Estimated quantities of “Remove Sign” are included within the Remove Sign Summary. This bid item is for the removal of the signs on either side of the intersection along the median of US 27.

## SPECIAL NOTE FOR STAKING

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Perform Contractor Staking according to Section 201; except, in addition to the requirements of Section 201, perform the following:

1. Contrary to Section 201, perform items 1-2 usually performed by the Engineer.
2. Verify the dimensions, type, and quantities of the culvert pipes, entrance pipes, and/or box culverts as listed and detailed in the proposal, and determine flow line elevations and slopes necessary to provide positive drainage. Revise as necessary to accommodate the existing site conditions; to provide proper alignment of the drainage structures with existing and/or proposed ditches, stream channels, swales, and the roadway lines and grades; and to ensure positive drainage upon completion of the work.
3. Produce and furnish to the Engineer "As Built" information for the drainage improvements. "As Built" information will consist of a final record of the actual types, sizes, and locations of the drainage structures (i.e. box inlets, headwalls, junction boxes, etc.), culvert pipes, and/or box culverts constructed. Final elevation data of the drainage improvements is not necessary.
4. For 7-9012.25, Fayette County, New Circle Road (KY 4) at Russell Cave Road:
  - Layout the proposed curb and gutter along New Circle Road to ensure positive drainage for the new curb and gutter system. It is the intent to use Standard Curb and Gutter (MOD) to adjust the gutter slope as necessary to achieve a 0.50% minimum slope. Regrade the entrance pavement to ensure positive drainage with the new Drop Box Inlet Type 12A and to the standard curb and gutter.
  - Ensure positive drainage along the roadside ditch. Cross Sections show approximate elevations but should be verified in the field.
5. For 7-9012.90, Jessamine County, Nicholasville Bypass (US 27) MP 7.560 at Edgewood Drive:
  - Layout the proposed curb and gutter along Edgewood Drive to ensure positive drainage for the new curb and gutter system. It is the intent to utilize asphalt milling and texturing, level & wedging, and new asphalt surface on Edgewood Drive to promote positive drainage along the curb and gutter.
  - Determine elevations along the proposed turn lanes of US 27, matching existing pavement slope where possible. Ensure positive drainage along the roadway and roadside ditch. Cross Sections show approximate elevations but should be verified in the field.
6. Using stakes, paint marks on the pavement, mag nails, and/or any other means approved by the Engineer, the Contractor shall mark and/or stake the proposed sign locations in the field. NOTE: The proposed signs are listed in the proposal by approximate location and are NOT to be taken as the exact location for the signs. During staking operations, the Contractor shall review the signing layout and existing field conditions and look for



## Staking Page 2 of 2

potential conflicts, including but not limited to utilities, driveways, visual obstructions, etc. When conflicts are found, adjust the staked location of signs to mitigate conflicts. Because the sign locations in the proposal are approximate and the location of some signs may need to be adjusted due to conflicts, during staking operations the Contractor shall refer to and utilize the information in the Manual on Uniform on Traffic Control Devices (MUTCD), current edition. The MUTCD cover items such as: appropriate sign location, advance placement distances, and spacing requirements for signing. The intent is for the proposed signs to be consistent with, and meet the requirements of, the MUTCD. Once the proposed sign locations have been staked, notify and coordinate with the District Traffic Engineer, and perform a review of the staked locations. Adjust the staked locations, as directed by the District Traffic Engineer and obtain approval of the final staked locations. This review will also be used to determine if there are any existing signs that require removal and/or relocation. Provide the District Traffic Engineer with 2 weeks of notice when a route will be ready for a review of the staked locations. NOTE: The District Traffic Engineer may determine that the proposed signing, including sign types and messages, needs to be adjusted and/or modified from what is shown in the proposal. Therefore, the Contractor shall not order any sign material for a route until the route has been staked and final sign location approval has been given by the District Traffic Engineer.

7. Using paint marks on the pavement, and/or any other means approved by the Engineer, the Contractor shall layout and pre-mark the proposed striping, pavement markings, Lane Separator Curb systems; including Pexco City Post (Embedded Anchor Cup), Pexco FG 300, and Qwick Kurb brand, etc. Adjust as necessary to accommodate the existing site conditions and to provide proper alignment of the proposed thru and turning lanes. Obtain approval of the pre-marked layout from the Engineer and/or District Traffic Engineer prior to installing the striping and/or pavement markings.
8. Prior to incorporating into the work, obtain the Engineers approval of all revisions determined by the Contractor.
9. Perform any and all other staking operations required to control and construct the work.

## Special Note for Erosion Control

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### I. DESCRIPTION

Perform all erosion and water pollution control work in accordance with any other notes in the Proposal, the Department's Standard and Interim Supplemental Specifications, the Special Provisions and Special Notes, and the Standard and Sepia Drawings, current editions, or as directed by the Engineer. Section references are to the Standard Specifications. This work shall consist of:

(1) Developing and preparing a Best Management Practices Plan (BMP) tailored to suit the specific construction phasing for each site within the project; (2) Preparing the project site for construction, including locating, furnishing, installing, and maintaining temporary and/or permanent erosion and water pollution control measures as required by the BMP prior to beginning any earth disturbing activity on the project site; (3) Clearing and grubbing and removal of all obstructions as required for construction; (4) Removing all erosion control devices when no longer needed; (5) Restoring all disturbed areas as nearly as possible to their original condition; (6) Preparing seedbeds and permanently seeding all disturbed areas; (7) Providing a Kentucky Erosion Prevention and Sediment Control Program (KEPSC) qualified inspector; and (8) Performing any other work to prevent erosion and/or water pollution as specified by this contract, required by the BMP, or as directed by the Engineer.

### II. MATERIALS

Furnish materials in accordance with these notes, the Standard Specifications and Interim Supplemental Specifications, applicable Special Provisions and Special Notes, and the Standard and Sepia Drawings, current editions. Provide for all materials to be sampled and tested in accordance with the Department's Sampling Manual. Unless directed otherwise by the Engineer, make the materials available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing.

### III. CONSTRUCTION

Be advised, these Erosion Control Notes do not constitute a BMP plan for the project. Jointly with the Engineer, prepare a site-specific BMP plan for each drainage area within the project in accordance with Section 213. Provide a unique BMP at each project site using good engineering practices taking into account existing site conditions, the type of work to be performed, the construction phasing, methods, and the techniques to be utilized to complete the work. Be responsible for all erosion prevention, sediment control, and water pollution prevention measures required by the BMP for each site. Represent and warrant compliance with the Clean Water Act (33 USC Section 1251 et seq.), the 404 Permit, the 401 Water Quality Certification, and applicable state and local government agency laws, regulations, rules, specifications, and permits. Contrary to Section 105.05, in case of discrepancy between these notes, the Standard Specifications, Interim Supplemental Specifications, Special Provisions and Special Notes, Standard and Sepia Drawings, and such state and local government agency requirements, adhere to the most restrictive requirement.

Conduct operations in such a manner as to minimize the amount of disturbed ground during each phase of the construction and limit the haul roads to the minimum required to perform the work. Preserve existing

## Erosion Control

### Page 2 of 3

vegetation not required to be removed by the work or the contract. Seed and/or mulch disturbed areas at the earliest opportunity. Use silt fence, silt traps, temporary ditches, brush barriers, erosion control blankets, sodding, channel lining, and other erosion control measures in a timely manner as required by the BMP and as directed or approved by the Engineer. Prevent sediment laden water from leaving the project, entering an existing drainage structure, or entering a stream.

Provide for erosion control measures to be in place and functioning prior to any earth disturbance within a drainage area. Compute the volume and size of silt control devices necessary to control sediment during each phase of construction. All silt control devices shall be sized to retain a volume of 3,600 cubic feet per disturbed contributing acre. Remove sediment from silt traps before they become a maximum of ½ full. Maintain silt fence by removing accumulated trappings and/or replacing the geotextile fabric when it becomes clogged, damaged, or deteriorated, or when directed by the Engineer. Properly dispose of all materials trapped by erosion control devices at approved sites off the right of way obtained by the Contractor at no additional cost to the Department. See the Special Provision for Waste and Borrow Sites.

As work progresses, add or remove erosion control measures as required by the BMP, applicable to the Contractor's project phasing, construction methods, and techniques. Update the volume calculations and modify the BMP as necessary throughout the duration of the project. Ensure that an updated BMP is kept on site and available for public inspection throughout the life of the project.

The required volume at each Silt Trap shall be computed based on the Up Gradient Contributing Areas that are disturbed and/or stabilized to the satisfaction of the Engineer. The required volume calculation for each Silt Trap shall be determined by the Contractor and verified by the Engineer. The required volume at each Silt Trap may be reduced by the following amounts:

- Up Gradient Areas not disturbed (acres)
- Up Gradient Areas that have been reclaimed and protected by Erosion Control Blanket or other ground protection material such as Temporary Mulch (acres)
- Up Gradient Areas that have been protected by Silt Fence (acres) – Areas protected by Silt Fence shall be computed at a maximum rate of 100 square feet per linear foot of Silt Fence
- Up Gradient Areas that have been protected by Silt Traps (acres)

The use of Temporary Mulch is encouraged.

Silt Trap Type B shall always be placed at the collection point prior to discharging into a Blue Line Stream or onto an adjacent Property Owner. Where overland flow exists, a Silt Fence or other filter devices may be used.

After all construction is complete, restore all disturbed areas in accordance with Section 212. Completely remove all temporary erosion control devices not required as part of the permanent erosion control from the construction site. Prior to removal, obtain the Engineer's concurrence of items to be removed. Grade the remaining exposed earth (both on and off the Right-of-Way) as nearly as possible to its original condition, or as directed by the Engineer. Prepare the seed bed areas and sow all exposed earthen areas with the applicable seed mixture(s) according to Section 212.03.03.

Erosion Control  
Page 3 of 3

#### **IV. MEASUREMENT**

The Department will measure the various erosion control items according to Section 212.04 and Section 213.04, as applicable.

#### **V. Basis of Payment**

The Department will make payment for the various erosion control items according to Section 212.04 and Section 213.04, as applicable.

Environmental Compliance Plan (ECP)

Item No. 7-967 Fayette County HSIP

Special Note for

Environmental Compliance Plan (ECP)

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Project:	Minor widening of US 68 (Broadway) to allow for a longer northbound left turn lane onto Red Mile Road.
Item No:	7-967
County:	Fayette

The following ECP checklist outlines responsibilities of the Contractor and/or the KYTC to ensure all environmental commitments are met. Please pay special attention to:

- Commitment Description (commitment made to resource agencies)
- Responsible Party
- Compliance Document (how compliance is to be documented)

If you have any questions please email [Danny.Peake@ky.gov](mailto:Danny.Peake@ky.gov)

<b>Environmental Compliance Plan (ECP)</b>	<b>Item No. 7-67 Fayette County HSIP</b>
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#	Subject	Commitment Description	ENV Reference/ Oversight Agency	Responsibility Phase	Responsible Party	Compliance Document	Doc to Include in Bid Pkg and Contract	Bid Pkg / Contract Doc Attached?
1	Other	Project/Site dependent	NEPA Doc - FHWA	Environmental	KYTC DEA	n/a	CE	Yes
2	Archaeology	Keep all work in Environmentally Cleared Area. Stop work if unanticipated discoveries, including human remains	SHPO Concurrence 4/3/23	Construction	Contractor	See instruction in Special Note	Special Note for Additional Environmental Commitments	Yes
4	Species	Do not clear trees during June or July	Programmatic Consultation - USFWS	Construction	Contractor	Daily Work Report (DWR)	Special Note for Seasonal Restrictions	Yes
6	Water Quality	If 1.0 acre or more of land is disturbed in total (including staging areas) must obtain KPDES permit	KYR10 (BMP) - USEPA KDOW	Construction	Contractor	See instructions in KPDES	KPDES KYR10 (BMP)	Yes
7	Air Quality	Notify DAQ 10 days prior to demolition, as appropriate	USEPA and KDAQ	Construction	Contractor	DEP 7036 Form and email to KDAQ	Special Note for Additional Environmental Commitments Division of Air Quality	Yes

KENTUCKY TRANSPORTATION CABINET  
Department of Highways  
DIVISION OF ENVIRONMENTAL ANALYSIS  
**CATEGORICAL EXCLUSION DETERMINATION**TC 58-48  
Rev. 12/2020  
Page 1 of 1**1. PROJECT SUMMARY**

Item #: 7-967	Project Sponsor: KYTC HSIP
Route(s): US 68 (Broadway)	County: Fayette
<b>Project Description:</b> Minor widening of US 68 (Broadway) to allow for a longer northbound left turn lane onto Red Mile Road. See Appendix A for Location Map; See Appendix B for Plans.	




**2. ENVIRONMENTAL DETERMINATION**

Functional Area	Determination	Comments/Commitments/Mitigation
Public and Resource Agency Controversy	No	
Total acreage of fee simple ROW	0	No additional Right of Way required for project construction
Number of Total Relocations	0	No relocations involved
Environmental Justice Impacts	No	No disproportionate or adverse effects to EJ populations
Section 106: Architectural Historic	No Effect	No historic properties affected (SHPO 4/26/23); See App. C
Section 106: Archaeological Resources	No Effect	No historic properties affected (SHPO 4/3/23); See App. C
Section 4(f)	No 4(f) Properties	No parks, recreation, wildlife refuges; No Hist Prop. effected
Section 6(f)	No 6(f) Properties	No Parks or recreational areas affected
Noise	Not a Type I	
Air Quality Impacts	No	Project included in STIP Section A-5, p.4 (Z Various HSIP)
Hazardous Materials Impacts	No	No asbestos on structure; See Appendix D
Section 7: T&E Species	No Effect	No effect to any listed species; See App. E
Anticipated Feet of Stream Impacts		<100'
Anticipated Acreage of Wetland Impacts		NA
Anticipated Permits	No	No streams or wetlands affected
Other: KPDES Stormwater Permit		Required for contractor disturbance >1.0 acre
Other:		
Other:		

Based on the criteria listed above, in review of the most recent Categorical Exclusion Agreement between KYTC and FHWA, the subject project is determined to be considered a Categorical Exclusion, Level CEMP.

**3. ENVIRONMENTAL DOCUMENT APPROVAL**

Based on the information obtained during the environmental review process and included as attachments to this form, the project is determined to be a Categorical Exclusion under 23 CFR part 771 pursuant to the National Environmental Policy Act and complies with all other applicable environmental laws, regulations, and Executive Orders. The project action does not individually or cumulatively have a significant effect on the natural and human environment.

 District Environmental Coordinator	 Project Manager	4/26/23 Date
 Environmental Project Manager	4/26/23 Date	_____ Director of Environmental Analysis Date
_____ Recommended by FHWA	_____ Date	_____ Federal Highway Administration Date

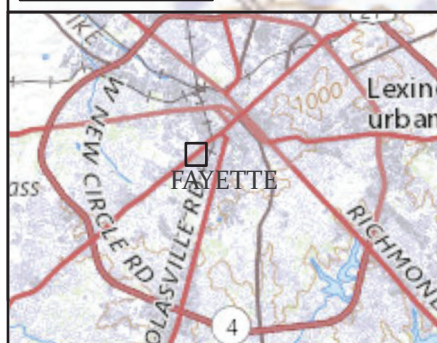
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# APPENDIX A

## Location Map

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# Broadway HSIP Fayette County, KY

A number line is shown with tick marks at 0, 150, and 300. The word "Feet" is written below the line. A bar is drawn from 0 to 150, and another bar is drawn from 150 to 300.



Palmer  
ENGINEERING

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## APPENDIX B

### Plans

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See Project  
Related  
Information  
for Plan Set

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# **APPENDIX C**

## **Section 106 Consultation**

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KYTC Item No: N/A

County: Fayette

Route: US 68

KYTC Archaeological Investigation Form

Project Description: The project which is within the existing right-of-way is a minor widening of US 68 to allow for a longer Northbound left turn lane onto Red Mile Rd.

USGS Quad Name: Lexington West

USGS Date: 1950

Coordinates (Project center point) 38.038288° -84.515947°

Project Type listed in Attachment 1 (in Section 106 Programmatic Agreement)?

- ☐ Yes (list project activity types) \_\_\_\_\_
- ☒ No (Continue)

Project Type listed in Attachment 2 (in Section 106 Handbook)?

- ☒ Yes (list project activity types) 10. Highway Safety \_\_\_\_\_

Are all new or existing ROW areas previously disturbed?

- ☒ Yes (Describe disturbance or basis for conclusion. Attach photos or maps):

Based on review of historic aerial imagery, digital elevation models, Google Earth images, and topographic maps, previous disturbances are related to the construction and maintenance of US68 and commercial properties in the vicinity.

KYTC Item No: N/A

County: Fayette

Route: US 68

**No Historic Properties Affected**

**As Determined By:**

Carl R. Shields 3/31/2023

**KYTC Representative**

**Date**

Stephanie Dooley

April 3, 2023

**SHPO Representative**

**Date**

*(Concurrence is assumed if no response is received within 30 days)*

**Attachments**

☒ Project Plans (show date on plans)

☒ Photos

☒ Mapping

☐ Other: \_\_\_\_\_

☐ Copy EPM

☐ Copy DEC

☐ Copy DEA Archaeologist

☐ Copy SHPO

If the project plans change then additional archaeological survey may be required. If human remains are discovered or a previously unidentified archaeological site is encountered, work must cease and the KYTC Division of Environmental Analysis be notified immediately.

KYTC Item No: 7-967

County: Fayette

Route: US-68

## KYTC Historic Architectural Investigation Form

**Project Description:** This project, includes minor widening of US 68 to allow for a longer northbound left turn lane onto Red Mile Road.

**Project Type listed in Attachment 1** (in Section 106 Programmatic Agreement)?

☐ Yes

☒ No (Continue)

**Project Type listed in Attachment 2** (in Section 106 Handbook)?

☒ Yes (List project activity types) Minor road widening

☐ No (This project is not considered a small scale project under the Section 106 Programmatic Agreement. This checklist cannot be used. Process with full baseline or joint memorandum)

☐ No (However, SHPO has agreed that this project may be documented using the Historic Architectural Investigation Form)

**Project Area of Potential Effect is defined as:**

☐ Within 150 feet of project centerline (Small Scale Project - within existing

☐ Within view shed of project (Discuss):

☒ Other (Discuss): Within ROW of US-421

**Are there Historical Resources within the project APE (per KHC database)?**

☐ Yes

☒ No

☐ N/A (Explain):

KYTC Item No: 7-967

County: Fayette

Route: US-68

**Are there Historical Resources (50 years old or older) identified within the project APE based on field investigations?**

☐ Yes

☒ No

Date of Field Investigation: March 15, 2023

Investigator Name(s): Amber Stimpson

**Discuss Basis for finding**

(Historic Mapping, PVA, Building Permit, Date of Construction, Deed/Title, etc.):

- KHC Site Check indicates a NR-listed property (FASB34) is present but it is no longer extant
- Fieldwork

**NRHP listed or potentially eligible sites/districts ( > 50 years old ) are:**

☒ Not Present within the APE

**No Historic Properties Affected**

**As Determined By:**

Amanda Abner

4/19/23

**KYTC Representative**

*L. Ralston Jennings*

**Date**

4/26/2023

**SHPO Representative**

**Date**

*(Concurrence is assumed if no response is received within 30 days)*

**Attachments:**

☒ Map showing topography, APE and identified Historic

☒ Relevant Photos (Overview and individual resources)

☒ Project Plans

☐ Other

☐ Copy EPM

☐ Copy DEC

☐ Copy DEA Architectural Historian

☐ Copy SHPO

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## APPENDIX D

### Asbestos Survey

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See Special  
Provisions for  
Asbestos  
Abatement Report




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# APPENDIX E

## Section 7 Consultation

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	Kentucky Transportation Cabinet Federal Highway Administration No Effect Finding		
KYTC Item No:	7-967.00	Route:	US 68
Quadrangle(s):	Lexington West	County(ies):	Fayette
<b>Project Description:</b> (Type of improvement, areas to be impacted, crossroad improvements, easements, etc.)			
This project is a minor widening of US 68 (Broadway Street) to allow for a longer northbound left turn lane onto Red Mile Road between mile points 5.539 and 5.639.			
<b>Listed Species:</b> (Attach copy of USFWS county list, KSNPC website and KDFWR website)			
Gray bat ( <i>Myotis grisescens</i> ); Indiana bat ( <i>Myotis sodalis</i> ); Northern long-eared bat ( <i>Myotis septentrionalis</i> ); Short’s Bladderpod ( <i>Physaria globosa</i> )			
<b>Methodologies:</b> (Methods of assessment, who, what, when, resources, etc.)			
Palmer Engineering biologist reviewed GIS information for the area of the proposed action including, but not limited to, aerial imagery, topography, soil maps, stream characteristics, and species location records.			
<b>Results:</b> (Compare habitat used by listed species with available habitat)			
<p><i>Gray bat, Indiana bat, and Northern long-eared bat:</i> The three bat species utilize forested habitat and riparian zones along streams for feeding and/or roosting, and caves as winter hibernacula. This project is located in an urban setting with no trees, streams, or caves present. The current 2.24 acres commercial property adjacent to this project is under construction; therefore no summer or winter habitat for the gray bat, Indiana bat or northern long-eared bat exist within the project area. A “no habitat, no effect” determination has been made for the three listed bat species.</p> <p><i>Short’s Bladderpod:</i> The Short’s bladderpod inhabits steep, rocky, woody slopes at the base of cliffs, and often occurs along major waterways, and can be found in shale at the base of cliffs and on artificial surfaces. The only habitat available is in the right-of-way between W Broadway and the sidewalk and grassy lot located on the corner of W Broadway and Virginia Ave. These areas are flat, consists primarily of a <i>Fescue</i> sp. of grass, regularly mowed. Therefore, there is no suitable habitat available for the Short’s bladderpod. A “no habitat, no effect” determination has been made for the species.</p>			
<b>Determinations:</b>			
No habitat, No effect for: gray bat, Indiana bat, northern long-eared bat, and Short’s Bladderpod			
The project has been assessed in accordance with the provisions of Section 7 of the Endangered Species Act. As a designated representative of the FHWA, the KYTC has determined that the project will have No Effect on any listed species or their critical habitat, and further Section 7(a)(2) consultation with the Service is not required.			
<div>Cassondra Cruikshank (ES) KYTC Signature</div>		<div>4/25/23 Date</div>	
<div>Cassondra Cruikshank Print Name</div>			
E.A.T.S. Milestones updated			
		<div>NameDate</div>	



## United States Department of the Interior

FISH AND WILDLIFE SERVICE  
Kentucky Ecological Services Field Office  
J C Watts Federal Building, Room 265  
330 West Broadway  
Frankfort, KY 40601-8670  
Phone: (502) 695-0468 Fax: (502) 695-1024  
Email Address: [kentuckyes@fws.gov](mailto:kentuckyes@fws.gov)



In Reply Refer To:  
Project Code: 2023-0063507  
Project Name: Broadway HSIP

April 03, 2023

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

### To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the

04/03/2023

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human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

**Migratory Birds:** In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see <https://www.fws.gov/birds/policies-and-regulations.php>.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see <https://www.fws.gov/birds/bird-enthusiasts/threats-to-birds.php>.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit <https://www.fws.gov/birds/policies-and-regulations/executive-orders/e0-13186.php>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

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Attachment(s):

- Official Species List

04/03/2023

1

# OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

**Kentucky Ecological Services Field Office**  
J C Watts Federal Building, Room 265  
330 West Broadway  
Frankfort, KY 40601-8670  
(502) 695-0468

04/03/2023

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## PROJECT SUMMARY

Project Code: 2023-0063507  
Project Name: Broadway HSIP  
Project Type: Road/Hwy - Maintenance/Modification  
Project Description: Adding a turning lane to Broadway near the intersection with Red Mile Road.

### Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@38.0383478,-84.51598495000002,14z>



Counties: Fayette County, Kentucky

ENDANGERED SPECIES ACT SPECIES

There is a total of 5 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 2 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

MAMMALS

NAME	STATUS
<div>Gray Bat <i>Myotis grisescens</i></div> <div>No critical habitat has been designated for this species. This species only needs to be considered under the following conditions:<ul style="list-style-type: none"><li>The project area includes potential gray bat habitat.</li></ul>Species profile: <a href="https://ecos.fws.gov/ecp/species/6329">https://ecos.fws.gov/ecp/species/6329</a> General project design guidelines: <a href="https://ipac.ecosphere.fws.gov/project/DCZE5U5VTZH3XJ55ETHXYPOU5A/documents/generated/6422.pdf">https://ipac.ecosphere.fws.gov/project/DCZE5U5VTZH3XJ55ETHXYPOU5A/documents/generated/6422.pdf</a></div>	Endangered
<div>Indiana Bat <i>Myotis sodalis</i></div> <div>There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat. This species only needs to be considered under the following conditions:<ul style="list-style-type: none"><li>The project area includes 'potential' habitat. All activities in this location should consider possible effects to this species.</li></ul>Species profile: <a href="https://ecos.fws.gov/ecp/species/5949">https://ecos.fws.gov/ecp/species/5949</a> General project design guidelines: <a href="https://ipac.ecosphere.fws.gov/project/DCZE5U5VTZH3XJ55ETHXYPOU5A/documents/generated/6422.pdf">https://ipac.ecosphere.fws.gov/project/DCZE5U5VTZH3XJ55ETHXYPOU5A/documents/generated/6422.pdf</a></div>	Endangered
<div>Northern Long-eared Bat <i>Myotis septentrionalis</i></div> <div>No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a> General project design guidelines: <a href="https://ipac.ecosphere.fws.gov/project/DCZE5U5VTZH3XJ55ETHXYPOU5A/documents/generated/6422.pdf">https://ipac.ecosphere.fws.gov/project/DCZE5U5VTZH3XJ55ETHXYPOU5A/documents/generated/6422.pdf</a></div>	Threatened



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INSECTS

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a>	Candidate

FLOWERING PLANTS

NAME	STATUS
Short's Bladderpod <i>Physaria globosa</i> There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/7206">https://ecos.fws.gov/ecp/species/7206</a>	Endangered

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

04/03/2023

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**IPAC USER CONTACT INFORMATION**

Agency: Kentucky Transportation Cabinet  
Name: Robert Oney  
Address: 400 Shoppers Drive  
Address Line 2: P.O. Box 747  
City: Winchester  
State: KY  
Zip: 40392-0747  
Email: robertoney@msn.com  
Phone: 8597441218

**LEAD AGENCY CONTACT INFORMATION**

Lead Agency: Federal Highway Administration

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## SPECIAL NOTE

### For Additional Environmental Commitments

IN ADDITION TO OTHER ENVIRONMENTAL COMMITMENTS LISTED IN THIS CONTRACT, THE FOLLOWING COMMITMENTS ALSO APPLY, AS THIS IS A FEDERALLY FUNDED UNDERTAKING AS DEFINED IN SECTION 106 OF THE NATIONAL HISTORIC PRESERVATION ACT, [36 CFR 800.16\(Z\)](#):

- 1) No archaeological resources are present within the existing right of way. If the Contractor deems it necessary to use additional areas outside the existing right of way for any purposes—e.g., laydown yards, vehicle parking, parking cranes, delivering beams, borrow areas, waste areas, etc.—the Contractor must first get a written agreement with the landowner then seek approval of the use of the site by both the KYTC Section Supervisor, the KYTC Central Office Project Manager [Mike.Vaughn@ky.gov](mailto:Mike.Vaughn@ky.gov) and the Central Office Environmental Lead [Connor.Oullette@ky.gov](mailto:Connor.Oullette@ky.gov). The Contractor shall provide a map of the area(s) to be used, including access points, and property-owner agreements. The KYTC has the right to deny the use of the proposed site if there are concerns related to historic property impacts. The maps and property owner agreements are to be submitted at least ten (10) business days prior to the Preconstruction Conference, or sixty days prior to the Contractors access to the site, for coordination and review by the KYTC District and Central Office Team.

A penalty may be assessed whenever the Contractor has used any restricted areas. In addition, all fines, fees, penalties, remediation costs, and other damages related to breaches of Threatened and Endangered Species Act Section 7, National Historic Preservation Act Section 106, Clean Water Act Sections 401 and 404, Kentucky General Permit for Stormwater Discharges KYR10, Environmental Protection Agency requirements, State Historic Preservation Office requirements, and other related permitting agencies will be paid by the Contractor, including all associated costs and burdens placed upon the Kentucky Transportation Cabinet.

- 2) If human remains are encountered during project activities, all work should be immediately stopped in the area. The area should be cordoned off, and, in accordance with KRS 72.020, the county coroner and local law enforcement must be contacted immediately. Upon confirmation that the human remains are not of forensic interest, the unanticipated discovery must be reported to Nichole Konkol at the Kentucky Heritage Council at (502) 892-3614, George Crothers at the Office of State Archaeology at (859) 257-1944, and KYTC DEA archaeologists at (502) 564-7250.

For guidance regarding inadvertent discovery and treatment of human remains, refer to the KYTC's [Right of Way Guidance Manual](#) (Section ROW-1202), and the Advisory Council on Historic Preservation's (ACHP) [Policy Statement Regarding Treatment of Human Remains and Grave Goods](#) (adopted by ACHP February 23, 2007).

- 3) If, during the implementation of The Project, a previously unidentified historic/ archaeological property is discovered or a previously identified historic/archaeological property is affected in an unanticipated manner, the contractor shall (1) call KYTC DEA archaeologists at (502) 564-7250, (2) call SHPO archaeologists at (502) 892-3614, and (3) ensure that all work within a reasonable area of the discovery shall cease until such time as a treatment plan can be developed and implemented.

## ***SPECIAL NOTE***

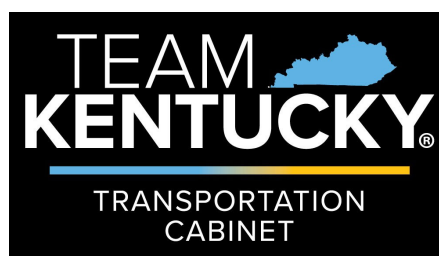
### **For Tree Removal**

#### **Fayette County US 68 (Broadway) HSIP Project Item No. 7-967.00**

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.**

KYTC BMP Plan for Project Item #: 7-967.00



## **Kentucky Transportation Cabinet**

### **Highway District 7**

**And**

**\_\_\_\_\_ (2), Construction**

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

**Groundwater Protection Plan**

**For Highway Construction Activities**

**For**

**Safety Improvements along US 68 in  
Fayette County**

**Project: Item # 7-967.00**

## KYTC BMP Plan for Project Item #: 7-967.00

### Project Information

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

1. Owner – Kentucky Transportation Cabinet, District 7 (1)
2. Resident Engineer: (2)
3. Contractor Name: (2)  
Address: (2)  
  
Phone number: (2)  
Contact: (2)  
Contractor's agent responsible for compliance with KPDES permit requirements: (3)
4. Project Control Number: (2)
5. Route (Address): US 68 Broadway (1)
6. Latitude/Longitude (project mid-point): 38° 2'19.07"N / 84°30'56.08"W (1)
7. County (project mid-point): Fayette County (1)
8. Project start date (date work will begin): (2)
9. Projected completion date: (2)

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### A. Site Description

1. **Nature of Construction Activity (from letting project description):** Minor widening of US 68 (Broadway) to allow for a longer northbound left turn lane onto Red Mile Road. Item # 07-967 (1)
2. **Order of major soil disturbing activities:** (2) and (3)
3. **Projected volume of material to be moved:** (3)
4. **Estimate of total project area (acres):** (3)
5. **Estimate of area to be disturbed (acres):** (3)
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:** The soils in the area are urban and unclassified by the NRCS (1 and 2)
8. **Data describing existing discharge water quality (if any):** (2)
9. **Receiving water name:** Unnamed Tributary to Town Branch (1)
10. **TMDLs and Pollutants of Concern in Receiving Waters:** NA (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 and operating construction equipment, concrete washout water, sanitary wastes and trash/debris. (3)

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### 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.
  - **Sources**—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. 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.



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- 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 and 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.
  - 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. Probable changes include:
- 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.

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- 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: (3)

### C. Other Control Measures

#### 1. Solid Materials

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.  
(3)

➤ **Good Housekeeping**

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

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- 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.

## 5. **Product-specific Practices**

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 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

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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.
- 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.

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- 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 contact 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.
2. 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.
3. 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)

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### 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 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.
- 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.

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### 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, require the preparation and implementation of a groundwater protection plan, and will or may be conducted as part of this construction project:

\_\_\_\_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 (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 (does not include bore holes for the purpose of explosive demolition);

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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 plan. 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 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 provided 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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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 Engineer signature

Signed \_\_\_\_\_, \_\_\_\_\_

Typed or printed name<sup>2</sup>TitleSignature

(3) Signed \_\_\_\_\_, \_\_\_\_\_

Typed or printed name<sup>1</sup>TitleSignature

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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Sub-Contractor Certification

The following sub-contractor shall be made aware of the BMP plan and responsible for implementation of BMPs identified in this plan as follows:

Subcontractor Name:

Address:

Phone:

The part of BMP plan this subcontractor is responsible to implement is:

I certify under penalty of law that I understand the terms and conditions of the general Kentucky Pollutant Discharge Elimination System permit that authorizes the storm water discharges, the BMP plan that has been developed to manage the quality of water to be discharged as a result of storm events associated with the construction site activity and management of non-storm water pollutant sources identified as part of this certification.

Signed \_\_\_\_\_, \_\_\_\_\_  
Typed or printed name<sup>1</sup> Title Signature

1. Sub-Contractor 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.

## Special Note for Pipe Replacements and Extensions

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### I. DESCRIPTION

Except as provided herein, perform all work in accordance with the Department's Standard Specifications, interim Supplemental Specifications, Standard and Sepia Drawings, and Special Notes and Special Provisions, current editions. Article references are to the Standard Specifications. This project shall consist of furnishing all labor, equipment, materials, and incidentals for the following:

(1) Maintaining and Controlling Traffic; (2) Constructing pipe replacements and/or pipe extensions; (3) Embankment and/or Excavation; (4) Erosion Control; and (6) Any other work as specified by this contract.

### II. MATERIALS

Provide for sampling and testing of all materials in accordance with the Department's Sampling Manual. Make materials available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing unless otherwise specified in these notes.

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Culvert Pipe.** Furnish pipe meeting the requirements of Section 810. Select pipe for pH range Medium and minimum fill cover height according to the applicable Standard or Sepia Drawings, current editions. Verify maximum and minimum fill cover height required for new pipe prior to construction and obtain the Engineer's approval of the class or gauge of pipe and type of coating prior to delivering pipe to project. Furnish approved connecting bands or pipe anchors and toe walls.
- C. Flowable Fill.** Furnish Flowable Fill for Pipe Backfill per Section 601.03.03(B).
- D. Erosion Control.** See Special Note for Erosion Control.

### III. CONSTRUCTION METHODS

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Erosion Control.** See Special Note for Erosion Control.
- C. Site Preparation.** Be responsible for all site preparation including, but not limited to, saw cutting and removing existing pavement; clearing and grubbing; staking; incidental excavation and backfilling; common and solid rock excavation; embankment in place; removal of obstructions, or any other items; restoration of pavements, slopes, and all disturbed areas; final dressing and cleanup; and disposal of materials. Limit clearing and grubbing to the absolute minimum required to construct the drainage features. Perform all site preparation only as approved or directed by the Engineer.
- D. Removing Headwalls, Pipe, and Excavation.** Remove existing headwalls and lengths of culvert

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and/or entrance pipes at the approximate locations noted on the summary. The Engineer will determine the exact locations and lengths of pipe to be removed at the time of construction. When any portion of pipe under the roadway, saw cut the existing asphalt pavement and base to a neat edge prior to excavation and removal of the existing pipe. NOTE: Saw cutting the pavement shall be incidental. Obtain the Engineer's approval of trench width and/or saw cutting limits prior to saw cutting the pavement. Excavate the trench and remove the pipe as directed, or approved, by the Engineer without disturbing existing underground utilities.

- E. Constructing Pipe, Headwalls, and Drainage Boxes.** Construct culvert and/or entrance pipes, pipe extensions, headwalls, drainage boxes, and other drainage structures at the locations shown in the proposal or as designated by the Engineer. The Contractor will establish, with the approval of the Engineer, the final centerlines, flow lines, and skews to obtain the best fit with the existing and/or proposed ditches and other proposed improvements. (See the Special Note for Staking.) Construct pipe bedding according to Section 701 and the applicable Standard or Sepia Drawings, current editions. Use approved connecting bands or concrete anchors as required. Prior to backfilling pipe, obtain the Engineer's approval of the pipe installation. Provide positive drainage upon completion of pipe installation.
- F. Pipe Backfill.** Backfill entrance pipes according to Section 701.03.06. Contrary to Section 701.03.06, regardless of cover height, backfill culvert pipes with flowable fill as shown on the Culvert Pipe Replacement Detail from the outside edge of shoulder or back of curb to outside edge of shoulder or back of curb. Steel plates will likely be required to maintain traffic while the flowable fill cures. Once the flowable fill has sufficiently cured, place the Asphalt Base in lifts with thicknesses of 3-4 inches, up to the surface of the existing pavement. Seal with Leveling & Wedging. Allow the asphalt base and leveling & wedging to be exposed to traffic for a minimum of 14 days to allow for settlement. During the waiting period, level & wedge any settlement as directed by the Engineer. After the waiting period has been met for the last pipe replacement constructed, the final milling and/or surfacing operations can begin, unless directed otherwise by the Engineer. For culvert pipe beyond the outside edge of shoulder or back of curb, backfill according to Section 701.03.06.
- G. Embankments.** Backfill pipe and culvert extensions, and construct shoulder embankments as directed by the Engineer. The Contractor shall bench into the existing slope and apply proper compaction according to Section 206. For more information and details on benching, refer to Note 2 on the detail sheet titled: DITCHING & SHOULDERING AND EMBANKMENT BENCHING DETAILS, found elsewhere in the Proposal. Provide positive drainage of ditches, shoulders, and slopes at all times during and upon completion of construction.
- H. Property Damage.** Be responsible for all damage to public and/or private property resulting from the work. Repair or replace damaged roadway features in like kind materials and design, as directed by the Engineer at no additional cost to the Department. Repair or replace damaged private property in like kind materials and design to the satisfaction of the owner and the Engineer at no additional cost to the Department.
- I. Coordination with Utility Companies.** Locate all underground, above ground, and overhead utilities prior to beginning construction. Be responsible for contacting and maintaining liaison with all utility companies that have utilities located within the project limits. Do not disturb existing overhead or

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underground utilities. It is not anticipated that any utility facilities will need to be relocated and/or adjusted; however, in the event that it is discovered that the work does require that utilities be relocated and/or adjusted, the utility companies will work concurrently with the Contractor while relocating their facilities. Be responsible for repairing all utility damage that occurs as a result of pipe replacement and pipe extension operations at no additional cost to the Department. NOTIFY THE ENGINEER AND THE UTILITY OWNER(S) IMMEDIATELY WHEN IT IS DISCOVERED OR ANTICIPATED THAT ANY UTILITY CONFLICT COULD DELAY THE CONTRACTOR'S OPERATIONS. If the total delay exceeds ten working days, an extension of the specified completion date will be negotiated with the Contractor for delay to the Contractor's work; however, no extension will be granted for any delay caused by the Contractor's failure to notify the Engineer and/or the utility company as specified above when a conflict is discovered or anticipated as specified.

- J. Right-of-Way Limits.** The Department has not established exact limits of the Right-of-Way. Unless a consent and release form is obtained from the adjoining property owner, limit work activities to the obvious Right-of-Way and staging areas secured by the Contractor at no additional cost to the Department. In the event that private improvements (i.e. fences, buildings, etc.) encroach upon the Right-of-Way, the Contractor shall notify the Engineer and limit work activities in order to NOT disturb the improvements. If they become necessary, the Department will secure consent and releases from property owners through the Engineer. Be responsible for all encroachments onto private lands.
- K. Clean Up, Disposal of Waste.** Clean up the project area as work progresses. Dispose of all removed concrete, pipe, pavement, debris, excess and unsuitable excavation, and all other waste at approved sites off the Right of Way obtained by the Contractor at no additional cost to the Department. See the Special Provision for Waste and Borrow Sites.
- L. Final Dressing, Seeding and Protection.** Grade all disturbed areas to blend with the adjacent roadways features and to provide a suitable seed bed. Apply Class A Final Dressing to all disturbed areas, both on and off the Right-of-Way. Sow all disturbed earthen areas with the applicable seed mixture(s) according to Section 212.03.03.
- M. Erosion Control.** See the Special Note for Erosion Control.

#### IV. METHOD OF MEASUREMENT

- A. Maintain and Control Traffic.** See the Traffic Control Plan.
- B. Site Preparation.** Other than the bid items listed, site preparation will NOT be measured for payment, but shall be incidental to culvert and/or entrance pipe bid items, as applicable.
- C. Remove Headwall.** The Department will measure the removal of existing headwalls as Each. Any excavation, including rock excavation, necessary to remove existing headwalls will NOT be measured for payment, but shall be incidental to the bid item "Remove Headwall".
- D. Remove Pipe.** Removal of existing culvert and entrance pipe shall be measured according to Section

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701.04.14. Any excavation, including rock excavation, necessary to remove existing pipe will NOT be measured for payment, but shall be incidental to the bid item "Remove Pipe".

- E. Culvert and Entrance Pipe.** The Department will measure the quantities according to Section 701.04. Any excavation, including rock excavation, necessary to install culvert or entrance pipe shall be incidental to the corresponding pipe bid items.
- F. Headwalls, Drainage Boxes.** The Department will measure according to Section 710. Any excavation, including rock excavation, necessary to construct headwalls and/or drainage boxes will NOT be measured for payment, but shall be incidental to the applicable bid item.
- G. Excavation, Pipe Backfill, Embankments.** The Department will NOT measure for payment the following items: any excavation, including rock excavation, necessary to remove the existing pipe and/or install the proposed culvert or entrance pipe, pipe backfill material, geotextile fabric, flowable fill, and re-constructing shoulder embankments, but shall considered these items incidental to the bid items for culvert and entrance pipe.
- H. Clean Up, Disposal of Waste, Final Dressing, Seeding and Protection.** The Department will NOT measure for payment the following activities: Clean Up, Disposal of Waste, and Final Dressing. These activities shall be incidental to the project bid items. Seeding and Protection shall be measured according to Section 212.
- I. Erosion Control.** See the Special Note for Erosion Control.

**V. BASIS OF PAYMENT**

- A. Maintain and Control Traffic.** See the Traffic Control Plan.
- B. Remove Headwall.** The Department will make payment for the completed and accepted quantities of Each headwall removed. Payment at the Contract unit price per Each shall be full compensation for furnishing all labor, materials, equipment, and incidentals for removing the existing headwall.
- C. Remove Pipe.** The Department will make payment according to Section 701.05. Payment at the Contract unit price per linear foot shall be full compensation for furnishing all labor, materials, equipment, and incidentals for removing the existing pipe.
- D. Culvert and Entrance Pipe.** The Department will make payment according to Section 701.05. Payment at the Contract unit price per linear foot shall be full compensation for furnishing all labor, materials, equipment, and incidentals necessary for installing and backfilling new culvert and entrance pipe.
- E. Headwalls, Drainage Boxes.** The Department will make payment according to Section 710.
- F. Erosion Control.** See the Special Note for Erosion Control.

## Special Note for Cored Hole Drainage Box Connector

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### I. DESCRIPTION.

Except as provided herein, perform all work in accordance with the Department's Standard Specifications, interim Supplemental Specifications, Standard and Sepia Drawings, and Special Notes and Special Provisions, current editions. Section references are to the Standard Specifications. This project shall consist of furnishing all labor, equipment, materials, and incidentals for the following:

(1) Contractor staking; (2) Site preparation; (3) Core drill a hole in the side of an existing small drainage structure to connect the outlet end of a proposed pipe, instead of constructing an outlet headwall; (4) Maintain and Control Traffic; and (5) all other work specified as part of this contract.

### II. MATERIALS.

Provide for sampling and testing of all materials in accordance with the Department's Sampling Manual. Make materials available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing unless otherwise specified in these notes.

**A. Maintain and Control Traffic.** See the Traffic Control Plan.

**B. Erosion Control.** See the Special Note for Erosion Control.

**C. Non-Shrink Grout.** Conform to Subsection 601.03.03 (B).

**D. Asphalt Mastic Joint Sealing Compound.** Conform to Section 807.

**E. Pipe.** Conform to Subsection 704.02. Furnish the same type and size as the underdrain pipe.  
**Culvert Pipe.** Furnish the same type and size as the existing culvert pipe being connected to the existing small drainage structure. Furnish pipe meeting the requirements of Section 810. Select pipe for pH range Medium and minimum fill cover height according to the applicable Standard or Sepia Drawings, current editions. Verify maximum and minimum fill cover height required for new pipe prior to construction and obtain the Engineer's approval of the class or gauge of pipe and type of coating prior to delivering pipe to project. Furnish approved connecting bands or pipe anchors and toe walls.

**F. Flowable Fill.** Furnish Flowable Fill for Pipe Backfill per Section 601.03.03(B).

**G. Styrofoam Backer Rod.** Obtain the Engineer's approval.

### III. CONSTRUCTION.

**A. Maintain and Control Traffic.** See the Traffic Control Plan.

**B. Erosion Control.** See the Special Note for Erosion Control.

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- C. Site Preparation.** Be responsible for all Site Preparation, including but not limited to removing pavement; roadway excavation and structure excavation; removal of obstructions or any other items; embankment and embankment in place; ditching and shouldering, grading, reshaping, and compacting backfill material; cleaning drainage structures; obtaining borrow and waste sites; disposal of materials, waste, and debris; and restoration, cleanup, and final dressing
- D. Core Hole Drainage Box.** Cut hole by core drilling into existing drainage structure at the location, or locations, specified in the Contract or where the Engineer directs, without damaging the existing structure. Cut holes of a diameter equal to the outside diameter of the proposed pipe with a tolerance of plus 1/2 inch. Place 2 styrofoam backer rods on the pipe near each wall face and seal the opening around the pipe with mastic material or a non-shrink grout. Use wyes, tees, and ells in the pipe system to reduce the number of holes to be drilled. Patch all damage to the existing wall in the coring operation with non-shrink grout. Apply non-shrink grout according to Subsection 601.03.
- IV. MEASUREMENT.** The Department will measure the quantity by each individual unit. The Department will not measure pipe, wyes, tees, ells, styrofoam backer rods, or repair of damage to existing wall for payment and will consider them incidental to this item of work.
- V. PAYMENT.** The Department will make payment for the completed and accepted quantities under the bid item CORED HOLE DRAINAGE BOX CON (Size). The Department will consider payment as full compensation for all work required.



### Special Note for Signage

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All sign sheeting shall be from the Cabinet's List of Approved Materials.

All permanent signs and sign components shall be fabricated using Type XI sheeting.

The following signs and sign components shall be fabricated using Type XI fluorescent yellow sheeting:

- Horizontal Alignment Signs and Plaques, including signs shown in Figure 2C-1 of the MUTCD
- All Advisory Speed (W13-1P) plaques

The following signs shall be fabricated using Type XI fluorescent yellow-green sheeting:

- School and school bus warning signs, including the fluorescent yellow-green signs shown in Figures 7B-1 and 7B-6 of the MUTCD and other school-related warning signs that are not included in the MUTCD.
- Bicycle Warning (W11-1) signs and SHARE THE ROAD (W16-1P) plaques or diagonal downward pointing arrow (W16-7P) plaques that supplement Bicycle Warning signs.
- Pedestrian Warning signs and diagonal downward pointing arrow plaques that supplement Pedestrian Warning signs.
- In-Street Pedestrian Crossing (R1-6) signs and Overhead pedestrian Crossing (R1-9) signs
- Supplemental plaques to any of the previously listed signs

## Special Note for Signing

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### I. DESCRIPTION

Except as provided herein, this work shall be performed in accordance with the current edition of the Manual on Uniform Traffic Control Devices (MUTCD), the Department's current Standard Specifications and Interim Supplemental Specifications, applicable Standard and Sepia Drawings, and applicable Special Provisions. Article references are to the Standard Specifications. This project shall consist of furnishing all labor, equipment, materials, and incidentals for the following:

(1) Maintaining and Controlling Traffic; (2) Furnish, Fabricate, and Erect Signs; and (3) All other work specified in the Contract.

### II. MATERIALS

All materials shall be sampled and tested in accordance with the Department's Sampling Manual and the materials shall be available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing unless otherwise specified in these Notes.

**A. Maintain and Control Traffic.** See Traffic Control Plan.

**B. Erosion Control.** See Special Note for Erosion Control.

### III. CONSTRUCTION METHODS

**A. Maintain and Control Traffic.** See Traffic Control Plan.

**B. Site Preparation.** Be responsible for all site preparation including, but not limited to: clearing and grubbing, staking, excavation, backfill, and removal of obstructions or any other material not covered by other items. Perform all site preparation only as approved or directed by the Engineer.

**C. Staking.** See Special Note for Staking.

**D. Signs and Posts.** Before beginning installation, the Contractor shall furnish to the Engineer drawings, descriptions, manufacturer's cuts, etc. covering all material to be used. Mill test reports for beams, steel panels, and each different gauge of aluminum or steel sheeting used must be submitted to the Division of Construction and approved prior to erection.

Fabricate sheet signs from .080 or .125 gauge aluminum alloy 5052-H38 or 6061-T6, in accordance with ASTM B-209, and to the size and shape specified. Prepare the side of the sheet to be used as the sign face to receive the retroreflective background material according to the recommendations of the sheeting and retroreflective material manufacturer(s). Sheeting used as background material for sign faces is to be the color specified and visually in accordance with the standard requirements of ASTM D-4956, and meet the requirements of Section 830 of the Standard Specifications. Contrary to Section 830.02.06, only the types and colors of sheeting as specified in the proposal will be

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accepted. All retroreflective material shall be fabricated and assembled in accordance with the specifications and/or recommendations of the manufacturer(s).

All hardware for the erection of sheeting signs shall be rust resistant: stainless steel, zinc coated, aluminum, or an Engineer approved material. All beams and posts shall be of sufficient lengths to extend from the top of the sign to the required embedment in the anchor. Splicing of the sign post shall NOT be allowed. For installations in soil, Type I steel posts shall be mounted on either a standard anchor, with soil stabilizer plate, or on a Type D breakaway sign support. Refer to Sheeting Sign Detail Sheet 1 of 2 for installation details for a standard anchor with soil stabilizer plate. When installing a standard anchor with soil stabilizer plate, if solid rock is encountered, the Contractor shall drill a hole to the required depth into the rock, install the anchor into the hole, and backfill the anchor post with concrete, or other method approved by the Engineer. The cost shall be incidental to Type I steel post, and a soil stabilizer plate will not be required. Refer to Standard Drawing RGX-065, current edition, for installation details of Type D breakaway sign supports. Approved manufacturers for Type D breakaway sign supports have been placed on the list of approved materials. For installations on existing concrete, such as a sidewalk, concrete median, etc., or installations on existing asphalt, such as flush medians, Type I steel posts shall be mounted on a Type D Surface Mount. For Type D Surface Mounts use only Kleen Break Model 425 by Xcessories Squared of Auburn, IL. If the Surface Mount is to be installed on sufficiently cured concrete, use part number XKBSM42520-G. If the Surface Mount is to be installed on asphalt surface, use part numbers XKB42520-G and AXT225-36-G. Prior to installation, the Contractor shall submit to the Engineer shop drawings of the Type D Surface Mount(s). Install the Type D Surface Mount(s) according to all the applicable requirements of the manufacturer (see shop drawings). All steel post shall meet the requirements of Section 832. All hardware including, but not limited to, sign post anchors, soil stabilizer plates, nuts, bolts, washers, fasteners, fittings, and bracing, or any other incidentals necessary to erect the signs shall be furnished by the Contractor and will be incidental to the work.

New concrete bases, posts, support anchors, signs, etc. are to be installed prior to dismantling any existing sign(s). The removal of existing signs, posts, and support anchors is to be performed concurrently with the installation of new signs, posts, and support anchors, under the same lane closure during the same work shift. Completely remove existing sign support anchors or remove them to a minimum depth of six (6) inches below existing ground line and backfill the disturbed area to the existing ground line.

When listed in the summaries, Reflective Sign Post Panels shall be 2" wide x 60" tall (or 84" tall for urban installations) and shall have three 3/8" holes (one hole in the top 3", one hole near the center, and one hole in the bottom 3") that align with the holes on the Type I steel post. Sheeting for the Reflective Sign Post Panels shall be the same Type and color as the sign installed on the post. Examples include:

- Red, fluorescent yellow, and fluorescent yellow-green (Type XI Sheeting)
- White and yellow (Type XI Sheeting).

All manufactured sheeting signs shall be free of visual defects including, but not limited to: cracks, tears, ridges, humps, discoloration, etc., and defective signs shall be replaced at no additional cost to the Department.

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All sign blanks shall be hole punched by the manufacturer for either horizontal or vertical installation. Attach all aluminum sheeting signs to square post with 3/8" all steel rivets and nylon washers.

Post will be attached to the anchor with 5/16" corner bolts and 5/16" flanged nuts, and all post and anchor cuts shall be treated with a Cold Galvanizing Compound spray.

Sign posts shall be erected vertically by using a bubble level. The tolerance shall be a two (2) degree angle in any direction. For locations where more than one sign is mounted beside each other, the posts shall be spaced to provide approximately six inches (6") of spacing between signs.

- E. Property Damage.** The Contractor shall be responsible for all damage to public and/or private property resulting from the Contractor's activities. Repair or replace damaged roadway features in like kind materials and design as directed by the Engineer at no additional cost to the Department. Repair or replace damaged private property in like kind materials and design to the satisfaction of the owner and the Engineer at no additional cost to the Department.
- F. Coordination with Utility Companies.** Locate all underground, above ground, and overhead utilities prior to beginning construction. Be responsible for contacting and maintaining liaison with all utility companies that have utilities located within the project limits. Do not disturb existing overhead or underground utilities. It is not anticipated that any utility facilities will need to be relocated and/or adjusted; however, in the event that it is discovered that the work does require that utilities be relocated and/or adjusted, the utility companies will work concurrently with the Contractor while relocating their facilities. Be responsible for repairing all utility damage that occurs due to the Contractor's operations at no additional cost to the Department. NOTIFY THE ENGINEER AND THE UTILITY OWNER(S) IMMEDIATELY WHEN IT IS DISCOVERED OR ANTICIPATED THAT ANY UTILITY CONFLICT COULD DELAY THE CONTRACTOR'S OPERATIONS. If the total delay exceeds ten working days, an extension of the specified completion date will be negotiated with the Contractor for delay to the Contractor's work; however, no extension will be granted for any delay caused by the Contractor's failure to notify the Engineer and/or the utility company as specified above when a conflict is discovered or anticipated as specified.
- G. Caution.** The information in this proposal and the type of work listed herein are approximate only and are not to be taken as an exact evaluation of the materials and conditions to be encountered during construction; the bidder must draw his/her own conclusions when developing the Unit Bid Prices for each bid item. As such, if the conditions encountered are not in accordance with the information shown, the Department does not guarantee any changes to the Unit Bid Prices nor extension of the contract will be considered. The Department will pay for bid item quantity overruns, but only if pre-approved by the Engineer.
- H. Control.** Perform all work under the absolute control of the Department. Obtain the Engineer's approval of all designs required to be furnished by the Contractor prior to incorporation into the work. The Department reserves the right to have other work performed by other contractors and its own forces, and to permit public utility companies and others to do work during the construction within the limits of, or adjacent to, the project. Conduct operations and cooperate with such other parties so that interference with such other work will be reduced to a minimum. The Department

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will not honor any claims for money or time extension created by the operations of such other parties.

Should a difference of opinion arise as to the rights of the Contractor and others working within the limits of, or adjacent to, the project, the Engineer will decide as to the respective rights of the various parties involved in order to assure the completion of the Department's work in general harmony and in a satisfactory manner, and the Engineer's decision shall be final and binding upon the Contractor.

- I. Clean Up, Disposal of Waste.** Clean up the project area as work progresses. Dispose of all removed concrete, debris, and other waste as per Section 204.03.08. The Department will incur no cost to obtain the disposal sites. The Department will NOT make direct payment for disposal of waste and debris from the project. Existing anchors, signs, posts, and any other hardware or material removed from the site are to become the property of the Contractor. See Special Provision for Waste and Borrow Sites.
- J. Final Dressing, Seeding and Protection.** Grade all disturbed areas to blend with the adjacent roadways features and to provide a suitable seed bed. Apply Class A Final Dressing to all disturbed areas, both on and off the Right-of-Way. Sow all disturbed earthen areas with the applicable seed mixture(s) according to Section 212.03.03.
- K. Erosion Control.** See Special Note for Erosion Control.

#### IV. METHOD OF MEASUREMENT

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Site Preparation.** Other than the bid items listed, the Department will NOT measure Site Preparation for payment, but shall be incidental to the project bid items.
- C. Signs.** The Department will measure the finished in-place area of signs in Square Feet.
- D. Sign Posts.** The Department will measure the finished in-place length of sign posts in Linear Feet, from the top of the anchor, or top of the sign support, to the top of the sign post. Laps, cutoffs, excess, and waste will NOT be measured for payment.
- E. Type D Breakaway Sign Supports.** The Department will measure Type D sign supports as Each support installed.
- F. Type D Surface Mounts.** The Department will measure Type D Surface Mounts as Each surface mount installed.
- G. Class A Concrete for Signs.** The Department will measure the Class A Concrete used in conjunction with Type D breakaway sign support installations in Cubic Yards. Any concrete that is required as backfill due to hitting rock during a standard installation shall be incidental to the bid item STEEL POST TYPE I, and soil stabilizers will not be required.

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- H. Clean Up, Disposal of Waste, Final Dressing, Seeding and Protection.** The Department will NOT measure for payment the following activities: Clean Up, Disposal of Waste, and Final Dressing. These activities shall be incidental. Seeding and Protection shall be measured according to Section 212.
- I. Erosion Control.** See Special Note for Erosion Control.
- J. Remove Sign.** The Department will consider all signs attached to one or more connected posts as a single sign. The Department will measure as Each sign assembly removed and NOT each individual sign removed.
- K. Items Provided by KYTC.** The Department will NOT measure for payment the installation of signs and/or surface mounts provided by KYTC. These activities shall be incidental to the bid item STEEL POST TYPE I.

## **V. BASIS OF PAYMENT**

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Signs.** The Department will make payment for the completed and accepted quantities under the bid item SBM ALUM SHEET SIGNS .125 IN or .080 IN. The Department will consider payment full compensation for all work and incidentals necessary to install the signs, as required by these notes and the details found elsewhere in the proposal, at the locations indicated on the summary sheets, plans, and/or as directed by the Engineer.
- C. Sign Posts.** The Department will make payment for the completed and accepted quantities under the bid item STEEL POST TYPE I. The Department will consider payment full compensation for all work and incidentals necessary to install the sign posts as required by these notes and the details found elsewhere in the proposal.
- D. Type D Breakaway Sign Supports.** The Department will make payment for the completed and accepted quantities under the bid item GMSS TYPE D. The Department will consider payment full compensation for all work and incidentals necessary to install the Type D breakaway sign supports as required by Standard Drawing RGX-065, current edition.
- E. Type D Surface Mounts.** The Department will make payment for the completed and accepted quantities under the bid item GMSS TYPE D (SURFACE MOUNT). The Department will consider payment full compensation for all work and incidentals necessary to install the Type D surface mounts according to all applicable manufacturer requirements.  
NOTE: The permissible Type D Surface Mount alternative is: Kleen Break Model 425 for Surface Mount Concrete Installations by Xcessories Squared of Auburn, IL
- F. Class A Concrete for Signs.** The Department will make payment for the completed and accepted quantities, used in conjunction with Type D breakaway sign support installations, under the bid item CLASS A CONCRETE FOR SIGNS. The Department will consider payment full compensation for all work

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and incidentals necessary to install the concrete as required by Standard Drawing RGX-065, current edition.

- G. Remove Sign.** The Department will make payment for the completed and accepted quantities under the bid item REMOVE SIGN. The Department will consider payment full compensation for all work and incidentals necessary to remove the existing signs, posts, anchors, and any other sign material or hardware, from the locations indicated on the summary sheets, plans, and/or as directed by the Engineer.
- H. Erosion Control.** See Special Note for Erosion Control.

## **Lexington Wayfinding Program**

### **Signage Specifications**

#### **Part I - Materials**

##### **1.01 MANUFACTURED UNITS**

- A. Sign contractor shall specify by brand name materials, paints and other products required for the fabrication of sign. Any Contractor request to make substitutions must be submitted to the Owner for approval and approval is at the discretion of the Owner prior to production. Contractor substitution requests for Transpo breakaway anchor bolts will not be considered by Owner due to Kentucky Transportation Cabinet requirements. Contractor substitution requests for 3M reflective vinyl films must be accompanied with documentation that requested substitute product meets Kentucky Transportation Cabinet/M.U.T.C.D. requirements for reflectivity and durability. See Attachment A for list of approved product and material manufacturers and suppliers.

##### **1.02 CONCRETE**

- A. Concrete shall be Class "A" unless otherwise noted, with a mix ultimate compressive strength in 28 days of at least 3,300 PSI
- B. Concrete and metal reinforcement shall comply with the latest applicable standards for the American Society for Testing and Materials (ASTM) and the American Concrete Institute (ACI).

##### **1.03 STEEL**

- A. The manufacture and fabrication of structural metals shall conform to Kentucky Transportation Cabinet Standards. All tubing shall be easily weldable using conventional shop welding practices.

###### **Type A - Cold Formed Carbon Steel Tubing**

Type A square or rectangular structural tubing shall meet the requirements of ASTM A500 Grade B.

###### **Type B - Hot Formed Carbon Steel Tubing**

Type B square or rectangular structural tubing shall meet the requirements of ASTM A501.

###### **Type C - High Strength Low Alloy Weathering Steel Tubing**

Type C square or rectangular structural tubing shall meet the requirements of ASTM A847 or ASTM A618 Grades 1a, 1b, or U. All structural plates shall be fabricated from steel conforming to TNDOT Standard, unless otherwise specified.

- B. Structural bolts, nuts, and washers shall conform to Kentucky Transportation Cabinet standard. Bolt anchorages shall be as specified in the Contract or, if not so specified, as approved by the City of Lexington, Engineer.
- C. The sign pole base plate anchor bolt holes shall be made by use of a drill or other mechanical cutting tool of proper size.
- D. The Contractor shall lubricate the threads of all bolts, nuts and threaded holes before installation of hardware with suitable corrosion preventive lubricant (Loctite Heavy Duty Ant-Seize Compound, part number 41205 or equivalent).



**Lexington Wayfinding Program**  
Signage Specifications

E.      **ANCHOR BOLTS**

Transpo Pole-Safe 5100 breakaway anchor bolts specifically sized for the complete sign structure live, dead and wind load are the only permissible anchor bolts for this project (see notes and details on drawings).

**1.04      ALUMINUM**

- A.      Material shall consist of aluminum sheet where specified as single flat panels in the thickness shown on the contract drawings. Aluminum shall be of an alloy and temper recommended by the aluminum producer or finisher for the type of use and finish indicated and with not less than the strength and durability properties specified in ASTM B-209 for Alloy 5052-H38.
- B.      Provide material, which have been selected for their surface flatness, smoothness and freedom from surface blemishes wherever exposed to view in the finished unit. Exposed-to-view surfaces that exhibit pitting, seam marks, roller marks, die marks, "oil-canning", stains, discoloration, or other imperfections on the finished panels will not be acceptable.
- C.      To establish a standard of quality, design, and function desired portions of the drawings and specifications have been based on products of manufacturers mentioned hereafter. When specific products of manufacturers are mentioned, it is to be noted that the Designer upon receipt of adequate supporting data and samples if so desired shall consider similar products of other manufacturers for approval as equal.
- D.      All screws, bolts, and fasteners associated with aluminum shall be stainless steel.

**1.05      FINISHES/ORGANIC COATINGS**

- A.      All finish sheen is to be semi-gloss unless otherwise noted. Where sheen is specified or is listed as standard for approval for contract, the terms refer to tested luster, shine or sheen of the dry film and for purposes of this specification are defined, when tested with a 60-degree glossimeter, as follows:

Flat	- 10 degrees gloss or less
Eggshell	- 11 to 19 degree gloss
Satin	- 20 to 30 degree gloss
Semi-gloss	- 31 to 74 degree gloss
Gloss	- 75 degree or more gloss
- B.      Cleanability: Sign frames and panel finish shall allow the removal of lacquer or enamel-based spray paint, magic marker, ball-point pen, or other graffiti markings with non-abrasive cleaning agents, lacquer thinner, paint remover, Methyl Ethyl Ketone (MEH4K) or other approved equal graffiti removal cleaning agents specified by the Owner without damage to the sign/frame surface or graphics. Sign contractor to submit samples for testing by the Owner.
- C.      Sign contractor shall include maintenance and cleaning recommendations to the Owner, including specification of methods and agents to be used and not to be used.

## **Lexington Wayfinding Program**

### **Signage Specifications**

#### **1.06 SIGN FOUNDATIONS**

##### **A. Existing Site Conditions**

Bidders shall examine the proposed pole/sign locations and available past construction documents and make their own determination of subsoil conditions including the location of basements and vaults.

##### **B. Materials**

Reinforcement - Steel reinforcement shall be Grade 60 and shall be placed in accordance with the applicable requirements of Kentucky Transportation Standards. Care shall be taken in the installation and support of the reinforcing steel to ensure that the reinforcing cage will be held in its proper position. Footings and reinforcement shall be designed by an engineer registered in the State of Kentucky and as indicated in the Plans.

Concrete - Concrete shall be Mix 3Y30 placed according to the applicable requirements of 2401 and shall be placed continuously to the top of the shaft once concrete placement has started.

Shaft Liner - Temporary steel shaft liner shall be of sufficient strength to prevent distortion of caisson size during construction operations and to safely protect personnel working therein.

Equipment - Drilling equipment type is entirely at the discretion of the Contractor. Equipment shall be maintained in first class operating condition and meet all safety standards for condition and use.

Equipment shall be capable of accurately and efficiently sinking shafts to the required depths in the indicated subsurface materials. Equipment shall be capable of exerting a downward thrust of no less than five tons at the bottom of the casing for the purpose of dislodging minor obstructions.

##### **C. Construction Requirements**

Verify that site conditions will support and permit operation of equipment for performance of caisson placement operations. Protect benchmarks, existing structures, fences, roads, sidewalks, paving and curbs.

Protect above or below grade utilities that are to remain.

Notify City of Lexington, Engineer of unexpected subsurface conditions and discontinue affected work in area until notified to resume work.

Maintain excavations in a clean condition and keep free of surface water runoff at all times.

##### **D. Installation**

Use of explosives or blasting is prohibited. Prior to excavating any caisson, locate and stake center point of all caissons.

Excavate all materials encountered, including boulders or any other obstruction through weathered, fissured or otherwise unsound or faulty limestone. Bottom of finished excavation shall be leveled so as to vary in elevation no more than 2 inches from low to high points.

Use temporary steel shaft liners during drilling and inspection of caisson shafts. Clean shaft of loose material immediately after drilling and placement of shaft liners. Prevent foreign matter from falling into shaft.

## **Lexington Wayfinding Program**

### **Signage Specifications**

Remove standing water from shaft prior to inspection and concrete placement.

Place reinforcing steel and provide support accessories to maintain clearances indicated.

Install reinforcing dowels for connection to footings, pier caps or columns.

Drilled excavations exceeding indicated perimeter size shall be lined to indicated size and excess excavation shall be backfilled with 4,000 psi concrete at no additional cost to Owner.

#### **E. Field Quality Control**

Field inspection and testing may be performed by Owner's independent testing agency. Assist and cooperate with testing agency in the performance of their work.

The testing agency will inspect the Work at the time of drilling to ensure that caissons are bottomed in appropriate bearing strata, and that the holes are adequately cleaned.

#### **F. Cast-In-Place Concrete**

Concrete for foundations shall be produced in accordance with Kentucky Transportation Cabinet Standards and meet the requirements for Grade Y, Type 3 Concrete.

##### **Concrete Bases**

Reinforcement - Steel reinforcement shall be Grade 60 and shall be placed in accordance with the applicable requirements of Kentucky Transportation Cabinet Standard. Care shall be taken in the installation and support of the reinforcing steel to ensure that the reinforcing cage will be held in its proper position. Reinforcement shall be of the size and spacing indicated in the Plans and shall be placed at the elevations shown.

Adjustment to Concrete Mixes: Mix design adjustments may be requested by the Contractor when characteristics of materials, job conditions, weather, test results, or other circumstances warrant. Adjustments, if made, shall be at no additional cost to the Owner. Laboratory test data for revised mix, design and strength results must be submitted to the Engineer for review. Do NOT proceed with adjustments without approval.

Filling In: Fill in holes and openings left in concrete structures for passage of work by other trades, unless otherwise shown or directed, after work of other trades is in place. Mix, place, and cure concrete as herein specified, to blend with in-place construction.

Directly after the forms are removed, fill all holes, stone pockets, and other irregularities of exposed work with integrally colored cement mortar, which matches the wall color, and remove all loose material. Engineer shall approve patching material mockup prior to starting patchwork. Imperfect work or material or any area that becomes damaged from any cause, before final acceptance, shall be replaced by the Contractor at his expense and to the satisfaction of the Engineer.

For cast-in-place concrete, the curing shall continue until the Engineer has determined that the concrete has attained a strength based upon a percentage of Anticipated Compressive Strength.

#### **G. Structural Excavation and Backfill**

General Requirements:

Interface of below-grade structures with new work shall be reported to the Owner before

## Lexington Wayfinding Program

### Signage Specifications

proceeding with the work. Excavations shall be with extreme caution. The Contractor shall use power mechanical equipment entirely at his own risk. Excavations in the immediate vicinity of known utilities must be made by hand. Special emphasis is placed on possible excavation near fuel oil lines where other special precautions are required. Also, great care must be taken to avoid damage to numerous electrical conduits, which exist and are not deeply buried. Locate all conduits and utilities prior to excavating.

Excavate for footings of any nature and thoroughly compact the ground with vibratory compactor to 95% optimum density AASTOT180.

Backfilling: Use fill material, which is sound and suitable for footing structural requirements. Do not use broken pieces of concrete and/or asphaltic paving.

Fill shall be installed in 8" layers, wetted and compacted to achieve at least 95% maximum density as determined by ASTM Designation D1557.

Compacted backfill shall terminate at the elevations of the bottoms of gutters, curbs, medians, etc.

Compacted backfill under paving shall terminate at the bottom of the limerock base.

#### Finish and Restoration of Excavation Sites

All visible concrete foundations surfaces are to be float-planed to a smooth and even appearance. Repair damage to adjacent surfaces and restore to original condition including concrete, asphalt and cast or masonry paver surfaces including installation of expansion dams where necessary between concrete foundations and adjacent surfaces. Planting beds and plant materials including sod removed or altered to accommodate excavation are to be restored to original condition.

### 1.07 CONSTRUCTION

- A. Fabricate signs to comply with requirements indicated for materials, thickness, finishes, colors, designs, shapes, sizes and details of construction as shown on the contract drawings.
- B. For all fabricated signs, all materials shall be new and in no case will be used, reprocessed, reconditioned or obsolete materials be admitted. Any one sign type of a given classification shall be similar in manufacture, design and construction to each other in the same classification. In all cases, materials shall be furnished as specified, but where brand names are used, "approved equal" material may be furnished.
- C. Insofar as practicable, fabrication, assembly and fitting of the work shall be executed in the shop with the various parts or assemblies ready for erection at the site.
- D. Work that cannot be shop assembled shall be given a trial fit at the shop to assure a proper and expeditious field assembly.
- E. All fabricated sign joints, corners, miters, etc., shall be accurately machined, filed and fitted, and rigidly framed together at joints and contact points.
- F. All work shall be carefully matched to produce a perfect continuity of lines and design. Materials in contact shall have hairline joints, unless otherwise shown on the contract drawings and painted smooth to give a monolithic appearance. All mechanical fasteners shall match color and finish of the background area where they occur.

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### **Signage Specifications**

- G. Concealed surface to be in contact with concrete or dissimilar metals are to have an applied heavy coating of bituminous paint.
- H. Produce smooth, even, level sign panel surfaces, constructed to remain flat under installed conditions within tolerances specified for the particular product.
- I. All removable members shall be carefully machined and fitted and shall be secured by mechanical fasteners of proper size and approved spacing.
- J. The sign contractor shall incorporate the latest proven technological achievements in the field of sign delivery to achieve maximum service life and superior attractiveness of appearance.
- K. All material and finished signs are subject to inspection and release by the Owner at the place of manufacture, and shall be subject to final inspection at the completion of installation.
- L. The fabrication of all metal sign poles; frame assemblies and panels shall be accomplished in a uniform and workmanship like manner. The dimensional tolerance of the panels shall be plus or minus 1/16". Metal panels shall be cut to size and shape and shall be free of buckles, warp, dents, cockles, burrs, and any other defect resulting from fabrication. All possible fabrication including shearing, cutting and punching of holes shall be completed prior to base metal preparation.
- M. Signs with defects or damage that would affect their appearance or serviceability will not be accepted. All signs not conforming in all respects to the requirements of these specifications will be rejected.
- N. Owner shall approve all colors.
- O. Alloy and temper designation of steel and aluminum shall be verified by a mil. certification.
- P. Dissimilar metals shall be separated by 1/16" thick neoprene gaskets.

## **Part II - Execution**

### **2.01 PRE-CONSTRUCTION INSPECTION**

- A. Contractor must examine the conditions under which the sign program is to be installed and notify the Owner in writing of conditions detrimental to the proper completion of the work. Contractor is not to proceed with work until unsatisfactory conditions have been corrected. Should errors, conflicts or discrepancies appear on the drawings, the Contractor shall inform the Owner immediately and request interpretation before proceeding with the work. If Contractor fails to inform Owner, no excuses will thereafter be entertained or additional expense accepted, for Contractor's failure to carry out work in workmanship manner to the satisfaction of the Owner.
- B. The Contractor shall make a thorough site inspection and complete on-site measurements before commencing production.

### **2.02 INSTALLATION**

- A. On-Site Work: Clean substrate of projections and substances detrimental to installation. It shall be the responsibility of the Contractor to provide an adequate number and size of anchorage devices and fasteners for securing signs to in-place construction. Set work in location, in alignment and in elevation, plumb, level, true and free of rack, measured from established lines

## **Lexington Wayfinding Program**

### Signage Specifications

and levels.

- B. Fasteners: Provide concealed fasteners, except where otherwise noted on drawings. Exposed fasteners shall be flush and match in color and finish to the adjacent surfaces.
- C. Delivery: Contractor shall provide for any staging or secure storage areas on job site prior to delivery and installation. Products shall be delivered to job site in protective packaging, which is labeled for identification.
- D. Locations: In general, the signs shown on the location plans are located schematically. The location of the signs as shown on the plans may require minor adjustments due to conflict with existing conditions. The Contractor shall notify the Owner of any location changes from those indicated on the plans and gain approval before sign installation.
- E. Repairs: The Contractor shall repair any signs damaged in shipment or installation. The Contractor shall patch and seal all visible surfaces to match existing surface materials and finishes where signs have been installed.
- F. Cleaning: The Contractor shall clean exposed sign surfaces just prior to date of substantial completion in accordance with manufacturer's written cleaning instructions. The Contractor shall provide Owner with written cleaning and routine maintenance instructions for signs including methods acceptable and unacceptable. The instructions shall include a list of cleaning agents and chemicals. Contractor must maintain a clean and safe site free of dust and debris throughout construction and installation.

### **2.03 FINAL INSPECTION AND PROJECT CLOSEOUT**

- A. Owner shall inspect construction and installation upon substantial completion and provide Contractor with a punch list of outstanding items requiring repair or replacement. Owner and Contractor will perform a final inspection upon completion of the work prior to final payment and release of retainage.

## Special Note for Qwick Curb Median Separator

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### I. DESCRIPTION

Except as provided herein, perform all work in accordance with the Department's Standard Specifications, interim Supplemental Specifications, Standard and Sepia Drawings, and Special Notes and Special Provisions, current editions. Article references are to the Standard Specifications. This project shall consist of furnishing all labor, equipment, materials, and incidentals for the following:

- (1) Maintaining and Controlling Traffic; (2) Installing Qwick Kurb® brand lane separator curb; and
- (3) All other work specified in the Contract.

### II. MATERIALS

All materials shall be sampled and tested in accordance with the Department's Sampling Manual and the materials shall be available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing unless otherwise specified in these Notes.

**A. Maintain and Control Traffic.** See Traffic Control Plan.

**B. Lane Separator Curb.** Furnish Qwick Kurb® brand lane separator curb guidance system that includes modular longitudinal curb sections, transition end sections, and upright delineator posts/panels. The longitudinal units of the system shall interface with each other to form a continuous longitudinal channelizing system. The design of the system shall allow a radius or curve as needed by roadway geometry. The complete system shall be compliant with NCHRP 350 or MASH. Manufacturer's documentation validating this compliance shall be provided to the Engineer prior to installation. System color shall match the adjacent pavement marking color.

- 1. Longitudinal Units.** The longitudinal units shall have a mountable design to allow for emergency vehicle crossovers. The longitudinal units shall be designed to allow for cross drainage under the units. Individual units of the system shall have a minimum length of 40 inches, maximum height of 4 inches and maximum width of 12 inches. The longitudinal base shall include retroreflective markings to match the system color. At least one upright post is required for each longitudinal curb unit.
- 2. Upright Posts.** Upright posts shall be a minimum of 26 inches in height and a minimum of 2 inches in width. Upright posts are to be uniformly spaced at intervals no greater than 44 inches along the system. Post color should match the longitudinal curb unit and adjacent pavement marking color. Each post shall have retroreflective markings of color matching the post, longitudinal system, and adjacent pavement marking. Upright posts should be easily replaceable under traffic conditions and shall be fabricated to withstand repeated impacts and return to a complete upright position with minimal maintenance to the unit.

Qwick Curb Median Separator  
Page 2 of 2

### III. CONSTRUCTION METHODS

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Site Preparation.** Be responsible for all site preparation including, but not limited to: clearing and grubbing, staking, excavation, backfill, and removal of obstructions or any other material not covered by other items. Perform site preparation only as approved or directed by the Engineer.
- C. Lane Separator Curb.** Assemble and fasten the lane separator curb system to the underlying pavement or bridge deck according to the manufacturer's recommendations.
- D. Property Damage.** The Contractor shall be responsible for all damage to public and/or private property resulting from the Contractor's activities. Repair or replace damaged roadway features in like kind materials and design as directed by the Engineer at no additional cost to the Department. Repair or replace damaged private property in like kind materials and design to the satisfaction of the owner and the Engineer at no additional cost to the Department.
- E. Caution.** The information in this proposal and the type of work listed herein are approximate only and are not to be taken as an exact evaluation of the materials and conditions to be encountered during construction; the bidder must draw his/her own conclusions when developing the Unit Bid Prices for each bid item. As such, if the conditions encountered are not in accordance with the information shown, the Department does not guarantee any changes to the Unit Bid Prices nor extension of the contract will be considered. The Department will pay for bid item quantity overruns, but only if pre-approved by the Engineer.

### IV. METHOD OF MEASUREMENT

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Site Preparation.** Other than the bid items listed, the Department will NOT measure Site Preparation for payment, but shall be incidental to the project bid items.
- C. Lane Separator Curb.** The Department will measure Qwick Kurb® brand lane separator curb in Linear Feet.

### V. BASIS OF PAYMENT

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Lane Separator Curb.** The Department will make payment for the completed and accepted quantities under the bid item "Qwick Curb Median Separator." Payment at the Contract unit price per linear foot shall be full compensation for furnishing all materials, equipment, tools, hardware, labor, and incidentals necessary to properly install the Qwick Kurb® brand lane separator curb according to the manufacturer's installation instructions, these notes, and/or as directed by the Engineer.



## Special Note for Tubular Markers – Pexco City Post (Embedded Anchor Cup)

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### I. DESCRIPTION

Except as provided herein, perform all work in accordance with the Department's Standard Specifications, interim Supplemental Specifications, Standard and Sepia Drawings, and Special Notes and Special Provisions, current editions. Article references are to the Standard Specifications. This project shall consist of furnishing all labor, equipment, materials, and incidentals for the following:

- (1) Maintaining and Controlling Traffic; (2) Installing Pexco City Post (Embedded Anchor Cup); and
- (3) All other work specified in the Contract.

### II. MATERIALS

All materials shall be sampled and tested in accordance with the Department's Sampling Manual and the materials shall be available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing unless otherwise specified in these Notes.

**A. Maintain and Control Traffic.** See Traffic Control Plan.

**B. Tubular Markers.** Furnish Pexco City Post Embedded Anchor Cup Tubular Marker which includes delineator posts/panels, adhesive shield, rubber gasket, and anchor cup. The complete system shall be compliant with NCHRP 350 or MASH. Manufacturer's documentation validating this compliance shall be provided to the Engineer prior to installation. System color shall match the adjacent pavement marking color. The upright delineator posts shall be 18 inches in height and 3 inches in diameter. The upright delineator posts are to be uniformly spaced according to the Detail Sheets found elsewhere in the Proposal. Post color shall match the adjacent pavement marking color. Each post shall have a "double wrap" of retroreflective sheeting of color matching the post and adjacent pavement marking. Upright posts should be easily replaceable under traffic conditions and shall be fabricated to withstand repeated impacts and return to a complete upright position with minimal maintenance to the unit.

### III. CONSTRUCTION METHODS

**A. Maintain and Control Traffic.** See Traffic Control Plan.

**B. Staking.** See the Special Note for Staking.

**C. Site Preparation.** Be responsible for all site preparation recommended by the manufacturer or as directed by the Engineer.

**D. Pexco City Post Embedded Anchor Cup.** Install the tubular marker according to the manufacturer's recommendations at the location(s) and spacing indicated on the Detail Sheets found elsewhere in the Proposal.

Pexco City Post (Embedded Cup Anchor)  
Page 2 of 2

- E. Property Damage.** The Contractor shall be responsible for all damage to public and/or private property resulting from the Contractor's activities. Repair or replace damaged roadway features in like kind materials and design as directed by the Engineer at no additional cost to the Department. Repair or replace damaged private property in like kind materials and design to the satisfaction of the owner and the Engineer at no additional cost to the Department.
- F. Caution.** The information in this proposal and the type of work listed herein are approximate only and are not to be taken as an exact evaluation of the materials and conditions to be encountered during construction; the bidder must draw his/her own conclusions when developing the Unit Bid Prices for each bid item. As such, if the conditions encountered are not in accordance with the information shown, the Department does not guarantee any changes to the Unit Bid Prices nor extension of the contract will be considered. The Department will pay for bid item quantity overruns, but only if pre-approved by the Engineer.

#### IV. METHOD OF MEASUREMENT

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Staking.** See the Special Note for Staking.
- C. Site Preparation.** Other than the bid items listed, the Department will NOT measure Site Preparation for payment, but shall be incidental to the project bid items.
- D. Tubular Markers.** The Department will measure Pexco City Post Embedded Anchor Cup as EACH.

#### V. BASIS OF PAYMENT

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Staking.** See the Special Note for Staking.
- C. Tubular Markers.** The Department will make payment for the completed and accepted quantities under the bid item TUBULAR MARKERS (PEXCO CITY POST EMBEDDED ANCHOR CUP). Payment at the Contract unit price of EACH shall be full compensation for furnishing all materials, equipment, tools, hardware, labor, and incidentals necessary to properly install the Pexco City Post Embedded Anchor Cup according to the manufacturer's installation instructions, these notes, and/or as directed by the Engineer.

## Special Note for Radar Presence Detection Devices

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### INSTALL RADAR PRESENCE DETECTOR TYPE A

*Install Radar Presence Detector Type A* shall consist of installation of a pole mounted radar presence sensor, sensor mounting bracket, sensor cables, interface boxes, lead-in cable, connectors (furnished by the Contractor), and controller interface assembly. The Install Radar Presence Detector Type A bid item shall include all labor required to provide a functional detection system. Radar Presence Detector Type A shall be installed and wired in accordance with the manufacturer's instructions. After the detector is installed and before the detector is powered on, the Contractor shall coordinate with District Traffic Division's representatives to schedule a time to perform the detector setup. The Contractor shall double check to verify that all wiring is correctly installed and connected before scheduling the setup work. Representatives from KYTC and/or the manufacturer or sales representative will assist with setup and calibration. The Contractor shall provide a bucket truck and operators at this time for final aiming of the sensors. The Contractor shall provide individuals capable of operating the setup software and learning the setup process so that future installations may be completed without assistance from others.

December 5, 2018

SPECIAL NOTE FOR FIBER REINFORCEMENT OF ASPHALT

PART 1 – GENERAL

1.1 DESCRIPTION

- A. This Section includes specifications for furnishing all materials, equipment, labor, and incidentals for mixing aramid fiber reinforcements to hot mix asphalt.

1.2 DEFINITIONS

- A. HMA - hot mix asphalt, without aramid fiber.
- B. WMA - warm mix asphalt, without aramid fiber.
- C. Reinforced HMA - hot mix asphalt including aramid fibers properly proportioned, uniformly mixed and coated with asphalt.
- D. Aramid fiber - pure aramid fiber meeting the material properties of this specification, without additive materials.
- E. Delivery material(s) - the material(s) combined with the pure aramid fiber to facilitate Aramid fiber and HMA/WMA proportioning, uniform mixing with the HMA/WMA, and asphalt coating of the aramid fibers.
- F. Aramid product - the aramid supplier’s mixture of pure aramid fiber and delivery material(s).
- G. Manufacturer - the company that produces the aramid fiber from raw materials.
- H. Supplier - the company that offers an aramid product.

PART 2 – PRODUCT

2.1 MATERIALS

- A. Meet the following aramid fiber properties:

Property	Measure	Standard
Material	Aramid	ASTM D276
Form	Monofilament fibers	Manufacturer Certification
Length	0.75-1.50 inches (+/- 10%)	Manufacturer Cert.
Specific Gravity	1.44	ASTM D276
Minimum Tensile Strength	400,000 psi	ASTM D3379
Maximum Tensile Elongation	1.8 %	ASTM D3379
Degradation Temperature	800 degrees F	ASTM D276
Acid and Alkali Resistance	Inert	Manufacturer Cert.

2.2 SUBMITTALS

- A. Submit the following:
  - 1. Identify the mixing plant.
  - 2. Provide a specification sheet from the aramid fiber manufacturer.
  - 3. Provide the following from the aramid product supplier at least three weeks prior to HMA/WMA production:
    - The supplier’s specified mix rate for the aramid product.

Fiber Reinforcement of Asphalt  
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December 5, 2018

- Certification that the amount of aramid fiber in the aramid product will be between 2.1 and 4.0 ounces of pure aramid fiber for each ton of hot mix asphalt.
- Evidence showing how many times, if any, the supplier's fiber product has been successfully produced at the asphalt plant to be used for the project.
- Proven method of introducing the aramid fibers into the hot mix asphalt which will not cause the aramid fibers to become airborne.

## **2.3 JOB MIX FORMULA**

- A. When aramid fiber is required as a mixture ingredient, modification to the job mix formula is not required.

## **PART 3 – EXECUTION**

### **3.1 CONSTRUCTION REQUIREMENTS**

- A. Store aramid product in a dry environment and do not allow them to be in contact with moisture.
- B. Mix 3.0 ounces (+/- 1.0 ounces) of aramid fibers per ton of asphalt. The weight applied is for pure aramid fibers only, weight of any delivery materials is not considered.
- C. Have a fiber supplier's representative on site during the first day of production mixing. This requirement can be waived if fiber supplier and HMA/WMA producer can supply evidence of supplier's brand of fiber product being successfully produced by the HMA/WMA producer. The fiber supplier's representative may be on site for additional days as requested by the Engineer.
- D. Introduce the aramid product as follows:
  - 1. Batch Plant:
    - When a batch type plant is used, add the aramid product dosage to the aggregate in the weigh hopper. This may be done with loose fibers and a fiber metering device, or may be done by using manual dosing equipment. If necessary, increase the batch dry mixing time to ensure the aramid fibers are uniformly distributed prior to the injection of asphalt cement into the mixer.
  - 2. Drum Plant:
    - When a continuous or drier-drum type plant is used, add the aramid product to the RAP material to uniformly disperse with the aggregate and injected asphalt. Use a separate aramid product metering device feed system to proportion by weight of total mix, the required percentage of fiber reinforcement into the mixture. Control the aramid product metering system with a proportioning device to meet the dosing requirements.
    - When a continuous or drier-drum type plant is used for limited production volumes, the addition of the aramid product may be done by using manual measuring tools or equipment and adding them directly onto the RAP belt or into the RAP opening on the plant. Because this is not an automated process, a written protocol must be supplied by the producer to demonstrate how they will attain the dosage requirement, and documentation must be supplied by the material manufacturer assuring this method will produce the desired uniform aramid fiber distribution.
- E. Mix the aramid fiber with the aggregate longer, if needed, to allow thorough distribution of aramid fibers at the end of the mixing process and to promote asphalt coating of individual strands of aramid fiber. At the start of any fiber mixing, visually observe the reinforced HMA/WMA at the

plant and in first three trucks at the point of discharge and prior to delivery to the job site. Observation shall include using a shovel or other device. Look for proper distribution of aramid fibers and make mixing adjustments if needed.

- F. WMA: Use of a feeder system will be required for both Drum and Batch plants when producing Warm Mix Asphalt to ensure correct distribution and coating of the aramid fibers. This requirement maybe waved if the asphalt producer can demonstrate complete melting of the delivery material and proper incorporation of the aramid fibers into the WMA.

3.2 ACCEPTANCE

- A. Acceptance of the reinforced HMA/WMA will include the following factors:
  - 1. Aramid fiber is properly proportioned based on documentation comparing fiber feed to HMA/WMA mix production. A log of the total amount of aramid fibers applied certified by fiber manufacturer/supplier shall be required daily.
  - 2. By visual inspection at the end of the mixing process, there is no clumping of aramid fiber or aramid delivery product and the aramid fibers are uniformly distributed.
  - 3. All other mixture and density requirement of the asphalt as detailed in the Standard Specifications, current edition, shall apply.

PART 4 - MEASUREMENT AND PAYMENT

- A. The Department will measure the quantity of Fiber Reinforcement for HMA/WMA by the ton of asphalt placed with fibers. Each ton of asphalt placed with the aramid fibers according to this Special Note will be measured and paid for at the contract unit bid price per ton, and shall include full compensation for furnishing all labor, tools, equipment, and incidentals for doing all the work involved in adding the fibers to HMA/WMA.

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
24785EC	Fiber Reinforcement for HMA	Tons

## **SPECIAL NOTES FOR COMPLETION DATES & LIQUIDATED DAMAGES**

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The ultimate fixed completion date for this project will be October 31, 2024. Liquidated Damages for failure to complete the project on time will be assessed following Section 108.09.

In addition to the requirements of Section 108.09, the Department will assess Liquidated Damages in the amount of **\$1,000** per hour for each hour, or fraction of an hour, for any and all lane closures that are in place beyond the time frame(s) noted in the Traffic Control Plan and approved by the Engineer.

Contrary to 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 Section 108 apply.

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

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

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



## **COORDINATION OF WORK WITH OTHER CONTRACTS**

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

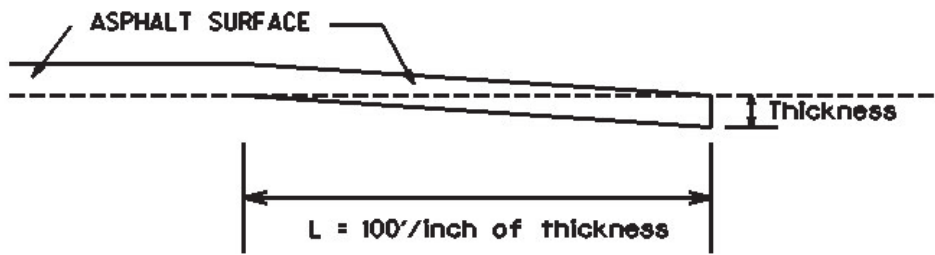
1-3193 Coordination Contracts  
01/02/2012

**SPECIAL NOTE FOR EDGE KEY**

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Construct Edge Keys at the beginning of project, end of project, at railroad crossings, and at ramps, as applicable. Unless specified in the Contract or directed by the Engineer, do not construct edge keys at intersecting streets, roads, alleys, or entrances. Cut out the existing asphalt surface to the required depth and width shown on the drawing and heel the new surface into the existing surface. The Department will make payment for this work at the Contract unit price per ton for Asphalt Pavement Milling and Texturing, which shall be full compensation for all labor, materials, equipment, and incidentals for removal and disposal of the existing asphalt surface required to construct the edge key.

**EDGE KEY**



**Thickness = 1.25 Inches**

**L = 125 LF**

**L= Length of Edge Key**

### **SPECIAL NOTE FOR ASPHALT MILLING AND TEXTURING**

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

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

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

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

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

1-3725 Typical Section Dimensions  
01/02/2012

## SPECIAL NOTE FOR SIDEWALK RAMPS & DETECTABLE WARNINGS

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### GENERAL

Unless otherwise stated in the contract, or as directed by or with prior approval from the Engineer, construct Sidewalk Ramps and Detectable Warnings in accordance with Sections 505 and 720; Supplemental Specifications; Standard Drawings RGX-040-03, RPM-150-08, RPM-152-08, RPM-170-09, and RPM-172-07; current editions, as applicable. In lieu of the Detectable Warnings shown on Standard Drawing RGX-040-03, the Department will also allow the use of any Detectable Warnings listed as Phase XI on the [Kentucky Product Evaluation List](http://www.ktc.uky.edu/kytc/kypel/allevvaluations.php) (<http://www.ktc.uky.edu/kytc/kypel/allevvaluations.php>). For Detectable Warnings as shown on Standard Drawing RGX-040-03, saw cut existing sidewalks, curb and gutter, and pavement, if present, as shown on the detail and reconstruct sidewalk ramps with detectable warnings as directed or approved by the Engineer. For Detectable Warnings from the Kentucky Product Evaluation List, install according to the manufacturer's recommendations. Unless specified otherwise in the Contract, construct sidewalk with 4" nominal minimum required thickness; however, if the existing sidewalk thickness is found to be greater or less than the thickness specified, transition the thickness as directed by the Engineer.

Except as required by the work, do not disturb drainage pipe, catch basins, and other roadway features, appurtenances and installations. Restore any roadway features, appurtenances, and installations damaged by the work in like kind materials and design at no additional cost to the Department. Dispose of all waste off the right of way at sites obtained by the Contractor at no additional cost to the Department (see Special Note for Waste and Borrow).

### MEASUREMENT & PAYMENT

**SIDEWALK RAMPS** – The Department will measure Sidewalk Ramps in accordance with Section 505.04.01 and Standard Drawing RPM-170-09, current editions; however, contrary to Sections 505.04.05 and 505.04.06, the Department will not measure Roadway Excavation or Embankment in Place, but shall be incidental to the Sidewalk. Accept payment at the Contract unit price per square yard as full compensation for all labor, materials, equipment, and incidentals required for removal and disposal of existing sidewalk and curb and gutter, excavation and embankment, construction of the sidewalk ramps, reconstruction of the adjacent curb and/or sidewalk as necessary to install the sidewalk ramps, and restoration of disturbed features in accordance with these notes or as directed by the Engineer.

**DETECTABLE WARNINGS** – The Department will measure Detectable Warnings in accordance with Section 505.04.04 and Standard Drawings RGX-040-03 and RPM-170-09, current editions. The Department will make payment according to Section 505.05.

**HANDRAIL** – The Department will measure and make payment for Handrail in accordance with Section 720.05 and Standard Drawing RPM-172-07, current editions.

TRAFFIC CONTROL PLAN

TRAFFIC CONTROL GENERAL

Except as provided herein, traffic shall be maintained in accordance with the current editions of the Manual on Uniform Traffic Control Devices (MUTCD), Standard Specifications, and the Standard and Sepia Drawings. Except for the roadway and traffic control bid items listed, all items of work necessary to maintain and control traffic will be paid at the lump sum bid price to “Maintain and Control Traffic”.

Contrary to Section 106.01, traffic control devices used on this project may be new, or used in like new condition, at the beginning of the work and maintained in like new condition until completion of the work. Any temporary traffic control items, devices, materials, and incidentals shall remain the property of the contractor unless otherwise addressed, when no longer needed.

PROJECT PHASING & CONSTRUCTION PROCEDURES

At locations with three or more lanes, maintain at least one lane of traffic in each direction at all times during construction. At locations with two lanes, maintain alternating one way traffic during construction. Provide a minimum clear lane width of 10 feet; however, provide for passage of vehicles of up to 16 feet in width. If traffic should be stopped due to construction operations, and a school bus or emergency vehicle on an official run arrives on scene, make provisions for the passage of the school bus or emergency vehicle as quickly as possible.

No lane closures will be allowed on the following dates and/or hours:

Normal Workday Peak Periods

- Monday-Friday 6:00 AM - 8:30 AM, daily
- Monday-Friday 3:00 PM – 6:00 PM, daily

Holidays

- |                        |   |
|------------------------|---|
| Labor Day Weekend      | 3 pm Friday, September 1, 2023 – 8 pm Monday, September 4, 2023 |
| Thanksgiving Holiday   | 3 pm Wednesday, November 22, 2023 – 8 pm Sunday, Nov. 26, 2023  |
| Christmas Holiday      | 3 pm Friday, December 22, 2023 – 8 pm Monday, December 25, 2023 |
| New Year’s Day Holiday | 7 am Saturday, December 30, 2023 – 8 pm Monday, January 1, 2024 |
| Easter Weekend         | 3 pm Friday, March 29, 2024 – 8 pm Sunday, March 31, 2024       |
| Memorial Day Weekend   | 3 pm Friday, May 24, 2024 – 8 pm Monday, May 27, 2024           |
| Independence Day       | 7 pm Thursday, July 4, 2024 – 8 pm Sunday, July 7, 2024         |
| Labor Day Weekend      | 3 pm Friday, August 30, 2024 – 8 pm Monday, September 2, 2024   |

- KHSAA Boys and Girls State Basketball Tournament
- UK Basketball Home games
- Keeneland Fall and Spring Meets for intersection of Man O War and Parkers Mill Road

The Engineer may permit minor operations that do not require a lane closure and cause little disruption to traffic during the normal workday peak periods. If such approval is granted and the Engineer determines the work is causing too much disruption to the peak period traffic, then the Engineer has the right to rescind the approval to work during the peak periods.

## Traffic Control Plan

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Additional intersection-specific phasing notes:

**7-9012.25: Fayette County, New Circle Rd (KY 4) and Russell Cave (KY 353):** Maintain direct access to all side streets and roads, and commercial properties at all times. The Taco Bell/Housing Authority site entrance may be reduced to single-lane access (15' minimum) to be controlled by flagger operation during a one-week period between the hours of 9:00 – 11:30 AM and 1:00 – 4:30 PM. Access to fire hydrants must also be maintained at all times.

At the discretion of the Engineer, additional days and hours may be specified when lane closures will not be allowed due to unforeseen events.

The Department will provide public notification regarding approved lane closures. The Engineer must be notified 2 weeks prior to any lane closure. Notify the Engineer immediately and obtain approval of any deviations from the previously approved closure schedule. Liquidated Damages in the amount of **\$1,000 per hour** will be assessed for each hour or fraction of an hour that a lane closure is in place outside of an approved time period.

## LANE CLOSURES

Do not leave lane closures in place during non-working hours or prohibited periods, unless otherwise approved by the Engineer. No long-term lane closures (more than 3 days) will be allowed; therefore, lane closures will not be measured for payment.

## TEMPORARY SIGNS

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

## CHANGEABLE MESSAGE SIGNS

Provide changeable message signs at locations determined by the Engineer. The Engineer may vary the designated locations as the work progresses. The Engineer will determine the messages to be displayed. In the event of damage or mechanical/electrical failure, repair or replace the Changeable Message Sign within 24 hours. The Department will measure for payment the maximum number of Changeable Message Signs in concurrent use at the same time on a single day on all sections of the contract. The Department will measure individual Changeable Message Signs only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. The

Traffic Control Plan  
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Department will not measure replacements for damaged Changeable Message Signs or for signs the Engineer directs be replaced due to poor condition or readability. Retain possession of the Changeable Message Signs upon completion of the work.

## **BARRICADES**

The Department will not measure barricades used in lieu of barrels and cones for channelization or delineation, but shall be incidental to Maintain and Control Traffic according to Section 112.04.01.

## **TEMPORARY ENTRANCES**

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

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

The Department will measure asphalt materials required to construct and maintain any temporary entrances which may be necessary to provide temporary access; however, the Department will not measure aggregates, excavation, and/or embankment, but shall be incidental to Maintain and Control Traffic. The Engineer will determine the type of surfacing material, asphalt or aggregate, to be used at each entrance.

## **PAVEMENT EDGE DROP-OFFS**

Do not allow a pavement edge between opposing directions of traffic or lanes that traffic is expected to cross in a lane change situation with an elevation difference greater than 1½". Place Warning signs (MUTCD W8-11 or W8-9A) in advance of and at 1500' intervals throughout the drop-off area. Dual post the signs on both sides of the traveled way. Wedge all transverse transitions between resurfaced and un-resurfaced areas which traffic may cross with asphalt mixture for leveling and wedging. Remove the wedges prior to placement of the final surface course.



## Traffic Control Plan

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Protect pavement edges that traffic is not expected to cross, except accidentally, as follows:

Less than 2" - No protection required.

2" to 4" - Place plastic drums, vertical panels, or barricades every 50 feet. During daylight working hours only, the Engineer will allow the Contractor to use cones in lieu of plastic drums, panels, and barricades. Wedge the drop-off with DGA or asphalt mixture for leveling and wedging with a 1:1 or flatter slope in daylight hours, or 3:1 or flatter slope during nighttime hours, when work is not active in the drop-off area.

Greater than 4" - Protect drop-offs greater than 4 inches within 10 feet of traffic by placing drums, vertical panels, or barricades every 25 feet. The Engineer will not allow the use of cones in lieu of drums, vertical panels, or barricades for drop-offs greater than 4". Place Type III Barricades directly in front of the drop-off facing on coming traffic in both directions of travel. Provide warning signs as shown on the Standard Drawings or as directed by the Engineer

Pedestrians & Bicycles - Protect pedestrian and bicycle traffic as directed by the Engineer.

## PAVEMENT MARKINGS

If there is to be a deviation from the existing striping plan, the Engineer will furnish the Contractor a striping plan prior to placement of the final surface course. Install Temporary Striping according to Section 112 with the following exception:

If the Contractor's operations or phasing requires temporary markings that must subsequently be removed from the final surface course, use an approved removable lane tape; however, the Department will not measure removable lane tape for separate payment, but will measure and pay for removable lane tape as temporary striping.

## THERMOPLASTIC INTERSECTION MARKINGS

Prior to milling and/or resurfacing, locate and document the locations of the existing markings. After resurfacing, replace the markings at their approximate existing locations or as directed by Engineer. Place markings not existing prior to resurfacing as directed by the Engineer.

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

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

### **Application**

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

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

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

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

## Traffic Control Plan

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### **Messages**

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

- Visible for at least ½ mile under ideal daytime and nighttime conditions
- Legible from all lanes a minimum of 650 feet
- Entire message readable twice while traveling at the posted speed
- No more than two message panels should be used (three panels may be used on roadways where vehicles are traveling less than 45 mph). A panel is the message that fits on the face of the sign without flipping or scrolling.
- Each panel should convey a single thought; short and concise
- Do not use two unrelated panels on a sign
- Do not use the sign for two unrelated messages
- Should not scroll text horizontally or vertically
- Should not contain both the words left and right
- Use standardized abbreviations and messages
- Should be accurate and timely
- Avoid filler/unnecessary words and periods (hazardous, a, an, the)
- Avoid use of speed limits
- Use words (not numbers) for dates

### **Placement**

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

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

**Standard Abbreviations**

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

<b><u>Word</u></b>	<b><u>Abbrev</u></b>	<b><u>Example</u></b>
Access	ACCS	ACCIDENT AHEAD/ USE ACCS RD NEXT RIGHT
Alternate	ALT	ACCIDENT AHEAD/ USE ALT RTE NEXT RIGHT
Avenue	AVE	FIFTH AVE CLOSED/ DETOUR NEXT LEFT
Blocked	BLKD	FIFTH AVE BLKD/ MERGE LEFT
Boulevard	BLVD	MAIN BLVD CLOSED/ USE ALT RTE
Bridge	BRDG	SMITH BRDG CLOSED/ USE ALT RTE
Cardinal Directions	N, S, E, W	N I75 CLOSED/ DETOUR EXIT 30
Center	CNTR	CNTR LANE CLOSED/ MERGE LEFT
Commercial	COMM	OVRSZ COMM VEH/ USE I275
Condition	COND	ICY COND POSSIBLE
Congested	CONG	HVY CONG NEXT 3 MI
Construction	CONST	CONST WORK AHEAD/ EXPECT DELAYS
Downtown	DWNTN	DWNTN TRAF USE EX 40
Eastbound	E-BND	E-BND I64 CLOSED/ DETOUR EXIT 20
Emergency	EMER	EMER VEH AHEAD/ PREPARE TO STOP
Entrance, Enter	EX, EXT	DWNTN TRAF USE EX 40
Expressway	EXPWY	WTRSN EXPWY CLOSED/ DETOUR EXIT 10
Freeway	FRWY, FWY	GN SYNDR FWY CLOSED/ DETOUR EXIT 15
Hazardous Materials	HAZMAT	HAZMAT IN ROADWAY/ ALL TRAF EXIT 25
Highway	HWY	ACCIDENT ON AA HWY/ EXPECT DELAYS
Hour	HR	ACCIDENT ON AA HWY/ 2 HR DELAY
Information	INFO	TRAF INFO TUNE TO 1240 AM
Interstate	I	E-BND I64 CLOSED/ DETOUR EXIT 20
Lane	LN	LN CLOSED MERGE LEFT
Left	LFT	LANE CLOSED MERGE LFT
Local	LOC	LOC TRAF USE ALT RTE
Maintenance	MAINT	MAINT WRK ON BRDG/ SLOW
Major	MAJ	MAJ DELAYS I75/ USE ALT RTE
Mile	MI	ACCIDENT 3 MI AHEAD/ USE ALT RTE
Minor	MNR	ACCIDENT 3 MI MNR DELAY
Minutes	MIN	ACCIDENT 3 MI/ 30 MIN DELAY
Northbound	N-BND	N-BND I75 CLOSED/ DETOUR EXIT 50
Oversized	OVRSZ	OVRSZ COMM VEH/ USE I275 NEXT RIGHT
Parking	PKING	EVENT PKING NEXT RGT
Parkway	PKWY	CUM PKWAY TRAF/ DETOUR EXIT 60
Prepare	PREP	ACCIDENT 3 MI/ PREP TO STOP
Right	RGT	EVENT PKING NEXT RGT
Road	RD	HAZMAT IN RD/ ALL TRAF EXIT 25
Roadwork	RDWK	RDWK NEXT 4 MI/ POSSIBLE DELAYS
Route	RTE	MAJ DELAYS I75/ USE ALT RTE
Shoulder	SHLDR	SHLDR CLOSED NEXT 5 MI
Slippery	SLIP	SLIP COND POSSIBLE/ SLOW SPD
Southbound	S-BND	S-BND I75 CLOSED/ DETOUR EXIT 50
Speed	SPD	SLIP COND POSSIBLE/ SLOW SPD

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**Standard Abbreviations (cont)**

<u>Word</u>	<u>Abbrev</u>	<u>Example</u>
Street	ST	MAIN ST CLOSED/ USE ALT RTE
Traffic	TRAF	CUM PKWAY TRAF/ DETOUR EXIT 60
Vehicle	VEH	OVRSZ COMM VEH/ USE I275 NEXT RIGHT
Westbound	W-BND	W-BND I64 CLOSED/ DETOUR EXIT 50
Work	WRK	CONST WRK 2MI/ POSSIBLE DELAYS

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

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

**Typical Messages**

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

<u>Reason/Problem</u>	<u>Action</u>
ACCIDENT	ALL TRAFFIC EXIT RT
ACCIDENT/XX MILES	AVOID DELAY USE XX
XX ROAD CLOSED	CONSIDER ALT ROUTE
XX EXIT CLOSED	DETOUR
BRIDGE CLOSED	DETOUR XX MILES
BRIDGE/(SLIPPERY, ICE, ETC.)	DO NOT PASS
CENTER/LANE/CLOSED	EXPECT DELAYS
DELAY(S), MAJOR/DELAYS	FOLLOW ALT ROUTE
DEBRIS AHEAD	KEEP LEFT
DENSE FOG	KEEP RIGHT
DISABLED/VEHICLE	MERGE XX MILES
EMER/VEHICLES/ONLY	MERGE LEFT
EVENT PARKING	MERGE RIGHT
EXIT XX CLOSED	ONE-WAY TRAFFIC
FLAGGER XX MILES	PASS TO LEFT
FOG XX MILES	PASS TO RIGHT

**Typical Messages (cont)**

<u>Reason/Problem</u>	<u>Action</u>
FREEWAY CLOSED	PREPARE TO STOP
FRESH OIL	REDUCE SPEED
HAZMAT SPILL	SLOW
ICE	SLOW DOWN
INCIDENT AHEAD	STAY IN LANE
LANES (NARROW, SHIFT, MERGE, ETC.)	STOP AHEAD
LEFT LANE CLOSED	STOP XX MILES
LEFT LANE NARROWS	TUNE RADIO 1610 AM
LEFT 2 LANES CLOSED	USE NN ROAD
LEFT SHOULDER CLOSED	USE CENTER LANE
LOOSE GRAVEL	USE DETOUR ROUTE
MEDIAN WORK XX MILES	USE LEFT TURN LANE
MOVING WORK ZONE, WORKERS IN ROADWAY	USE NEXT EXIT
NEXT EXIT CLOSED	USE RIGHT LANE
NO OVERSIZED LOADS	WATCH FOR FLAGGER
NO PASSING	
NO SHOULDER	
ONE LANE BRIDGE	
PEOPLE CROSSING	
RAMP CLOSED	
RAMP (SLIPPERY, ICE, ETC.)	
RIGHT LANE CLOSED	
RIGHT LANE NARROWS	
RIGHT SHOULDER CLOSED	
ROAD CLOSED	
ROAD CLOSED XX MILES	
ROAD (SLIPPERY, ICE, ETC.)	
ROAD WORK	
ROAD WORK (OR CONSTRUCTION) (TONIGHT, TODAY, TOMORROW, DATE)	
ROAD WORK XX MILES	
SHOULDER (SLIPPERY, ICE, SOFT, BLOCKED, ETC.)	
NEW SIGNAL XX MILES	
SLOW 1 (OR 2) - WAY TRAFFIC	
SOFT SHOULDER	
STALLED VEHICLES AHEAD	
TRAFFIC BACKUP	
TRAFFIC SLOWS	
TRUCK CROSSING	
TRUCKS ENTERING	
TOW TRUCK AHEAD	
UNEVEN LANES	
WATER ON ROAD	
WET PAINT	
WORK ZONE XX MILES	
WORKERS AHEAD	

## **SPECIAL NOTE FOR TRAFFIC SIGNAL LOOP DETECTORS**

**1.0 DESCRIPTION.** Be advised that there are existing traffic signal loop detectors within the construction limits of this project. Except as specified herein, perform traffic signal loop replacement in accordance with the Department's Standard/Supplemental Specifications, Special Provisions, Special Notes, and Standard/Sepia Drawings, current editions and as directed by the Engineer. Article references are to the Standard Specifications. Furnish all materials, labor, equipment, and incidentals for replacement of traffic signal loop installation(s) and all other work specified as part of this contract.

**1.1 Pre-bid Requirements.** Conform to Subsection 723.03.17

**2.0 MATERIALS.** Except as specified herein, furnish materials in accordance with Subsection 732.02 and Section 835. Provide for materials to be sampled and tested in accordance with the Department's Sampling Manual. Make materials available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing, unless otherwise specified in this Special Note.

**2.1 Maintain and Control Traffic.** See Traffic Control Plan.

**2.2 Sand.** Furnish natural sand meeting the requirements of Subsection 804.04.01.

**2.3 Seeding.** Furnish Seed Mix Type I.

**2.4 Loop Saw Slot and Fill.** Furnish loop sealant, backer rod, and non-shrink grout according to the Saw Slot Detail.

**2.5 Junction Boxes.** Furnish junction box type B, #57 aggregate, and geotextile filter type IV according to junction box detail.

**2.6 Cable No. 14/1 Pair (Lead-in).** Furnish cable that is specified in Section 835. Cable shall be ran splice free. This shall include splice kits to connect to the loop wire.

**2.7 Conduit.** Furnish and install appropriate conduit from transitions to the roadway, junction boxes and poles. See details below.

**3.0 CONSTRUCTION.** Except as specified herein, install and test Traffic Signal Loop Detectors in accordance with Section 723 and the drawings.

**3.1 Testing.** Conform to Subsection 723.03.17 (A)

**3.2 Coordination.** Conform to Subsection 723.03.17 (B)

**3.3 Connection.** Conform to Subsection 723.03.17 (C)

**3.4 Maintain and Control Traffic.** See Traffic Control Plan.

**3.5 Milling.** Conform to Subsection 723.03.17 (F)

**3.6 Loop Saw Slot and Fill.** Conform to Subsection 723.03.13 (A).

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- 3.7 Backfilling and Disturbed Areas. Conform to Subsection 723.03.11.
- 3.8 Removal. Conform to Subsection 723.03.16.
- 3.9 Property/Roadway Damage. Conform to Subsection 723.03.17 (J).
- 3.10 Right-of-Way Limits. Conform to Subsection 723.03.17 (K).
- 3.11 Utility Clearance. Conform to Subsection 716.03.01.

3.12 Control. Obtain the Engineer’s approval of all designs required to be furnished by the Contractor prior to incorporation into the work. The Department reserves the right to permit other contractors, state forces, public utility companies, and others to do work during the construction within the limits of, or adjacent to, the project. Conduct operations and cooperate with such other parties so that interference with each other’s work will be reduced to a minimum. The Contractor agrees to make no claims against the Department for additional compensation due to delays or other conditions created by the operations of such other parties. Should a difference of opinion arise as to the rights of the Contractor and others working within the limits of, or adjacent to, the project, the Engineer will decide as to the respective rights of the various parties involved in order to ensure the completion of the work in general harmony and in a satisfactory manner, and the Engineer’s decision shall be final and binding upon the Contractor.

- 3.13 Bore and Jack. Conform to Subsection 723.03.06 (I).
- 3.14 Open Cut Roadway. Conform to Subsection 723.03.06 (I).

4.0 MEASUREMENT. See Subsection 723.04 for bid item notes. Additional bid items include the following:

4.1 Loop Test. The Department will measure the quantity as each individual unit loop tested. The Department will not measure disconnection, reconnection, traffic control, re-splicing per specifications, before and after testing per note above, and any associated hardware for payment and will consider them incidental to this item of work.

4.2 Remove Signal Equipment. The department will measure the quantity by each. The department will not measure backfilling and the disposal or transportation of equipment and materials associated with any structural or electrical component of the signal system including, but not limited to pole bases, poles, junction boxes, cabinets, and wood poles for payment and will consider them incidental to this item of work.

5.0 PAYMENT. The Department will make payment for the completed and accepted quantities of listed items according to Subsection 723.05 in addition to the following:

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
Conduit 1”	4792	Linear Foot
PVC Conduit – 1 ¼ inch – sch 80	24900EC	Linear Foot



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PVC Conduit – 2 inch – sch 80	24901EC	Linear Foot
Conduit 2”	4795	Linear Foot
Electrical Junction Box type B	4811	Each
Loop Test	24963ED	Each
Trenching and Backfilling	4820	Linear Foot
Loop Wire	4830	Linear Foot
Cable-No. 14/1 Pair	4850	Linear Foot <sup>1</sup>
Loop Saw Slot and Fill	4895	Linear Foot <sup>1</sup>
Bore and Jack Conduit	21543EN	Linear Foot <sup>3</sup>
Open Cut Roadway	4821	Linear Foot <sup>3</sup>
Remove Signal Equipment	24955ED	each

The Department will consider payment as full compensation for all work required under these notes and the Standard Specifications.

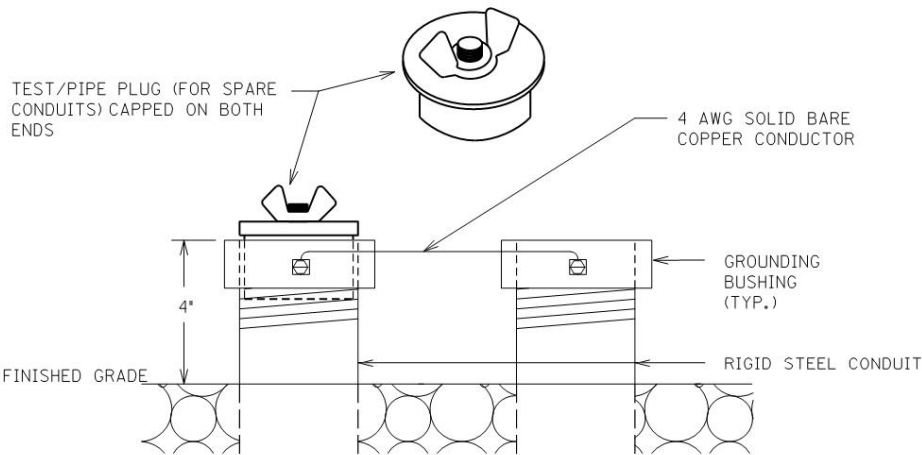
Contrary to section 723:

SUBSECTION:       03.13 Loop Installation.

REVISION:         Replace first sentence note with the following:

twist unshielded loop wire (imsa 51-7) with 3 to 5 turns from the start of homerun to the inside conduit, junction box, cabinet, or pole. Twist unshielded loop wires (imsa 51-7) with 3 to 5 turns per foot from the start of the homerun to the junction box, cabinet, or pole. Slot can be widen to .5" to .625" to help with the installation of the twisted wire.

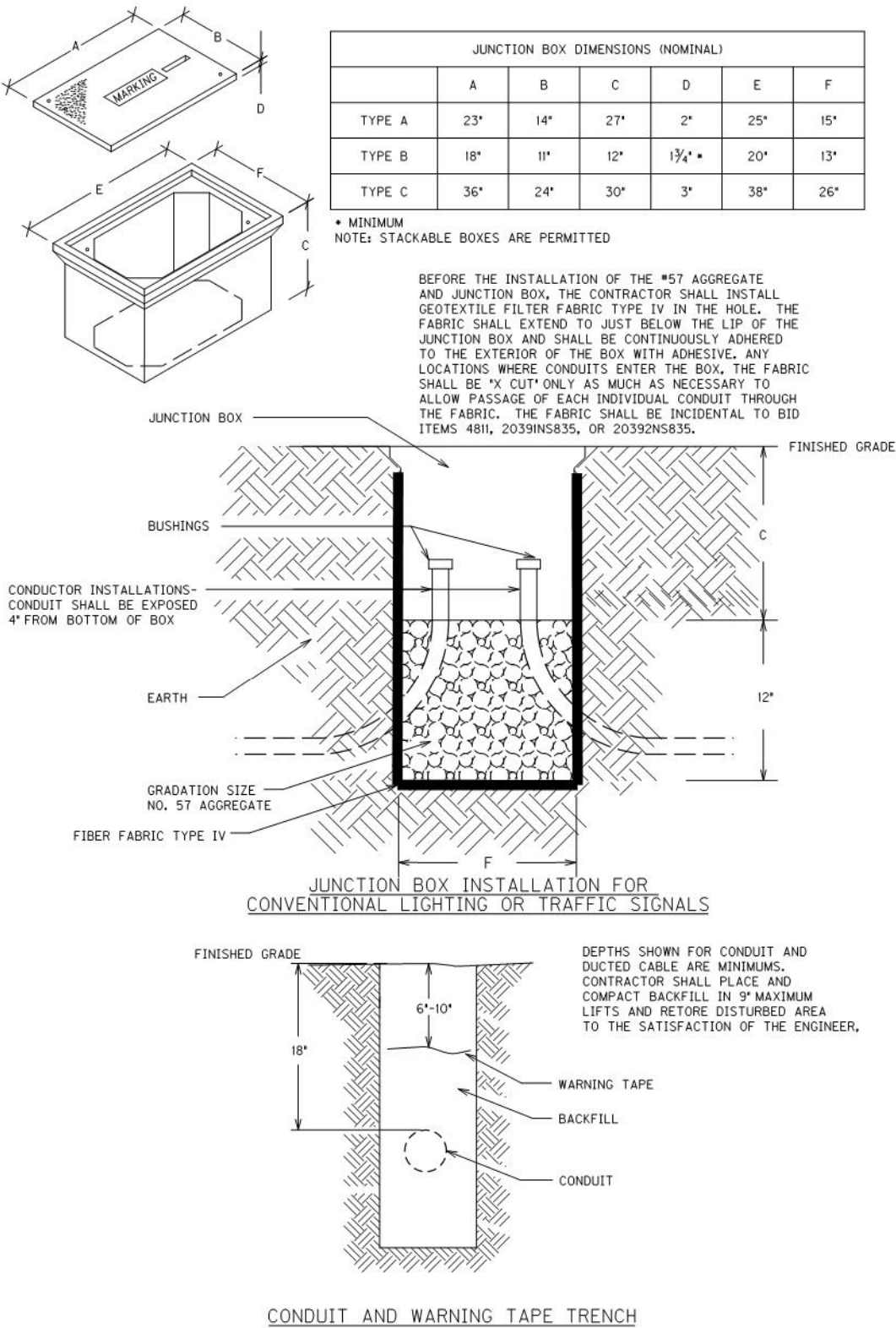
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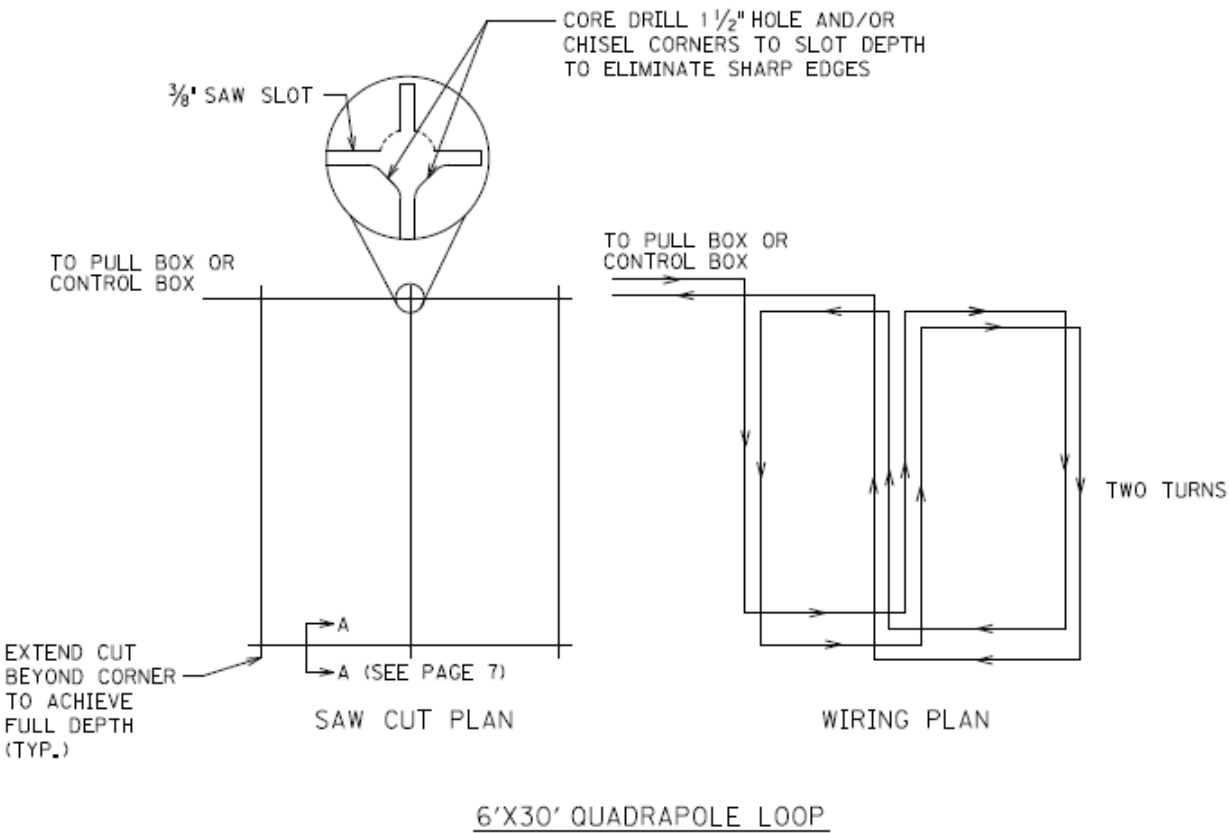
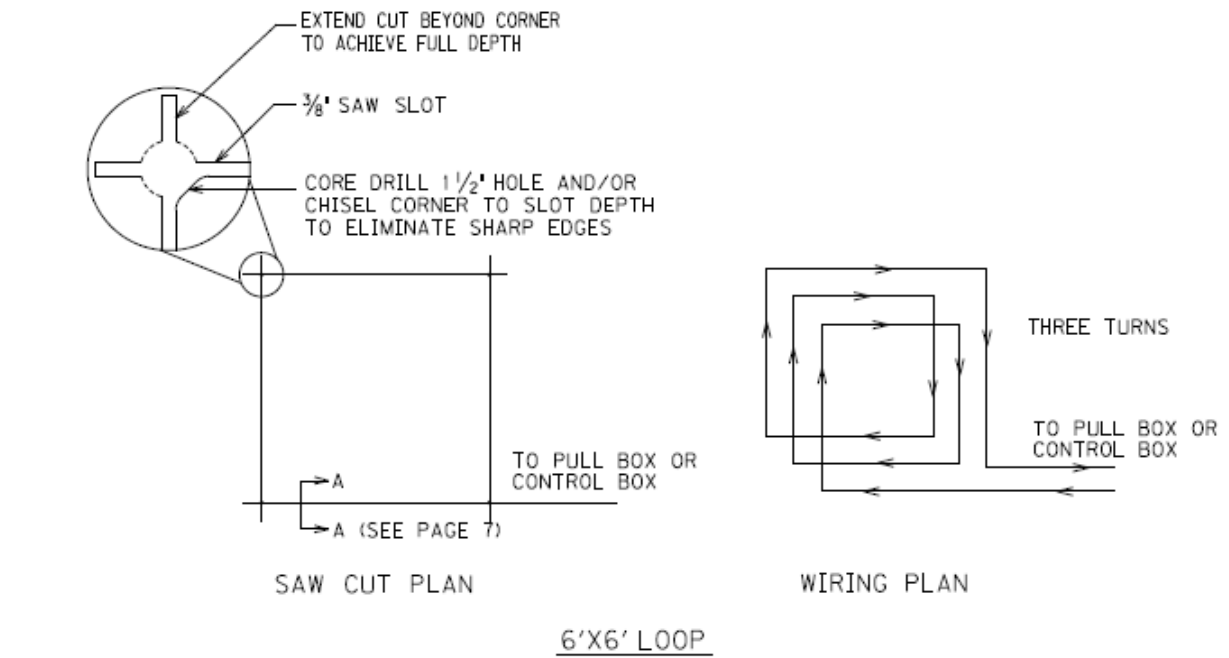
TEST/PIPE PLUG(FOR SPARE CONDUITS) AND GROUNDING DETAIL

Traffic Signal Loop Detectors

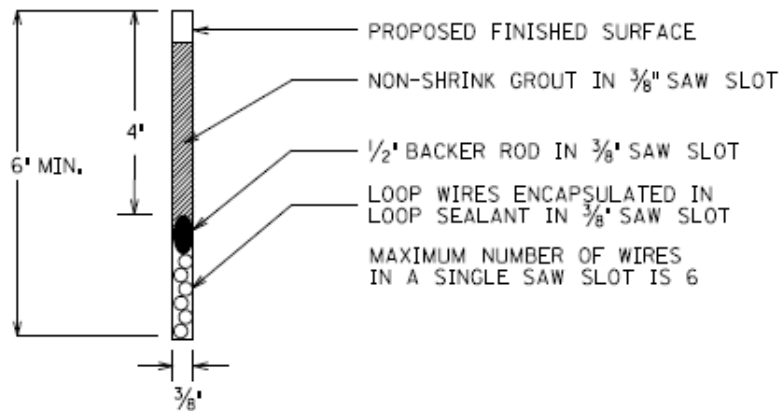
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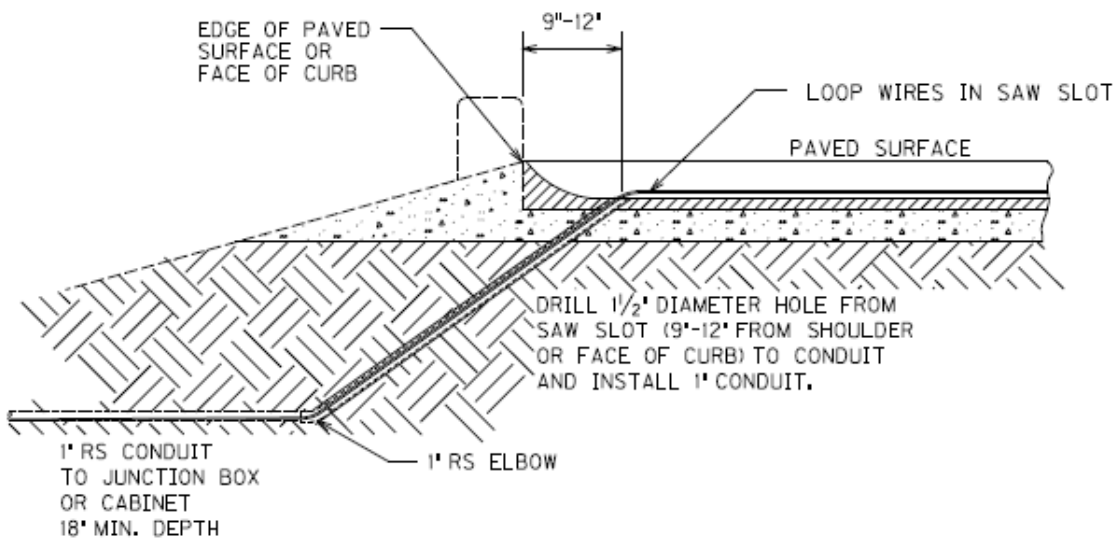
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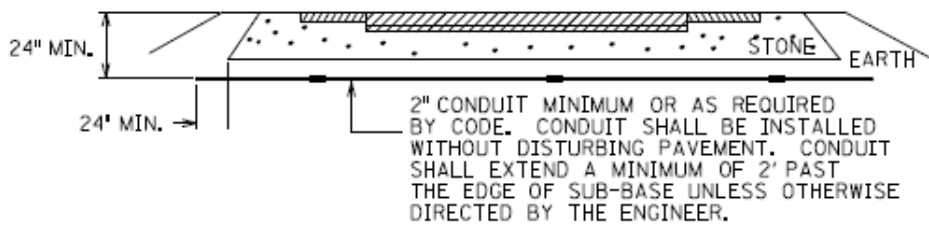
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SECTION A-A (SAW SLOT DETAIL)

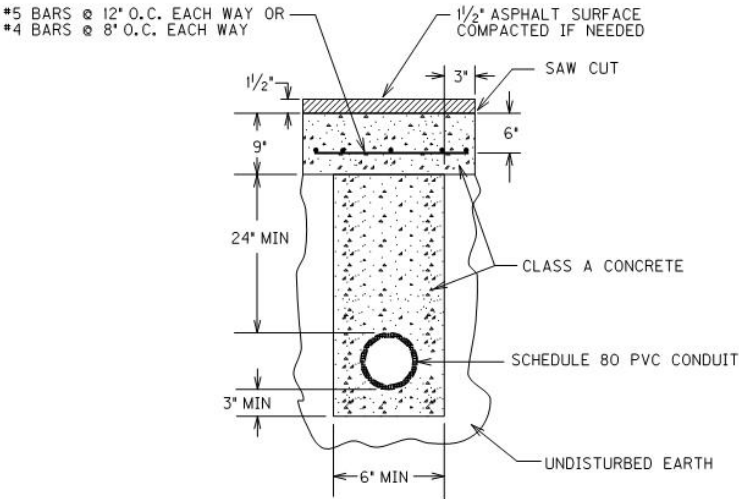


SAW SLOT EDGE OF PAVEMENT TRANSITION

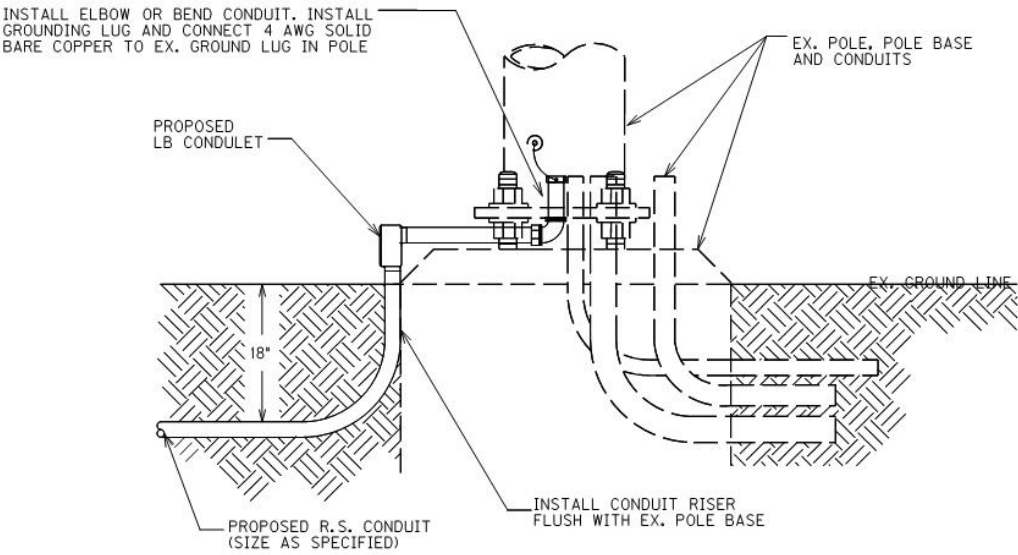


CONDUIT UNDER EXISTING PAVEMENT DETAIL

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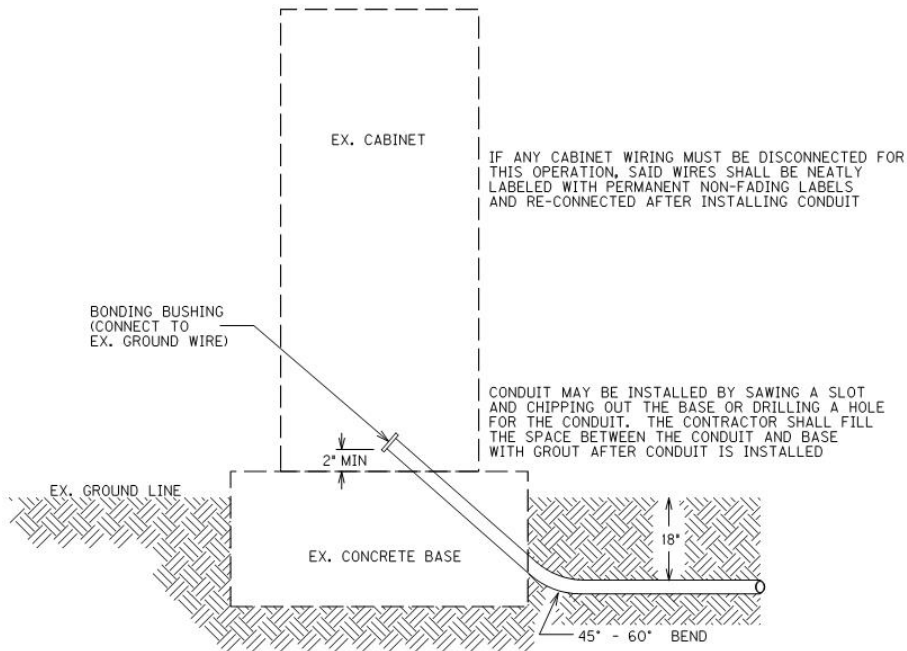


OPEN CUT PAVEMENT DETAIL



CONDUIT INSTALLATION IN EX. POLE BASE

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CONDUIT INSTALLATION IN EX. CABINET BASE

Update: 4-5-2022

### **Special Note for Bridge Demolition, Renovation and Asbestos Abatement**

If the project includes any bridge demolition or renovation, the successful bidder is required to notify Kentucky Division for Air Quality (KDAQ) via filing of form (DEP 7036) a minimum of 10 working days prior to commencement of any bridge demolition or renovation work.

Any available information regarding possible asbestos containing materials (ACM) on or within bridges to be affected by the project has been included in the bid documents. These are to be included with the Contractor's notification filed with the KDAQ. If not included in the bid documents, the Department will provide that information to the successful bidder for inclusion in the KDAQ notice as soon as possible. If there are no documents stating otherwise, the bidders should assume there are no asbestos containing materials that will in any way affect the work.



DEP 7036

**NOTIFICATION OF ASBESTOS  
ABATEMENT/DEMOLITION/RENOVATION**  
(Instructions for completing form on back)

\*\*\*File this form with Regional Office where project will be performed\*\*\*

Kentucky Division for Air Quality  
300 Sower Boulevard, 2<sup>nd</sup> Floor  
Frankfort, KY 40601

PAGE 1 OF  
INITIAL SUBMITTAL DATE  
REVISION DATE  
NOTIFICATION #

OFFICE USE ONLY  
ID #  
LOG #

Contractor  
Address  
City State Zip  
Phone Contact Person  
Owner  
Address  
City State Zip  
Phone Contact Person

Project Location  
Address  
City State Zip  
Facility Age (yrs.) Size of Facility or Affected Part (sq.ft.)  
#Floors Affected Present and Prior Use of Facility

TYPE OF PROJECT (CHECK ONLY ONE):  
Renovation Demolition Ordered Demolition Emergency Long-term

PROJECT DATES:  
Start Removal End Removal  
Start Renovation/Demolition End Renovation/Demolition

Amount of ACM to be Removed:			
	Regulated ACM (FACM)	Category II nonfriable ACM (optional)	Category I nonfriable ACM (optional)
Linear Feet			
Square Feet			
Cubic Feet			

Description of planned renovation/demolition, including abatement methods & demo/reno methods.  
Description of affected facility components  
Asbestos detection technique  
Amount of Cat. I & II nonfriable ACM involved but will not be removed:  
Describe physical characteristics that make it nonfriable and methods to keep it nonfriable (optional):  
Describe contingency plan should nonfriable ACM become friable or additional ACM be uncovered during renovation/ demolition:  
Transporter  
Address  
City State Zip  
Phone  
Disposal Site  
Address  
City State Zip  
I hereby certify that at least one person trained as required by 40 CFR 61.145(c)(8) will supervise the abatement work described herein. (optional for strictly non-friable work)  
Submitted by:  
Company Name:

**INSTRUCTIONS FOR COMPLETING FORM DEP7036: NOTIFICATION OF ASBESTOS ABATEMENT/DEMOLITION/RENOVATION**

**Filing Deadline:** This form must be completed and filed with the Kentucky Division for Air Quality at least ten (10) working days before starting any asbestos removal, demolition, or other work which will disturb asbestos-containing material (ACM) in Kentucky facilities outside Jefferson County and in schools statewide, including Jefferson County. File with appropriate Regional Office.

**Renotification:** If developments occur that invalidate information on a notification (e.g., changes in dates, amounts, locations), file a revised form within the time frames specified in 401 KAR 58:025. Notifications may be numbered in the top-left corner (optional). First two digits are project year; remaining digits are project number (e.g., the first project in 1999 is 99-1).

**Attachments:** Attachments may be included to provide additional information, propose alternative procedures, declare nonfriable removal, identify secondary transporters, etc.

***Line-by-Line Instructions:***

**Contractor/Owner:** the asbestos remover (or, for zero-asbestos demolitions, the demolition contractor). The owner is the entity having the work done.

**Project Location:** The location at the address given where the work is taking place (e.g., which building/floor/room?).

**Present/Prior Use:** Enter the present and prior use(s) of the facility.

**Type of Project:** Each choice shown in this category has a specific description under 401 KAR 58:025:

Emergency renovations result from a sudden, unexpected event. If the project is an emergency renovation, attach a detailed description of the sudden, unexpected event that necessitated removal. Include the exact date and hour the event occurred and explain how the event caused an unsafe condition, or would cause equipment damage or unreasonable financial burden.

Planned renovations are renovations that do not qualify as emergency renovations.

A long-term notification is a type of planned renovation which involves a number of nonscheduled small-scale removals whose annual total exceeds the NESHAP threshold amounts and can be estimated based on past years' experience. File yearly estimate at least 10 working days before the beginning of the calendar year for which a long-term notification is being given.

Demolitions involve the wrecking or taking out of a load-supporting structural member, such as a load-bearing beam or wall. Tearing down a structure, dismantling it piecemeal, and moving it from one place to another are all considered demolitions.

Ordered demolitions must result from a demolition order issued by a government agency because the building is structurally unsound and in danger of imminent collapse. For ordered demolitions, attach to the notification a signed, dated copy of order that includes demolition deadlines and name/title/authority of the government representative issuing the order.

**Project Dates:** Schedules must be precise and accurate. The "start removal" date is the date the removers arrive on-site and begin physically preparing the work area for removal. "End removal" is the date the removers dismantle the work area after cleaning and clearing it. If circumstances arise that invalidate previously submitted start dates, a revised notification must be submitted showing the updated, correct start date. If the start date has been moved up, submit written renotification at least ten working days before the new start date. If the start date has been moved back, telephone the Division as soon as possible before the original date and submit written renotification no later than the original start date.

Schedules for renovation and demolition (next line after removal schedule) are handled similarly, except that renotification is required only for schedule changes involving demolitions, not renovations.

**Amount of ACM:** In this table, enter the amount and type (RACM, Category I, and/or Category II) of asbestos that will be removed. Although the regulation does not require you to identify the amount of nonfriable ACM that will be removed, the table provides space for nonfriable ACM to accommodate those notifiers who choose to document these removals.

**Description of project:** Describe the demolition or renovation work to be performed and method(s) to be used, including work practices and engineering controls to be used.

**Asbestos Detection Technique:** Give a general description of the asbestos survey, for example, "AHERA-style survey by accredited inspector; samples analyzed by PLM."

**Amount of nonfriable ...:** If all nonfriable ACM will be properly removed, enter "NA."

**Contingency Plans:** If Category II nonfriable ACM becomes crumbled, pulverized, or reduced to powder, or if additional RACM is discovered, describe procedures to be followed. For example, "Move demolition activity away from ACM immediately; remove the ACM using regulation-required procedures." Even "Stop work, call Division for Air Quality" is OK.



## MEMORANDUM

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**To:** David Waldner, Director Environmental Services

**CC:**

**From:** Ralph J Schuler, Jr.  
Palmer Engineering

**Date:** April 19, 2023

**Subject:** Hazardous Materials Review  
US 68 Highway Safety Improvement Project  
KYTC Item No. 7-967.00

---

The City of Lexington, in partnership with the Kentucky Transportation Cabinet, is proposing to improve the intersection of US 68 (S Broadway) and Virginia Avenue / Red Mile Road by widening US 68 to allow for a longer northbound left turn lane onto Red Mile Road.

### Summary of Findings

The Enforcement and Compliance History Online - US EPA (<https://echo.epa.gov/>) database was accessed on April 17, 2023 to look for potential *Recognized Environmental Conditions* (REC) within one block of the project. The database did not identify any REC's.

An approximate 64,000 square-foot building located on 2.24 acres to the west of the proposed project has been razed for the construction of Gateway Lofts, a retail and commercial housing complex. This property was being considered for acceptance into the Brownfield Program administered by the Kentucky Department of Environmental Protection (KDEP). A Phase II Environmental Assessment was completed followed by a Property Management Plan after contaminated soils were discovered. The contaminated soils are being safely stored and sealed under the parking structure. The current US 68 Highway Safety Improvement Project will not impact this parking structure and the contaminated soils underneath it.

One utility pole containing three transformers is present along the property line. The plans call for this pole to remain in the same location. The transformers look to be in good condition and look to be of the "non-PCB" containing type.

No suspect asbestos containing materials were identified within the area that would be impacted by the proposed project.

April 19, 2023  
US 68 Highway Safety Improvement Project  
KYTC Item NO 7-967.00  
Page 2

### **Conclusions**

Neither field reconnaissance nor records review identified any properties with environmental concerns that would be affected by the project. No asbestos containing materials are expected to be impacted by the project. If plans change and additional properties are identified as impacted, these conclusions may require a reevaluation.

**Attachments:** Project mapping and Photographs



Hazardous Materials Review  
US 68 Highway Safety  
Improvement Project  
KYTC Item No. 7-967.00

(Page 1 of 3)



**Photo 1:** Previous property with a Property Management Plan; November 2021.



**Photo 2:** Previous property with a Property Management Plan; November 2021





Hazardous Materials Review  
US 68 Highway Safety  
Improvement Project  
KYTC Item No. 7-967.00

(Page 2 of 3)



**Photo 3:** Standing at project beginning looking northeast; March 2023



**Photo 4:** Location of utility pole with transformers; March 2023





Hazardous Materials Review  
US 68 Highway Safety  
Improvement Project  
KYTC Item No. 7-967.00

(Page 3 of 3)



**Photo 5:** Transformers on utility pole; March 2023



**Photo 6:** Sidewalk to be removed and replaced further south; March 2023



KENTUCKY TRANSPORTATION CABINET

Department of Highways


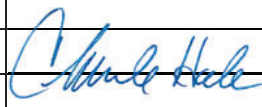
DIVISION OF RIGHT OF WAY & UTILITIES

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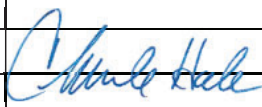
RIGHT OF WAY CERTIFICATION

<input checked="" type="checkbox"/>	Original	<input type="checkbox"/>	Re-Certification	RIGHT OF WAY CERTIFICATION	
ITEM #		COUNTY		PROJECT # (STATE)	PROJECT # (FEDERAL)
7-963.00		Fayette		FD52 034 4009 000 001	HSIP 8532 (008)
PROJECT DESCRIPTION					
Construction of a left turn lane at the intersection of CS 4009 (Alexandria Dr.) & CS 4871 (Trailwood Ln.)					
<input checked="" type="checkbox"/>	No Additional Right of Way Required				
Construction will be within the limits of the existing right of way. The right of way was acquired in accordance to FHWA regulations under the Uniform Relocation Assistance and Real Property Acquisitions Policy Act of 1970, as amended. No additional right of way or relocation assistance were required for this project.					
<input type="checkbox"/>	Condition # 1 (Additional Right of Way Required and Cleared)				
All necessary right of way, including control of access rights when applicable, have been acquired including legal and physical possession. Trial or appeal of cases may be pending in court but legal possession has been obtained. There may be some improvements remaining on the right-of-way, but all occupants have vacated the lands and improvements, and KYTC has physical possession and the rights to remove, salvage, or demolish all improvements and enter on all land. Just Compensation has been paid or deposited with the court. All relocations have been relocated to decent, safe, and sanitary housing or that KYTC has made available to displaced persons adequate replacement housing in accordance with the provisions of the current FHWA directive.					
<input type="checkbox"/>	Condition # 2 (Additional Right of Way Required with Exception)				
The right of way has not been fully acquired, the right to occupy and to use all rights-of-way required for the proper execution of the project has been acquired. Some parcels may be pending in court and on other parcels full legal possession has not been obtained, but right of entry has been obtained, the occupants of all lands and improvements have vacated, and KYTC has physical possession and right to remove, salvage, or demolish all improvements. Just Compensation has been paid or deposited with the court for most parcels. Just Compensation for all pending parcels will be paid or deposited with the court prior to AWARD of construction contract					
<input type="checkbox"/>	Condition # 3 (Additional Right of Way Required with Exception)				
The acquisition or right of occupancy and use of a few remaining parcels are not complete and/or some parcels still have occupants. All remaining occupants have had replacement housing made available to them in accordance with 49 CFR 24.204. KYTC is hereby requesting authorization to advertise this project for bids and to proceed with bid letting even though the necessary right of way will not be fully acquired, and/or some occupants will not be relocated, and/or the just compensation will not be paid or deposited with the court for some parcels until after bid letting. KYTC will fully meet all the requirements outlined in 23 CFR 635.309(c)(3) and 49 CFR 24.102(j) and will expedite completion of all acquisitions, relocations, and full payments after bid letting and prior to AWARD of the construction contract or force account construction.					
Total Number of Parcels on Project		0	EXCEPTION (S) Parcel #	ANTICIPATED DATE OF POSSESSION WITH EXPLANATION	
Number of Parcels That Have Been Acquired					
Signed Deed		0			
Condemnation		0			
Signed ROE		0			
Notes/ Comments (Text is limited. Use additional sheet if necessary.)					
LPA RW Project Manager			Right of Way Supervisor		
Printed Name				Printed Name	Digitally signed by Cecil D. Smith
Signature				Signature	 Date: 2023.05.02 14:29:16
Date				Date	-04'00'
Right of Way Director			FHWA		
Printed Name		2023.05.03		Printed Name	
Signature				Signature	No Signature Required as per FHWA-KYTC Current Stewardship Agreement
Date		09:24:44 -04'00'		Date	




KENTUCKY TRANSPORTATION CABINET  
Department of Highways  
DIVISION OF RIGHT OF WAY & UTILITIESTC 62-226  
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## RIGHT OF WAY CERTIFICATION

<input checked="" type="checkbox"/>	Original	<input type="checkbox"/>	Re-Certification	RIGHT OF WAY CERTIFICATION	
ITEM #		COUNTY	PROJECT # (STATE)		PROJECT # (FEDERAL)
7-967.00		Fayette	FD52 034 0068 005-006		HSIP 8547 (014)
PROJECT DESCRIPTION					
Minor widening of US 68 to allow for a longer Northbound left turn lane onto Red Mile Rd.					
<input checked="" type="checkbox"/>	No Additional Right of Way Required				
Construction will be within the limits of the existing right of way. The right of way was acquired in accordance to FHWA regulations under the Uniform Relocation Assistance and Real Property Acquisitions Policy Act of 1970, as amended. No additional right of way or relocation assistance were required for this project.					
<input type="checkbox"/>	Condition # 1 (Additional Right of Way Required and Cleared)				
All necessary right of way, including control of access rights when applicable, have been acquired including legal and physical possession. Trial or appeal of cases may be pending in court but legal possession has been obtained. There may be some improvements remaining on the right-of-way, but all occupants have vacated the lands and improvements, and KYTC has physical possession and the rights to remove, salvage, or demolish all improvements and enter on all land. Just Compensation has been paid or deposited with the court. All relocations have been relocated to decent, safe, and sanitary housing or that KYTC has made available to displaced persons adequate replacement housing in accordance with the provisions of the current FHWA directive.					
<input type="checkbox"/>	Condition # 2 (Additional Right of Way Required with Exception)				
The right of way has not been fully acquired, the right to occupy and to use all rights-of-way required for the proper execution of the project has been acquired. Some parcels may be pending in court and on other parcels full legal possession has not been obtained, but right of entry has been obtained, the occupants of all lands and improvements have vacated, and KYTC has physical possession and right to remove, salvage, or demolish all improvements. Just Compensation has been paid or deposited with the court for most parcels. Just Compensation for all pending parcels will be paid or deposited with the court prior to AWARD of construction contract					
<input type="checkbox"/>	Condition # 3 (Additional Right of Way Required with Exception)				
The acquisition or right of occupancy and use of a few remaining parcels are not complete and/or some parcels still have occupants. All remaining occupants have had replacement housing made available to them in accordance with 49 CFR 24.204. KYTC is hereby requesting authorization to advertise this project for bids and to proceed with bid letting even though the necessary right of way will not be fully acquired, and/or some occupants will not be relocated, and/or the just compensation will not be paid or deposited with the court for some parcels until after bid letting. KYTC will fully meet all the requirements outlined in 23 CFR 635.309(c)(3) and 49 CFR 24.102(j) and will expedite completion of all acquisitions, relocations, and full payments after bid letting and prior to AWARD of the construction contract or force account construction.					
Total Number of Parcels on Project		0	EXCEPTION (S) Parcel #	ANTICIPATED DATE OF POSSESSION WITH EXPLANATION	
Number of Parcels That Have Been Acquired					
Signed Deed		0			
Condemnation		0			
Signed ROE		0			
Notes/ Comments (Text is limited. Use additional sheet if necessary.)					
LPA RW Project Manager			Right of Way Supervisor		
Printed Name			Printed Name	Digitally signed by Cecil D. Smith	
Signature			Signature		
Date			Date	Date: 2023.05.02 14:28:45 -04'00'	
Right of Way Director			FHWA		
Printed Name	2023.05.03		Printed Name	No Signature Required as per FHWA-KYTC Current Stewardship Agreement	
Signature			Signature		
Date	10:06:53 -04'00'		Date		

	<b>KENTUCKY TRANSPORTATION CABINET</b> Department of Highways <b>DIVISION OF RIGHT OF WAY &amp; UTILITIES</b>  <b>RIGHT OF WAY CERTIFICATION</b>	TC 62-226 Rev. 01/2016 Page 1 of 1
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<input checked="" type="checkbox"/>	<b>Original</b>	<input type="checkbox"/>	<b>Re-Certification</b>	<b>RIGHT OF WAY CERTIFICATION</b>	
<b>ITEM #</b>		<b>COUNTY</b>		<b>PROJECT # (STATE)</b>	<b>PROJECT # (FEDERAL)</b>
7-9006.10		Fayette		FD52 034 0027 007-008	HSIP 8547 (010)
<b>PROJECT DESCRIPTION</b>					
Install supplemental signal heads, construct median access control along US 27, and update the striping near the Intersection of US 27 and W Loudon Ave					
<input checked="" type="checkbox"/>	<b>No Additional Right of Way Required</b>				
Construction will be within the limits of the existing right of way. The right of way was acquired in accordance to FHWA regulations under the Uniform Relocation Assistance and Real Property Acquisitions Policy Act of 1970, as amended. No additional right of way or relocation assistance were required for this project.					
<input type="checkbox"/>	<b>Condition # 1 (Additional Right of Way Required and Cleared)</b>				
All necessary right of way, including control of access rights when applicable, have been acquired including legal and physical possession. Trial or appeal of cases may be pending in court but legal possession has been obtained. There may be some improvements remaining on the right-of-way, but all occupants have vacated the lands and improvements, and KYTC has physical possession and the rights to remove, salvage, or demolish all improvements and enter on all land. Just Compensation has been paid or deposited with the court. All relocations have been relocated to decent, safe, and sanitary housing or that KYTC has made available to displaced persons adequate replacement housing in accordance with the provisions of the current FHWA directive.					
<input type="checkbox"/>	<b>Condition # 2 (Additional Right of Way Required with Exception)</b>				
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Total Number of Parcels on Project		0	EXCEPTION (S) Parcel #		ANTICIPATED DATE OF POSSESSION WITH EXPLANATION
Number of Parcels That Have Been Acquired					
Signed Deed					
Condemnation					
Signed ROE					
<b>Notes/ Comments (Use Additional Sheet if necessary)</b>					
<b>LPA RW Project Manager</b>			<b>Right of Way Supervisor</b>		
Printed Name				Printed Name Cecil Smith	
Signature				Signature 	
Date				Date 12/19/2019	
<b>Right of Way Director</b>			<b>FHWA</b>		
Printed Name		Digitally signed by DM Loy		Printed Name	
Signature		DM Loy Date: 2019.12.19 07:45:55 -05'00'		Signature	
Date				Date	
				<b>No Signature Required as per FHWA-KYTC Current Stewardship Agreement</b>	

	<b>KENTUCKY TRANSPORTATION CABINET</b> Department of Highways <b>DIVISION OF RIGHT OF WAY &amp; UTILITIES</b>	TC 62-226 Rev. 01/2016 Page 1 of 1
	<b>RIGHT OF WAY CERTIFICATION</b>	

<input checked="" type="checkbox"/>	<b>Original</b>	<input type="checkbox"/>	<b>Re-Certification</b>	<b>RIGHT OF WAY CERTIFICATION</b>	
<b>ITEM #</b>		<b>COUNTY</b>		<b>PROJECT # (STATE)</b>	<b>PROJECT # (FEDERAL)</b>
7-9006.30		Fayette		FD52 034 0068 002-003	HSIP 2681 (035)
<b>PROJECT DESCRIPTION</b>					
Widen Ft Harrod Rd to add another turn lane for a through and left movement, update the traffic signal to include reflective backplates, and pedestrian improvements at the intersection of US 68 at Ft Harrods Rd.					
<input checked="" type="checkbox"/> <b>No Additional Right of Way Required</b>					
Construction will be within the limits of the existing right of way. The right of way was acquired in accordance to FHWA regulations under the Uniform Relocation Assistance and Real Property Acquisitions Policy Act of 1970, as amended. No additional right of way or relocation assistance were required for this project.					
<input type="checkbox"/> <b>Condition # 1 (Additional Right of Way Required and Cleared)</b>					
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<b>Number of Parcels That Have Been Acquired</b>					
Signed Deed					
Condemnation					
Signed ROE					
<b>Notes/ Comments (Use Additional Sheet if necessary)</b>					
<b>LPA RW Project Manager</b>			<b>Right of Way Supervisor</b>		
Printed Name			Printed Name	Cecil Smith	
Signature			Signature		
Date			Date	12/19/2019	
<b>Right of Way Director</b>			<b>FHWA</b>		
Printed Name			Printed Name	<b>No Signature Required</b>	
Signature	 Digitally signed by DM Loy Date: 2019.12.19 07:45:03 -05'00'		Signature	<b>as per FHWA-KYTC</b>	
Date			Date	<b>Current Stewardship Agreement</b>	







KENTUCKY TRANSPORTATION CABINET  
Department of Highways  
DIVISION OF RIGHT OF WAY & UTILITIES  
**RIGHT OF WAY CERTIFICATION**


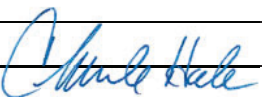
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Page 1 of 1

<input checked="" type="checkbox"/> <b>Original</b>	<input type="checkbox"/> <b>Re-Certification</b>	<b>RIGHT OF WAY CERTIFICATION</b>	
<b>ITEM #</b>	<b>COUNTY</b>	<b>PROJECT # (STATE)</b>	<b>PROJECT # (FEDERAL)</b>
7-9006.40	Fayette	FD52 034 0025 017-018	HSIP 8610 (005)
<b>PROJECT DESCRIPTION</b>			
Update the traffic signal to include reflective backplates and improve the turning radius at the intersection of US 25 and Citation Blvd.			
<input checked="" type="checkbox"/> <b>No Additional Right of Way Required</b>			
Construction will be within the limits of the existing right of way. The right of way was acquired in accordance to FHWA regulations under the Uniform Relocation Assistance and Real Property Acquisitions Policy Act of 1970, as amended. No additional right of way or relocation assistance were required for this project.			
<input type="checkbox"/> <b>Condition # 1 (Additional Right of Way Required and Cleared)</b>			
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Total Number of Parcels on Project	0	<b>EXCEPTION (S) Parcel #</b>	<b>ANTICIPATED DATE OF POSSESSION WITH EXPLANATION</b>
<b>Number of Parcels That Have Been Acquired</b>			
Signed Deed			
Condemnation			
Signed ROE			
<b>Notes/ Comments (Use Additional Sheet if necessary)</b>			
<b>LPA RW Project Manager</b>		<b>Right of Way Supervisor</b>	
Printed Name		Printed Name	Cecil Smith
Signature		Signature	
Date		Date	12/19/2019
<b>Right of Way Director</b>		<b>FHWA</b>	
Printed Name	Digitally signed by DM	Printed Name	No Signature Required
Signature	DM Loy	Signature	as per FHWA-KYTC
Date	Date: 2019.12.19 07:44:48 -05'00'	Date	Current Stewardship Agreement

	KENTUCKY TRANSPORTATION CABINET Department of Highways DIVISION OF RIGHT OF WAY & UTILITIES	TC 62-226 Rev. 01/2016 Page 1 of 1
	<b>RIGHT OF WAY CERTIFICATION</b>	

<input checked="" type="checkbox"/>	<b>Original</b>	<input type="checkbox"/>	<b>Re-Certification</b>	<b>RIGHT OF WAY CERTIFICATION</b>	
<b>ITEM #</b>	<b>COUNTY</b>	<b>PROJECT # (STATE)</b>	<b>PROJECT # (FEDERAL)</b>		
7-9006.60	Fayette	FD52 034 4524 001-002	HSIP 8547 (012)		
<b>PROJECT DESCRIPTION</b>					
Update the traffic signal to include reflective backplates and update the signing and striping near the intersection of Man O War and Parkers Mill rd.					
<input checked="" type="checkbox"/> <b>No Additional Right of Way Required</b>					
Construction will be within the limits of the existing right of way. The right of way was acquired in accordance to FHWA regulations under the Uniform Relocation Assistance and Real Property Acquisitions Policy Act of 1970, as amended. No additional right of way or relocation assistance were required for this project.					
<input type="checkbox"/> <b>Condition # 1 (Additional Right of Way Required and Cleared)</b>					
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Total Number of Parcels on Project		0	EXCEPTION (S) Parcel #		ANTICIPATED DATE OF POSSESSION WITH EXPLANATION
Number of Parcels That Have Been Acquired					
Signed Deed					
Condemnation					
Signed ROE					
<b>Notes/ Comments (Use Additional Sheet if necessary)</b>					
<b>LPA RW Project Manager</b>			<b>Right of Way Supervisor</b>		
Printed Name			Printed Name	Cecil Smith	
Signature			Signature		
Date			Date	12/19/2019	
<b>Right of Way Director</b>			<b>FHWA</b>		
Printed Name	Digitally signed by DM Loy		Printed Name	No Signature Required as per FHWA-KYTC	
Signature			Signature	Current Stewardship Agreement	
Date	Date: 2019.12.19 07:44:10 -05'00'		Date		

	KENTUCKY TRANSPORTATION CABINET Department of Highways <b>DIVISION OF RIGHT OF WAY &amp; UTILITIES</b>	TC 62-226 Rev. 01/2016 Page 1 of 1
	<b>RIGHT OF WAY CERTIFICATION</b>	

<input checked="" type="checkbox"/> <b>Original</b>	<input type="checkbox"/> <b>Re-Certification</b>	<b>RIGHT OF WAY CERTIFICATION</b>	
<b>ITEM #</b>	<b>COUNTY</b>	<b>PROJECT # (STATE)</b>	<b>PROJECT # (FEDERAL)</b>
7-9012.25	Fayette	07 034 0004 010-011	HSIP 0272 (119)
<b>PROJECT DESCRIPTION</b>			
Pedestrian Improvements near the Intersection of New Circle Road and Russell Cave Road			
<input checked="" type="checkbox"/> <b>No Additional Right of Way Required</b>			
Construction will be within the limits of the existing right of way. The right of way was acquired in accordance to FHWA regulations under the Uniform Relocation Assistance and Real Property Acquisitions Policy Act of 1970, as amended. No additional right of way or relocation assistance were required for this project.			
<input type="checkbox"/> <b>Condition # 1 (Additional Right of Way Required and Cleared)</b>			
All necessary right of way, including control of access rights when applicable, have been acquired including legal and physical possession. Trial or appeal of cases may be pending in court but legal possession has been obtained. There may be some improvements remaining on the right-of-way, but all occupants have vacated the lands and improvements, and KYTC has physical possession and the rights to remove, salvage, or demolish all improvements and enter on all land. Just Compensation has been paid or deposited with the court. All relocations have been relocated to decent, safe, and sanitary housing or that KYTC has made available to displaced persons adequate replacement housing in accordance with the provisions of the current FHWA directive.			
<input type="checkbox"/> <b>Condition # 2 (Additional Right of Way Required with Exception)</b>			
The right of way has not been fully acquired, the right to occupy and to use all rights-of-way required for the proper execution of the project has been acquired. Some parcels may be pending in court and on other parcels full legal possession has not been obtained, but right of entry has been obtained, the occupants of all lands and improvements have vacated, and KYTC has physical possession and right to remove, salvage, or demolish all improvements. Just Compensation has been paid or deposited with the court for most parcels. Just Compensation for all pending parcels will be paid or deposited with the court prior to AWARD of construction contract			
<input type="checkbox"/> <b>Condition # 3 (Additional Right of Way Required with Exception)</b>			
The acquisition or right of occupancy and use of a few remaining parcels are not complete and/or some parcels still have occupants. All remaining occupants have had replacement housing made available to them in accordance with 49 CFR 24.204. KYTC is hereby requesting authorization to advertise this project for bids and to proceed with bid letting even though the necessary right of way will not be fully acquired, and/or some occupants will not be relocated, and/or the just compensation will not be paid or deposited with the court for some parcels until after bid letting. KYTC will fully meet all the requirements outlined in 23 CFR 635.309(c)(3) and 49 CFR 24.102(j) and will expedite completion of all acquisitions, relocations, and full payments after bid letting and prior to AWARD of the construction contract or force account construction.			
Total Number of Parcels on Project	0	<b>EXCEPTION (S) Parcel #</b>	<b>ANTICIPATED DATE OF POSSESSION WITH EXPLANATION</b>
<b>Number of Parcels That Have Been Acquired</b>			
Signed Deed	0		
Condemnation	0		
Signed ROE	0		
<b>Notes/ Comments (Use Additional Sheet if necessary)</b>			
<b>LPA RW Project Manager</b>		<b>Right of Way Supervisor</b>	
Printed Name		Printed Name	Cecil Smith
Signature		Signature	 Cecil Smith 2022.01.26 11:11:30 -05'00'
Date		Date	1/26/2022
<b>Right of Way Director</b>		<b>FHWA</b>	
Printed Name		Printed Name	
Signature	 2022.01.27	Signature	<b>No Signature Required as per FHWA-KYTC Current Stewardship Agreement</b>
Date	08:14:44 -05'00'	Date	



Consent & Release Summary

Parcel	Begin MP	End MP	Side	Owner(s)	Consent & Release Description	Status	Additional Notes
1	103.393	10.414	RT	Lexington Housing Authority	Installation of new sidewalk. Work will include final dressing and seeding of all disturbed areas as part of the construction work. Repaving the entrance and installing new drainage box within the apron within the right of way will be completed. Work off existing right of way to repave to the right of way line.	Signed	
2	10.369	10.393	RT	Taco Bell	Repaving the entrance and installing new drainage box within the apron within the right of way will be completed. Work off existing right of way to repave to the right of way line.	Signed	



KENTUCKY TRANSPORTATION CABINET  
Department of Highways  
DIVISION OF RIGHT OF WAY & UTILITIESTC 62-226  
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## RIGHT OF WAY CERTIFICATION

<input checked="" type="checkbox"/> Original	<input type="checkbox"/> Re-Certification	RIGHT OF WAY CERTIFICATION	
ITEM #	COUNTY	PROJECT # (STATE)	PROJECT # (FEDERAL)
7-9012.70	Fayette	FD52 034 0027 009-0010	HSIP 0272 (120)
PROJECT DESCRIPTION			
Upgrade the Traffic Signals along US 27 to include Reflective Backplates and Improve Access Control near the Intersection of US 27 & Haggard Ln			
<input checked="" type="checkbox"/> No Additional Right of Way Required			
Construction will be within the limits of the existing right of way. The right of way was acquired in accordance to FHWA regulations under the Uniform Relocation Assistance and Real Property Acquisitions Policy Act of 1970, as amended. No additional right of way or relocation assistance were required for this project.			
<input type="checkbox"/> Condition # 1 (Additional Right of Way Required and Cleared)			
All necessary right of way, including control of access rights when applicable, have been acquired including legal and physical possession. Trial or appeal of cases may be pending in court but legal possession has been obtained. There may be some improvements remaining on the right-of-way, but all occupants have vacated the lands and improvements, and KYTC has physical possession and the rights to remove, salvage, or demolish all improvements and enter on all land. Just Compensation has been paid or deposited with the court. All relocations have been relocated to decent, safe, and sanitary housing or that KYTC has made available to displaced persons adequate replacement housing in accordance with the provisions of the current FHWA directive.			
<input type="checkbox"/> Condition # 2 (Additional Right of Way Required with Exception)			
The right of way has not been fully acquired, the right to occupy and to use all rights-of-way required for the proper execution of the project has been acquired. Some parcels may be pending in court and on other parcels full legal possession has not been obtained, but right of entry has been obtained, the occupants of all lands and improvements have vacated, and KYTC has physical possession and right to remove, salvage, or demolish all improvements. Just Compensation has been paid or deposited with the court for most parcels. Just Compensation for all pending parcels will be paid or deposited with the court prior to AWARD of construction contract			
<input type="checkbox"/> Condition # 3 (Additional Right of Way Required with Exception)			
The acquisition or right of occupancy and use of a few remaining parcels are not complete and/or some parcels still have occupants. All remaining occupants have had replacement housing made available to them in accordance with 49 CFR 24.204. KYTC is hereby requesting authorization to advertise this project for bids and to proceed with bid letting even though the necessary right of way will not be fully acquired, and/or some occupants will not be relocated, and/or the just compensation will not be paid or deposited with the court for some parcels until after bid letting. KYTC will fully meet all the requirements outlined in 23 CFR 635.309(c)(3) and 49 CFR 24.102(j) and will expedite completion of all acquisitions, relocations, and full payments after bid letting and prior to AWARD of the construction contract or force account construction.			
Total Number of Parcels on Project	0	EXCEPTION (S) Parcel #	ANTICIPATED DATE OF POSSESSION WITH EXPLANATION
Number of Parcels That Have Been Acquired			
Signed Deed	0		
Condemnation	0		
Signed ROE	0		
Notes/ Comments (Use Additional Sheet if necessary)			
LPA RW Project Manager		Right of Way Supervisor	
Printed Name		Printed Name	Cecil Smith
Signature		Signature	 Cecil Smith 2020.06.15 14:24:49 -04'00'
Date		Date	6/15/2020
Right of Way Director		FHWA	
Printed Name		Printed Name	No Signature Required
Signature	 2020.06.16 10:02:04 -04'00'	Signature	as per FHWA-KYTC
Date		Date	Current Stewardship Agreement







KENTUCKY TRANSPORTATION CABINET  
Department of Highways  
DIVISION OF RIGHT OF WAY & UTILITIES

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RIGHT OF WAY CERTIFICATION

<input checked="" type="checkbox"/> Original	<input type="checkbox"/> Re-Certification	RIGHT OF WAY CERTIFICATION	
ITEM #	COUNTY	PROJECT # (STATE)	PROJECT # (FEDERAL)
7-9012.90	Jessamine	FD52 057 0027 007-008	HSIP 0271 (099)
PROJECT DESCRIPTION			
Construct Offset Left Turn Lanes along US 27, Upgrade the Traffic Signal to include Reflective Backplates, and Improve the Striping along Edgewood Dr near the Intersection of US 27 & Edgewood Dr			
<input checked="" type="checkbox"/> <b>No Additional Right of Way Required</b>			
Construction will be within the limits of the existing right of way. The right of way was acquired in accordance to FHWA regulations under the Uniform Relocation Assistance and Real Property Acquisitions Policy Act of 1970, as amended. No additional right of way or relocation assistance were required for this project.			
<input type="checkbox"/> <b>Condition # 1 (Additional Right of Way Required and Cleared)</b>			
All necessary right of way, including control of access rights when applicable, have been acquired including legal and physical possession. Trial or appeal of cases may be pending in court but legal possession has been obtained. There may be some improvements remaining on the right-of-way, but all occupants have vacated the lands and improvements, and KYTC has physical possession and the rights to remove, salvage, or demolish all improvements and enter on all land. Just Compensation has been paid or deposited with the court. All relocations have been relocated to decent, safe, and sanitary housing or that KYTC has made available to displaced persons adequate replacement housing in accordance with the provisions of the current FHWA directive.			
<input type="checkbox"/> <b>Condition # 2 (Additional Right of Way Required with Exception)</b>			
The right of way has not been fully acquired, the right to occupy and to use all rights-of-way required for the proper execution of the project has been acquired. Some parcels may be pending in court and on other parcels full legal possession has not been obtained, but right of entry has been obtained, the occupants of all lands and improvements have vacated, and KYTC has physical possession and right to remove, salvage, or demolish all improvements. Just Compensation has been paid or deposited with the court for most parcels. Just Compensation for all pending parcels will be paid or deposited with the court prior to AWARD of construction contract			
<input type="checkbox"/> <b>Condition # 3 (Additional Right of Way Required with Exception)</b>			
The acquisition or right of occupancy and use of a few remaining parcels are not complete and/or some parcels still have occupants. All remaining occupants have had replacement housing made available to them in accordance with 49 CFR 24.204. KYTC is hereby requesting authorization to advertise this project for bids and to proceed with bid letting even though the necessary right of way will not be fully acquired, and/or some occupants will not be relocated, and/or the just compensation will not be paid or deposited with the court for some parcels until after bid letting. KYTC will fully meet all the requirements outlined in 23 CFR 635.309(c)(3) and 49 CFR 24.102(j) and will expedite completion of all acquisitions, relocations, and full payments after bid letting and prior to AWARD of the construction contract or force account construction.			
Total Number of Parcels on Project	0	EXCEPTION (S) Parcel #	ANTICIPATED DATE OF POSSESSION WITH EXPLANATION
Number of Parcels That Have Been Acquired			
Signed Deed	0		
Condemnation	0		
Signed ROE	0		
Notes/ Comments (Use Additional Sheet if necessary)			
LPA RW Project Manager		Right of Way Supervisor	
Printed Name		Printed Name	Cecil Smith
Signature		Signature	 Cecil Smith 2021.07.09 11:29:19 -04'00'
Date		Date	7/9/2021
Right of Way Director		FHWA	
Printed Name		Printed Name	No Signature Required as per FHWA-KYTC Current Stewardship Agreement
Signature	 2021.07.12 10:53:20 -04'00'	Signature	
Date		Date	

Consent & Release Summary

Parcel	Begin MP	End MP	Side	Owner(s)	Consent & Release Description	Status	Additional Notes
1	0.190	0.241	RT	McDonald's USA, LLC	Installation of new sidewalk along Edgewood Drive between US 27 and Hendren Way. Work will include final dressing and seeding of all disturbed areas as part of the construction work.	Signed	

## UTILITIES AND RAIL CERTIFICATION NOTE

**Fayette and Jessamine Counties  
Improvements at Various Intersections  
7-963.00, 7-967.00, 7-9006.10, 7-9006.30, 7-9006.40, 7-9006.60,  
7-9012.25, 7-9012.70, 7-9012.90**

### GENERAL PROJECT NOTE ON UTILITY PROTECTION

*Utility coordination efforts determined that no significant utility relocation work is required to complete the project. Any work pertaining to these utility facilities is defined in the bid package and is to be carried out as instructed by the Kentucky Transportation Cabinet. The contractor will be responsible for any coordination or adjustments that are discussed or quantified in the proposal.*

### NOTE: DO NOT DISTURB THE FOLLOWING UTILITIES LOCATED WITHIN THE PROJECT DISTURB LIMITS

Kentucky American Water Company (water mains), Columbia Gas (natural gas), Windstream (internet and cable), Insight Communications (internet and cable), and Kentucky Utilities (electric). All utilities whose facilities are present are not to be disturbed during construction activities.

#### **7-963.00 - Alexandria Drive (CS 4009) at Trailwood Lane:**

- Underground electric facilities LT Sta. 9+10 to Sta. 12+34 and RT Sta. 13+78 to Sta. 16+10.5
- Underground gas facilities crossing under Alexandria Drive at Sta. 12+58 and along Alexandria Drive RT Sta. 12+60 to Sta. 17+07
- Underground fiber optic facilities LT Sta. 11+19 to Sta. 11+91, then crossing under Alexandria Drive at Sta. 11+61. Underground fiber optic facilities LT Sta. 12+42 to Sta. 14+34, then crossing under Alexandria Drive at Sta. 14+33 and along Alexandria Drive RT Sta. 14+31 to Sta. 17+07
- Underground telecommunications facilities RT Sta. 11+90 to Sta. 14+05
- Underground water facilities running along the south side of Trailwood Lane
- Utility poles along Alexandria Drive

#### **7-967.00 – Broadway at Red Mile Road:**

- GAS: Columbia Gas has underground gas line that runs parallel along US 68 and is approx. 15' RT to 22' RT. There are service lines that run perpendicular to US 68 for gas valve at STA. 295+52, 41.5' RT.
- WATER: Kentucky American Water has underground 10" water main that runs parallel along US 68 approx. 4' RT to 13' RT and an underground 12" water main that runs parallel along US 68 approx. 27' RT. The following water valves/manholes will be removed by KAMW – STA. 295+87 @ 29' RT, STA. 295+98 @ 25' RT, and STA. 295+98 @ 28' RT. The following water valves shall not be disturbed – STA. 296+09 @ 31' RT and STA. 296+11 @ 31' RT.
- SANITARY SEWER: LFUCG Division of Water Quality has underground 8" sanitary sewer line that runs parallel along US 68 and is approx. 34' RT. This connects via perpendicular 8" line that connects to the parallel 8" line approx. 24' LT. The 8" perpendicular line is at STA. 295+62. There is a 6" perpendicular line at STA. 295+45 with manhole at 42' RT.
- STORM SEWER: LFUCG Division of Water Quality has underground 15" storm sewer that runs parallel along US 68 and is approx. 23' RT until STA. 234+96, then goes to Storm Sewer Manhole at STA. 295+50, 35' RT.
- ELECTRIC AND TELEPHONE: Kentucky Utilities has power poles and overhead electric that runs parallel along US 68. Windstream has overhead telephone that runs parallel along US 68.

UTILITIES AND RAIL CERTIFICATION NOTE

Fayette and Jessamine Counties  
Improvements at Various Intersections  
7-963.00, 7-967.00, 7-9006.10, 7-9006.30, 7-9006.40, 7-9006.60,  
7-9012.25, 7-9012.70, 7-9012.90

**7-9006.10 - North Broadway (US 27) MP 7.853 at West Loudon:** Existing 12” and 16” water mains and existing 8” and 12” gas mains are located along North Broadway and West Loudon. Utility poles and overhead lines are located along North Broadway and West Loudon.

**7-9006.30 - Harrodsburg Road (US 68) MP 2.403 at Ft. Harrods Drive:** Existing 12”, 16”, and 24” water mains and existing 4”, 6”, and 8” gas mains are located along Harrodsburg Road and Ft. Harrods Drive. Utility poles and underground and overhead lines are located along Harrodsburg Road and Ft. Harrods Drive.

**7-9006.40 - Georgetown Road (US 25) MP 17.695 at Citation Boulevard:** Existing 12” and 16” water mains and 4”, 6”, and existing 8” gas mains are located along Georgetown Road and Citation Boulevard. Utility poles and underground and overhead electric lines are located along Georgetown Road and Citation Boulevard.

**7-9006.60 - Man O War Boulevard (CS 4524) MP 1.269 at Parkers Mill Road:** Existing 8”, 12”, and 24” water mains are located along Man O War and Parkers Mill Road. Utility poles and overhead electric lines are located along Man O War.

**7-9012.25 - New Circle Rd (KY 4) MP 10.356 at Russell Cave Rd (KY 353):** Existing 10-12” water mains, 4” & 12” gas mains and sanitary sewer lines are located along New Circle Road and Russell Cave Road. Utility poles and overhead lines are also located along New Circle Road and Russell Cave Road.

**7-9012.70 - North Broadway (US 27) MP 9.597 at Haggard Lane**  
Existing 10-12” water mains along North Broadway and Haggard Lane. Existing 4” gas mains are located along North Broadway and 6” gas mains along Haggard Lane. Utility poles and overhead lines are also located along North Broadway and Haggard Lane.

**7-9012.90 - Nicholasville Bypass (US 27) MP 7.560 at Edgewood Dr.:** Existing 6” gas mains, 20” water lines and underground electric along US 27. Existing 6”-12” water lines and 8” sanitary sewer lines are located along Edgewood Drive. Utility poles and overhead lines are also located along US 27 and Edgewood Drive.

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

THE FOLLOWING COMPANIES ARE RELOCATING/ADJUSTING THEIR UTILITIES WITHIN THE PROJECT LIMITS  
AND WILL BE COMPLETE PRIOR TO CONSTRUCTION

**7-9006.30 - Harrodsburg Road (US 68) MP 2.403 at Ft. Harrods Drive:** Kentucky Utilities has a luminaire to be relocated before work commences. The luminaire will be relocated per an ongoing contract between Kentucky Utilities and the Lexington Fayette Urban County Government (LFUCG). The contractor is to coordinate with KU and LFUCG on relocation of the luminaires.

**7-9012.25 - New Circle Rd (KY 4) MP 10.356 at Russell Cave Rd (KY 353):** Columbia Gas – Gas Valve and 12” HP on the north side of KY 4.

UTILITIES AND RAIL CERTIFICATION NOTE

Fayette and Jessamine Counties  
Improvements at Various Intersections  
7-963.00, 7-967.00, 7-9006.10, 7-9006.30, 7-9006.40, 7-9006.60,  
7-9012.25, 7-9012.70, 7-9012.90

THE FOLLOWING COMPANIES HAVE FACILITIES TO BE RELOCATED/ADJUSTED BY THE COMPANY OR THE COMPANY’S SUBCONTRACTOR AND IS TO BE COORDINATED WITH THE ROAD CONTRACT

7-963.00 - Alexandria Drive (CS 4009) at Trailwood Lane:

- Kentucky Utilities has two luminaires to be relocated. This work should be completed prior to beginning roadway construction to minimize the amount of time the luminaires will be out of service. The concrete bases will be installed by Kentucky Utilities. The contractor is to coordinate with KU and LFUCG on relocation of the luminaires.
- The water valve at Sta. 13+43, 64’ RT may need to be adjusted. Contractor shall coordinate with Kentucky American Water prior to beginning sidewalk construction. Kentucky American Water will adjust the valve as needed.

7-967.00 – Broadway at Red Mile Road:

- GAS: Columbia Gas has existing gas valve box that is to be adjusted to grade of the proposed sidewalk. The gas valve box is at STA. 294+82, 31.2’ RT.

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

7-967.00 – Broadway at Red Mile Road:

- RELOCATE FIRE HYDRANT: LFUCG Division of Water Quality has existing fire hydrant that is within proposed sidewalk construction limits – STA. 295+11, 32’ RT. Relocate Fire Hydrant to STA. 295+11, 38’ RT.
- INSTALL JUNCTION BOX - LFUCG Division of Water Quality has existing 8” storm sewer line that runs perpendicular to US 68 at STA. 296+82. Remove Nyoplast Yard Inlet and replace junction box at STA. 296+82, 25’ RT within proposed full depth pavement construction.

THE FOLLOWING RAIL COMPANIES HAVE FACILITIES IN CONJUNCTION WITH THIS PROJECT AS NOTED

☒ No Rail Involved      ☐ Minimal Rail Involved (See Below)      ☐ Rail Involved (See Below)

UNDERGROUND FACILITY DAMAGE PROTECTION – BEFORE YOU DIG

## UTILITIES AND RAIL CERTIFICATION NOTE

**Fayette and Jessamine Counties  
Improvements at Various Intersections  
7-963.00, 7-967.00, 7-9006.10, 7-9006.30, 7-9006.40, 7-9006.60,  
7-9012.25, 7-9012.70, 7-9012.90**

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.

### **SPECIAL CAUTION NOTE – PROTECTION OF UTILITIES**

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 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.

***Please Note: The information presented in this Utility Note is informational in nature and the information contained herein is not guaranteed.***

## UTILITIES AND RAIL CERTIFICATION NOTE

**Fayette and Jessamine Counties  
Improvements at Various Intersections  
7-963.00, 7-967.00, 7-9006.10, 7-9006.30, 7-9006.40, 7-9006.60,  
7-9012.25, 7-9012.70, 7-9012.90**

### AREA UTILITIES CONTACT LIST

Utility Company/Agency	Contact Name	Contact Information
AT&T KY	Frank Ambrose	(502) 867-8240 <a href="mailto:fa2207@att.com">fa2207@att.com</a>
AT&T Legacy	Don Garr	(502) 741-8374 <a href="mailto:drgarr@hughes.net">drgarr@hughes.net</a>
CenturyLink	Jim Trapnell	<a href="mailto:Jim.trapnell@lumen.com">Jim.trapnell@lumen.com</a>
Metronet	Doug Haney	<a href="mailto:Doug.Haney@metronet.com">Doug.Haney@metronet.com</a>
Windstream	Steve Johnson	(859) 357-6209 <a href="mailto:Steve.Johnson@windstream.com">Steve.Johnson@windstream.com</a>
Windstream	Lezlie Allison	(859) 357-6205 <a href="mailto:Lezlie.Allison@Windstream.com">Lezlie.Allison@Windstream.com</a>
KDL Windstream	Mark Ware	(606) 329-6195 <a href="mailto:Mark.Ware@windstream.com">Mark.Ware@windstream.com</a>
Spectrum	Kelly Oram	(859) 519-3434 <a href="mailto:John.oram@charter.com">John.oram@charter.com</a>
Kentucky Utilities – Distribution	Chris Cobler	(859) 367-4308 <a href="mailto:Christopher.cobler@lge-ku.com">Christopher.cobler@lge-ku.com</a>
Kentucky Utilities – Transmission	Ashley Burns	(859) 936-3219 <a href="mailto:Ashley.burns@lge-ku.com">Ashley.burns@lge-ku.com</a>
Kentucky Utilities	Kevin Jeffers Miles Waskey	<a href="mailto:Kevin.Jeffers@lge-ku.com">Kevin.Jeffers@lge-ku.com</a> <a href="mailto:Miles.Waskey@lge-ku.com">Miles.Waskey@lge-ku.com</a>
Kentucky Utilities	Michelle Taylor	(859) 367-4276 <a href="mailto:michelle.taylor@lge-ku.com">michelle.taylor@lge-ku.com</a>



## UTILITIES AND RAIL CERTIFICATION NOTE

**Fayette and Jessamine Counties  
Improvements at Various Intersections  
7-963.00, 7-967.00, 7-9006.10, 7-9006.30, 7-9006.40, 7-9006.60,  
7-9012.25, 7-9012.70, 7-9012.90**

Utility Company/Agency	Contact Name	Contact Information
Kentucky Utilities	Rodney Brock	(859) 367-4304 <a href="mailto:rodney.brock@lge-ku.com">rodney.brock@lge-ku.com</a>
LFUCG – Fiber	Jeff Neal	(859) 258-3497 <a href="mailto:jneal@lexingtonky.gov">jneal@lexingtonky.gov</a>
LFUCG Division of Water Quality	Craig Prather	(859) 258-6701 <a href="mailto:cprather@lexingtonky.gov">cprather@lexingtonky.gov</a>
NiSource Columbia Gas of Kentucky	Ryan Vanderpool	(859) 288-6335 <a href="mailto:rvanderpool@nisource.com">rvanderpool@nisource.com</a>
Kentucky American Water	Tobey Adams	(859) 268-6701 <a href="mailto:tobey.adams@amwater.com">tobey.adams@amwater.com</a>
Columbia Gas of Kentucky	Bryan Slone David N. Lemons	(859) 288-0253 <a href="mailto:bkslone@nisource.com">bkslone@nisource.com</a> <a href="mailto:dnlemons@nisource.com">dnlemons@nisource.com</a>
Delta Gas	Brian Sidwell	(859) 744-6171 <a href="mailto:bsidwell@DeltaGas.com">bsidwell@DeltaGas.com</a>
City of Nicholasville	Michael Stinnett	(859) 885-1121 <a href="mailto:michael.stinnett@nicholasville.org">michael.stinnett@nicholasville.org</a>

**NOTE: The Utilities Contact List is provided as informational only, and may not be a complete list of all Utility Companies with facilities in the project area.**



# Standard Water Bid Item Descriptions

**W AIR RELEASE VALVE** This bid item description shall apply to all air release valve installations of every size except those defined as “Special”. This item shall include the air release valve, main to valve connecting line or piping, manhole, vault, structure, access casting or doors, tapping the main, labor, equipment, excavation, proper backfill and restoration required to install the air release valve at the location shown on the plans or as directed in accordance with the specifications and standard drawings complete and ready for use. All air release/vacuum valves on a project shall be paid under one bid item regardless of size. No separate pay items will be established for size variations. Only in the case of the uniqueness of a particular air release valve would a separate bid item be established. Please refer to the Utility Company’s Specifications. If the Company does not have specifications, KYTC’s Specifications shall be referenced. This item shall be paid EACH (EA) when complete.

**BOLLARDS** This item is for payment for furnishing and installing protective guard posts at above ground utility installations. A bollard may consist of, but not limited to, a steel post set in concrete or any other substantial post material. This item shall include all labor, equipment, and materials needed for complete installation of the bollard as specified by the utility owner specifications and plans. If the Company does not have specifications, KYTC’s Specifications shall be referenced. This item shall be paid EACH (EA) when complete.

*NOTE: A bid code for this item has been established in standard roadway bid items and shall be used for payment of this item. The bid code is 21341ND*

**W CAP EXISTING MAIN** This item shall include the specified cap, concrete blocking and/or mechanical anchoring, labor, equipment, excavation, backfill, and restoration required to install the cap at the location shown on the plans or as directed in accordance with the specifications. This item is not to be paid on new main installations. This pay item is only to be paid to cap existing mains. Caps on new mains are incidental to the new main. Any and all caps on existing mains shall be paid under one bid item included in the contract regardless of size. No separate bid items will be established for size variations. Please refer to the Utility Company’s Specifications. If the Company does not have specifications, KYTC’s Specifications shall be referenced. This item shall be paid EACH (EA) when complete.

**W DIRECTIONAL BORE** Payment under this item is made whenever the plans or specifications specifically show directional boring is to be utilized in order to minimize the impact of open cut for the installation of water main under streets, creeks, and etc. Payment under this item shall include the specified bore pipe, labor, and equipment. No separate payment shall be made for bore pipe installed in the bore whether used as a carrier pipe or an encasement of a separate carrier pipe. This item shall also include pipe anchors at each end of the bore when specified to prevent the creep or contraction of the bore pipe. Carrier pipe installed within a bore pipe shall be paid separately under pipe items. Payment under this item shall not be size specific and no separate bid items will be established for size variations. The bore pipe sizes to be included under this item shall be as shown on the plans and/or in the specifications. Any and all directional bores in each contract shall be paid under one directional bore bid item included in the contract regardless of size. Please refer to the Utility Company’s Specifications. If the Company does not have specifications, KYTC’s Specifications shall be referenced. This item shall be paid LINEAR FEET (LF) when complete.

**W ENCASEMENT CONCRETE** Includes all labor, equipment, excavation, concrete, reinforcing steel, backfill, restoration, and etc., to construct the concrete encasement of the water main as shown on the plans, and in accordance with the specifications and standard drawings. Payment under this item shall be in addition to the carrier pipe as paid under separate bid items. Carrier pipe is not included in this bid item. Any and all concrete encasement shall be paid under one bid item included in the contract regardless of the size of the carrier pipe or the volume of concrete or steel reinforcement as specified in the plans and specifications. No separate bid items will be established for size variations. Measurement of pay quantity shall be from end of concrete to end of concrete. Please refer to the Utility Company’s Specifications. If the Company does not have specifications, KYTC’s Specifications shall be referenced. This item shall be paid LINEAR FEET (LF) when complete.

**W ENCASEMENT STEEL BORED** This item shall include the steel encasement pipe size as specified on the plans and in the specifications, casing spacers, end seals, labor, and equipment to bore and install the encasement in accordance with the plans and specifications, complete and ready for use. The size shall be the measured internal diameter of the encasement pipe. The sizes of encasement to be paid under the size ranges specified in the bid items shall be as follows:

- Range 1 = All encasement sizes greater than 2 inches to and including 6 inches
- Range 2 = All encasement sizes greater than 6 inches to and including 10 inches
- Range 3 = All encasement sizes greater than 10 inches to and including 14 inches
- Range 4 = All encasement sizes greater than 14 inches to and including 18 inches
- Range 5 = All encasement sizes greater than 18 inches to and including 24 inches
- Range 6 = All encasement sizes greater than 24 inches

*(Encasement sizes of 2 inches internal diameter or less shall not be paid separately; but, shall be considered incidental to the carrier pipe.)* Payment under this bid item shall not include the carrier pipe. Carrier pipe shall be paid under a separate bid item. Please refer to the Utility Company’s Specifications. If the Company does not have specifications, KYTC’s Specifications shall be referenced. This item shall be paid LINEAR FEET (LF) when complete.

**W ENCASEMENT STEEL OPEN CUT** This item shall include the steel encasement pipe size as specified on the plans and in the specifications, casing spacers, end seals, labor, and equipment to open cut and install the encasement in accordance with the plans and specifications, complete and ready for use. The size shall be the measured internal diameter of the encasement pipe. The size encasement to be paid under the size ranges specified in the bid items shall be as follows:

- Range 1 = All encasement sizes greater than 2 inches to and including 6 inches
- Range 2 = All encasement sizes greater than 6 inches to and including 10 inches
- Range 3 = All encasement sizes greater than 10 inches to and including 14 inches
- Range 4 = All encasement sizes greater than 14 inches to and including 18 inches
- Range 5 = All encasement sizes greater than 18 inches to and including 24 inches
- Range 6 = All encasement sizes greater than 24 inches

*(Encasement sizes of 2 inches internal diameter or less shall not be paid separately; but, shall be considered incidental to the carrier pipe.)* Payment under this bid item shall not include the carrier pipe. Carrier pipe shall be paid under a separate bid item. Please refer to the Utility Company’s Specifications. If the Company does not have specifications, KYTC’s Specifications shall be referenced. This item shall be paid LINEAR FEET (LF) when complete.

**W FIRE HYDRANT ADJUST** Includes all labor, equipment, excavation, materials, and backfill to adjust the existing fire hydrant using the fire hydrant manufacturer's extension kit for adjustments of 18" or less. Adjustments greater than 18" require anchoring couplings and vertical bends to adjust to grade. The Contractor will supply and install all anchor couplings, bends, fire hydrant extension, concrete blocking, restoration, granular drainage material, etc, needed to adjust the fire hydrant complete and ready for use as shown on the plans, and in accordance with the specifications and standard drawings. This also includes allowing for the utility owner inspector to inspect the existing fire hydrant prior to adjusting, contractor returning unusable fire hydrants to the utility owner warehouse and picking up a replacement hydrant. No additional payment will be made for rock excavation. Please refer to the Utility Company’s Specifications. If the Company does not have specifications, KYTC’s Specifications shall be referenced. This item shall be paid EACH (EA) when complete and ready for use.

**W FIRE HYDRANT ASSEMBLY** Includes all labor, equipment, new fire hydrant, isolating valve and valve box, concrete pad around valve box (when specified in specifications or plans), piping, anchoring tee, anchoring couplings, fire hydrant extension, excavation, concrete blocking, granular drainage material, backfill, and restoration, to install a new fire hydrant assembly as indicated on plans and on standard drawings compete and ready for use. No additional payment will be made for rock excavation. Please refer to the Utility Company’s

Specifications. If the Company does not have specifications, KYTC's Specifications shall be referenced. This item shall be paid EACH (EA) when complete.

**W FIRE HYDRANT RELOCATE** This item includes all labor and equipment to remove the existing fire hydrant from its existing location and reinstalling at a new location. This item shall include a new isolating valve and valve box, concrete pad around valve box (when required in specifications or plans), new piping, new anchoring tee, anchoring couplings, fire hydrant extensions, concrete blocking, restoration, granular drainage material, excavation, and backfill as indicated on plans, specifications, and on standard drawings complete and ready for use. This item shall also include allowing for utility owner inspector to inspect the existing fire hydrant prior to reuse, contractor returning unusable fire hydrants to the utility owner warehouse and picking up a replacement hydrant for use, if the existing fire hydrant is determined unfit for reuse. No additional payment will be made for rock excavation. Please refer to the Utility Company's Specifications. If the Company does not have specifications, KYTC's Specifications shall be referenced. This item shall be paid EACH (EA) when complete.

**W FIRE HYDRANT REMOVE** This bid item includes removal of an abandoned fire hydrant, isolating valve, and valve box to the satisfaction of the engineer. The removed fire hydrant, isolating valve and valve box shall become the property of the contractor for his disposal as salvage or scrap. Please refer to the Utility Company's Specifications. If the Company does not have specifications, KYTC's Specifications shall be referenced. This item shall be paid EACH (EA) when complete.

**W FLUSH HYDRANT ASSEMBLY** This item shall include the flushing hydrant assembly, service line, tapping the main, labor, equipment, excavation, backfill, and restoration required to install the flush hydrant at the location shown on the plans and in accordance with the specifications and standard drawings, complete and ready for use. Please refer to the Utility Company's Specifications. If the Company does not have specifications, KYTC's Specifications shall be referenced. This item shall be paid EACH (EA) when complete.

**W FLUSHING ASSEMBLY** This item shall include the flushing device assembly, service line, meter box and lid, tapping the main, labor, equipment, excavation, backfill, and restoration required to install the flushing device at the location shown on the plans and in accordance with the specifications and standard drawings, complete and ready for use. Please refer to the Utility Company's Specifications. If the Company does not have specifications, KYTC's Specifications shall be referenced. This item shall be paid EACH (EA) when complete.

**W LEAK DETECTION METER** This item is for payment for installation of a water meter at main valve locations where shown on the plans for detection of water main leaks. The meter shall be of the size and type specified in the plans or specifications. This item shall include all labor, equipment, meter, meter box or vault, connecting pipes between main and meter, main taps, tapping saddles, casting, yoke, and any other associated material needed for installation of a functioning water meter in accordance with the plans and specifications, complete and ready for use. No separate payment will be made under any other contract item for connecting pipe or main taps. Any and all leak detection meters shall be paid under one bid item included in the contract regardless of size. No separate bid items will be established for size variations. Please refer to the Utility Company's Specifications. If the Company does not have specifications, KYTC's Specifications shall be referenced. This item shall be paid EACH (EA) when complete and ready for use.

**W LINE MARKER** This item is for payment for furnishing and installing a water utility line marker as specified by the utility owner specifications and plans. A line marker may consist of a post or monument of whatever materials specified and shall include markings and/or signage on same as specified by plans or specifications. This item shall include all labor, equipment, and materials needed for complete installation of the marker. This item shall be paid EACH (EA) when complete.

**W LINE STOP SIZE 1 OR 2:** This item shall include the line stop saddle/sleeve, valve, completion plug and any other material, labor, and equipment necessary to complete the line stop as indicated in the plans and/or specifications. This installation shall allow the waterline system to operate as usual without any interruption of service. The size shall be the measured internal diameter of the live pipe to be tapped. The line stop size to be

paid under sizes 1 or 2 shall be as follows:

Size 1 = All live tapped main sizes up to and including 8 inches

Size 2 = All live tapped main sizes greater than 8 inches

Please refer to the Utility Company's Specifications. If the Company does not have specifications, KYTC's Specifications shall be referenced. This item shall be paid EACH (EA) when complete.

**W MAIN POINT RELOCATE** This item is intended for payment for horizontal and/or vertical relocation of a short length of an existing main at the locations shown on the plans. This bid item is to be used to relocate an existing water main at point locations such as to clear a conflict at a proposed drainage structure, pipe or any other similar short relocation situation, and where the existing pipe material is to be reused. The contractor shall provide any additional pipe or fitting material needed to complete the work as shown on the plans and specifications. The materials provided shall be of the same type and specification as those that exist. Substitution of alternative materials shall be approved by the engineer in advance on a case by case basis. New polyethylene wrap is to be provided (if wrap exists or is specified in the specifications to be used). If it is necessary that the pipe be disassembled for relay, payment under this item shall also include replacement of joint gaskets as needed. Bedding and backfill shall be provided and performed the same as with any other pipe installation as detailed in the plans and specifications. Payment under this item shall be for each location requiring an existing main to be relocated horizontally or vertically regardless of pipe size or relocation length. No separate pay items will be established for pipe size variations or relocation segment length variations. Water Main Relocate shall not be paid on a linear feet basis; but, shall be Paid EACH (EA) at each location when complete and placed in service. Please refer to the Utility Company's Specifications. If the Company does not have specifications, KYTC's Specifications shall be referenced.

**W METER** This item is for payment for installation of all standard water meters of all sizes 2 inches ID or less as specified on the plans. This item shall include all labor, equipment, meter, meter box, casting, yoke, and any other associated material needed for installation of a functioning water meter in accordance with the plans and specifications, complete and ready for use. This item shall include connections to the new or existing water service line. Please refer to the Utility Company's Specifications. If the Company does not have specifications, KYTC's Specifications shall be referenced. This item shall be paid EACH (EA) when complete.

**W METER ADJUST** This item includes all labor, equipment, excavation, materials, backfill, restoration, and etc., to adjust the meter casting to finished grade (whatever size exists) at the location shown on the plans or as directed in accordance with the specifications and standard drawings complete and ready for use. Please refer to the Utility Company's Specifications. If the Company does not have specifications, KYTC's Specifications shall be referenced. This item shall be paid EACH (EA) when complete.

**W METER RELOCATE** This item includes all labor, equipment, excavation, additional fittings, disinfection, testing, restoration, and etc., to relocate the existing water meter (whatever size exists), meter yoke, meter box, casting, and etc., from its old location to the location shown on the plans or as directed, in accordance with the specifications and standard drawings complete and ready for use. The new service pipe (if required) will be paid under short side or long side service bid items. Any and all meter relocations of 2 inches or less shall be paid under one bid item included in the contract regardless of size. Each individual relocation shall be paid individually under this item; however, no separate bid items will be established for meter size variations of 2 inches ID or less. Please refer to the Utility Company's Specifications. If the Company does not have specifications, KYTC's Specifications shall be referenced. This item shall be paid EACH (EA) when complete.

**W METER VAULT SIZE RANGE 1 OR 2** This item is for payment for installation of an underground structure for housing of a larger water meter, fittings, and valves as required by the plans and specifications. This item shall include all labor, equipment, excavation, concrete, manhole castings or access doors, the specified meter(s) valve(s), all piping, and fitting materials associated with installing a functioning meter and vault in accordance with the plans, standard drawings, and specifications, complete and ready for use. The size shall be the measured internal diameter of the meter and piping to be installed. The size meter vault to be paid under size 1 or 2 shall be as follows:

Size Range 1 = All meter and piping sizes greater than 2 inches up to and including 6 inches

Size Range 2 = All meter and piping sizes greater than 6 inches

This item shall be paid EACH (EA) when complete. Please refer to the Utility Company's Specifications. If the Company does not have specifications, KYTC's Specifications shall be referenced.

**W METER/FIRE SERVICE COMBO VAULT** This item is for payment for installation of an underground structure for housing of a water meter and fire service piping, fittings, and valves as required by the plans and specifications. This item shall include all labor, equipment, excavation, concrete, manhole castings or access doors, the specified meter(s), valve(s), all piping, and fitting materials associated with installing a functioning meter and fire service vault in accordance with the plans and specifications, complete and ready for use. Please refer to the Utility Company's Specifications. If the Company does not have specifications, KYTC's Specifications shall be referenced. This item shall be paid EACH (EA) when complete.

**W METER WITH PRESSURE REDUCING VALVE (PRV)** This item is for payment for installation of all standard water meters with pressure reducing valves (PRV) of all sizes 2 inches ID or less as specified on the plans. This item shall include all labor, equipment, meter, PRV, meter box, casting, yoke, and any other associated material needed for installation of a functioning water meter with PRV in accordance with the plans and specifications, complete and ready for use. This item shall include connections to the new or existing water service line. Please refer to the Utility Company's Specifications. If the Company does not have specifications, KYTC's Specifications shall be referenced. This item shall be paid EACH (EA) when complete.

**W PIPE** This description shall apply to all PVC, ductile iron, and polyethylene/plastic pipe bid items of every size and type to be used as water main, except those bid items defined as "Special". This item includes the pipe specified by the plans and specifications, all fittings (including, but not limited to, bends, tees, reducers, plugs, and caps), tracing wire with test boxes (if required by specification), polyethylene wrap (when specified), labor, equipment, excavation, bedding, restoration, testing, sanitizing, backfill, and etc., required to install the specified new pipe and new fittings at the locations shown on the plans, or as directed, in accordance with the specifications and standard drawings complete and ready for use. No additional payment will be made for rock excavation. This bid item includes material and placement of flowable fill under existing and proposed pavement, and wherever else specified on the plans or in the specifications. This item shall include all temporary and permanent materials and equipment required to pressure test and sanitize mains including, but not limited to, pressurization pumps, hoses, tubing, gauges, main taps, saddles, temporary main end caps or plugs and blocking, main end taps for flushing, chlorine liquids or tablets for sanitizing, water for testing/sanitizing and flushing (when not supplied by the utility), chlorine neutralization equipment and materials, and any other items needed to accomplish pressure testing and sanitizing the main installation. This item shall also include pipe anchors, at each end of polyethylene pipe runs when specified to prevent the creep or contraction of the pipe. Measurement of quantities under this item shall be through fittings, encasements, and directional bores (only when a separate carrier pipe is specified within the directional bore pipe). Measurements shall be further defined to be to the center of tie-in where new pipe contacts existing pipe at the center of connecting fittings, to the outside face of vault or structure walls, or to the point of main termination at dead ends. No separate payment will be made under pipe items when the directional bore pipe is the carrier pipe. Please refer to the Utility Company's Specifications. If the Company does not have specifications, KYTC's Specifications shall be referenced. This item shall be paid LINEAR FEET (LF) when complete.

**W PLUG EXISTING MAIN** This item shall include the specified plug, concrete blocking and/or anchoring, labor, equipment, excavation, backfill, and restoration required to install the plug in an existing in-service main that is to remain at the location shown on the plans or as directed in accordance with the specifications. Any and all plugs on all existing in-service mains shall be paid under one bid item included in the contract regardless of size. No separate bid items will be established for size variations. Please refer to the Utility Company's Specifications. If the Company does not have specifications, KYTC's Specifications shall be referenced. This item shall be paid EACH (EA) when complete.

*NOTE: This utility bid item is not to be paid on new main installations or abandoned mains. This pay item is to plug existing in-service mains only. Plugs on new mains are incidental to the new main just like all other fittings.*

*NOTE: Plugging of existing abandon mains shall be performed and paid in accordance with Section 708.03.05 of KYTC Standard Specifications For Road And Bridge Construction and paid using Bid Code 01314 Plug Pipe.*

**W PRESSURE REDUCING VALVE** This description shall apply to all pressure reducing valves (PRV) of every size required in the plans and specifications except those bid items defined as “Special”. Payment under this description is to be for PRVs being installed with new main. This item includes the PRV as specified in the plans and specifications, polyethylene wrap (if required by specification), labor, equipment, excavation, anchoring (if any), pit or vault, backfill, restoration, testing, disinfection, and etc., required to install the specified PRV at the location shown on the plans in accordance with the specifications and standard drawings complete and ready for use. If required on plans and/or proposed adjoining DIP is restrained, PRVs shall be restrained. PRV restraint shall be considered incidental to the PRV and adjoining pipe. Please refer to the Utility Company’s Specifications. If the Company does not have specifications, KYTC’s Specifications shall be referenced. This item shall be paid EACH (EA) when complete.

**W PUMP STATION** This item is for payment for installation of pumps and an above or below ground structure for housing of the pumps. This item shall include all pumps, piping, fittings, valves, electrical components, building materials, concrete, any other appurtenances, labor, equipment, excavation, and backfill, to complete the pump station installation as required by the plans, standard drawings, and specifications, complete and ready for use. Please refer to the Utility Company’s Specifications. If the Company does not have specifications, KYTC’s Specifications shall be referenced. This item shall be paid LUMP SUM (LS) when complete.

**W REMOVE TRANSITE (AC) PIPE** This item shall include all labor, equipment, and materials needed for removal and disposal of the pipe as hazardous material. All work shall be performed by trained and certified personnel in accordance with all environmental laws and regulations. Any and all transite AC pipe removed shall be paid under one bid item included in the contract regardless of size. No separate bid items will be established for size variations. Please refer to the Utility Company’s Specifications. If the Company does not have specifications, KYTC’s Specifications shall be referenced. This item shall be paid LINEAR FEET (LF) when complete.

**W SERVICE LONG SIDE** This bid item description shall apply to all service line installations of every size bid up to and including 2 inch inside diameter, except those service bid items defined as “Special”. This item includes the specified piping material, main tap, tapping saddle (if required), and corporation stop materials, coupling for connecting the new piping to the surviving existing piping, encasement of 2 inches or less internal diameter (if required by plan or specification), labor, equipment, excavation, backfill, testing, disinfection, and restoration, at the locations shown on the plans or as directed, in accordance with the specifications and standard drawings, complete and ready for use. This bid item is to pay for service installations where the ends of the service connection are on opposite sides of the public roadway and the service line crosses the centerline of the public roadway as shown on the plans. The length of the service line is not to be specified. Payment under this item shall not be restricted by a minimum or maximum length. The contractor shall draw his own conclusions as to the length of piping that may be needed. Payment under this item shall include boring, jacking, or excavating across the public roadway for placement. Placement of a service across a private residential or commercial entrance alone shall not be reason to make payment under this item. Private or commercial entrances shall not be considered a public roadway in defining payment under this item. This pay item does not include installation or relocation of meters. Meters will be paid separately. No additional payment will be made for rock excavation or for special bedding required in rock excavation. Please refer to the Utility Company’s Specifications. If the Company does not have specifications, KYTC’s Specifications shall be referenced. This item shall be paid EACH (EA) when complete.

**W SERVICE SHORT SIDE** This bid item description shall apply to all service line installations of every size up to and including 2 inch internal diameter, except those service bid items defined as “Special”. This item includes installation of the specified piping material of the size specified on plans, encasement of 2 inches or less internal diameter (if required by plan or specification), main tap, tapping saddle (if required), corporation stop, coupling for connecting the new piping to the surviving existing piping, labor, equipment, excavation, backfill,

testing, disinfection, and restoration, at the locations shown on the plans or as directed, in accordance with the specifications and standard drawings, complete and ready for use. This bid item is to pay for service installations where both ends of the service connection are on the same side of the public roadway, or when an existing service crossing a public roadway will remain and is being extended, reconnected, or relocated with all work on one side of the public roadway centerline as shown on the plans. The length of the service line is not to be specified and shall not be restricted to any minimum or maximum length. Payment shall be made under this item even if the service crosses a private residential or commercial entrance; but, not a public roadway. Private or commercial entrances shall not be considered a public roadway in defining payment under this item. The contractor shall draw his own conclusions as to the length of piping that may be needed. This pay item does not include installation or relocation of meters. Meters will be paid separately. No additional payment will be made for rock excavation or for bedding required in rock excavation. Please refer to the Utility Company's Specifications. If the Company does not have specifications, KYTC's Specifications shall be referenced. This item shall be paid EACH (EA) when complete.

**W SERVICE RELOCATE** This item is for the relocation of an existing water service line where a meter is not involved, and where an existing service line can easily be adjusted by excavating alongside and moving the line horizontally and/or vertically a short distance without cutting the service line to avoid conflicts with road construction. This item shall include excavation, labor, equipment, bedding, and backfill to relocate the line in accordance with the plans and specifications complete and ready for use. Payment under this item shall be for each location requiring relocation. Payment shall be made under this item regardless of service size or relocation length. No separate pay items will be established for size or length variation. Please refer to the Utility Company's Specifications. If the Company does not have specifications, KYTC's Specifications shall be referenced. This item shall be paid EACH (EA) when complete.

**W STRUCTURE ABANDONMENT** This item is to be used to pay for abandonment of larger above or below ground water structures such as meter vaults, fire pits, pump stations, tanks, and etc. Payment under this item shall not be limited to size or scope; however structures with connecting pipes of 2 inches or less shall not be paid under this item; but, shall be considered incidental to water construction, (i.e., abandonment of standard water meters up to and including 2 inches would not be paid under this item). Payment under this item shall include all labor, equipment, and compacted fill or flowable fill for abandonment of the structure in place and restoration complete. No separate bid items will be established for size or structure variations. Please refer to the Utility Company's Specifications. If the Company does not have specifications, KYTC's Specifications shall be referenced. This item shall be paid EACH (EA) when complete.

**W STRUCTURE REMOVAL** This item is to be used to pay for removal of larger above or below ground water structures such as meter vaults, fire pits, pump stations, tanks, and etc. Payment under this item shall not be limited to size or scope; however structures with connecting pipes of 2 inches or less shall not be paid under this item; but, shall be considered incidental to water construction, (i.e., removal of standard water meters up to and including 2 inches would not be paid under this item). Payment under this item shall include all labor, equipment, and compacted backfill for removal of the structure and restoration complete. No separate bid items will be established for size or structure variations. Please refer to the Utility Company's Specifications. If the Company does not have specifications, KYTC's Specifications shall be referenced. This item shall be paid EACH (EA) when complete.

**W TAPPING SLEEVE AND VALVE SIZE 1 OR 2** This item shall include the specified tapping sleeve, valve, valve box, concrete pad around valve box (when required in specifications or plans), labor, and equipment to install the specified tapping sleeve and valve, complete and ready for use in accordance with the plans and specifications. The size shall be the measured internal diameter of the live pipe to be tapped. The size tapping sleeve and valve to be paid under sizes 1 or 2 shall be as follows:

Size 1 = All live tapped main sizes up to and including 8 inches

Size 2 = All live tapped main sizes greater than 8 inches

Please refer to the Utility Company's Specifications. If the Company does not have specifications, KYTC's Specifications shall be referenced. This item shall be paid EACH (EA) when complete.

**W TIE-IN** This bid description shall be used for all main tie-in bid items of every size except those defined as “Special”. This item includes all labor, equipment, excavation, fittings, sleeves, reducers, couplings, blocking, anchoring, restoration, disinfection, testing and backfill required to make the water main tie-in as shown on the plans, and in accordance with the specifications complete and ready for use. Pipe for tie-ins shall be paid under separate bid items. This item shall be paid EACH (EA) when complete.

**W VALVE** This description shall apply to all valves of every size required in the plans and specifications except those bid items defined as “Special”. Payment under this description is to be for gate or butterfly valves being installed with new main. This item includes the valve as specified in the plans and specifications, polyethylene wrap (if required by specification), labor, equipment, excavation, anchoring (if any), valve box and valve stem extensions, backfill, concrete pad around valve box (if required by specification), restoration, testing, disinfection, and etc., required to install the specified valve at the location shown on the plans in accordance with the specifications and standard drawings complete and ready for use. If required on plans and/or proposed adjoining DIP is restrained, valves shall be restrained. Valve restraint shall be considered incidental to the valve and adjoining pipe. This description does not apply to cut-in valves. Please refer to the Utility Company’s Specifications. If the Company does not have specifications, KYTC’s Specifications shall be referenced. This item shall be paid EACH (EA) when complete.

**W VALVE ANCHOR EXISTING** This bid item is intended to pay for installation of restraint hardware on an existing valve where no restraint exists to hold the valve in place to facilitate tie-ins and other procedures where restraint is prudent. This work shall be performed in accordance with water specifications and plans. This bid item shall include all labor equipment, excavation, materials and backfill to complete restraint of the designated valve, regardless of size, at the location shown on the plans, complete and ready for use. Materials to be provided may include, but is not limited to, retainer glands, lugs, threaded rod, concrete, reinforcing steel or any other material needed to complete the restraint. Should the associated valve box require removal to complete the restraint, the contractor shall reinstall the existing valve box, the cost of which shall be considered incidental to this bid item. No separate bid items are being provided for size variations. All sizes shall be paid under one bid item. Please refer to the Utility Company’s Specifications. If the Company does not have specifications, KYTC’s Specifications shall be referenced. This item shall be paid EACH (EA) when complete.

**W VALVE BOX ADJUST** Includes all labor, equipment, valve box and valve stem extensions (if required), excavation, backfill, concrete pad around valve box (when specified in specifications or plans), restoration, and etc., to adjust the top of the box to finished grade complete and ready for use. Please refer to the Utility Company’s Specifications. If the Company does not have specifications, KYTC’s Specifications shall be referenced. This item shall be paid EACH (EA) when complete.

**W VALVE CUT-IN** This bid description is for new cut-in valve installations of all sizes where installation is accomplished by cutting out a section of existing main. This item shall include cutting the existing pipe, supplying the specified valve, couplings or sleeves, valve box, concrete pad around valve box (when required in specifications or plans), labor, equipment, and materials to install the valve at the locations shown on the plans, or as directed by the engineer, complete and ready for use. Any pipe required for installation shall be cut from that pipe removed or supplied new by the contractor. No separate payment will be made for pipe required for cut-in valve installation. Please refer to the Utility Company’s Specifications. If the Company does not have specifications, KYTC’s Specifications shall be referenced. This item shall be paid EACH (EA) when complete.

**W VALVE VAULT** This item is for payment for installation of an underground structure for housing of specific valve(s) as required by the plans and specifications. This item shall include all labor, equipment, excavation, concrete, manhole castings or doors, the specified valve(s), all piping, and fitting materials associated with installing a functioning valve vault in accordance with the plans, standard drawing, and specifications, complete and ready for use. Please refer to the Utility Company’s Specifications. If the Company does not have specifications, KYTC’s Specifications shall be referenced. This item shall be paid EACH (EA) when complete.



KYTC Project: US 68 Broadway Fayette County  
HSIP Item No. 7-967

# ***N O T I C E***

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**DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS  
NATIONWIDE SECTION 404 PERMIT AUTHORIZATION**

**DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
KENTUCKY DIVISION OF WATER  
SECTION 401 WATER QUALITY CERTIFICATION**

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**PROJECT DESCRIPTION: US 68 (Broadway) Fayette County, KY;  
HSIP Project; Item No. 7-967**

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The Sections 404 and 401 activities for this project have previously been permitted under the authority of the Department of the Army, Section 404 Nationwide Permit Number 14, *Linear Transportation Projects* (with additional *Kentucky Regional General Conditions*), and the Kentucky Division of Water, Section 401 General Water Quality Certification. For these authorized permits to be valid, the attached conditions must be followed. The contractor shall post a copy of this Nationwide Permit Number 14 and General Water Quality Certification in a conspicuous location at the project site, with unencumbered public access, for the duration of construction and comply with the general conditions required.

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KYTC Project: US 68 (Broadway) Fayette County  
HSIP Item No. 7-97

Locations Impacting Water Quality

Station-Location	Description
Various	The proposed project, which will be conducted within the existing right-of-way, proposes minor widening of US 68 (Broadway) to allow for a longer northbound left turn lane onto Red Mile Road.

This project involves work near and/or within Jurisdictional Waters of the United States as defined by the U. S. Army Corps of Engineers; therefore, requiring a Nationwide Number 14 General Section 404 permit. The Division of Water conditionally certified this General Permit. Importantly, one of those conditions regards the use of heavy equipment in any stream channel, or streambed. If there is need to cross the stream channel with heavy equipment, or conduct work within the stream channel, a work platform or temporary crossing, is authorized. This should be constructed with clean rock and sufficient pipe to allow stream flow to continue, unimpeded. Other conditions may be found under the heading, *General Certification—Nationwide Permit # 14 Linear Transportation Projects*.

In order for this authorization to be valid, the attached conditions must be followed. The contractor shall post a copy of this Nationwide Permit Number 14 Approval in a conspicuous location at the project site, for the duration of the 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 Kentucky Transportation Cabinet, Division of Environmental Analysis. If such changes necessitate further permitting, then the contractor will be responsible for applying to the U. S. Army Corps of Engineers and the Kentucky Division of Water. A copy of any request to the Corps of Engineers or Division of Water 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.

**Nationwide #14**  
**Linear Transportation Projects**  
**Effective Date February 25, 2022/ Expiration Date: March 14, 2026**

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, driveways, airport runways, and taxiways) in waters of the United States. For linear transportation projects in non-tidal waters, the discharge of dredged or fill material 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 of dredged or fill material 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 of dredged or fill material, 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 preconstruction 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 of dredged or fill material 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). 12

*Note 2:* Some discharges of dredged or fill material 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)(4) 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).

### **Nationwide Permit General Conditions**

Note: To qualify for NWP authorization, the prospective permittee must comply with the following general conditions, as applicable, in addition to any regional or case-specific conditions imposed by the division engineer or district engineer. Prospective permittees should contact the appropriate Corps district office to determine if regional conditions have been imposed on an NWP. Prospective permittees should also contact the appropriate Corps district office to determine the status of Clean Water Act Section 401 water quality certification and/or Coastal Zone Management Act consistency for an

NWP. Every person who may wish to obtain permit authorization under one or more NWPs, or who is currently relying on an existing or prior permit authorization under one or more NWPs, has been and is on notice that all of the provisions of 33 CFR 330.1 through 330.6 apply to every NWP authorization. Note especially 33 CFR 330.5 relating to the modification, suspension, or revocation of any NWP authorization.

1. Navigation. (a) No activity may cause more than a minimal adverse effect on navigation.

(b) Any safety lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, must be installed and maintained at the permittee's expense on authorized facilities in navigable waters of the United States.

(c) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his or her authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

2. Aquatic Life Movements. No activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water. All permanent and temporary crossings of waterbodies shall be suitably culverted, bridged, or otherwise designed and constructed to maintain low flows to sustain the movement of those aquatic species. If a bottomless culvert cannot be used, then the crossing should be designed and constructed to minimize adverse effects to aquatic life movements.

3. Spawning Areas. Activities in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial turbidity) of an important spawning area are not authorized.

4. Migratory Bird Breeding Areas. Activities in waters of the United States that serve as breeding areas for migratory birds must be avoided to the maximum extent practicable.

5. Shellfish Beds. No activity may occur in areas of concentrated shellfish populations, unless the activity is directly related to a shellfish harvesting activity authorized by NWP 4 and 48, or is a shellfish seeding or habitat restoration activity authorized by NWP 27.

6. Suitable Material. No activity may use unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.). Material used for construction or discharged must be free from toxic pollutants in toxic amounts (see section 307 of the Clean Water Act).

7. Water Supply Intakes. No activity may occur in the proximity of a public water supply intake, except where the activity is for the repair or improvement of public water supply intake structures or adjacent bank stabilization.

8. Adverse Effects From Impoundments. If the activity creates an impoundment of water, adverse effects to the aquatic system due to accelerating the passage of water, and/or restricting its flow must be minimized to the maximum extent practicable.

9. Management of Water Flows. To the maximum extent practicable, the preconstruction course, condition, capacity, and location of open waters must be maintained for each activity, including stream channelization, storm water management activities, and temporary and permanent road crossings, except as provided below. The activity must be constructed to withstand expected high flows. The activity must not restrict or impede the passage of normal or high flows, unless the primary purpose of the activity is to impound water or manage high flows. The activity may alter the preconstruction course, condition, capacity, and location of open waters if it benefits the aquatic environment (e.g., stream restoration or relocation activities).

10. Fills Within 100-Year Floodplains. The activity must comply with applicable FEMA approved state or local floodplain management requirements.

11. Equipment. Heavy equipment working in wetlands or mudflats must be placed on mats, or other measures must be taken to minimize soil disturbance.

12. Soil Erosion and Sediment Controls. Appropriate soil erosion and sediment controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be permanently stabilized at the earliest practicable date. Permittees are encouraged to perform work within waters of the United States during periods of low-flow or no-flow, or during low tides.

13. Removal of Temporary Structures and Fills. Temporary structures must be removed, to the maximum extent practicable, after their use has been discontinued. Temporary fills must be removed in their entirety and the affected areas returned to preconstruction elevations. The affected areas must be revegetated, as appropriate.

14. Proper Maintenance. Any authorized structure or fill shall be properly maintained, including maintenance to ensure public safety and compliance with applicable NWP general conditions, as well as any activity-specific conditions added by the district engineer to an NWP authorization.

15. Single and Complete Project. The activity must be a single and complete project. The same NWP cannot be used more than once for the same single and complete project.

16. Wild and Scenic Rivers. (a) No NWP activity may occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a “study river” for possible inclusion in the system while the river is in an official study status, unless the appropriate Federal agency with direct management responsibility for such river, has determined in writing that the proposed activity will not adversely affect the Wild and Scenic River designation or study status.

(b) If a proposed NWP activity will occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a “study river” for possible inclusion in the system while the river is in an official study status, the permittee must submit a pre-construction notification (see general condition 32). The district engineer will coordinate the PCN with the Federal agency with direct management responsibility for that river. Permittees shall not begin the NWP activity until notified by the district engineer that the Federal agency with direct management responsibility for that river has determined in writing that the proposed NWP activity will not adversely affect the Wild and Scenic River designation or study status.

(c) Information on Wild and Scenic Rivers may be obtained from the appropriate Federal land management agency responsible for the designated Wild and Scenic River or study river (e.g., National Park Service, U.S. Forest Service, Bureau of Land Management, U.S. Fish and Wildlife Service). Information on these rivers is also available at: <http://www.rivers.gov/>.

17. Tribal Rights. No activity or its operation may impair reserved tribal rights, including, but not limited to, reserved water rights and treaty fishing and hunting rights.

18. Endangered Species. (a) No activity is authorized under any NWP which is likely to directly or indirectly jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will directly or indirectly destroy or adversely modify designated critical habitat or critical habitat proposed for such designation. No activity is authorized under any NWP which “may affect” a listed species or critical habitat, unless ESA section 7 consultation addressing the consequences of the proposed activity on listed species or critical habitat has been completed. See 50 CFR 402.02 for the definition of “effects of the action” for the purposes of ESA section 7 consultation, as well as 50 CFR 402.17, which provides further explanation under ESA section 7 regarding “activities that are reasonably certain to occur” and “consequences caused by the proposed action.”

(b) Federal agencies should follow their own procedures for complying with the requirements of the ESA (see 33 CFR 330.4(f)(1)). If pre-construction notification is required for the proposed activity, the Federal permittee must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will verify that the appropriate documentation has been submitted. If the appropriate documentation has not been submitted, additional ESA section 7 consultation may be necessary for the activity and the respective federal agency would be responsible for fulfilling its obligation under section 7 of the ESA.

(c) Non-federal permittees must submit a pre-construction notification to the district engineer if any listed species (or species proposed for listing) or designated critical habitat (or critical habitat proposed such designation) might be affected or is in the vicinity of the activity, or if the activity is located in designated critical habitat or critical habitat proposed for such designation, and shall not begin work on the activity until notified by the district engineer that the requirements of the ESA have been satisfied

and that the activity is authorized. For activities that might affect Federally-listed endangered or threatened species (or species proposed for listing) or designated critical habitat (or critical habitat proposed for such designation), the pre-construction notification must include the name(s) of the endangered or threatened species (or species proposed for listing) that might be affected by the proposed activity or that utilize the designated critical habitat (or critical habitat proposed for such designation) that might be affected by the proposed activity. The district engineer will determine

whether the proposed activity "may affect" or will have "no effect" to listed species and designated critical habitat and will notify the non-Federal applicant of the Corps' determination within 45 days of receipt of a complete pre-construction notification. For activities where the non-Federal applicant has identified listed species (or species proposed for listing) or designated critical habitat (or critical habitat proposed for such designation) that might be affected or is in the vicinity of the activity, and has so notified the Corps, the applicant shall not begin work until the Corps has provided notification

that the proposed activity will have "no effect" on listed species (or species proposed for listing or designated critical habitat (or critical habitat proposed for such designation), or until ESA section 7 consultation or conference has been completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

(d) As a result of formal or informal consultation or conference with the FWS or NMFS the district engineer may add species-specific permit conditions to the NWP.

(e) Authorization of an activity by an NWP does not authorize the "take" of a threatened or endangered species as defined under the ESA. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with "incidental take" provisions, etc.) from the FWS or the NMFS, the Endangered Species Act prohibits any person subject to the jurisdiction of the United States to take a listed species, where "take" means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. The word "harm" in the definition of "take" means an act which actually kills or injures wildlife. Such an act may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding or sheltering.

(f) If the non-federal permittee has a valid ESA section 10(a)(1)(B) incidental take permit with an approved Habitat Conservation Plan for a project or a group of projects that includes the proposed NWP activity, the non-federal applicant should provide a copy of that ESA section 10(a)(1)(B) permit with the PCN required by paragraph (c) of this general condition. The district engineer will coordinate with the agency that issued the ESA section 10(a)(1)(B) permit to determine whether the proposed NWP activity and the associated incidental take were considered in the internal ESA section 7 consultation conducted for the ESA section 10(a)(1)(B) permit. If that coordination results in concurrence from the agency that the proposed NWP activity and the associated incidental take were considered in the internal ESA section 7 consultation for the ESA section 10(a)(1)(B) permit, the district engineer does not need to conduct a separate ESA section 7 consultation for the proposed NWP activity. The district engineer will notify the non-federal applicant within 45 days of receipt of a complete preconstruction notification whether the ESA section 10(a)(1)(B) permit covers the proposed NWP activity or whether additional ESA section 7 consultation is required.

(g) Information on the location of threatened and endangered species and their critical habitat can be obtained directly from the offices of the FWS and NMFS or their world wide web pages at <http://www.fws.gov/> or <http://www.fws.gov/ipac> and <http://www.nmfs.noaa.gov/pr/species/esa/> respectively.

19. Migratory Birds and Bald and Golden Eagles. The permittee is responsible for ensuring that an action authorized by an NWP complies with the Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act. The permittee is responsible for contacting the appropriate local office of the U.S. Fish and Wildlife Service to determine what measures, if any, are necessary or appropriate to reduce adverse effects to migratory birds or eagles, including whether "incidental take" permits are necessary and available under the Migratory Bird Treaty Act or Bald and Golden Eagle Protection Act for a particular activity.

20. Historic Properties. (a) No activity is authorized under any NWP which may have the potential to cause effects to properties listed, or eligible for listing, in the National Register of Historic Places until the requirements of Section 106 of the National Historic Preservation Act (NHPA) have been satisfied.

(b) Federal permittees should follow their own procedures for complying with the requirements of section 106 of the National Historic Preservation Act (see 33 CFR 330.4(g)(1)). If pre-construction notification is required for the proposed NWP activity, the Federal permittee must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will verify that the appropriate documentation has been submitted. If the appropriate documentation is not submitted, then additional consultation under section 106 may be necessary. The respective federal agency is responsible for fulfilling its obligation to comply with section 106. (c) Non-federal permittees must submit a pre-construction notification to the district engineer if the NWP activity might have the potential to cause effects to any historic properties listed on, determined to be eligible for listing on, or potentially eligible for listing on the National Register of Historic Places, including previously unidentified properties. For such activities, the pre-construction notification must state which historic properties might have the potential to be affected by the proposed NWP activity or include a vicinity map indicating the location of the historic properties or the potential for the presence of historic properties. Assistance regarding information on the location of, or potential for, the presence of historic properties can be sought from the State Historic Preservation Officer, Tribal Historic Preservation Officer, or designated tribal representative, as appropriate, and the National Register of Historic Places (see 33 CFR 330.4(g)). When reviewing pre-construction notifications, district engineers will comply with the current procedures for addressing the requirements of section 106 of the National Historic Preservation Act. The district engineer shall make a reasonable and good faith effort to carry out appropriate identification efforts commensurate with potential impacts, which may include background research, consultation, oral history interviews, sample field investigation, and/or field survey. Based on the information submitted in the PCN and these identification efforts, the district engineer shall determine whether the proposed NWP activity has the potential to cause effects on the historic properties. Section 106 consultation is not required when the district engineer determines that the activity does not have the potential to cause effects on historic properties (see 36 CFR 800.3(a)). Section 106 consultation is required when the district engineer determines that the activity has the potential to cause effects on historic properties. The district engineer will conduct consultation with consulting parties identified under 36 CFR 800.2(c) when he or she makes any of the following effect



determinations for the purposes of section 106 of the NHPA: no historic properties affected, no adverse effect, or adverse effect.

(d) Where the non-Federal applicant has identified historic properties on which the proposed NWP activity might have the potential to cause effects and has so notified the Corps, the non-Federal applicant shall not begin the activity until notified by the district engineer either that the activity has no potential to cause effects to historic properties or that NHPA section 106 consultation has been completed. For non-federal permittees, the district engineer will notify the prospective permittee within 45 days of receipt of a complete pre-construction notification whether NHPA section 106 consultation is required. If NHPA section 106 consultation is required, the district engineer will notify the non-Federal applicant that he or she cannot begin the activity until section 106 consultation is completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

(e) Prospective permittees should be aware that section 110k of the NHPA (54 U.S.C. 306113) prevents the Corps from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the Corps, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant. If circumstances justify granting the assistance, the Corps is required to notify the ACHP and provide documentation specifying the circumstances, the degree of damage to the integrity of any historic properties affected, and proposed mitigation. This documentation must include any views obtained from the applicant, SHPO/THPO, appropriate Indian tribes if the undertaking occurs on or affects historic properties on tribal lands or affects properties of interest to those tribes, and other parties known to have a legitimate interest in the impacts to the permitted activity on historic properties.

21. Discovery of Previously Unknown Remains and Artifacts. Permittees that discover any previously unknown historic, cultural or archeological remains and artifacts while accomplishing the activity authorized by an NWP, they must immediately notify the district engineer of what they have found, and to the maximum extent practicable, avoid construction activities that may affect the remains and artifacts until the required coordination has been completed. The district engineer will initiate the Federal, Tribal, and state coordination required to determine if the items or remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

22. Designated Critical Resource Waters. Critical resource waters include, NOAA managed marine sanctuaries and marine monuments, and National Estuarine Research Reserves. The district engineer may designate, after notice and opportunity for public comment, additional waters officially designated by a state as having particular environmental or ecological significance, such as outstanding national resource waters or state natural heritage sites. The district engineer may also designate additional critical resource waters after notice and opportunity for public comment.

(a) Discharges of dredged or fill material into waters of the United States are not authorized by NWPs 7, 12, 14, 16, 17, 21, 29, 31, 35, 39, 40, 42, 43, 44, 49, 50, 51, 52, 57 and 58 for any activity within, or directly affecting, critical resource waters, including wetlands adjacent to such waters.

(b) For NWP 3, 8, 10, 13, 15, 18, 19, 22, 23, 25, 27, 28, 30, 33, 34, 36, 37, 38, and 54, notification is required in accordance with general condition 32, for any activity proposed by permittees in the designated critical resource waters including wetlands adjacent to those waters. The district engineer may authorize activities under these NWPs only after she or he determines that the impacts to the critical resource waters will be no more than minimal.

23. Mitigation. The district engineer will consider the following factors when determining appropriate and practicable mitigation necessary to ensure that the individual and cumulative adverse environmental effects are no more than minimal:

(a) The activity must be designed and constructed to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States to the maximum extent practicable at the project site (i.e., on site).

(b) Mitigation in all its forms (avoiding, minimizing, rectifying, reducing, or compensating for resource losses) will be required to the extent necessary to ensure that the individual and cumulative adverse environmental effects are no more than minimal.

(c) Compensatory mitigation at a minimum one-for-one ratio will be required for all wetland losses that exceed 1/10-acre and require pre-construction notification, unless the district engineer determines in writing that either some other form of mitigation would be more environmentally appropriate or the adverse environmental effects of the proposed activity are no more than minimal, and provides an activity-specific waiver of this requirement. For wetland losses of 1/10-acre or less that require pre-construction notification, the district engineer may determine on a case-by-case basis that compensatory mitigation is required to ensure that the activity results in only minimal adverse environmental effects.

(d) Compensatory mitigation at a minimum one-for-one ratio will be required for all losses of stream bed that exceed 3/100-acre and require pre-construction notification, unless the district engineer determines in writing that either some other form of mitigation would be more environmentally appropriate or the adverse environmental effects of the proposed activity are no more than minimal, and provides an activity-specific waiver of this requirement. This compensatory mitigation requirement may be satisfied through the restoration or enhancement of riparian areas next to streams in accordance with paragraph (e) of this general condition. For losses of stream bed of 3/100-acre or less that require pre-construction notification, the district engineer may determine on a case-by-case basis that compensatory mitigation is required to ensure that the activity results in only minimal adverse environmental effects. Compensatory mitigation for losses of streams should be provided, if practicable, through stream rehabilitation, enhancement, or preservation, since streams are difficult-to-replace resources (see 33 CFR 332.3(e)(3)). (e) Compensatory mitigation plans for NWP activities in or near streams or other open waters will normally include a requirement for the restoration or enhancement, maintenance, and legal protection (e.g., conservation easements) of riparian areas next to open waters. In some cases, the restoration or maintenance/protection of riparian areas may be the only compensatory mitigation required. If restoring riparian areas involves planting vegetation, only native species should be planted. The width of the required riparian area will address documented water quality or aquatic habitat loss concerns. Normally, the riparian area will be 25 to 50 feet wide on each side of the stream, but the district engineer may require slightly wider riparian areas to address

documented water quality or habitat loss concerns. If it is not possible to restore or maintain/protect a riparian area on both sides of a stream, or if the waterbody is a lake or coastal waters, then restoring or maintaining/protecting a riparian area along a single bank or shoreline may be sufficient. Where both wetlands and open waters exist on the project site, the district engineer will determine the appropriate compensatory mitigation (e.g., riparian areas and/or wetlands compensation) based on what is best for the aquatic environment on a watershed basis. In cases where riparian areas are determined to be the most appropriate form of minimization or compensatory mitigation, the district engineer may waive or reduce the requirement to provide wetland compensatory mitigation for wetland losses.

(f) Compensatory mitigation projects provided to offset losses of aquatic resources must comply with the applicable provisions of 33 CFR part 332.

(1) The prospective permittee is responsible for proposing an appropriate compensatory mitigation option if compensatory mitigation is necessary to ensure that the activity results in no more than minimal adverse environmental effects. For the NWP, the preferred mechanism for providing compensatory mitigation is mitigation bank credits or in-lieu fee program credits (see 33 CFR 332.3(b)(2) and (3)). However, if an appropriate number and type of mitigation bank or in-lieu credits are not available at the time the PCN is submitted to the district engineer, the district engineer may approve the use of permittee-responsible mitigation.

(2) The amount of compensatory mitigation required by the district engineer must be sufficient to ensure that the authorized activity results in no more than minimal individual and cumulative adverse environmental effects (see 33 CFR 330.1(e)(3)). (See also 33 CFR 332.3(f).)

(3) Since the likelihood of success is greater and the impacts to potentially valuable uplands are reduced, aquatic resource restoration should be the first compensatory mitigation option considered for permittee-responsible mitigation.

(4) If permittee-responsible mitigation is the proposed option, the prospective permittee is responsible for submitting a mitigation plan. A conceptual or detailed mitigation plan may be used by the district engineer to make the decision on the NWP verification request, but a final mitigation plan that addresses the applicable requirements of 33 CFR 332.4(c)(2) through (14) must be approved by the district engineer before the permittee begins work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not

necessary to ensure timely completion of the required compensatory mitigation (see 33 CFR 332.3(k)(3)). If permittee-responsible mitigation is the proposed option, and the proposed compensatory mitigation site is located on land in which another federal agency holds an easement, the district engineer will coordinate with that federal agency to determine if proposed compensatory mitigation project is compatible with the terms of the easement.

(5) If mitigation bank or in-lieu fee program credits are the proposed option, the mitigation plan needs to address only the baseline conditions at the impact site and the number of credits to be provided (see 33 CFR 332.4(c)(1)(ii)).

(6) Compensatory mitigation requirements (e.g., resource type and amount to be provided as compensatory mitigation, site protection, ecological performance standards, monitoring requirements)

may be addressed through conditions added to the NWP authorization, instead of components of a compensatory mitigation plan (see 33 CFR 332.4(c)(1)(ii)).

(g) Compensatory mitigation will not be used to increase the acreage losses allowed by the acreage limits of the NWPs. For example, if an NWP has an acreage limit of 1/2- acre, it cannot be used to authorize any NWP activity resulting in the loss of greater than 1/2-acre of waters of the United States, even if compensatory mitigation is provided that replaces or restores some of the lost waters. However, compensatory mitigation can and should be used, as necessary, to ensure that an NWP activity already meeting the established acreage limits also satisfies the no more than minimal impact requirement for the NWPs.

(h) Permittees may propose the use of mitigation banks, in-lieu fee programs, or permittee-responsible mitigation. When developing a compensatory mitigation proposal, the permittee must consider appropriate and practicable options consistent with the framework at 33 CFR 332.3(b). For activities resulting in the loss of marine or estuarine resources, permittee-responsible mitigation may be environmentally preferable if there are no mitigation banks or in-lieu fee programs in the area that have marine or estuarine credits available for sale or transfer to the permittee. For permittee-responsible mitigation, the special conditions of the NWP verification must clearly indicate the party or parties responsible for the implementation and performance of the compensatory mitigation project, and, if required, its long-term management.

(i) Where certain functions and services of waters of the United States are permanently adversely affected by a regulated activity, such as discharges of dredged or fill material into waters of the United States that will convert a forested or scrub-shrub wetland to a herbaceous wetland in a permanently maintained utility line right-of-way, mitigation may be required to reduce the adverse environmental effects of the activity to the no more than minimal level.

24. Safety of Impoundment Structures. To ensure that all impoundment structures are safely designed, the district engineer may require non-Federal applicants to demonstrate that the structures comply with established state or federal, dam safety criteria or have been designed by qualified persons. The district engineer may also require documentation that the design has been independently reviewed by similarly qualified persons, and appropriate modifications made to ensure safety.

25. Water Quality. (a) Where the certifying authority (state, authorized tribe, or EPA, as appropriate) has not previously certified compliance of an NWP with CWA section 401, a CWA section 401 water quality certification for the proposed discharge must be obtained or waived (see 33 CFR 330.4(c)). If the permittee cannot comply with all of the conditions of a water quality certification previously issued by certifying authority for the issuance of the NWP, then the permittee must obtain a water quality certification or waiver for the proposed discharge in order for the activity to be authorized by an NWP.

(b) If the NWP activity requires pre-construction notification and the certifying authority has not previously certified compliance of an NWP with CWA section 401, the proposed discharge is not authorized by an NWP until water quality certification is obtained or waived. If the certifying authority issues a water quality certification for the proposed discharge, the permittee must submit a copy of the certification to the district engineer. The discharge is not authorized by an NWP until the district

engineer has notified the permittee that the water quality certification requirement has been satisfied by the issuance of a water quality certification or a waiver.

(c) The district engineer or certifying authority may require additional water quality management measures to ensure that the authorized activity does not result in more than minimal degradation of water quality.

26. Coastal Zone Management. In coastal states where an NWP has not previously received a state coastal zone management consistency concurrence, an individual state coastal zone management consistency concurrence must be obtained, or a presumption of concurrence must occur (see 33 CFR 330.4(d)). If the permittee cannot comply with all of the conditions of a coastal zone management consistency concurrence previously issued by the state, then the permittee must obtain an individual coastal zone management consistency concurrence or presumption of concurrence in order for the activity to be authorized by an NWP. The district engineer or a state may require additional measures to ensure that the authorized activity is consistent with state coastal zone management requirements.

27. Regional and Case-By-Case Conditions. The activity must comply with any regional conditions that may have been added by the Division Engineer (see 33 CFR 330.4(e)) and with any case specific conditions added by the Corps or by the state, Indian Tribe, or U.S. EPA in its CWA section 401 Water Quality Certification, or by the state in its Coastal Zone Management Act consistency determination.

28. Use of Multiple Nationwide Permits. The use of more than one NWP for a single and complete project is authorized, subject to the following restrictions: (a) If only one of the NWPs used to authorize the single and complete project has a specified acreage limit, the acreage loss of waters of the United States cannot exceed the acreage limit of the NWP with the highest specified acreage limit. For example, if a road crossing over tidal waters is constructed under NWP 14, with associated bank stabilization authorized by NWP 13, the maximum acreage loss of waters of the United States for the total project cannot exceed 1/3-acre. (b) If one or more of the NWPs used to authorize the single and complete project has specified acreage limits, the acreage loss of waters of the United States authorized by those NWPs cannot exceed their respective specified acreage limits. For example, if a commercial development is constructed under NWP 39, and the single and complete project includes the filling of an upland ditch authorized by NWP 46, the maximum acreage loss of waters of the United States for the commercial development under NWP 39 cannot exceed 1/2-acre, and the total acreage loss of waters of United States due to the NWP 39 and 46 activities cannot exceed 1 acre.

29. Transfer of Nationwide Permit Verifications. If the permittee sells the property associated with a nationwide permit verification, the permittee may transfer the nationwide permit verification to the new owner by submitting a letter to the appropriate Corps district office to validate the transfer. A copy of the nationwide permit verification must be attached to the letter, and the letter must contain the following statement and signature:

“When the structures or work authorized by this nationwide permit are still in existence at the time the property is transferred, the terms and conditions of this nationwide permit, including any special conditions, will continue to be binding on the new owner(s) of the property. To validate the transfer of this nationwide permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.”

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(Transferee)

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(Date)

30. Compliance Certification. Each permittee who receives an NWP verification letter from the Corps must provide a signed certification documenting completion of the authorized activity and implementation of any required compensatory mitigation. The success of any required permittee-responsible mitigation, including the achievement of ecological performance standards, will be addressed separately by the district engineer. The Corps will provide the permittee the certification document with the NWP verification letter. The certification document will include:

(a) A statement that the authorized activity was done in accordance with the NWP authorization, including any general, regional, or activity-specific conditions;

(b) A statement that the implementation of any required compensatory mitigation was completed in accordance with the permit conditions. If credits from a mitigation bank or in-lieu fee program are used to satisfy the compensatory mitigation requirements, the certification must include the documentation required by 33 CFR 332.3(l)(3) to confirm that the permittee secured the appropriate number and resource type of credits; and (c) The signature of the permittee certifying the completion of the activity and mitigation. The completed certification document must be submitted to the district engineer within 30 days of completion of the authorized activity or the implementation of any required compensatory mitigation, whichever occurs later.

31. Activities Affecting Structures or Works Built by the United States. If an NWP activity also requires review by, or permission from, the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a U.S. Army Corps of Engineers (USACE) federally authorized Civil Works project (a "USACE project"), the prospective permittee must submit a pre-construction notification. See paragraph

(b)(10) of general condition 32. An activity that requires section 408 permission and/or review is not authorized by an NWP until the appropriate Corps office issues the section 408 permission or completes its review to alter, occupy, or use the USACE project, and the district engineer issues a written NWP verification.

32. Pre-Construction Notification. (a) Timing. Where required by the terms of the NWP, the prospective permittee must notify the district engineer by submitting a preconstruction notification (PCN) as early as possible. The district engineer must determine if the PCN is complete within 30 calendar days of the date of receipt and, if the PCN is determined to be incomplete, notify the prospective permittee within that 30 day period to request the additional information necessary to make the PCN complete.

The request must specify the information needed to make the PCN complete. As a general rule, district engineers will request additional information necessary to make the PCN complete only once. However, if the prospective permittee does not provide all of the requested information, then the district engineer

will notify the prospective permittee that the PCN is still incomplete and the PCN review process will not commence until all of the requested information has been received by the district engineer. The prospective permittee shall not begin the activity until either:

(1) He or she is notified in writing by the district engineer that the activity may proceed under the NWP with any special conditions imposed by the district or division engineer; or

(2) 45 calendar days have passed from the district engineer's receipt of the complete PCN and the prospective permittee has not received written notice from the district or division engineer. However, if the permittee was required to notify the Corps pursuant to general condition 18 that listed species or critical habitat might be affected or are in the vicinity of the activity, or to notify the Corps pursuant to general condition 20 that the activity might have the potential to cause effects to historic properties, the permittee cannot begin the activity until receiving written notification from the Corps that there is "no effect" on listed species or "no potential to cause effects" on historic properties, or that any consultation required under Section 7 of the Endangered Species Act (see 33 CFR 330.4(f)) and/or section 106 of the National Historic Preservation Act (see 33 CFR 330.4(g)) has been completed. If the proposed activity requires a written waiver to exceed specified limits of an NWP, the permittee may not begin the activity until the district engineer issues the waiver. If the district or division engineer notifies the permittee in writing that an individual permit is required within 45 calendar days of receipt of a complete PCN, the permittee cannot begin the activity until an individual permit has been obtained. Subsequently, the permittee's right to proceed under the NWP may be modified, suspended, or revoked only in accordance with the procedure set forth in 33 CFR 330.5(d)(2).

(b) Contents of Pre-Construction Notification: The PCN must be in writing and include the following information:

(1) Name, address and telephone numbers of the prospective permittee;

(2) Location of the proposed activity;

(3) Identify the specific NWP or NWP(s) the prospective permittee wants to use to authorize the proposed activity;

(4) (i) A description of the proposed activity; the activity's purpose; direct and indirect adverse environmental effects the activity would cause, including the anticipated amount of loss of wetlands, other special aquatic sites, and other waters expected to result from the NWP activity, in acres, linear feet, or other appropriate unit of measure; a description of any proposed mitigation measures intended to reduce the adverse environmental effects caused by the proposed activity; and 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 for linear projects that require Department of the Army authorization but do not require pre-construction notification. The description of the proposed activity and any proposed mitigation measures should be sufficiently detailed to allow the district engineer to determine that the adverse environmental effects of the activity will be no more than minimal and to determine the need for compensatory mitigation or other mitigation measures.

(ii) For linear projects where one or more single and complete crossings require preconstruction notification, the PCN must include the quantity of anticipated losses of wetlands, other special aquatic sites, and other waters for each single and complete crossing of those wetlands, other special aquatic sites, and other waters (including those single and complete crossings authorized by an NWP but do not require PCNs). This information will be used by the district engineer to evaluate the cumulative adverse environmental effects of the proposed linear project, and does not change those non PCN NWP activities into NWP PCNs.

(iii) Sketches should be provided when necessary to show that the activity complies with the terms of the NWP. (Sketches usually clarify the activity and when provided results in a quicker decision. Sketches should contain sufficient detail to provide an illustrative description of the proposed activity (e.g., a conceptual plan), but do not need to be detailed engineering plans);

(5) The PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial and intermittent streams, on the project site. Wetland delineations must be prepared in accordance with the current method required by the Corps. The permittee may ask the Corps to delineate the special aquatic sites and other waters on the project site, but there may be a delay if the Corps does the delineation, especially if the project site is large or contains many wetlands, other special aquatic sites, and other waters. Furthermore, the 45-day period will not start until the delineation has been submitted to or completed by the Corps, as appropriate;

(6) If the proposed activity will result in the loss of greater than 1/10-acre of wetlands or 3/100-acre of stream bed and a PCN is required, the prospective permittee must submit a statement describing how the mitigation requirement will be satisfied, or explaining why the adverse environmental effects are no more than minimal and why compensatory mitigation should not be required. As an alternative, the prospective permittee may submit a conceptual or detailed mitigation plan.

(7) For non-federal permittees, if any listed species (or species proposed for listing) or designated critical habitat (or critical habitat proposed for such designation) might be affected or is in the vicinity of the activity, or if the activity is located in designated critical habitat (or critical habitat proposed for such designation), the PCN must include the name(s) of those endangered or threatened species (or species proposed for listing) that might be affected by the proposed activity or utilize the designated critical habitat (or critical habitat proposed for such designation) that might be affected by the proposed activity. For NWP activities that require pre-construction notification, Federal permittees must provide documentation demonstrating compliance with the Endangered Species Act;

(8) For non-federal permittees, if the NWP activity might have the potential to cause effects to a historic property listed on, determined to be eligible for listing on, or potentially eligible for listing on, the National Register of Historic Places, the PCN must state which historic property might have the potential to be affected by the proposed activity or include a vicinity map indicating the location of the historic property. For NWP activities that require pre-construction notification, Federal permittees must provide documentation demonstrating compliance with section 106 of the National Historic Preservation Act;

(9) For an activity that will occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, the PCN must identify the Wild and Scenic River or the "study river" (see general condition 16); and



(10) For an NWP activity that requires permission from, or review by, the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a U.S. Army Corps of Engineers federally authorized civil works project, the preconstruction notification must include a statement confirming that the project proponent has submitted a written request for section 408 permission from, or review by, the Corps office having jurisdiction over that USACE project.

(c) Form of Pre-Construction Notification: The nationwide permit pre-construction notification form (Form ENG 6082) should be used for NWP PCNs. A letter containing the required information may also be used. Applicants may provide electronic files of PCNs and supporting materials if the district engineer has established tools and procedures for electronic submittals.

(d) Agency Coordination: (1) The district engineer will consider any comments from Federal and state agencies concerning the proposed activity's compliance with the terms and conditions of the NWPs and the need for mitigation to reduce the activity's adverse environmental effects so that they are no more than minimal.

(2) Agency coordination is required for: (i) all NWP activities that require preconstruction notification and result in the loss of greater than 1/2-acre of waters of the United States; (ii) NWP 13 activities in excess of 500 linear feet, fills greater than one cubic yard per running foot, or involve discharges of dredged or fill material into special aquatic sites; and (iii) NWP 54 activities in excess of 500 linear feet, or that extend into the waterbody more than 30 feet from the mean low water line in tidal waters or the ordinary high water mark in the Great Lakes.

(3) When agency coordination is required, the district engineer will immediately provide (e.g., via e-mail, facsimile transmission, overnight mail, or other expeditious manner) a copy of the complete PCN to the appropriate Federal or state offices (FWS, state natural resource or water quality agency, EPA, and, if appropriate, the NMFS). With the exception of NWP 37, these agencies will have 10 calendar days from the date the material is transmitted to notify the district engineer via telephone, facsimile transmission, or e-mail that they intend to provide substantive, site-specific comments. The comments must explain why the agency believes the adverse environmental effects will be more than minimal. If so contacted by an agency, the district engineer will wait an additional 15 calendar days before making a decision on the pre-construction notification. The district engineer will fully consider agency comments received within the specified time frame concerning the proposed activity's compliance with the terms and conditions of the NWPs, including the need for mitigation to ensure that the net adverse environmental effects of the proposed activity are no more than minimal. The district engineer will provide no response to the resource agency, except as provided below. The district engineer will indicate in the administrative record associated with each pre-construction notification that the resource agencies' concerns were considered. For NWP 37, the emergency watershed protection and rehabilitation activity may proceed immediately in cases where there is an unacceptable hazard to life or a significant loss of property or economic hardship will occur. The district engineer will consider any comments received to decide whether the NWP 37 authorization should be modified, suspended, or revoked in accordance with the procedures at 33 CFR 330.5.

(4) In cases of where the prospective permittee is not a Federal agency, the district engineer will provide a response to NMFS within 30 calendar days of receipt of any Essential Fish Habitat conservation recommendations, as required by section 305(b)(4)(B) of the Magnuson-Stevens Fishery Conservation and Management Act.

(5) Applicants are encouraged to provide the Corps with either electronic files or multiple copies of pre-construction notifications to expedite agency coordination.

### **District Engineer's Decision**

1. In reviewing the PCN for the proposed activity, the district engineer will determine whether the activity authorized by the NWP will result in more than minimal individual or cumulative adverse environmental effects or may be contrary to the public interest. If a project proponent requests authorization by a specific NWP, the district engineer should issue the NWP verification for that activity if it meets the terms and conditions of that NWP, unless he or she determines, after considering mitigation, that the proposed activity will result in more than minimal individual and cumulative adverse effects on the aquatic environment and other aspects of the public interest and exercises discretionary authority to require an individual permit for the proposed activity. For a linear project, this determination will include an evaluation of the single and complete crossings of waters of the United States that require PCNs to determine whether they individually satisfy the terms and conditions of the NWP(s), as well as the cumulative effects caused by all of the crossings of waters of the United States authorized by an NWP. If an applicant requests a waiver of an applicable limit, as provided for in NWPs 13, 36, or 54, the district engineer will only grant the waiver upon a written determination that the NWP activity will result in only minimal individual and cumulative adverse environmental effects.

2. When making minimal adverse environmental effects determinations the district engineer will consider the direct and indirect effects caused by the NWP activity. He or she will also consider the cumulative adverse environmental effects caused by activities authorized by an NWP and whether those cumulative adverse environmental effects are no more than minimal. The district engineer will also consider site specific factors, such as the environmental setting in the vicinity of the NWP activity, the type of resource that will be affected by the NWP activity, the functions provided by the aquatic resources that will be affected by the NWP activity, the degree or magnitude to which the aquatic resources perform those functions, the extent that aquatic resource functions will be lost as a result of the NWP activity (e.g., partial or complete loss), the duration of the adverse effects (temporary or permanent), the importance of the aquatic functions to the region (e.g., watershed or ecoregion), and mitigation required by the district engineer. If an appropriate functional or condition assessment method is available and practicable to use, that assessment method may be used by the district engineer to assist in the minimal adverse environmental effects determination. The district engineer may add case-specific special conditions to the NWP authorization to address site-specific environmental concerns.

3. If the proposed activity requires a PCN and will result in a loss of greater than 1/10-acre of wetlands or 3/100-acre of stream bed, the prospective permittee should submit a mitigation proposal with the PCN. Applicants may also propose compensatory mitigation for NWP activities with smaller impacts, or for impacts to other types of waters. The district engineer will consider any proposed compensatory mitigation or other mitigation measures the applicant has included in the proposal in determining whether the net adverse environmental effects of the proposed activity are no more than minimal. The compensatory mitigation proposal may be either conceptual or detailed. If the district engineer determines that the activity complies with the terms and conditions of the NWP and that the adverse environmental effects are no more than minimal, after considering mitigation, the district engineer will notify the permittee and include any activity-specific conditions in the NWP verification the district

engineer deems necessary. Conditions for compensatory mitigation requirements must comply with the appropriate provisions at 33 CFR 332.3(k). The district engineer must approve the final mitigation plan before the permittee commences work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation. If the prospective permittee elects to submit a compensatory mitigation plan with the PCN, the district engineer will expeditiously review the proposed compensatory mitigation plan.

The district engineer must review the proposed compensatory mitigation plan within 45 calendar days of receiving a complete PCN and determine whether the proposed mitigation would ensure that the NWP activity results in no more than minimal adverse environmental effects. If the net adverse environmental effects of the NWP activity (after consideration of the mitigation proposal) are determined by the district engineer to be no more than minimal, the district engineer will provide a timely written response to the applicant. The response will state that the NWP activity can proceed under the terms and conditions of the NWP, including any activity-specific conditions added to the NWP authorization by the district engineer.

4. If the district engineer determines that the adverse environmental effects of the proposed activity are more than minimal, then the district engineer will notify the applicant either: (a) that the activity does not qualify for authorization under the NWP and instruct the applicant on the procedures to seek authorization under an individual permit; (b) that the activity is authorized under the NWP subject to the applicant's submission of a mitigation plan that would reduce the adverse environmental effects so that they are no more than minimal; or (c) that the activity is authorized under the NWP with specific modifications or conditions. Where the district engineer determines that mitigation is required to ensure no more than minimal adverse environmental effects, the activity will be authorized within the 45-day PCN period (unless additional time is required to comply with general conditions 18, 20, and/or 31), with activity-specific conditions that state the mitigation requirements. The authorization will include the necessary conceptual or detailed mitigation plan or a requirement that the applicant submit a mitigation plan that would reduce the adverse environmental effects so that they are no more than minimal. When compensatory mitigation is required, no work in waters of the United States may occur until the district engineer has approved a specific mitigation plan or has determined that prior approval of a final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation.

#### **Further Information**

1. District Engineers have authority to determine if an activity complies with the terms and conditions of an NWP.
2. NWPs do not obviate the need to obtain other federal, state, or local permits, approvals, or authorizations required by law.
3. NWPs do not grant any property rights or exclusive privileges.
4. NWPs do not authorize any injury to the property or rights of others.
5. NWPs do not authorize interference with any existing or proposed Federal project (see general condition 31)

## **2021 KENTUCKY REGIONAL GENERAL CONDITIONS**

These regional conditions are in addition to, but do not supersede, the requirements in the Federal Register (See volume 86, date January 13, 2021, pp 2867-2874 for the text of Section C, General Conditions).

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

1. For activities that would result in a loss of Outstanding State or National Resource Waters (OSNRWs), Exceptional Waters (EWs), Coldwater Aquatic Habitat Waters (CAHs) and waters with Designated Critical Habitat (DCH) under the Endangered Species Act for the NWP 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 NWP 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 12 (Oil or Natural Gas Pipeline 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 22 (Removal of Vessels)

NWP 23 (Approved Categorical Exclusions)

NWP 25 (Structural Discharges)

NWP 30 (Moist Soil Management for Wildlife)

NWP 32 (Completed Enforcement Actions)

NWP 33 (Temporary Construction, Access, and Dewatering)

NWP 36 (Boat Ramps)

NWP 41 (Reshaping Existing Drainage Ditches)

NWP 51 (Land-Based Renewable Energy Generation Facilities)

NWP 57 (Electric Utility Line and Telecommunications Activities)

NWP 58 (Utility Line Activities for Water and Other Substances)

2. In addition to the notification and agency coordination requirements in the NWP, for impacts greater than 0.25 acres in all "waters of the U.S." for the NWP listed below, a PCN will be required to the Corps. The Corps will coordinate with the appropriate resource agencies (see attached list) on these NWP:

NWP 3 (Maintenance)

NWP 14 (Linear Transportation Projects)

3. 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 or the stream bed acreages listed in the table below at each crossing. Road crossings with permanent losses greater than 500 linear feet of intermittent or perennial stream or the stream bed acreages listed in the table below associated with new alignments or realignments will be evaluated as an individual permit (i.e., a Letter of Permission or Standard Permit).

Table of Acreages at Varying Stream Widths for 500 Linear Feet of Impact	
Stream Width (Feet)	Acres of Stream at Varying Widths for 500 Linear Feet of Stream
1	0.011
2	0.023
3	0.034
4	0.046
5	0.057
6	0.069
7	0.080
8	0.092
9	0.103
10	0.115

(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 linear feet of stream bed or the stream bed acreages listed in the table below. (See General Condition 32 and the definition of "loss of waters of the United States" in the Nationwide Permits for further information.)

Table of Acreages at Varying Stream Widths for 300 Linear Feet of Impact	
Stream Width (Feet)	Acres of Stream at Varying Widths for 300 Linear Feet of Stream
1	0.007
2	0.014
3	0.021
4	0.028
5	0.034
6	0.041
7	0.048
8	0.055
9	0.062
10	0.069

4. Notification in accordance with General Condition 32 is required to the Corps for all activities located in the following Section 10 waterways, to include the portion of their tributaries below the Ordinary High Water Mark or navigation pool, or otherwise subject to inundation, by the Section 10 waterway:

- Mississippi River
- Ohio River
- Licking River
- Kentucky River
- Salt River
- Green River
- Cumberland River
- Tennessee River
- Big Sandy River (from mouth to Louisa, KY)

5. All applications and requests should be submitted electronically. To submit applications or other requests electronically, all documents should be saved as a PDF document, and then submitted as an attachment in an email to the following email address:

[CELRL.Door.To.The.Corps@usace.army.mil](mailto:CELRL.Door.To.The.Corps@usace.army.mil)

Your email should include the following:

a) Subject Line with the name of the applicant, type of request, and location (County and State).

Example: RE: Doe, John, DA Permit Application, Jefferson County, KY

b) Brief description of the request and contact information (phone number, mailing address, and email address) for the applicant and/or their agent.

c) Project Location: Address and Latitude/Longitude in decimal degrees (e.g. 42.927883, -88.362576).

All forms that require signature must be digitally signed or signed manually, scanned and then sent electronically.

Electronic documents must have sufficient resolution to show project details. In order to have the highest quality documents, the original digital documents should be converted to PDF rather than providing scanned copies of original documents.

The electronic application and attached documents must not exceed 10 megabytes (10MB).

6. 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/>

Designated Critical Habitat (DCH) under the Endangered Species Act is determined within the Commonwealth of Kentucky by the U.S. Fish and Wildlife Service. The current list of Kentucky's Threatened, Endangered, and Federal Candidate Species can be found at the following link:

<http://www.fws.gov/frankfort/EndangeredSpecies.html>

Information on Pre-Construction Notification (PCN) can be found at NWP General Condition No. 32 in the Federal Register (See volume 86, date January 13, 2021, pp 2867- 2874 for the text of Section C, General Conditions).

#### **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 Sportsman's Lane  
Frankfort, KY 40601

Executive Director and State Historic Preservation Officer  
Kentucky Heritage Council  
410 High Street  
Frankfort, KY 40601



ANDY BESHEAR  
GOVERNOR

REBECCA W. GOODMAN  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

ANTHONY R. HATTON  
COMMISSIONER

300 SOWER BOULEVARD  
FRANKFORT, KENTUCKY 40601

## **General Certification--Nationwide Permit # 14 Linear Transportation Projects**

This General Certification is issued **December 18, 2020**, 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 General Certification and all General Certifications of Nationwide Permits (NWP), the term 'surface water' is defined pursuant to 401 KAR Chapter 10, Section 1(72): 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.

As required by 40 CFR Part 121 – State Certification of Activities Requiring a Federal License or Permit, all conditions include a statement explaining why the condition is necessary to assure that any discharge authorized under the general permit will comply with water quality requirements and a citation to federal, state, or tribal law that authorizes the condition. The statements and citations are included with each condition. The statements are written entirely at the end of the certification under the section *Statements of Necessity*.

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, 303, 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 conditions in this certification are met. Activities that do not meet the conditions of this General Certification require an Individual Section 401 Water Quality Certification.



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

1. Activities occurring within surface waters assessed by the Kentucky Division of Water as designated Outstanding State Resource Waters, National Resource Waters, Cold Water Aquatic Habitat, Exceptional Waters, or identified as candidate Outstanding State Resource Waters or candidate Exceptional Waters are not authorized under this General Certification and require an Individual Certification. [Statement A and citations KRS 224.70-110, 401 KAR 10:030, Section 1(1), Section 1(2), & Section 1(3); and 401 KAR 10:031, Section 4(2) & Section 8]
2. Activities impacting surface waters assessed by the Kentucky Division of Water as impaired for warm water or cold water aquatic habitat where the parameter or source is related to habitat\* are not authorized under this General Certification and require an Individual Certification. [Statement B and citations KRS 224.70-110 and 401 KAR 10:031, Section 2 & Section 4]  
  
\*These include waters impaired by the parameter 'habitat assessment', 'combined biota/habitat bioassessment' or any parameter from the parameter group 'habitat alterations, and/or waters where the parameter identified as a cause of impairment has a source from the source group 'habitat impacts'.
3. Activities impacting surface waters assessed by the Kentucky Division of Water as full support for warm water or cold water aquatic habitat are not authorized under this General Certification and require an Individual Certification. [Statements A and B and citations KRS 224.70-110 and 401 KAR 10:031, Section 2 & Section 4]
4. The activity will not occur within surface waters identified as perpetually-protected mitigation sites (e.g., deed restriction or conservation easement). [Statement C and citations KRS 224.70-110, 401 KAR 10:030, Section 1(3); and 40 C.F.R. 230.97]
5. Activities with cumulative temporary and permanent impacts greater than 1/2 acre of wetland or 300 linear feet of surface waters are not authorized under this General Certification and require an Individual Certification. This General Certification shall not apply to projects where multiple Nationwide Permits are issued for individual crossings which are part of a single, larger transportation projects. [Statement A and citations KRS 224.70-110, 401 KAR 10:030, Section 1(3)(b) & Section 1(4)(b); and 401 KAR 10:031, Section 2 & Section 4]
6. For complete linear transportation projects, all impacts shall not exceed a cumulative length of 500 linear feet within each Hydrologic Unit Code (HUC) 14. [401 KAR 10:030 and 401 KAR 10:031]
7. Stream realignment greater than 100 feet is not authorized under this General Certification and require and Individual Certification. [Statement A and citations KRS 224.70-110, 401 KAR 10:030, Section 1(3)(b) & Section 1(4)(b); and 401 KAR 10:031, Section 2 & Section 4]

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

8. Surface water impacts covered under this General 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 (KAWQP). [Statements A and F and citations KRS 224.71-145(1), 401 KAR 10:030, Section 1(3)(b) & Section 1(4)(b); and 401 KAR 10:031, Section 2 & Section 4]
9. Any crossings must be constructed in a manner that does not impede natural water flow. [Statement A and citations KRS 224.70-110, 401 KAR 10:030, Section 1(3)(b) & Section 1(4)(b); and 401 KAR 10:031, Section 2 & Section 4]
10. The use of creek rock for bank stabilization; grouted rip-rap; unformed, poured grout; unformed, poured concrete; poured asphalt; or asphalt pieces is not authorized under this General Certification and requires an Individual Certification. Poured concrete or grout will be authorized under this General Certification when contained by tightly sealed forms or cells. Equipment shall not discharge waste washwater into surface waters at any time without adequate wastewater treatments. [Statement A and citations 401 KAR 10:030, Section 1(3)(b) & 1(4)(b); and 401 KAR 10:031, Section 2 & Section 4]
11. New stormwater detention/ retention basins constructed in surface waters or modifications to stormwater detention/ retention basins resulting in the reduction in reach or that cause impairment of flow of surface waters are not authorized under this General Certification and require an Individual Certification. [Statement A and citations KRS 224.70-110, 401 KAR 10:030, Section 1(3)(b) & Section 1(4)(b); and 401 KAR 10:031, Section 2 & Section 4]
12. Erosion and sedimentation pollution control plans and Best Management Practices (BMPs) 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. [Statements A and D and citations KRS 224.70-110, 401 KAR 10:030, Section 1(3)(b) & Section 1(4)(b); and 401 KAR 10:031, Section 2 & Section 4]
13. 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, 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, 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. [Statements A and D and citations KRS 224.70-110, 401 KAR 10:030, Section 1(3)(b) & Section 1(4)(b); and 401 KAR 10:031, Section 2 & Section 4]

**General Certification--Nationwide Permit # 14**  
**Linear Transportation Projects**  
**Page 4**

14. Measures shall be taken to prevent or control spills of fuels, lubricants, or other toxic materials used in construction from entering surface waters. [Statements A and D and citations. [KRS 224.70-110, 401 KAR 10:030, Section 1(3)(b) & Section 1(4)(b); and 401 KAR 10:031, Section 2 & Section 4]
15. Removal of riparian vegetation shall be limited to that necessary for equipment access. [Statements A and D and citations KRS 224.70-110, 401 KAR 10:030, Section 1(3)(b) & Section 1(4)(b); and 401 KAR 10:031, Section 2 & Section 4]
16. To the maximum extent practicable, all in-stream work under this certification shall be performed under low-flow conditions [Statements A and D and citations KRS 224.70-110, 401 KAR 10:030, Section 1(3)(b) & Section 1(4)(b); and 401 KAR 10:031, Section 2 & Section 4]
17. Heavy equipment (e.g., bulldozers, backhoes, and draglines), 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. [Statements A and D and citations KRS 224.70-110, 401 KAR 10:030, Section 1(3)(b) & Section 1(4)(b); and 401 KAR 10:031, Section 2 & Section 4]
18. 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. [Statements A and D and citations KRS 224.70-110, 401 KAR 10:030, Section 1(3)(b) & Section 1(4)(b); and 401 KAR 10:031, Section 2 & Section 4]
19. If domestic water supply intakes are located downstream that may be affected by increased turbidity and suspended solids, the permittee shall notify the operator when such work will be done prior to construction. [Statement E and citations KRS 224.70-110, 401 KAR 10:030, Section 1(3)(b) & Section 1(4)(b); and 401 KAR 10:031, Section 2 & Section 4]
20. 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 Kentucky Division of Water shall be notified immediately by calling (800) 928-2380. [Statement A and D and citations KRS 224.70-110, 401 KAR 10:030, Section 1(3)(b) & Section 1(4)(b); and 401 KAR 10:031, Section 2 & Section 4]
21. The Kentucky Division of Water requires submission of a formal application for any federal applicant that is not required to submit a Preconstruction Notification that would typically be required of any non-federal applicant. [Statements A and D and citations KRS 224.70-110, 401 KAR 10:030, Section 1(3)(b) & Section 1(4)(b); and 401 KAR 10:031, Section 2 & Section 4]

**General Certification--Nationwide Permit # 14**  
**Linear Transportation Projects**  
**Page 5**

22. The Kentucky Division of Water may require submission of a formal application for an Individual Certification for any project that has been determined to likely have a significant adverse effect upon water quality or degrade surface waters so that existing uses of the water body or downstream waters are precluded. [Statement A and citations KRS 224.70-110, 401 KAR 10:030, Section 1(3)(b) & Section 1(4)(b); and 401 KAR 10:031, Section 2 & Section 4]
23. If the final issued General Permit for Nationwide Permit 14 Linear Transportation Projects changes significantly, the Division of Water may opt to deny certification for this permit. [Statements A and D and citations KRS 224.70-110, 401 KAR 10:030, Section 1(3)(b) & Section 1(4)(b); and 401 KAR 10:031, Section 2 & Section 4]

Statements of Necessity:

- A. This condition is necessary to protect waters categorized under the anti-degradation policy to protect the designated and existing uses and to maintain the associated water quality criteria necessary to protect these water resources.
- B. This condition is necessary to protect existing uses and the level of water quality necessary to protect those existing uses shall be assured in impaired water.
- C. This condition is necessary for long-term protection of compensatory mitigation sites.
- D. This condition is necessary to provide for the prevention, abatement, and control of all water pollution and to conserve water resources for legitimate uses, safeguard from pollution the uncontaminated waters, prevent the creation of any new pollution, and abate any existing pollution.
- E. This condition is necessary to protect domestic water supply use.
- F. This condition is necessary to evaluate, develop, and improve best-management practices in conservation plans, compliance plans, and forest stewardship management plans; establish statewide and regional agriculture water quality plans; and otherwise promote soil and water conservation activities that protect surface waters from the adverse impacts of agriculture operations within the Commonwealth.

**Violation of Kentucky state water quality standards may result in civil penalties and remediation actions.**

For assistance contact the Kentucky Division of Water, Water Quality Certification Section by email ([401WQC@ky.gov](mailto:401WQC@ky.gov)) or by phone (502)-564-3410.

MATERIAL SUMMARY

CONTRACT ID: 234412

121GR23T024-HSIP

07034000423W1

NEW CIRCLE ROAD (KY 4) SIDEWALK AND DRAINAGE IMPROVEMENTS AT THE INTERSECTION OF KY 4 AT KY 353 (RUSSELL CAVE RD) GRADE & DRAIN, A DISTANCE OF .06 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
1340	02101	CEM CONC ENT PAVEMENT-8 IN	72.00	SQYD
1345	20550ND	SAWCUT PAVEMENT	233.00	LF
1350	01811	STANDARD CURB AND GUTTER MOD	178.00	LF
1355	01875	STANDARD HEADER CURB	30.00	LF
1360	02562	TEMPORARY SIGNS	100.00	SQFT
1365	02650	MAINTAIN & CONTROL TRAFFIC - (FAYETTE KY 4 @ RUSSELL CAVE RD)	1.00	LS
1370	02671	PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH
1375	02705	SILT TRAP TYPE C	5.00	EACH
1380	02708	CLEAN SILT TRAP TYPE C	5.00	EACH
1385	02720	SIDEWALK-4 IN CONCRETE	178.00	SQYD
1390	02726	STAKING - (FAYETTE KY 4 @ RUSSELL CAVE RD)	1.00	LS
1395	02775	ARROW PANEL	1.00	EACH
1400	05950	EROSION CONTROL BLANKET	102.00	SQYD
1405	05990	SODDING	288.00	SQYD
1410	23158ES505	DETECTABLE WARNINGS	51.00	SQFT
1415	00462	CULVERT PIPE-18 IN	128.00	LF
1420	01550	DROP BOX INLET TYPE 12A	35.00	LF
1425	01584	CAP DROP BOX INLET	1.00	EACH
1430	01642	JUNCTION BOX-18 IN	1.00	EACH
1435	02625	REMOVE HEADWALL	1.00	EACH
1440	08100	CONCRETE-CLASS A	1.13	CUYD
1445	21541NN	CORED HOLE DRAINAGE BOX CON- 18 IN	1.00	EACH
1450	23952EC	DRAINAGE JUNCTION BOX TY B	1.00	EACH
1455	20194ED	REMOVE & RESET TRAFFIC SIGN	1.00	EACH
1460	02568	MOBILIZATION	1.00	LS
1465	02569	DEMOBILIZATION	1.00	LS

MATERIAL SUMMARY

CONTRACT ID: 234412

121GR23T024-HSIP

07034002523W1

GEORGETOWN RD (US 25) IMPROVEMENTS AT THE INTERSECTION OF GEORGETOWN RD (US 25) AND CITATION BLVD ASPHALT SURFACE WITH GRADE & DRAIN, A DISTANCE OF .07 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0005	00214	CL3 ASPH BASE 1.00D PG64-22	42.00	TON
0010	00388	CL3 ASPH SURF 0.38B PG64-22	5.10	TON
0015	24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	.07	TON
0020	00001	DGA BASE	47.00	TON
0025	01812	REMOVE CURB AND GUTTER	147.00	LF
0030	01825	ISLAND CURB AND GUTTER	150.00	LF
0035	02200	ROADWAY EXCAVATION	94.00	CUYD
0040	02562	TEMPORARY SIGNS	119.00	SQFT
0045	02650	MAINTAIN & CONTROL TRAFFIC - (FAYETTE US 25 @ CITATION BLVD)	1.00	LS
0050	02671	PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH
0055	02705	SILT TRAP TYPE C	4.00	EACH
0060	02708	CLEAN SILT TRAP TYPE C	4.00	EACH
0065	02726	STAKING - (FAYETTE US 25 @ CITATION BLVD)	1.00	LS
0070	05990	SODDING	100.00	SQYD
0075	06541	PAVE STRIPING-THERMO-4 IN Y	106.00	LF
0080	20550ND	SAWCUT PAVEMENT	143.00	LF
0085	24683ED	PAVE MARKING-THERMO DOTTED LANE EXTEN - (6 INCH WIDTH)	54.00	LF
0090	04844	CABLE-NO. 14/5C	750.00	LF
0095	20188NS835	INSTALL LED SIGNAL-3 SECTION	4.00	EACH
0100	02568	MOBILIZATION	1.00	LS
0105	02569	DEMOBILIZATION	1.00	LS

MATERIAL SUMMARY

CONTRACT ID: 234412

121GR23T024-HSIP

07034002723W1

NORTH BROADWAY (US 27) IMPROVEMENTS AT THE INTERSECTION OF NORTH BROADWAY (US 27) AND W LOUDON AVE ASPHALT PAVEMENT & ROADWAY REHAB.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0225	00388	CL3 ASPH SURF 0.38B PG64-22	152.00	TON
0230	02676	MOBILIZATION FOR MILL & TEXT - (FAYETTE US 27 @ W LOUDON AVE)	1.00	LS
0235	02677	ASPHALT PAVE MILLING & TEXTURING	152.00	TON
0240	24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	1.00	TON
0245	01921	STANDARD BARRIER MEDIAN TYPE 4	65.00	SQYD
0250	02562	TEMPORARY SIGNS	91.00	SQFT
0255	02650	MAINTAIN & CONTROL TRAFFIC - (FAYETTE US 27 @ W LOUDON AVE)	1.00	LS
0260	02671	PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH
0265	02705	SILT TRAP TYPE C	4.00	EACH
0270	02708	CLEAN SILT TRAP TYPE C	4.00	EACH
0275	02726	STAKING - (FAYETTE US 27 @ W LOUDON AVE)	1.00	LS
0280	03225	TUBULAR MARKERS - (PEXCO CITY POST EMBEDDED ANCHOR CUP)	15.00	EACH
0285	06406	SBM ALUM SHEET SIGNS .080 IN	7.50	SQFT
0290	06410	STEEL POST TYPE 1	14.00	LF
0295	06510	PAVE STRIPING-TEMP PAINT-4 IN	700.00	LF
0300	06540	PAVE STRIPING-THERMO-4 IN W	405.00	LF
0305	06541	PAVE STRIPING-THERMO-4 IN Y	1,466.00	LF
0310	06568	PAVE MARKING-THERMO STOP BAR-24IN	33.00	LF
0315	06569	PAVE MARKING-THERMO CROSS-HATCH	250.00	SQFT
0320	06574	PAVE MARKING-THERMO CURV ARROW	2.00	EACH
0325	21596ND	GMSS TYPE D - SURFACE MOUNT	2.00	EACH
0330	22664EN	WATER BLASTING EXISTING STRIPE	112.00	LF
0335	23608EC	YELLOW PAINT FOR MEDIAN SAFETY NOSE	6.00	SQFT
0340	24189ER	DURABLE WATERBORNE MARKING-6 IN W	998.00	LF
0345	24190ER	DURABLE WATERBORNE MARKING-6 IN Y	738.00	LF
0350	24489EC	INLAID PAVEMENT MARKER	21.00	EACH
0355	24631EC	BARCODE SIGN INVENTORY	2.00	EACH
0360	24683ED	PAVE MARKING-THERMO DOTTED LANE EXTEN - (6 INCH WIDTH)	17.00	LF
0365	04792	CONDUIT-1 IN	10.00	LF
0370	04811	ELECTRICAL JUNCTION BOX TYPE B	1.00	EACH
0375	04830	LOOP WIRE	300.00	LF
0380	04844	CABLE-NO. 14/5C	260.00	LF
0385	04850	CABLE-NO. 14/1 PAIR	250.00	LF
0390	04895	LOOP SAW SLOT AND FILL	150.00	LF
0395	20188NS835	INSTALL LED SIGNAL-3 SECTION	2.00	EACH
0400	24963ED	LOOP TEST	1.00	EACH
0405	02568	MOBILIZATION	1.00	LS
0410	02569	DEMOBILIZATION	1.00	LS

MATERIAL SUMMARY

CONTRACT ID: 234412

121GR23T024-HSIP

07034002723W2

NORTH BROADWAY (US 27) IMPROVEMENTS AT THE INTERSECTION OF US 27 AND HAGGARD LANE  
SIGNS-LIGHTING-SIGNALS, A DISTANCE OF .38 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0110	02676	MOBILIZATION FOR MILL & TEXT - (7-9012.70)	1.00	LS
0115	02677	ASPHALT PAVE MILLING & TEXTURING	5.00	TON
0120	20550ND	SAWCUT PAVEMENT	148.00	LF
0125	01921	STANDARD BARRIER MEDIAN TYPE 4	59.00	SQYD
0130	02650	MAINTAIN & CONTROL TRAFFIC - (7-9012.70)	1.00	LS
0135	02704	SILT TRAP TYPE B	4.00	EACH
0140	02705	SILT TRAP TYPE C	2.00	EACH
0145	02707	CLEAN SILT TRAP TYPE B	4.00	EACH
0150	02708	CLEAN SILT TRAP TYPE C	2.00	EACH
0155	02726	STAKING - (7-9012.70)	1.00	LS
0160	06406	SBM ALUM SHEET SIGNS .080 IN	30.00	SQFT
0165	06410	STEEL POST TYPE 1	32.00	LF
0170	06514	PAVE STRIPING-PERM PAINT-4 IN	550.00	LF
0175	06574	PAVE MARKING-THERMO CURV ARROW	1.00	EACH
0180	06575	PAVE MARKING-THERMO COMB ARROW	4.00	EACH
0185	22680EN	QWICK CURB MEDIAN SEPARATOR	103.00	LF
0190	06472	INSTALL SPAN MOUNTED SIGN	1.00	EACH
0195	20188NS835	INSTALL LED SIGNAL-3 SECTION	8.00	EACH
0200	20266ES835	INSTALL LED SIGNAL- 4 SECTION	1.00	EACH
0205	24955ED	REMOVE SIGNAL EQUIPMENT - (7-9012.70 US 27 AT HAGGARD LN)	1.00	EACH
0210	24955ED	REMOVE SIGNAL EQUIPMENT - (7-9012.70 US 27 AT I-75 SB RAMP ON RAMP)	1.00	EACH
0215	02568	MOBILIZATION	1.00	LS
0220	02569	DEMOBILIZATION	1.00	LS

CONTRACT ID: 234412

121GR23T024-HSIP

0703400682302

SOUTH BROADWAY (US 68) MINOR WIDENING ALONG US 68 AT RED MILE ROAD ASPHALT SURFACE WITH  
GRADE & DRAIN, A DISTANCE OF .1 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
1745	00001	DGA BASE	86.00	TON
1750	00212	CL2 ASPH BASE 1.00D PG64-22	109.00	TON
1755	00307	CL2 ASPH SURF 0.38B PG64-22	112.00	TON
1760	01812	REMOVE CURB AND GUTTER	362.00	LF
1765	02676	MOBILIZATION FOR MILL & TEXT - (FAYETTE US 68 @ RED MILE ROAD)	1.00	LS
1770	02677	ASPHALT PAVE MILLING & TEXTURING	112.00	TON
1775	02719	SIDEWALK-4 1/2 INCH CONCRETE	67.00	SQYD



MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
1780	02721	REMOVE CONCRETE SIDEWALK	91.00	SQYD
1785	20550ND	SAWCUT PAVEMENT	372.00	LF
1790	24576EN	LFUCG CURB AND GUTTER TYPE I - (MOD)	362.00	LF
1795	24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	1.20	TON
1800	02159	TEMP DITCH	375.00	LF
1805	02160	CLEAN TEMP DITCH	188.00	LF
1810	02200	ROADWAY EXCAVATION	174.00	CUYD
1815	02562	TEMPORARY SIGNS	150.00	SQFT
1820	02650	MAINTAIN & CONTROL TRAFFIC - (FAYETTE US 68 @ RED MILE ROAD)	1.00	LS
1825	02671	PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH
1830	02701	TEMP SILT FENCE	375.00	LF
1835	02703	SILT TRAP TYPE A	1.00	EACH
1840	02704	SILT TRAP TYPE B	1.00	EACH
1845	02705	SILT TRAP TYPE C	1.00	EACH
1850	02706	CLEAN SILT TRAP TYPE A	1.00	EACH
1855	02707	CLEAN SILT TRAP TYPE B	1.00	EACH
1860	02708	CLEAN SILT TRAP TYPE C	1.00	EACH
1865	02726	STAKING - (FAYETTE US 68 @ RED MILE ROAD)	1.00	LS
1870	02775	ARROW PANEL	1.00	EACH
1875	05952	TEMP MULCH	1,291.00	SQYD
1880	05953	TEMP SEEDING AND PROTECTION	968.00	SQYD
1885	05963	INITIAL FERTILIZER	.06	TON
1890	05964	MAINTENANCE FERTILIZER	.10	TON
1895	05985	SEEDING AND PROTECTION	1,936.00	SQYD
1900	05990	SODDING	83.00	SQYD
1905	05992	AGRICULTURAL LIMESTONE	1.20	TON
1910	06542	PAVE STRIPING-THERMO-6 IN W	223.25	LF
1915	06543	PAVE STRIPING-THERMO-6 IN Y	935.00	LF
1920	06568	PAVE MARKING-THERMO STOP BAR-24IN	33.00	LF
1925	06574	PAVE MARKING-THERMO CURV ARROW	6.00	EACH
1930	22400NN	REMOVE AND RELOCATE SIGN ASSEMBLY	1.00	EACH
1935	22664EN	WATER BLASTING EXISTING STRIPE	106.00	LF
1940	01650	JUNCTION BOX	1.00	EACH
1945	14020	W FIRE HYDRANT RELOCATE	1.00	EACH
1950	26119EC	INSTALL RADAR PRESENCE DETECTOR TYPE A	4.00	EACH
1955	02568	MOBILIZATION	1.00	LS
1960	02569	DEMOBILIZATION	1.00	LS

CONTRACT ID: 234412

121GR23T024-HSIP

07034006823W1

HARRODSBURG RD (US 68) IMPROVEMENTS AT THE INTERSECTION OF HARRODSBURG RD (US 68) AND FT HARRODS RD ASPHALT SURFACE WITH GRADE & DRAIN.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0560	00216	CL3 ASPH BASE 1.00D PG76-22	350.00	TON
0565	00336	CL3 ASPH SURF 0.38A PG76-22	160.00	TON

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0570	02676	MOBILIZATION FOR MILL & TEXT - (FAYETTE US 68 @ FT HARRODS DR)	1.00	LS
0575	02677	ASPHALT PAVE MILLING & TEXTURING	120.00	TON
0580	24785EC	FIBER REINFORCEMENT FOR HMA	435.00	TON
0585	24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	1.50	TON
0590	00001	DGA BASE	274.00	TON
0595	01000	PERFORATED PIPE-4 IN	410.00	LF
0600	01010	NON-PERFORATED PIPE-4 IN	20.00	LF
0605	01020	PERF PIPE HEADWALL TY 1-4 IN	2.00	EACH
0610	01811	STANDARD CURB AND GUTTER MOD - LFUCG CURB AND GUTTER TYPE 1	261.00	LF
0615	01812	REMOVE CURB AND GUTTER	249.00	LF
0620	02159	TEMP DITCH	500.00	LF
0625	02160	CLEAN TEMP DITCH	250.00	LF
0630	02200	ROADWAY EXCAVATION	416.00	CUYD
0635	02562	TEMPORARY SIGNS	119.00	SQFT
0640	02604	FABRIC-GEOTEXTILE CLASS 1A	571.00	SQYD
0645	02607	FABRIC-GEOTEXTILE CLASS 2 FOR PIPE	180.00	SQYD
0650	02650	MAINTAIN & CONTROL TRAFFIC - (FAYETTE US 68 @ FT HARRODS DR)	1.00	LS
0655	02671	PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH
0660	02696	SHOULDER RUMBLE STRIPS	225.00	LF
0665	02701	TEMP SILT FENCE	500.00	LF
0670	02703	SILT TRAP TYPE A	1.00	EACH
0675	02704	SILT TRAP TYPE B	1.00	EACH
0680	02705	SILT TRAP TYPE C	1.00	EACH
0685	02706	CLEAN SILT TRAP TYPE A	1.00	EACH
0690	02707	CLEAN SILT TRAP TYPE B	1.00	EACH
0695	02708	CLEAN SILT TRAP TYPE C	1.00	EACH
0700	02720	SIDEWALK-4 IN CONCRETE	61.00	SQYD
0705	02721	REMOVE CONCRETE SIDEWALK	27.00	SQYD
0710	02726	STAKING - (FAYETTE US 68 @ FT HARRODS DR)	1.00	LS
0715	05950	EROSION CONTROL BLANKET	525.00	SQYD
0720	05952	TEMP MULCH	900.00	SQYD
0725	05953	TEMP SEEDING AND PROTECTION	675.00	SQYD
0730	05963	INITIAL FERTILIZER	.08	TON
0735	05964	MAINTENANCE FERTILIZER	.05	TON
0740	05985	SEEDING AND PROTECTION	525.00	SQYD
0745	05990	SODDING	80.00	SQYD
0750	05992	AGRICULTURAL LIMESTONE	.07	TON
0755	06407	SBM ALUM SHEET SIGNS .125 IN	10.00	SQFT
0760	06410	STEEL POST TYPE 1	25.00	LF
0765	06540	PAVE STRIPING-THERMO-4 IN W	220.00	LF
0770	06541	PAVE STRIPING-THERMO-4 IN Y	342.00	LF
0775	06566	PAVE MARKING-THERMO X-WALK-12 IN	487.00	LF
0780	06568	PAVE MARKING-THERMO STOP BAR-24IN	188.00	LF
0785	06574	PAVE MARKING-THERMO CURV ARROW	11.00	EACH
0790	06575	PAVE MARKING-THERMO COMB ARROW	2.00	EACH
0795	06598	PAVEMENT MARKING REMOVAL	227.00	SQFT
0800	20550ND	SAWCUT PAVEMENT	813.00	LF
0805	21597EN	REMOVE PERF PIPE HEADWALL	1.00	EACH

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0810	22664EN	WATER BLASTING EXISTING STRIPE	83.00	LF
0815	23055N	REMOVE - BRICK MAILBOX (7-9006.30)	1.00	LS
0820	23158ES505	DETECTABLE WARNINGS	60.00	SQFT
0825	24189ER	DURABLE WATERBORNE MARKING-6 IN W	910.00	LF
0830	24190ER	DURABLE WATERBORNE MARKING-6 IN Y	684.00	LF
0835	24489EC	INLAID PAVEMENT MARKER	28.00	EACH
0840	24631EC	BARCODE SIGN INVENTORY	1.00	EACH
0845	24679ED	PAVE MARK THERMO CHEVRON	487.00	SQFT
0850	24683ED	PAVE MARKING-THERMO DOTTED LANE EXTEN	58.00	LF
0855	00524	STORM SEWER PIPE-24 IN	111.00	LF
0860	01310	REMOVE PIPE	13.00	LF
0865	01514	DROP BOX INLET TYPE 5E	1.00	EACH
0870	01571	DROP BOX INLET TYPE 13ST - (TOP PHASE)	1.00	EACH
0875	01584	CAP DROP BOX INLET	1.00	EACH
0880	01718	REMOVE INLET - (TOP PHASE ONLY)	1.00	EACH
0885	23610NC	CORED HOLE DRAINAGE BOX CON - (24 INCH)	1.00	EACH
0890	23610NC	CORED HOLE DRAINAGE BOX CON - (4 INCH)	1.00	EACH
0895	04792	CONDUIT-1 IN - (RIGID STEEL)	60.00	LF
0900	04793	CONDUIT-1 1/4 IN	38.00	LF
0905	04811	ELECTRICAL JUNCTION BOX TYPE B	1.00	EACH
0910	04830	LOOP WIRE	2,404.00	LF
0915	04844	CABLE-NO. 14/5C	940.00	LF
0920	04850	CABLE-NO. 14/1 PAIR	340.00	LF
0925	04895	LOOP SAW SLOT AND FILL	862.00	LF
0930	20093NS835	INSTALL PEDESTRIAN HEAD-LED	6.00	EACH
0935	20188NS835	INSTALL LED SIGNAL-3 SECTION	4.00	EACH
0940	20189NS835	INSTALL LED SIGNAL-5 SECTION	1.00	EACH
0945	20266ES835	INSTALL LED SIGNAL- 4 SECTION	2.00	EACH
0950	21659NN	RELOCATE SIGNAL HEAD	2.00	EACH
0955	21743NN	INSTALL PEDESTRIAN DETECTOR	6.00	EACH
0960	23222EC	INSTALL SIGNAL PEDESTAL	2.00	EACH
0965	23556NC	ADJUST LIGHTING JUNCTION BOX	1.00	EACH
0970	24901EC	PVC CONDUIT-2 IN-SCHEDULE 80	12.00	LF
0975	24955ED	REMOVE SIGNAL EQUIPMENT - (7-9006.30 US 68 AT FT HARRODS)	1.00	EACH
0980	24963ED	LOOP TEST	5.00	EACH
0985	02568	MOBILIZATION	1.00	LS
0990	02569	DEMOBILIZATION	1.00	LS

CONTRACT ID: 234412

121GR23T024-HSIP

0703440092301

ALEXANDRIA DRIVE (CS 4009) IMPROVEMENTS AT THE INTERSECTION OF CS 4009 (ALEXANDRIA DRIVE) AND CS 4871 (TRAILWOOD LANE) ASPHALT SURFACE WITH GRADE & DRAIN, A DISTANCE OF .25 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
1470	00003	CRUSHED STONE BASE	3.00	TON
1475	00071	CRUSHED AGGREGATE SIZE NO 57	168.00	TON

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
1480	00078	CRUSHED AGGREGATE SIZE NO 2	1.00	TON
1485	00212	CL2 ASPH BASE 1.00D PG64-22	268.00	TON
1490	00307	CL2 ASPH SURF 0.38B PG64-22	369.00	TON
1495	02676	MOBILIZATION FOR MILL & TEXT - (FAYETTE CS 4009 @ TRAILWOOD LN)	1.00	LS
1500	02677	ASPHALT PAVE MILLING & TEXTURING	368.00	TON
1505	24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	2.20	TON
1510	01000	PERFORATED PIPE-4 IN	700.00	LF
1515	01010	NON-PERFORATED PIPE-4 IN	15.00	LF
1520	01020	PERF PIPE HEADWALL TY 1-4 IN	1.00	EACH
1525	01811	STANDARD CURB AND GUTTER MOD	87.00	LF
1530	01812	REMOVE CURB AND GUTTER	20.00	LF
1535	02159	TEMP DITCH	400.00	LF
1540	02160	CLEAN TEMP DITCH	200.00	LF
1545	02200	ROADWAY EXCAVATION	250.00	CUYD
1550	02603	FABRIC-GEOTEXTILE CLASS 2	312.00	SQYD
1555	02650	MAINTAIN & CONTROL TRAFFIC - (FAYETTE CS 4009 @ TRAILWOOD LN)	1.00	LS
1560	02671	PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH
1565	02701	TEMP SILT FENCE	400.00	LF
1570	02703	SILT TRAP TYPE A	1.00	EACH
1575	02704	SILT TRAP TYPE B	1.00	EACH
1580	02705	SILT TRAP TYPE C	1.00	EACH
1585	02706	CLEAN SILT TRAP TYPE A	1.00	EACH
1590	02707	CLEAN SILT TRAP TYPE B	1.00	EACH
1595	02708	CLEAN SILT TRAP TYPE C	1.00	EACH
1600	02720	SIDEWALK-4 IN CONCRETE	21.00	SQYD
1605	02721	REMOVE CONCRETE SIDEWALK	6.00	SQYD
1610	02726	STAKING - (FAYETTE CS 4009 @ TRAILWOOD LN)	1.00	LS
1615	05950	EROSION CONTROL BLANKET	700.00	SQYD
1620	05952	TEMP MULCH	1,334.00	SQYD
1625	05953	TEMP SEEDING AND PROTECTION	1,000.00	SQYD
1630	05963	INITIAL FERTILIZER	.04	TON
1635	05964	MAINTENANCE FERTILIZER	.06	TON
1640	05985	SEEDING AND PROTECTION	974.00	SQYD
1645	05990	SODDING	43.00	SQYD
1650	06510	PAVE STRIPING-TEMP PAINT-4 IN	10,000.00	LF
1655	06542	PAVE STRIPING-THERMO-6 IN W	1,912.00	LF
1660	06543	PAVE STRIPING-THERMO-6 IN Y	2,658.00	LF
1665	06568	PAVE MARKING-THERMO STOP BAR-24IN	19.00	LF
1670	06569	PAVE MARKING-THERMO CROSS-HATCH	390.00	SQFT
1675	06574	PAVE MARKING-THERMO CURV ARROW	8.00	EACH
1680	21289ED	LONGITUDINAL EDGE KEY	821.00	LF
1685	21417ES717	PAVE MARK THERMO CONE CAP-SOLID YELLOW	57.00	SQFT
1690	22664EN	WATER BLASTING EXISTING STRIPE	148.00	LF
1695	23158ES505	DETECTABLE WARNINGS	16.00	SQFT
1700	23261EC	PAVE MARK-THERMO-X-WALK-24 IN	78.00	LF
1705	00439	ENTRANCE PIPE-12 IN	58.00	LF
1710	01310	REMOVE PIPE	58.00	LF
1715	21134ND	REMOVE-STORE AND REINSTALL SIGN	2.00	EACH
1720	22400NN	REMOVE AND RELOCATE SIGN ASSEMBLY	3.00	EACH

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
1725	04792	CONDUIT-1 IN	400.00	LF
1730	04820	TRENCHING AND BACKFILLING	400.00	LF
1735	02568	MOBILIZATION	1.00	LS
1740	02569	DEMOBILIZATION	1.00	LS

CONTRACT ID: 234412

121GR23T024-HSIP

07034452423W1

MAN O WAR BLVD (CS 4524) IMPROVEMENTS AT THE INTERSECTION OF MAN O WAR BLVD (CS 4524) AND PARKERS MILL RD SIGNS-LIGHTING-SIGNALS, A DISTANCE OF .2 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0415	01810	STANDARD CURB AND GUTTER	126.00	LF
0420	01812	REMOVE CURB AND GUTTER	126.00	LF
0425	02562	TEMPORARY SIGNS	91.00	SQFT
0430	02650	MAINTAIN & CONTROL TRAFFIC - (FAYETTE MAN O' WAR BLVD @ PARKERS MILL RD)	1.00	LS
0435	02671	PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH
0440	02720	SIDEWALK-4 IN CONCRETE	58.00	SQYD
0445	02721	REMOVE CONCRETE SIDEWALK	147.00	SQYD
0450	02726	STAKING - (FAYETTE MAN O' WAR BLVD @ PARKERS MILL RD)	1.00	LS
0455	05990	SODDING	92.00	SQYD
0460	06406	SBM ALUM SHEET SIGNS .080 IN	18.00	SQFT
0465	06410	STEEL POST TYPE 1	24.00	LF
0470	06540	PAVE STRIPING-THERMO-4 IN W	124.00	LF
0475	06541	PAVE STRIPING-THERMO-4 IN Y	184.00	LF
0480	06566	PAVE MARKING-THERMO X-WALK-12 IN	136.00	LF
0485	06568	PAVE MARKING-THERMO STOP BAR-24IN	90.00	LF
0490	06569	PAVE MARKING-THERMO CROSS-HATCH	55.00	SQFT
0495	06598	PAVEMENT MARKING REMOVAL	247.00	SQFT
0500	21417ES717	PAVE MARK THERMO CONE CAP-SOLID YELLOW	90.00	SQFT
0505	23158ES505	DETECTABLE WARNINGS	16.00	SQFT
0510	24631EC	BARCODE SIGN INVENTORY	2.00	EACH
0515	02701	TEMP SILT FENCE	300.00	LF
0520	02705	SILT TRAP TYPE C	2.00	EACH
0525	02708	CLEAN SILT TRAP TYPE C	2.00	EACH
0530	04844	CABLE-NO. 14/5C	1,300.00	LF
0535	20188NS835	INSTALL LED SIGNAL-3 SECTION	10.00	EACH
0540	20266ES835	INSTALL LED SIGNAL- 4 SECTION	2.00	EACH
0545	24955ED	REMOVE SIGNAL EQUIPMENT - (FAYETTE MAN O' WAR BLVD @ PARKERS MILL RD)	1.00	EACH
0550	02568	MOBILIZATION	1.00	LS
0555	02569	DEMOBILIZATION	1.00	LS

CONTRACT ID: 234412

121GR23T024-HSIP

07057002723W1

MATERIAL SUMMARY

NICHOLASVILLE BYPASS (US 27) IMPROVEMENTS AT THE INTERSECTION OF NICHOLASVILLE BYPASS (US 27) AND EDGEWOOD DR ASPHALT SURFACE WITH GRADE & DRAIN, A DISTANCE OF .4 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0995	00100	ASPHALT SEAL AGGREGATE	1.80	TON
1000	00103	ASPHALT SEAL COAT	.40	TON
1005	00190	LEVELING & WEDGING PG64-22	4.00	TON
1010	00214	CL3 ASPH BASE 1.00D PG64-22	490.00	TON
1015	02676	MOBILIZATION FOR MILL & TEXT - (JESSAMINE US 27 @ EDGEWOOD DR)	1.00	LS
1020	02677	ASPHALT PAVE MILLING & TEXTURING	68.00	TON
1025	22906ES403	CL3 ASPH SURF 0.38A PG64-22	121.00	TON
1030	24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	1.20	TON
1035	00001	DGA BASE	324.00	TON
1040	00078	CRUSHED AGGREGATE SIZE NO 2	230.00	TON
1045	01810	STANDARD CURB AND GUTTER	110.00	LF
1050	01917	STANDARD BARRIER MEDIAN TYPE 2	37.00	SQYD
1055	02200	ROADWAY EXCAVATION	297.00	CUYD
1060	02562	TEMPORARY SIGNS	200.00	SQFT
1065	02602	FABRIC-GEOTEXTILE CLASS 1	710.00	SQYD
1070	02650	MAINTAIN & CONTROL TRAFFIC - (JESSAMINE US 27 @ EDGEWOOD DR)	1.00	LS
1075	02671	PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH
1080	02701	TEMP SILT FENCE	245.00	LF
1085	02704	SILT TRAP TYPE B	2.00	EACH
1090	02705	SILT TRAP TYPE C	4.00	EACH
1095	02707	CLEAN SILT TRAP TYPE B	2.00	EACH
1100	02708	CLEAN SILT TRAP TYPE C	4.00	EACH
1105	02720	SIDEWALK-4 IN CONCRETE	134.00	SQYD
1110	02726	STAKING - (JESSAMINE US 27 @ EDGEWOOD DR)	1.00	LS
1115	02775	ARROW PANEL	1.00	EACH
1120	05950	EROSION CONTROL BLANKET	479.00	SQYD
1125	05953	TEMP SEEDING AND PROTECTION	60.00	SQYD
1130	05963	INITIAL FERTILIZER	.10	TON
1135	05964	MAINTENANCE FERTILIZER	.10	TON
1140	05985	SEEDING AND PROTECTION	1,151.00	SQYD
1145	05990	SODDING	50.00	SQYD
1150	05992	AGRICULTURAL LIMESTONE	.80	TON
1155	06406	SBM ALUM SHEET SIGNS .080 IN	20.00	SQFT
1160	06410	STEEL POST TYPE 1	54.00	LF
1165	06540	PAVE STRIPING-THERMO-4 IN W	1,113.00	LF
1170	06541	PAVE STRIPING-THERMO-4 IN Y	960.00	LF
1175	06542	PAVE STRIPING-THERMO-6 IN W	1,210.00	LF
1180	06543	PAVE STRIPING-THERMO-6 IN Y	452.00	LF
1185	06547	PAVE STRIPING-THERMO-12 IN Y	16.00	LF
1190	06568	PAVE MARKING-THERMO STOP BAR-24IN	203.00	LF
1195	06574	PAVE MARKING-THERMO CURV ARROW	12.00	EACH
1200	06575	PAVE MARKING-THERMO COMB ARROW	4.00	EACH
1205	06598	PAVEMENT MARKING REMOVAL	246.00	SQFT
1210	20550ND	SAWCUT PAVEMENT	568.00	LF
1215	21373ND	REMOVE SIGN	2.00	EACH

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
1220	23158ES505	DETECTABLE WARNINGS	52.00	SQFT
1225	23261EC	PAVE MARK-THERMO-X-WALK-24 IN	150.00	LF
1230	23875NC	REMOVE THERMOPLASTIC ARROWS	2.00	EACH
1235	24489EC	INLAID PAVEMENT MARKER	22.00	EACH
1240	24631EC	BARCODE SIGN INVENTORY	2.00	EACH
1245	24679ED	PAVE MARK THERMO CHEVRON	613.00	SQFT
1250	00522	STORM SEWER PIPE-18 IN	28.00	LF
1255	01511	DROP BOX INLET TYPE 5D	1.00	EACH
1260	01584	CAP DROP BOX INLET	1.00	EACH
1265	04792	CONDUIT-1 IN	30.00	LF
1270	04811	ELECTRICAL JUNCTION BOX TYPE B	2.00	EACH
1275	04830	LOOP WIRE	1,251.00	LF
1280	04844	CABLE-NO. 14/5C	670.00	LF
1285	04850	CABLE-NO. 14/1 PAIR	1,210.00	LF
1290	04886	MESSENGER-15400 LB	36.00	LF
1295	04895	LOOP SAW SLOT AND FILL	575.00	LF
1300	20188NS835	INSTALL LED SIGNAL-3 SECTION	8.00	EACH
1305	20266ES835	INSTALL LED SIGNAL- 4 SECTION	2.00	EACH
1310	21743NN	INSTALL PEDESTRIAN DETECTOR	2.00	EACH
1315	23235EC	INSTALL PEDESTAL POST	2.00	EACH
1320	24900EC	PVC CONDUIT-1 1/4 IN-SCHEDULE 80	60.00	LF
1325	24955ED	REMOVE SIGNAL EQUIPMENT - (7-9012.90 US 27 AT EDGEWOOD DRIVE)	1.00	EACH
1330	02568	MOBILIZATION	1.00	LS
1335	02569	DEMOBILIZATION	1.00	LS

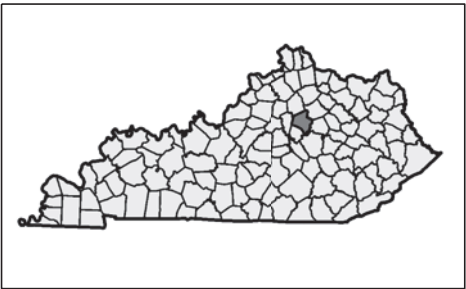
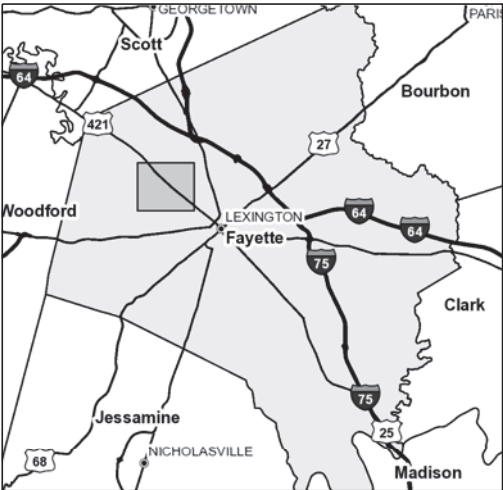
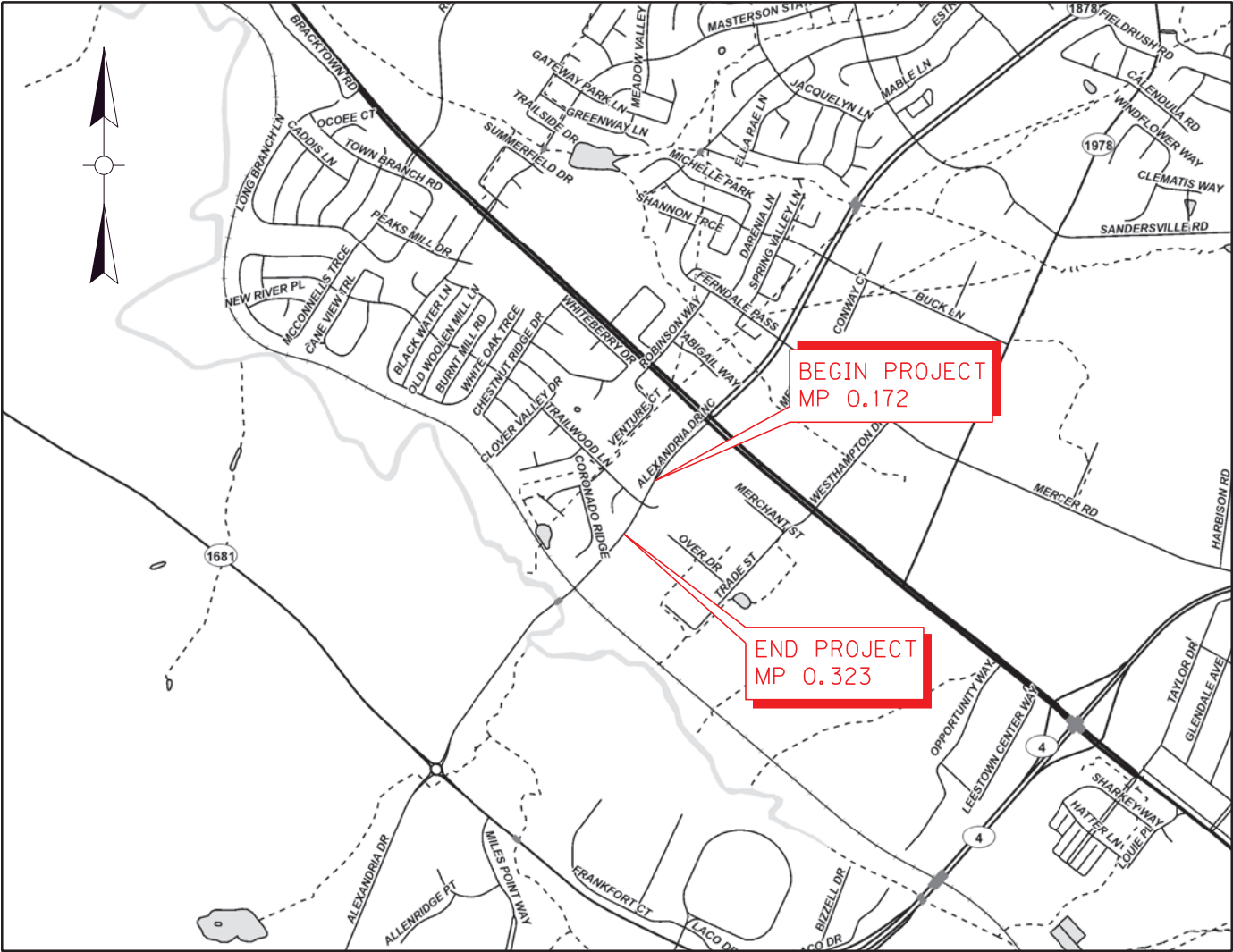


COUNTY OF	ITEM NO.
FAYETTE	07-963.00

FAYETTE COUNTY

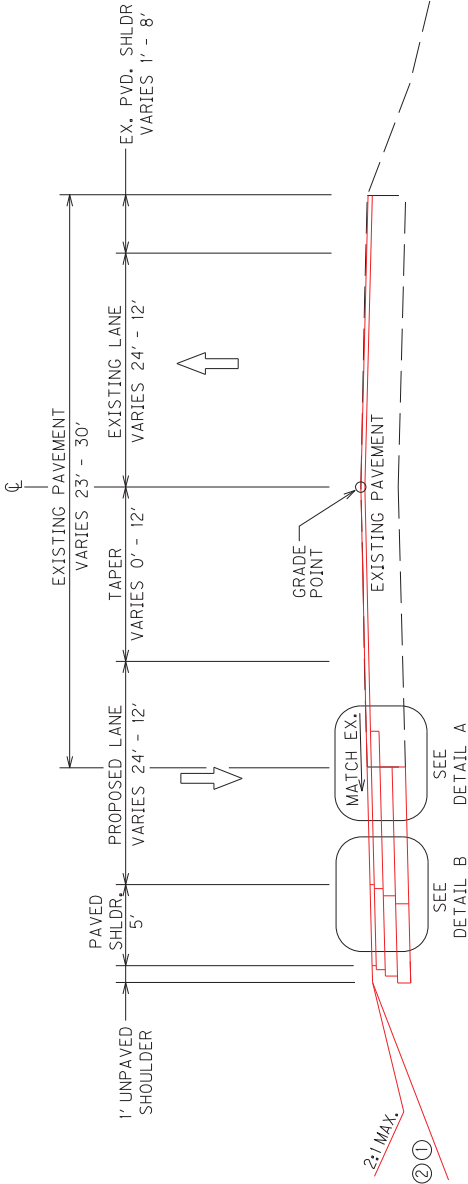
CONSTRUCT LEFT TURN LANES

ALEXANDRIA DRIVE (CS-4009) at TRAILWOOD LANE



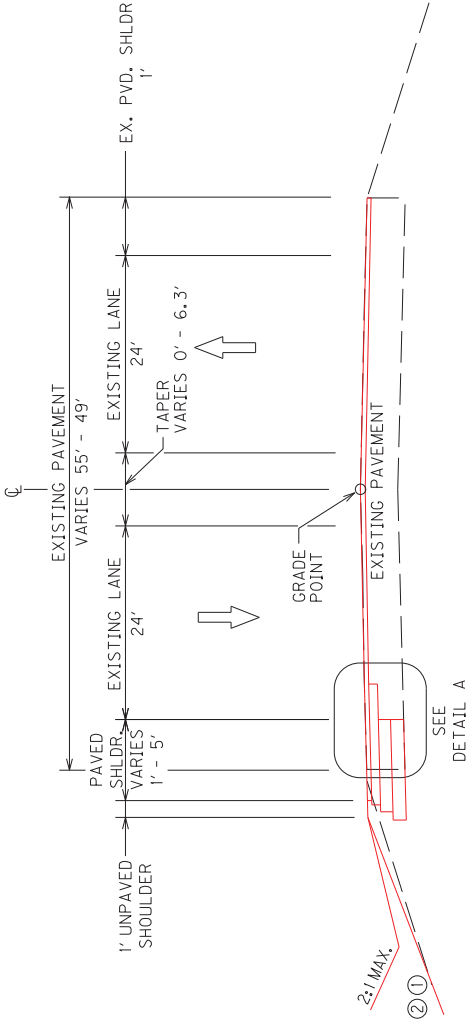


COUNTY OF	ITEM NO.
FAYETTE	07-963.00



ALEXANDRIA DRIVE – SOUTHBOUND APPROACH TAPER

STA. 10+30.63 TO STA. 13+37.11

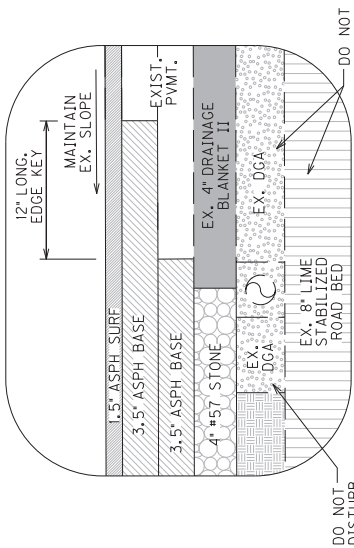


ALEXANDRIA DRIVE – SOUTHBOUND APPROACH TAPER

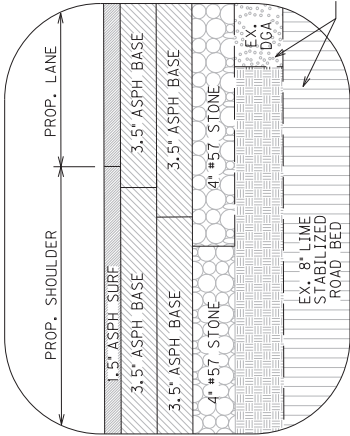
STA. 9+10.04 TO STA. 10+30.63

- ① 3:1 OR FLATTER IS DESIRABLE. LOCATIONS THAT ARE LIMITED DUE TO RIGHT-OF-WAY, UTILITY POLES, TREES, FENCES, OR OTHER SENSITIVE OBSTRUCTIONS MAY REQUIRE EMBANKMENT BUT ONLY OUT TO THE EDGE OF THE RIGHT-OF-WAY OR SENSITIVE OBSTRUCTIONS. (SLOPE MAY BE STEEPER THAN 3:1)
- ② CONSTRUCT EMBANKMENT BENCHES AS NECESSARY. SEE ROADSIDE REGRADING DETAILS.

N. T. S.



DETAIL A

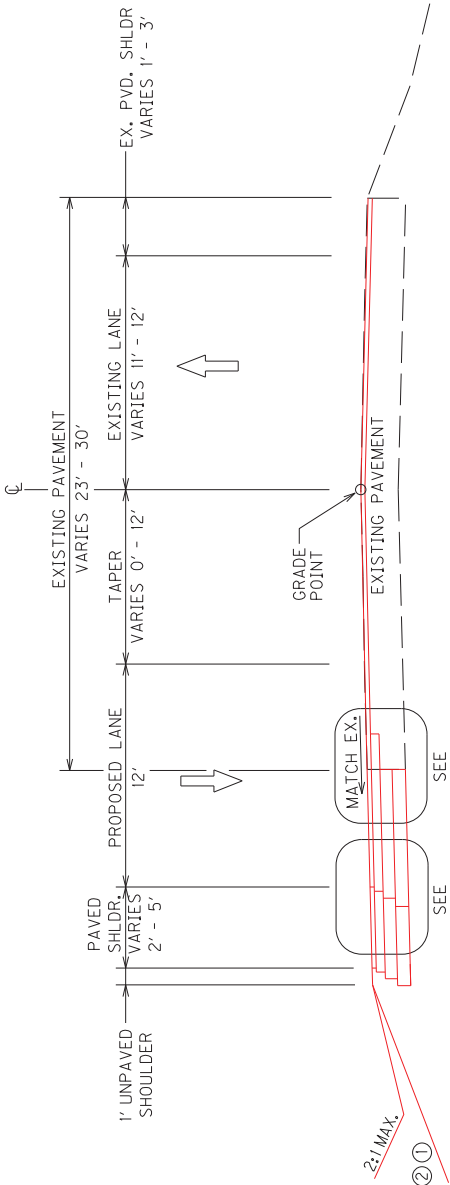


DETAIL B

ALEXANDRIA DRIVE FULL-DEPTH PAVEMENT	
1.5" SURFACE	CL2 ASPH SURF 0.38B PG64-22
11" BASE	3.5" CL2 ASPH BASE 1,00D PG64-22 3.5" CL2 ASPH BASE 1,00D PG64-22 4.0" # 57 STONE
ALEXANDRIA DRIVE SHOULDER PAVEMENT	
1.5" SURFACE	CL2 ASPH SURF 0.38B PG64-22
11" BASE	3.5" CL2 ASPH BASE 1,00D PG64-22 3.5" CL2 ASPH BASE 1,00D PG64-22 4.0" # 57 STONE

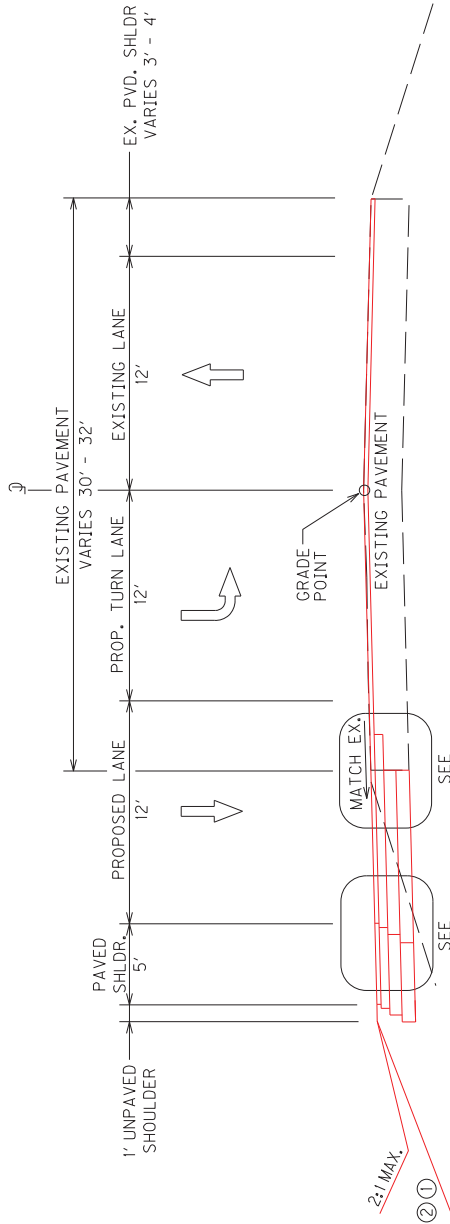
ALEXANDRIA DRIVE AT TRAILWOOD LANE  
TYPICAL SECTIONS

COUNTY OF	ITEM NO.
FAYETTE	07-963.00



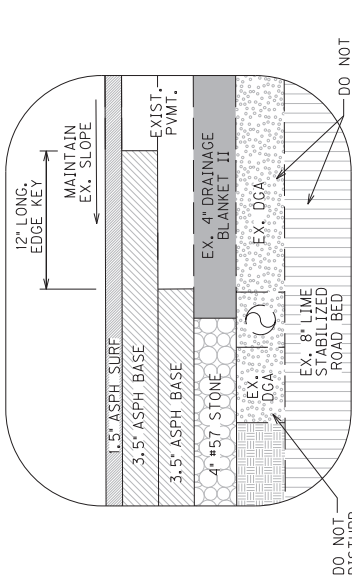
# ALEXANDRIA DRIVE – NORTHBOUND APPROACH TAPER

STA. 14+62.11 TO STA. 17+07.11

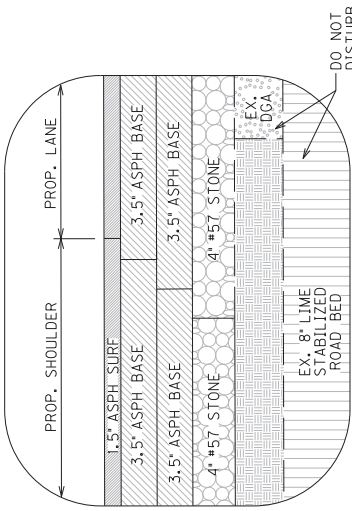


## ALEXANDRIA DRIVE - FULL-WIDTH TURN LANE

STA. 13+37.11 TO STA. 14+62.11



## DETAIL A



DETAIL B

ALEXANDRIA DRIVE FULL-DEPTH PAVEMENT

1.5' SURFACE — CL2 ASPH SURF 0.38B PG64-22

11" BASE — [ 3.5" CL2 ASPH BASE 1.00D PG64-22  
3.5" CL2 ASPH BASE 1.00D PG64-22  
4.0" # 57 STONE

ALEXANDRIA DRIVE SHOULDER PAVEMENT

1.5" SURFACE — CL2 ASPH SURF 0.38B PG64-22

11" BASE —  $\left[ \begin{array}{l} 3.5" \text{ CL2 ASPH BASE 1.00D PG64-22} \\ 3.5" \text{ CL2 ASPH BASE 1.00D PG64-22} \\ 4.0" \text{ \# 57 STONE} \end{array} \right.$

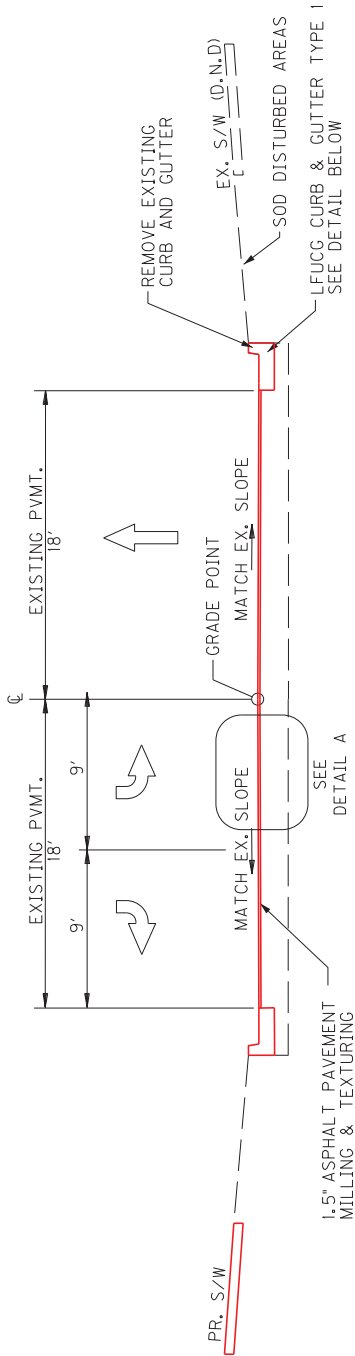
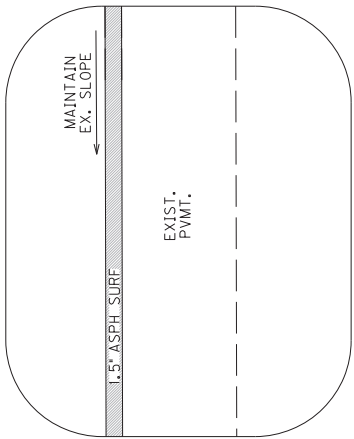
ALEXANDRIA DR & TRAILWOOD LANE  
TYPICAL SECTIONS

# STN

① 3:1 OR FLATTER IS DESIRABLE. LOCATIONS THAT ARE LIMITED DUE TO RIGHT-OF-WAY, UTILITY POLES, TREES, FENCES, OR OTHER SENSITIVE OBSTRUCTIONS MAY REQUIRE EMBANKMENT BUT ONLY OUT TO THE EDGE OF THE RIGHT-OF-WAY OR SENSITIVE OBSTRUCTIONS. (SLOPE MAY BE STEEPER THAN 3:1)

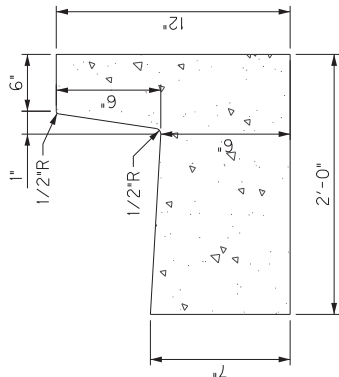
② CONSTRUCT EMBANKMENT BENCHES AS NECESSARY. SEE  
ROADSIDE REGRADE DETAILS.

COUNTY OF	ITEM NO.
HARDIN	07-963.00



TRAILWOOD LANE

TRAILWOOD LANE ASPHALT OVERLAY  
1.5\"/>



LFUGG CURB & GUTTER TYPE 1

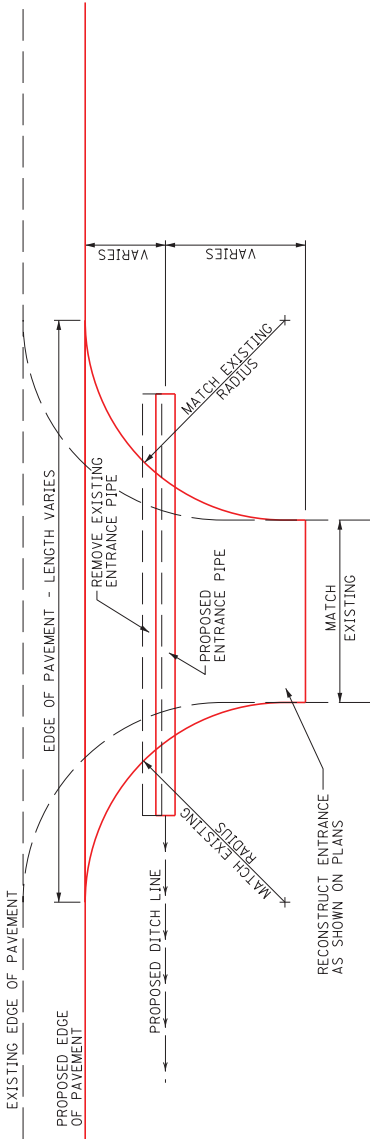
- NOTES:
1. CONCRETE SHALL BE CLASS 'A'.
  2. SAWED CONTRACTION JOINTS SHALL BE CONSTRUCTED EVERY 20 FEET, WITH A MIN. DEPTH OF 3".
  3. FULL DEPTH EXPANSION JOINTS SHALL BE CONSTRUCTED AT ALL BREAKS IN ALIGNMENT, AT CONTACT WITH NEW OR EXISTING CONCRETE, AT ALL DRAINAGE INLETS, AT THE BEGINNING AND ENDING POINTS OF CURVES, AND NOT TO EXCEED 200' MAXIMUM SPACING FOR SLIP FORM APPLICATION AND 30' MAXIMUM SPACING FOR HAND PLACED.
  4. ALL CONCRETE SHALL BE CURED WITH WHITE PIGMENTED MEMBRANE FORMING COMPOUND (AASHTO M 148, TYPE 2).
  5. WORK SHALL BE BID AS STANDARD CURB AND GUTTER (MOD) (LFUGG CURB AND GUTTER TYPE 1).

ALEXANDRIA DRIVE & TRAILWOOD LANE  
TYPICAL SECTIONS

N. T. S.

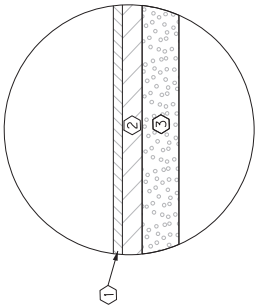
COUNTY OF	ITEM NO.
HARDIN	07-963.00

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**ENTRANCE DETAIL**

LT. STA. 16+50



**ASPHALT ENTRANCE**  
NTS

- 1 1.25' CL2 ASPH SURFACE 0.38B PG64-22
- 2 2.25' CL2 ASPH BASE 1.00D PG64-22
- 3 6.00' CSB

ALEXANDRIA DRIVE - FAYETTE COUNTY			
ITEM NO. 7-963.00			
GENERAL SUMMARY			
ITEM	DESCRIPTION	UNIT	QUANTITY
3	CRUSHED STONE BASE ①	TON	3
71	CRUSHED AGGREGATE SIZE NO 57 ①	TON	168
78	CRUSHED AGGREGATE SIZE NO 2 ⑦	TON	1
212	CL2 ASPH BASE 1.00D PG64-22 ①	TON	268
307	CL2 ASPH SURF 0.38B PG64-22 ①	TON	369
439	ENTRANCE PIPE-12 IN ②	LF	58
1000	PERFORATED PIPE-4 IN ⑦	LF	700
1010	NON-PERFORATED PIPE-4 IN ⑦	LF	15
1020	PERF PIPE HEADWALL TY 1-4 IN ⑦	LF	1
1310	REMOVE PIPE ②	LF	58
1811	STANDARD CURB AND GUTTER MOD (LFUCG CURRB AND GUTTER TYPE 1) ③	LF	87
1812	REMOVE CURB AND GUTTER ③	LF	20
2159	TEMP DITCH	LF	400
2160	CLEAN TEMP DITCH	LF	200
2200	ROADWAY EXCAVATION	CUYD	250
2569	DEMOBILIZATION	LS	1
2603	FABRIC-GEOTEXTILE CLASS 2 ⑦	SQYD	312
2650	MAINTAIN & CONTROL TRAFFIC	LS	1
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	2
2676	MOBILIZATION FOR MILL & TEXT	LS	1
2677	ASPHALT PAVE MILLING & TEXTURING ①	TON	368
2701	TEMP SILT FENCE	LF	400
2703	SILT TRAP TYPE A	EACH	1
2704	SILT TRAP TYPE B	EACH	1
2705	SILT TRAP TYPE C	EACH	1
2706	CLEAN SILT TRAP TYPE A	EACH	1
2707	CLEAN SILT TRAP TYPE B	EACH	1
2708	CLEAN SILT TRAP TYPE C	EACH	1
2720	SIDEWALK-4 IN CONCRETE ③	SQYD	21
2721	REMOVE CONCRETE SIDEWALK ③	SQYD	6
2726	STAKING	LS	1
4795	CONDUIT-2 IN	LF	400
4820	TRENCHING AND BACKFILLING	LF	400
5950	EROSION CONTROL BLANKET	SQYD	700
5952	TEMP MULCH	SQYD	1334
5953	TEMP SEED AND PROTECT	SQYD	1000
5963	INITIAL FERTILIZER	TON	0.04
5964	MAINTENANCE FERTILIZER	TON	0.06
5985	SEEDING AND PROTECTION	SQYD	974
5990	SODDING ③	SQYD	43
6510	PAVE STRIPING-TEMP PAINT-4 IN ⑧	LF	10000

- ① QUANTITY CARRIED OVER FROM PAVING SUMMARY
- ② QUANTITY CARRIED OVER FROM DRAINAGE SUMMARY
- ③ QUANTITY CARRIED OVER FROM SIDEWALK AND CURB AND GUTTER SUMMARY
- ④ QUANTITY CARRIED OVER FROM STRIPING AND PAVEMENT MARKING SUMMARY
- ⑤ QUANTITY CARRIED OVER FROM WATERBLASTING SUMMARY
- ⑥ QUANTITY CARRIED OVER FROM SIGN RELOCATION SUMMARY
- ⑦ QUANTITY TO BE USED FOR EDGE DRAINS AT DIRECTION OF ENGINEER
- ⑧ QUANTITY INCLUDED FOR USE AS DIRECTED BY ENGINEER

ALEXANDRIA DRIVE - FAYETTE COUNTY				
ITEM NO. 7-963.00				
GENERAL SUMMARY				
6542	PAVE STRIPING-THERMO-6 IN W	④	LF	1912
6543	PAVE STRIPING-THERMO-6 IN Y	④	LF	2658
6568	PAVE MARKING-THERMO STOP BAR-24IN	④	LF	19
6569	PAVE MARKING-THERMO CROSS-HATCH	④	SQFT	390
6574	PAVE MARKING-THERMO CURV ARROW	④	EACH	8
21134ND	REMOVE-STORE AND REINSTALL SIGN	⑧	EACH	2
21289ED	LONGITUDINAL EDGE KEY	①	LF	821
214E5717	PAVE MARK THERMO CONE CAP-SOLID YELLOW	④	SQFT	57
22400N	REMOVE AND RELOCATE SIGN ASSEMBLY	⑥	EACH	3
22664EN	WATER BLASTING EXISTING STRIPE	⑤	LF	148
23158E5505	DETECTABLE WARNINGS	③	SQFT	16
23261EC	PAVE MARK-THERMO-X-WALK-24 IN	④	LF	78
24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	①	TON	2.2

- ① QUANTITY CARRIED OVER FROM PAVING SUMMARY
- ② QUANTITY CARRIED OVER FROM DRAINAGE SUMMARY
- ③ QUANTITY CARRIED OVER FROM SIDEWALK AND CURB AND GUTTER SUMMARY
- ④ QUANTITY CARRIED OVER FROM STRIPING AND PAVEMENT MARKING SUMMARY
- ⑤ QUANTITY CARRIED OVER FROM WATERBLASTING SUMMARY
- ⑥ QUANTITY CARRIED OVER FROM SIGN RELOCATION SUMMARY
- ⑦ QUANTITY TO BE USED FOR EDGE DRAINS AT DIRECTION OF ENGINEER
- ⑧ QUANTITY INCLUDED FOR USE AS DIRECTED BY ENGINEER

ALEXANDRIA DRIVE - FAYETTE COUNTY			
ITEM NO. 7-963.00			
PAVING SUMMARY			
PAVING AREAS		PAVING QUANTITIES	
ITEM	TOTAL	ITEM	TOTAL
	SQYD		TON
1.5" CL2 ASPH SURF 0.38B PG64-22	4452	1.5" CL2 ASPH SURF 0.38B PG64-22	368
1.25" CL2 ASPH SURF 0.38B PG64-22 (FOR ENTRANCE)	7	1.25" CL2 ASPH SURF 0.38B PG64-22 (FOR ENTRANCE)	1
3.5" CL2 ASPH BASE 1.00D PG64-22	676	3.5" CL2 ASPH BASE 1.00D PG64-22	131
3.5" CL2 ASPH BASE 1.00D PG64-22	702	3.5" CL2 ASPH BASE 1.00D PG64-22	136
2.25" CL2 ASPH BASE 1.00D PG64-22 (FOR ENTRANCE)	7	2.25" CL2 ASPH BASE 1.00D PG64-22 (FOR ENTRANCE)	1
4.0" #57 STONE	729	4.0" #57 STONE	168
6.0" CRUSHED STONE BASE (FOR ENTRANCE)	7	6.0" CRUSHED STONE BASE (FOR ENTRANCE)	3
ASPHALT MATERIAL FOR TACK NON-TRACKING	5128	ASPHALT MATERIAL FOR TACK NON-TRACKING	2.2
ASPHALT PAVE MILLING & TEXTURING	4452	ASPHALT PAVE MILLING & TEXTURING	368
	LF		LF
LONGITUDINAL EDGE KEY	821	LONGITUDINAL EDGE KEY	821

BID ITEM	DESCRIPTION	UNIT	QUANTITY
3	CRUSHED STONE BASE	TON	3
71	CRUSHED AGGREGATE SIZE NO 57	TON	168
212	CL2 ASPH BASE 1.00D PG64-22	TON	268
307	CL2 ASPH SURF 0.38B PG64-22	TON	369
2677	ASPHALT PAVE MILLING & TEXTURING	TON	368
21289ED	LONGITUDINAL EDGE KEY	LF	821
24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	TON	2.2

\* Estimated at 110 lbs. per SQ. YD. per inch of depth

These numbers are for estimate purposes only. Final locations and quantities will be determined by the Engineer in the field.

ALEXANDRIA DRIVE - FAYETTE COUNTY ITEM NO. 7-963.00 DRAINAGE SUMMARY						
Station	Milepoint	Exising Pipe				Proposed Pipe
		Size and Type	Skew	Length	Remove Pipe (LF)	12" Entrance Pipe (LF)
16+50.0	0.313	12" RCP	90°	58	58	58

Note: These numbers are for estimate purposes only. Final locations and quantities will be determined by the Engineer in the field.

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>
439	ENTRANCE PIPE-12 IN	LF	58
1310	REMOVE PIPE	LF	58



ALEXANDRIA DRIVE - FAYETTE COUNTY ITEM NO. 7-963.00 SIDEWALK and CURB AND GUTTER SUMMARY						
Begin Station	Begin Offset	End Station	End Offset	Description	Unit	Quantity
12+87.9	30.0' RT	12+96.1	67.5' RT	STANDARD CURB AND GUTTER (MOD)	LF	40
13+34.3	74.7' RT	13+45.1	30.4' RT	STANDARD CURB AND GUTTER (MOD)	LF	47
12+95.5	58.3' RT	12+96.1	67.5' RT	REMOVE CURB AND GUTTER	LF	10
13+34.3	74.7' RT	13+33.9	65.1' RT	REMOVE CURB AND GUTTER	LF	10
12+79.7	37.2' RT	12+86.4	31.3' RT	SIDEWALK-4 IN CONCRETE	SQYD	4
13+46.7	31.6' RT	13+44.9	67.0' RT	SIDEWALK-4 IN CONCRETE	SQYD	17
12+89.5	61.6' RT	12+94.9	62.3' RT	REMOVE CONCRETE SIDEWALK	SQYD	3
13+35.1	69.2' RT	13+41.0	66.3' RT	REMOVE CONCRETE SIDEWALK	SQYD	3
12+86.2	34.2' RT	--	--	DETECTABLE WARNINGS	SQFT	8
13+46.8	34.2' RT	--	--	DETECTABLE WARNINGS	SQFT	8
NORTHWEST QUADRANT*				SODDING	SQYD	19
SOUTHWEST QUADRANT*				SODDING	SQYD	24

\*For areas disturbed by construction

Note: These numbers are for estimate purposes only. Final locations and quantities will be determined by the Engineer in the field.

Item	Description	Unit	Quantity
1811	STANDARD CURB AND GUTTER (MOD) LFUCG CURB AND GUTTER TYPE 1	LF	87
1812	REMOVE CURB AND GUTTER	LF	20
2720	SIDEWALK-4 IN CONCRETE	SQYD	21
2721	REMOVE CONCRETE SIDEWALK	SQYD	6
5990	SODDING	SQYD	43
23158E505	DETECTABLE WARNINGS	SQFT	16

ALEXANDRIA DRIVE - FAYETTE COUNTY ITEM NO. 7-963.00						
STRIPING AND PAVEMENT MARKING SUMMARY						
Begin Station	Begin Offset	End Station	End Offset	Unit	Quantity	Bid Item
9+10.	27' LT	12+81.6	24' LT	LF	371	PAVE STRIPING-THERMO-6 IN W
13+56.5	24' LT	17+07.1	12' LT	LF	354	PAVE STRIPING-THERMO-6 IN W
9+10.	27.7' RT	13+02.5	60.6' RT	LF	429	PAVE STRIPING-THERMO-6 IN W
12+95.3	211.7' RT	17+07.1	11.1' RT	LF	558	PAVE STRIPING-THERMO-6 IN W
13+05.7	163.0' RT	13+28.	40.1' RT	LF	125	PAVE STRIPING-THERMO-6 IN W
13+37.3	12' LT	14+12.3	12' LT	LF	75	PAVE STRIPING-THERMO-6 IN W
9+10.	3.4' RT	10+44.1	0'	LF	270	PAVE STRIPING-THERMO-6 IN Y
9+10.	3.4' LT	10+44.1	0'	LF	270	PAVE STRIPING-THERMO-6 IN Y
10+44.1	0'	10+89.	0'	LF	90	PAVE STRIPING-THERMO-6 IN Y
10+89.	0'	12+61.5	0'	LF	346	PAVE STRIPING-THERMO-6 IN Y
10+89.	0'	12+61.5	12' LT	LF	346	PAVE STRIPING-THERMO-6 IN Y
13+37.3	0'	14+12.3	0'	LF	150	PAVE STRIPING-THERMO-6 IN Y
14+12.3	0'	17+07.1	0'	LF	590	PAVE STRIPING-THERMO-6 IN Y
14+12.3	0'	17+07.1	0'	LF	596	PAVE STRIPING-THERMO-6 IN Y
13+19.1	38.8' RT	13+37.4	41.4' RT	LF	19	PAVE MARKING-THERMO STOP BAR-24 IN
12+91.8	28.5' RT	13+41.8	28.5' RT	LF	78	PAVE MARKING-THERMO-X-WALK-24 IN
14+12.3	0'	17+07.1	0'	SQFT	210	PAVE MARKING-THERMO CROSS-HATCH
10+89.	0'	12+61.5	0'	SQFT	180	PAVE MARKING-THERMO CROSS-HATCH
13+02.9	162.4' RT	--	--	EA	1	PAVE MARKING-THERMO CURV ARROW
13+08.5	163.6' RT	--	--	EA	1	PAVE MARKING-THERMO CURV ARROW
13+11.9	121.0' RT	--	--	EA	1	PAVE MARKING-THERMO CURV ARROW
13+17.4	122.2' RT	--	--	EA	1	PAVE MARKING-THERMO CURV ARROW
13+19.1	79.2' RT	--	--	EA	1	PAVE MARKING-THERMO CURV ARROW
13+24.7	80.0' RT	--	--	EA	1	PAVE MARKING-THERMO CURV ARROW
13+77.3	6' LT	--	--	EA	1	PAVE MARKING-THERMO CURV ARROW
14+12.3	6' LT	--	--	EA	1	PAVE MARKING-THERMO CURV ARROW
12+61.5	6' LT	--	--	SQFT	57	PAVE MARK THERMO CONE CAP-SOLID YELLOW
						Yellow cone cap

Note: These numbers are for estimate purposes only. Final locations and quantities will be determined by the Engineer in the field.

Item	Description	Unit	Quantity
6542	PAVE STRIPING-THERMO-6 IN W	LF	1912
6543	PAVE STRIPING-THERMO-6 IN Y	LF	2658
6568	PAVE MARKING-THERMO STOP BAR-24 IN	LF	19
6569	PAVE MARKING-THERMO CROSS-HATCH	SQFT	390
6574	PAVE MARKING-THERMO CURV ARROW	EACH	8
23261EC	PAVE MARK-THERMO-X-WALK-24 IN	LF	78
21417ES717	PAVE MARK THERMO CONE CAP-SOLID YELLOW	SQFT	57

ALEXANDRIA DRIVE - FAYETTE COUNTY ITEM NO. 7-963.00 WATERBLASTING SUMMARY						
Begin Station	Begin Offset	End Station	End Offset	Unit	Quantity	Bid Item
12+95.3	211.7' RT	13+26.1	68.1' RT	LF	148	WATER BLASTING EXISTING STRIPE
						Description
						White edgeline

Note: These numbers are for estimate purposes only. Final locations and quantities will be determined by the Engineer in the field.

Item	Description	Unit	Quantity
22664EN	WATER BLASTING EXISTING STRIPE	LF	148

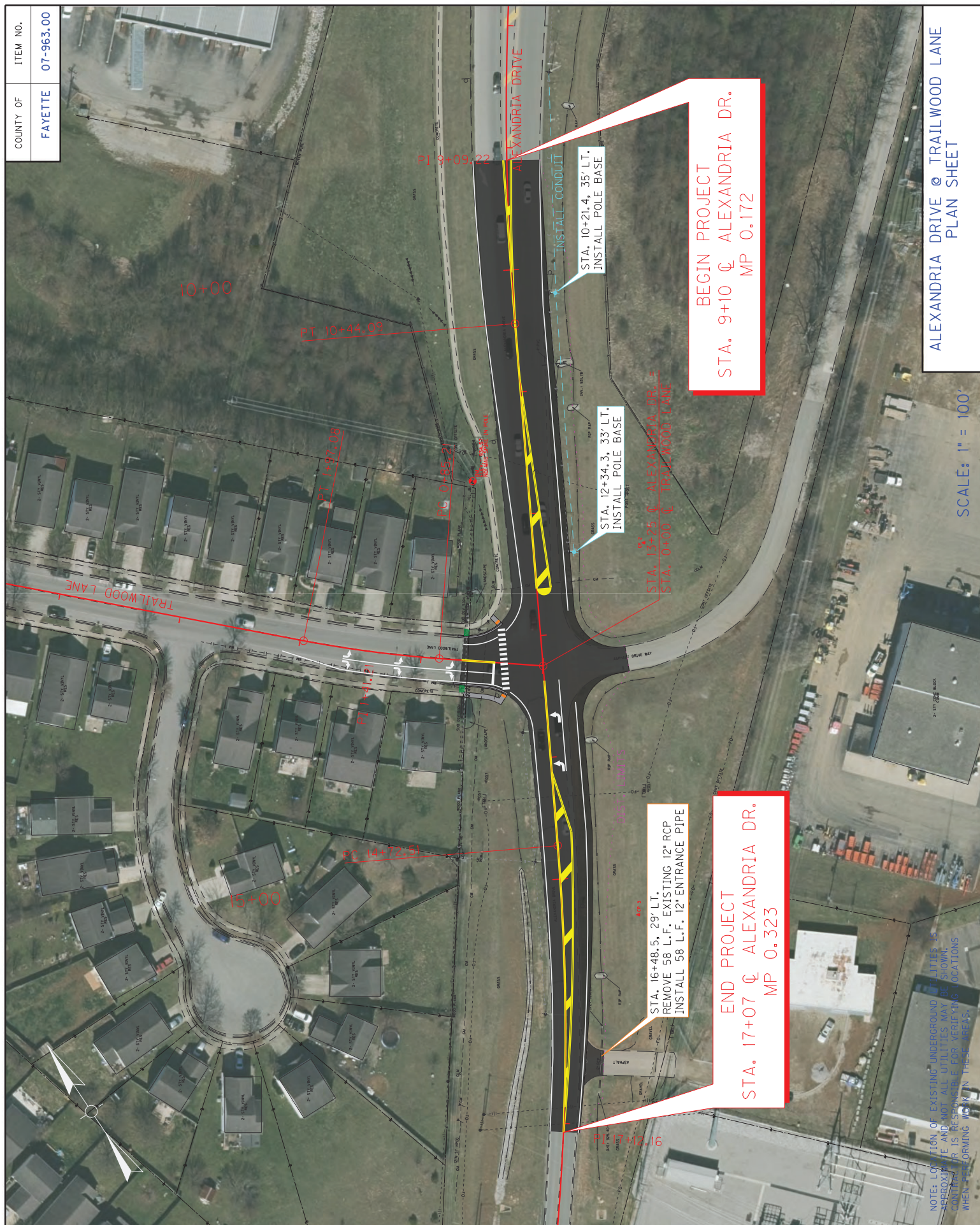
ALEXANDRIA DRIVE - FAYETTE COUNTY ITEM NO. 7-963.00 SIGN RELOCATION SUMMARY											
Side of Road	From			To			Facing Traffic Traveling	Item	Unit	Quantity	Description
	Approx. Station	Approx. Mile Point	Approx. Offset	Approx. Station	Approx. Mile Point	Approx. Offset					
LT	10+05	0.190	31	10+05	0.190	36	NB	REMOVE & RELOCATE SIGNS	EACH	1	Divided Highway assembly
LT	13+02	0.247	35	13+02	0.247	46	WB	REMOVE & RELOCATE SIGNS	EACH	1	Stop sign
LT	15+24	0.289	17	15+24	0.289	32	NB	REMOVE & RELOCATE SIGNS	EACH	1	Intersection Warning assembly

Note: These numbers are for estimate purposes only. Final locations and quantities will be determined by the Engineer in the field.

Item	Description	Quantity	Unit
22400NN	REMOVE AND RELOCATE SIGN ASSEMBLY	3	EACH

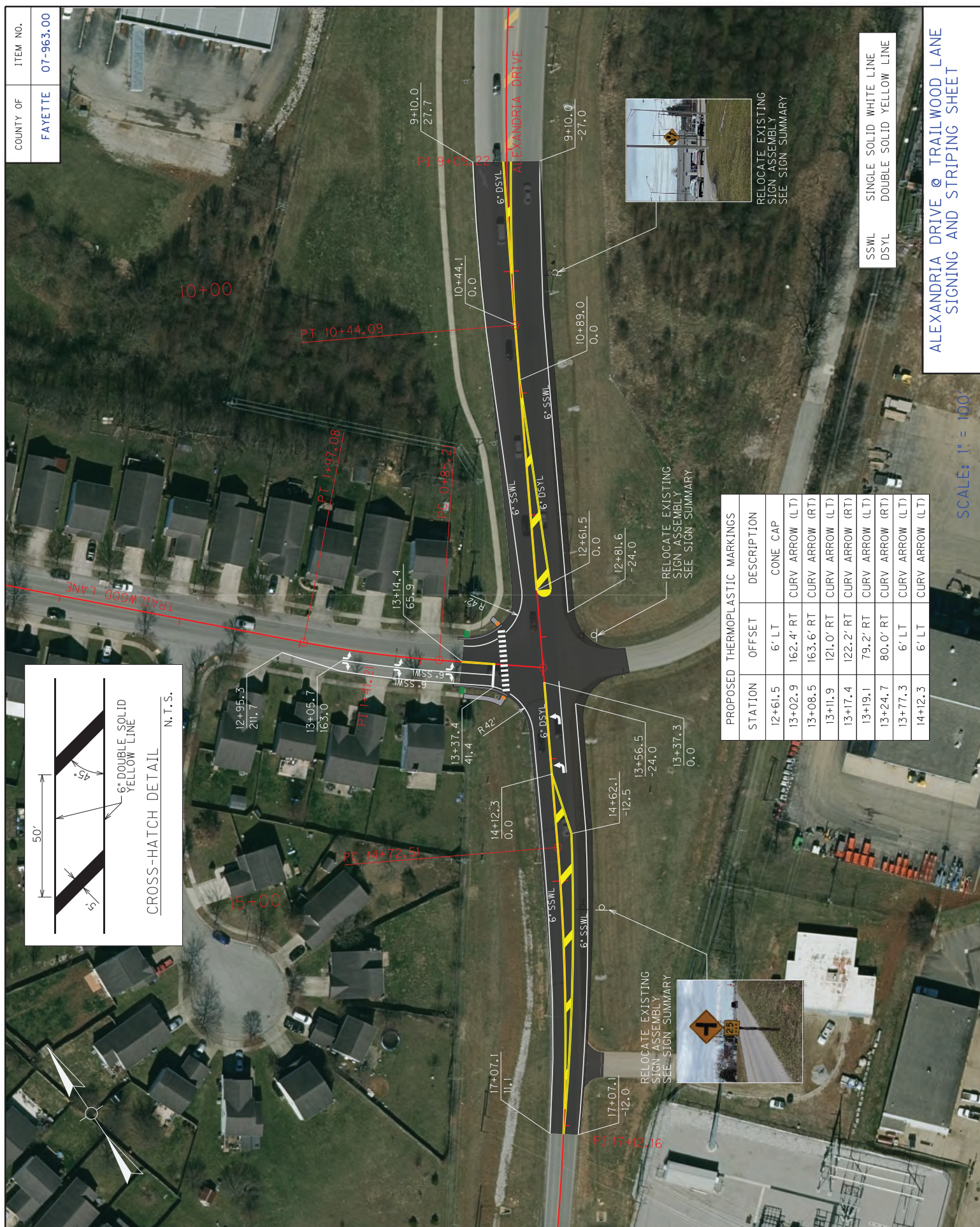


COUNTY OF	ITEM NO.
FAYETTE	07-963.00



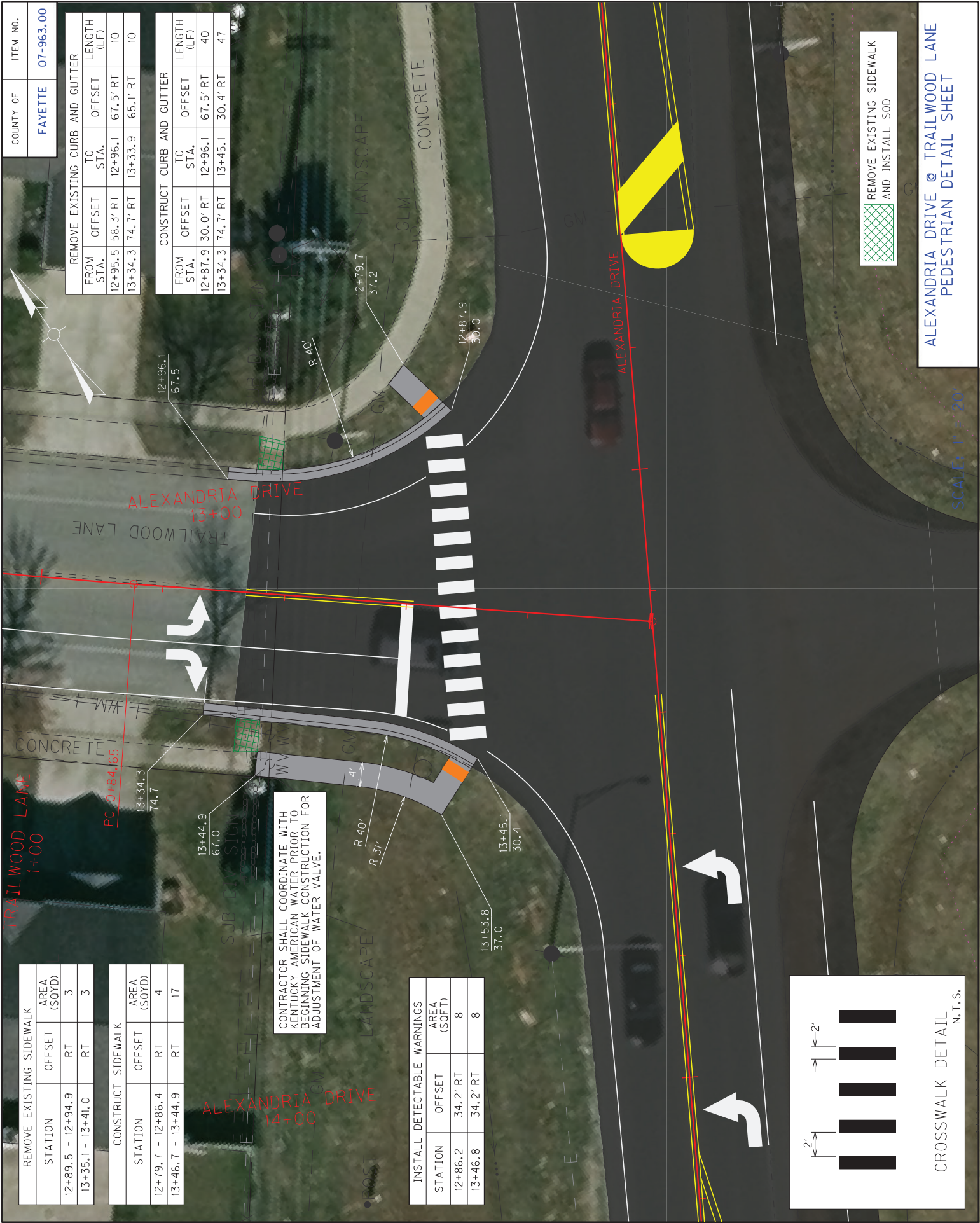


COUNTY OF	ITEM NO.
FAYETTE	07-963.00

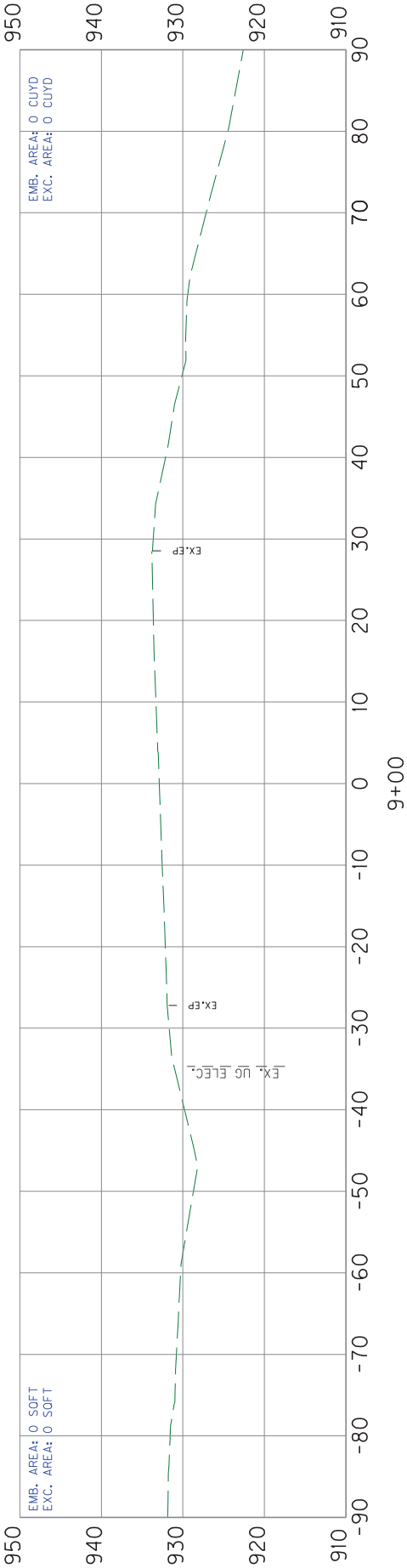
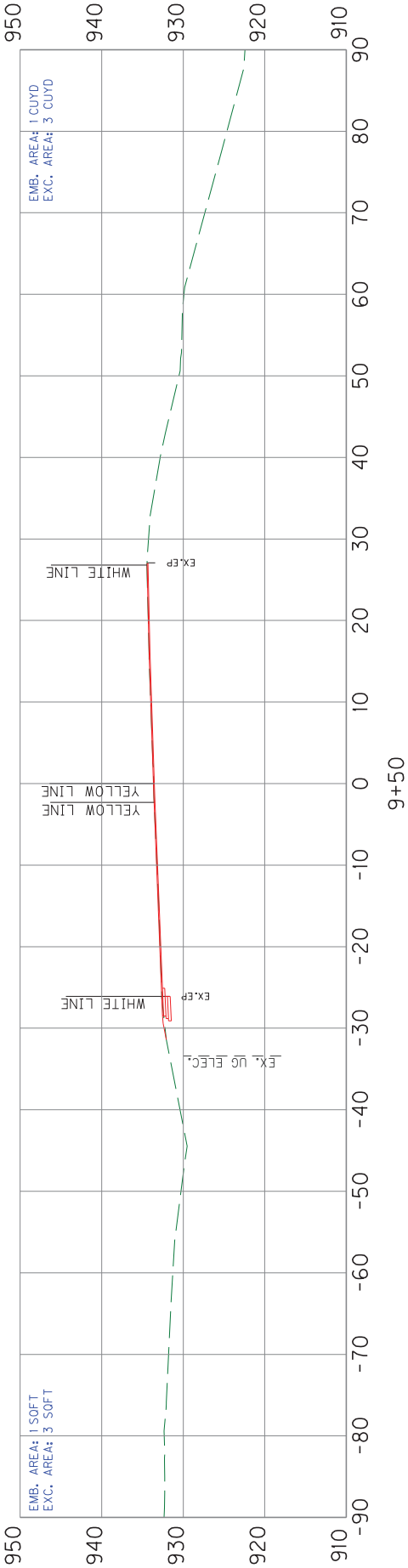


SCALE: 1" = 100'





COUNTY OF	ITEM NO.
FAYETTE	07-963.00

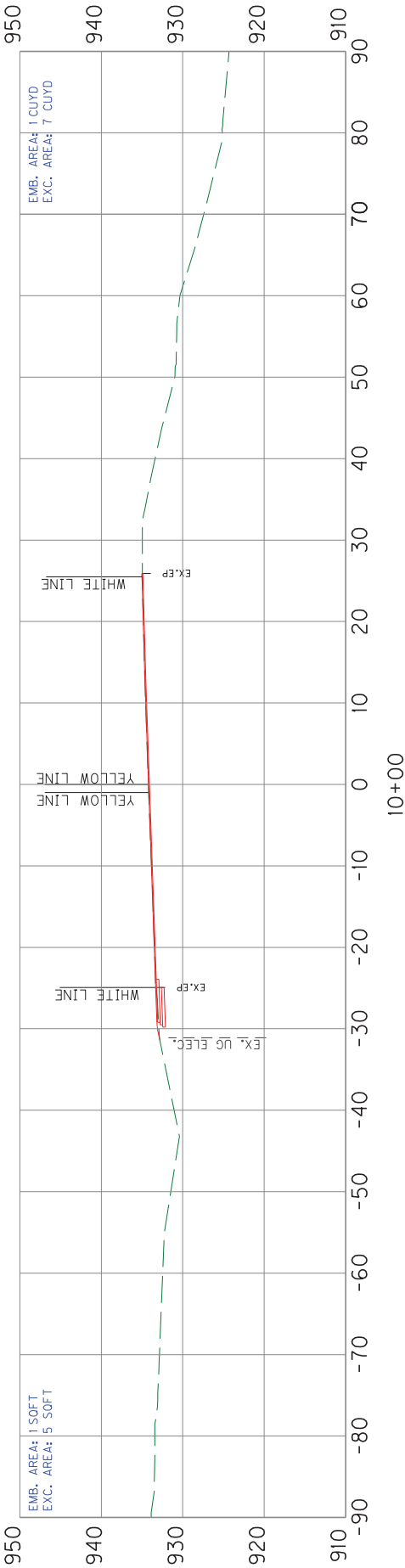
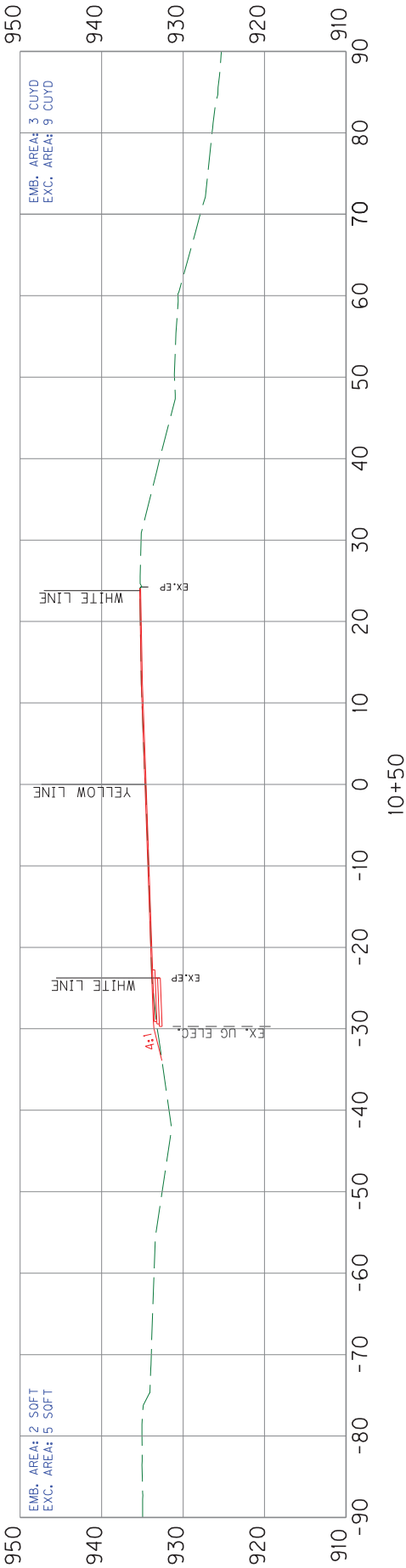


ALEXANDRIA DRIVE @ TRAILWOOD LANE  
LEFT TURN LANE  
CROSS-SECTION SHEET 1

SCALE: 1" = 20'



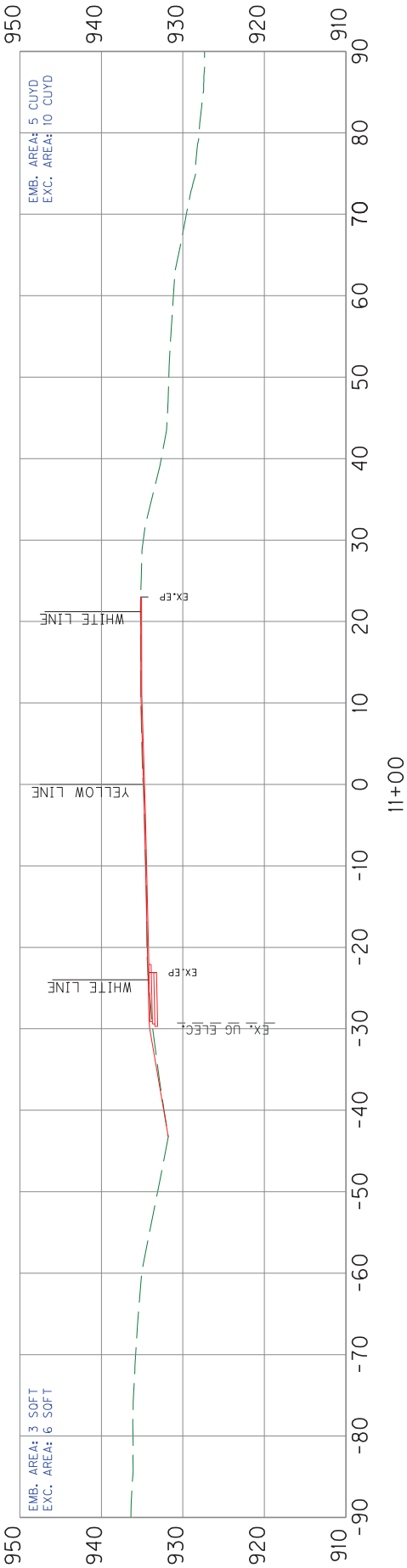
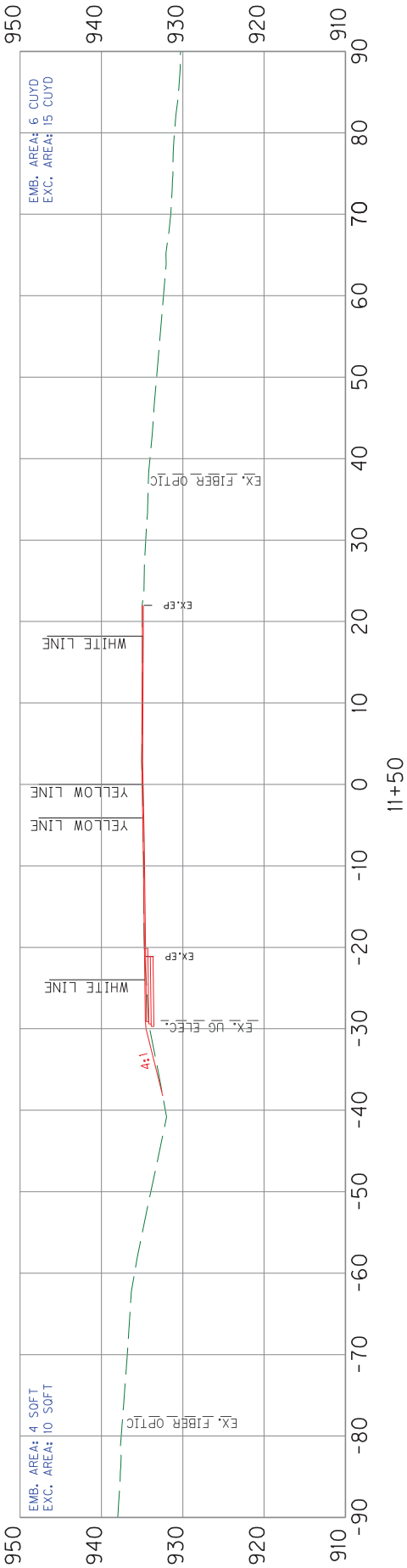
COUNTY OF	ITEM NO.
FAYETTE	07-963.00



ALEXANDRIA DRIVE @ TRAILWOOD LANE  
LEFT TURN LANE  
CROSS-SECTION SHEET 2

SCALE: 1" = 20'

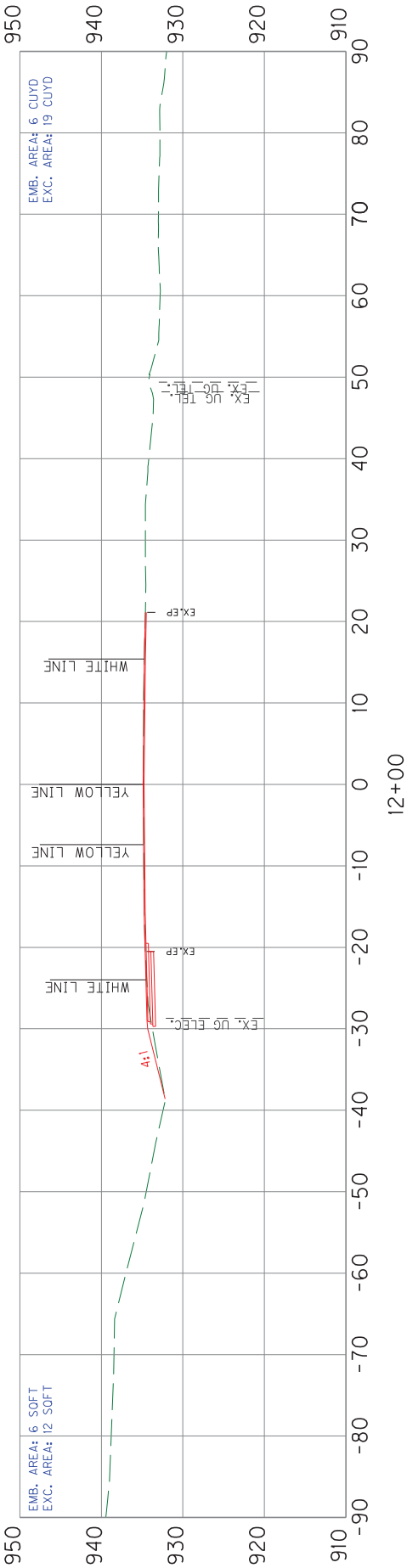
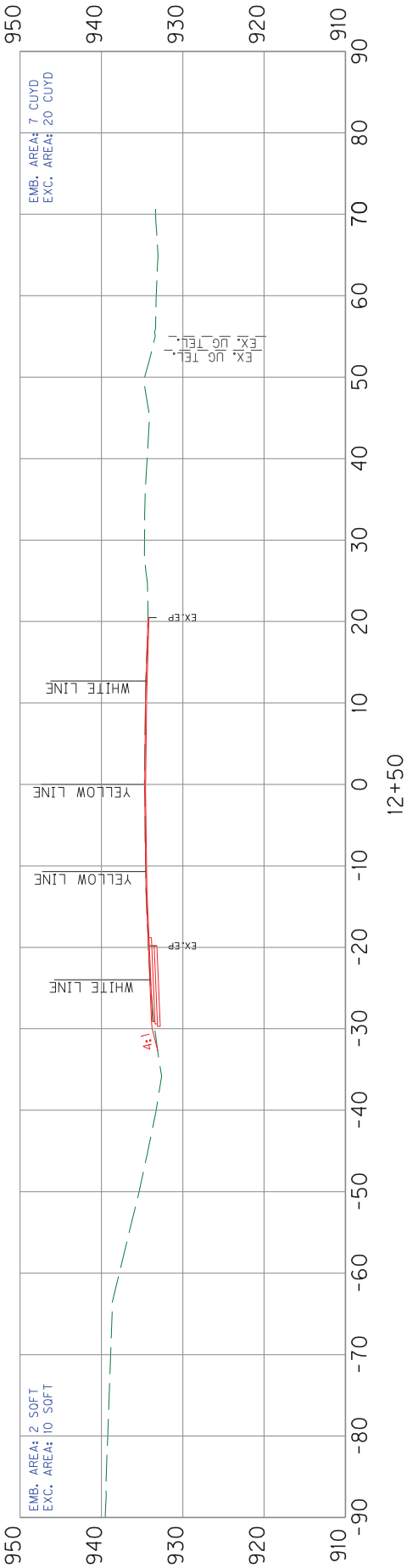
COUNTY OF	ITEM NO.
FAYETTE	07-963.00



ALEXANDRIA DRIVE @ TRAILWOOD LANE  
LEFT TURN LANE  
CROSS-SECTION SHEET 3

SCALE: 1" = 20'

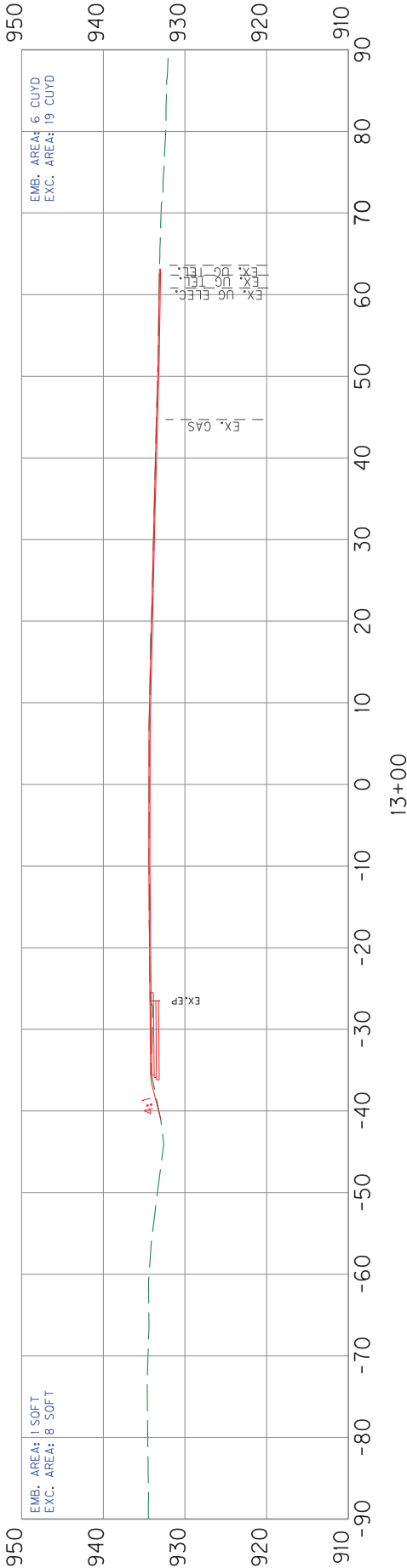
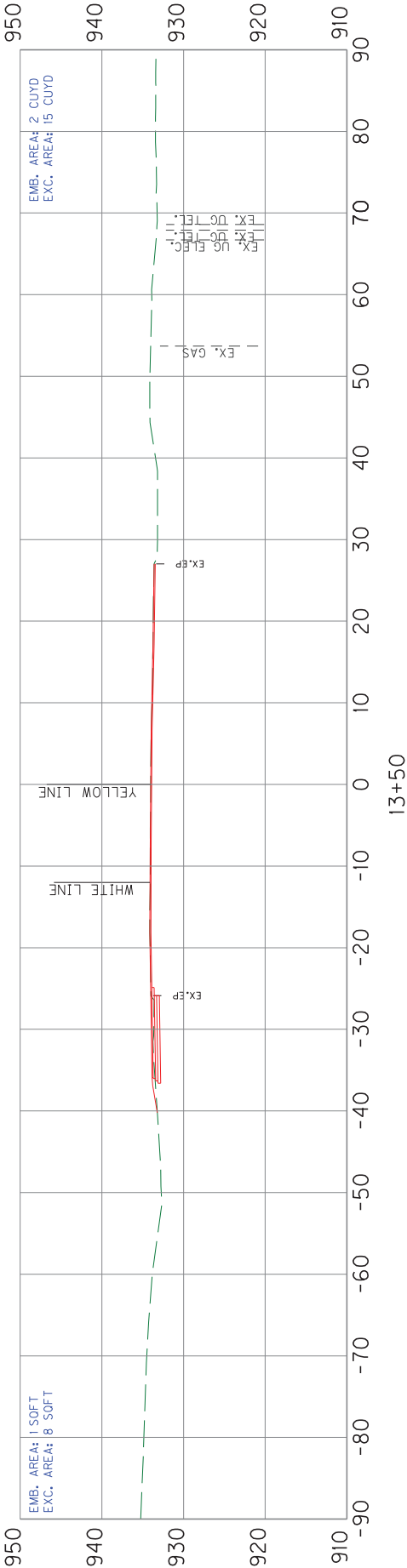
COUNTY OF	ITEM NO.
FAYETTE	07-963.00



ALEXANDRIA DRIVE @ TRAILWOOD LANE  
LEFT TURN LANE  
CROSS-SECTION SHEET 4

SCALE: 1" = 20'

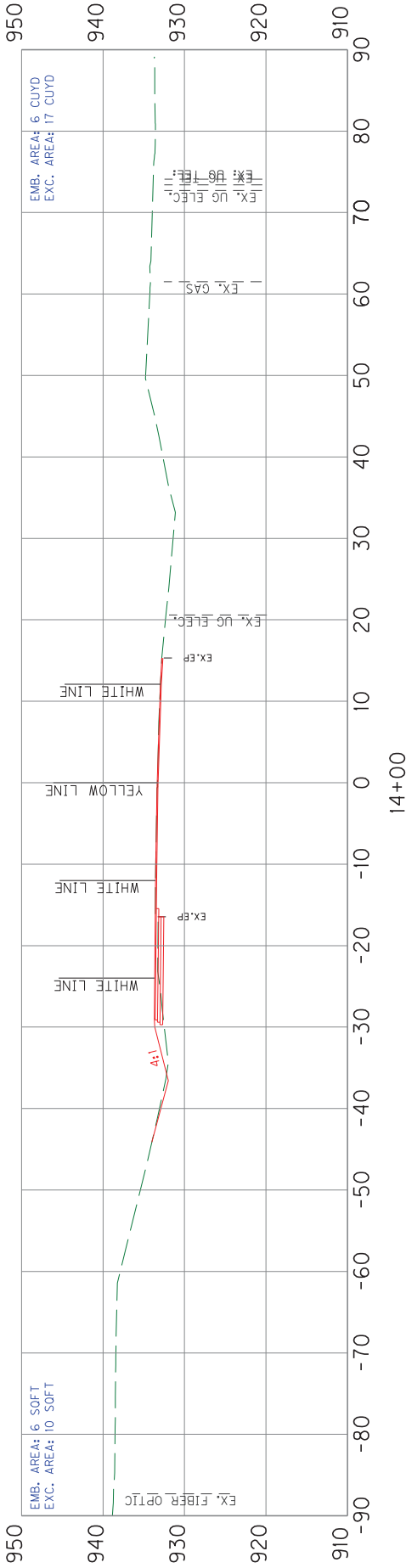
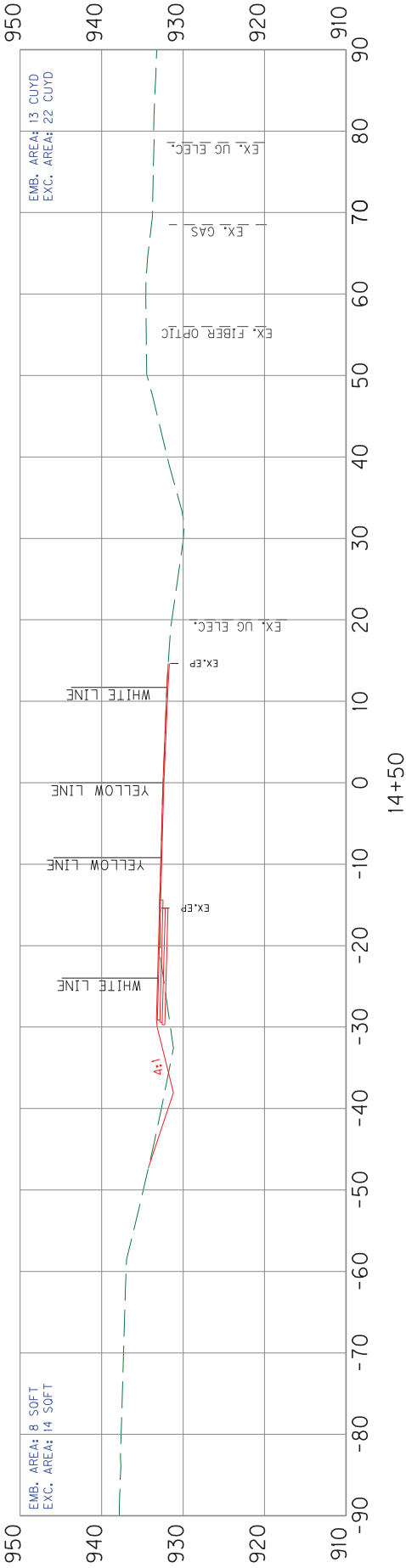
COUNTY OF	ITEM NO.
FAYETTE	07-963.00



ALEXANDRIA DRIVE @ TRAILWOOD LANE  
LEFT TURN LANE  
CROSS-SECTION SHEET 5

SCALE: 1" = 20'

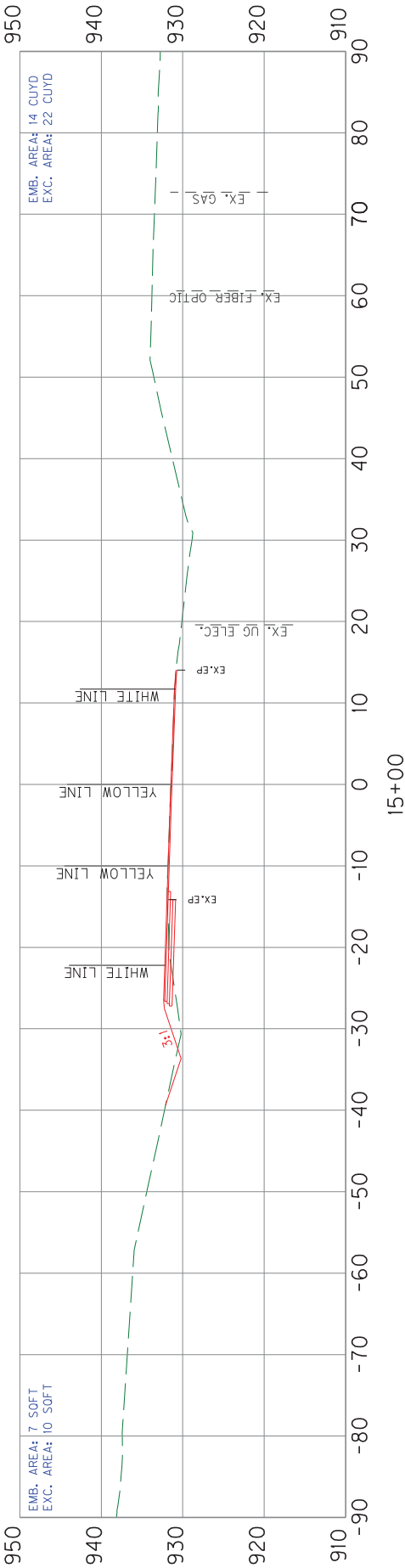
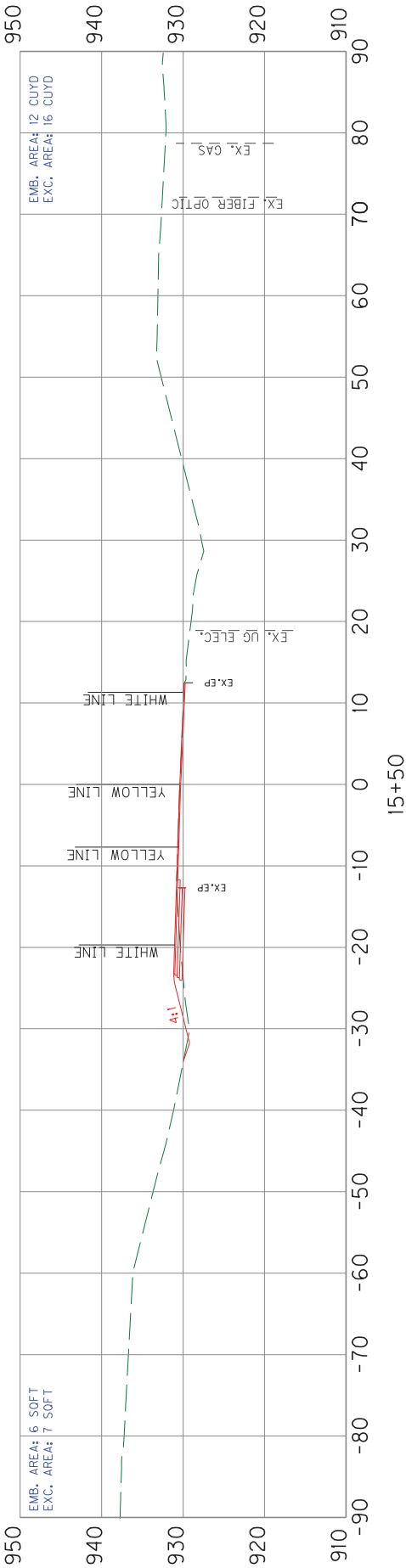
COUNTY OF	ITEM NO.
FAYETTE	07-963.00



ALEXANDRIA DRIVE @ TRAILWOOD LANE  
LEFT TURN LANE  
CROSS-SECTION SHEET 6

SCALE: 1" = 20'

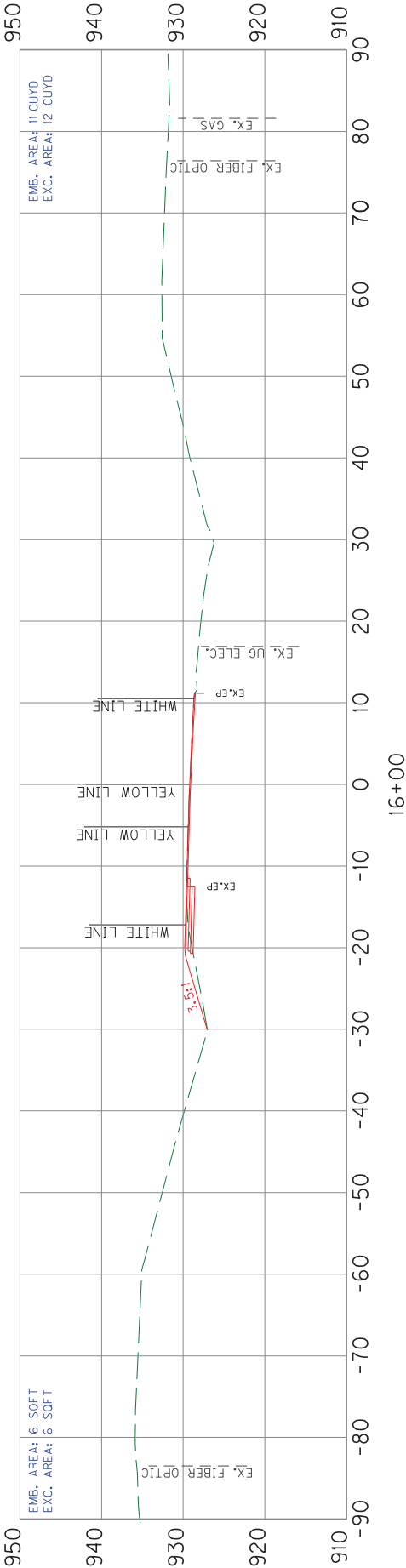
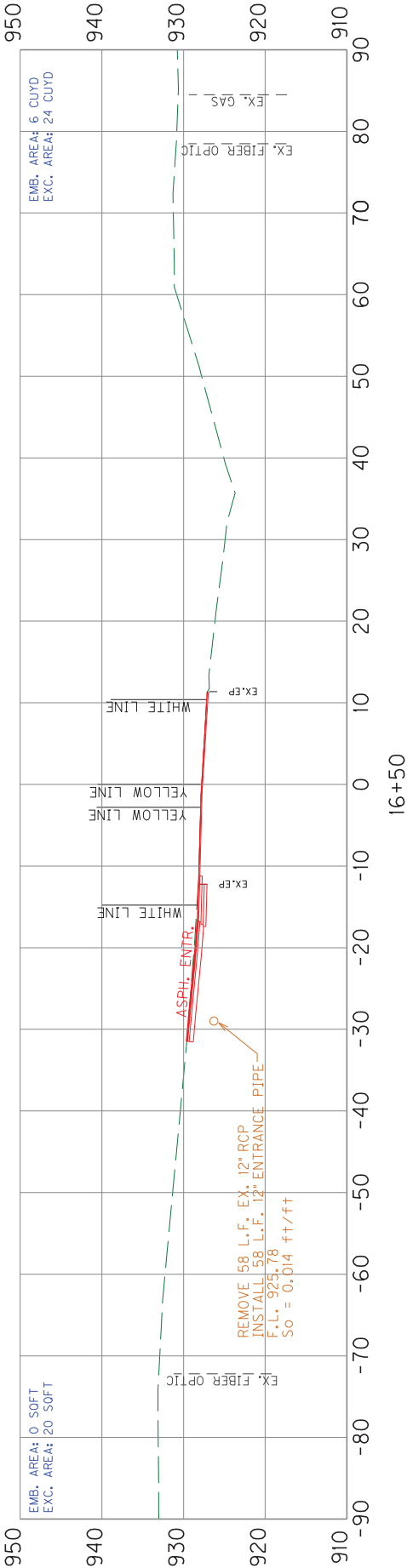
COUNTY OF	ITEM NO.
FAYETTE	07-963.00



ALEXANDRIA DRIVE @ TRAILWOOD LANE  
LEFT TURN LANE  
CROSS-SECTION SHEET 7

SCALE: 1" = 20'

COUNTY OF	ITEM NO.
FAYETTE	07-963.00



ALEXANDRIA DRIVE @ TRAILWOOD LANE  
LEFT TURN LANE  
CROSS-SECTION SHEET 8

SCALE: 1" = 20'

STA. 17+07  
END CONSTRUCTION

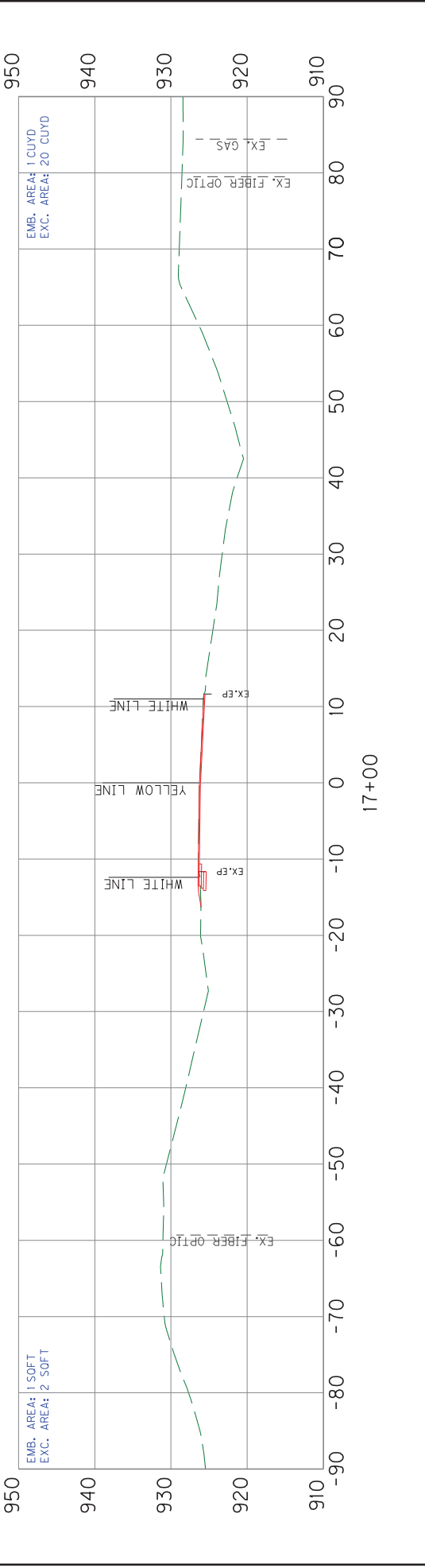
EMB. AREA: 0 SOFT  
EXC. AREA: 0 SOFT

EMB. AREA: 0 CUYD  
EXC. AREA: 0 CUYD

EX. FIBER OPTIC

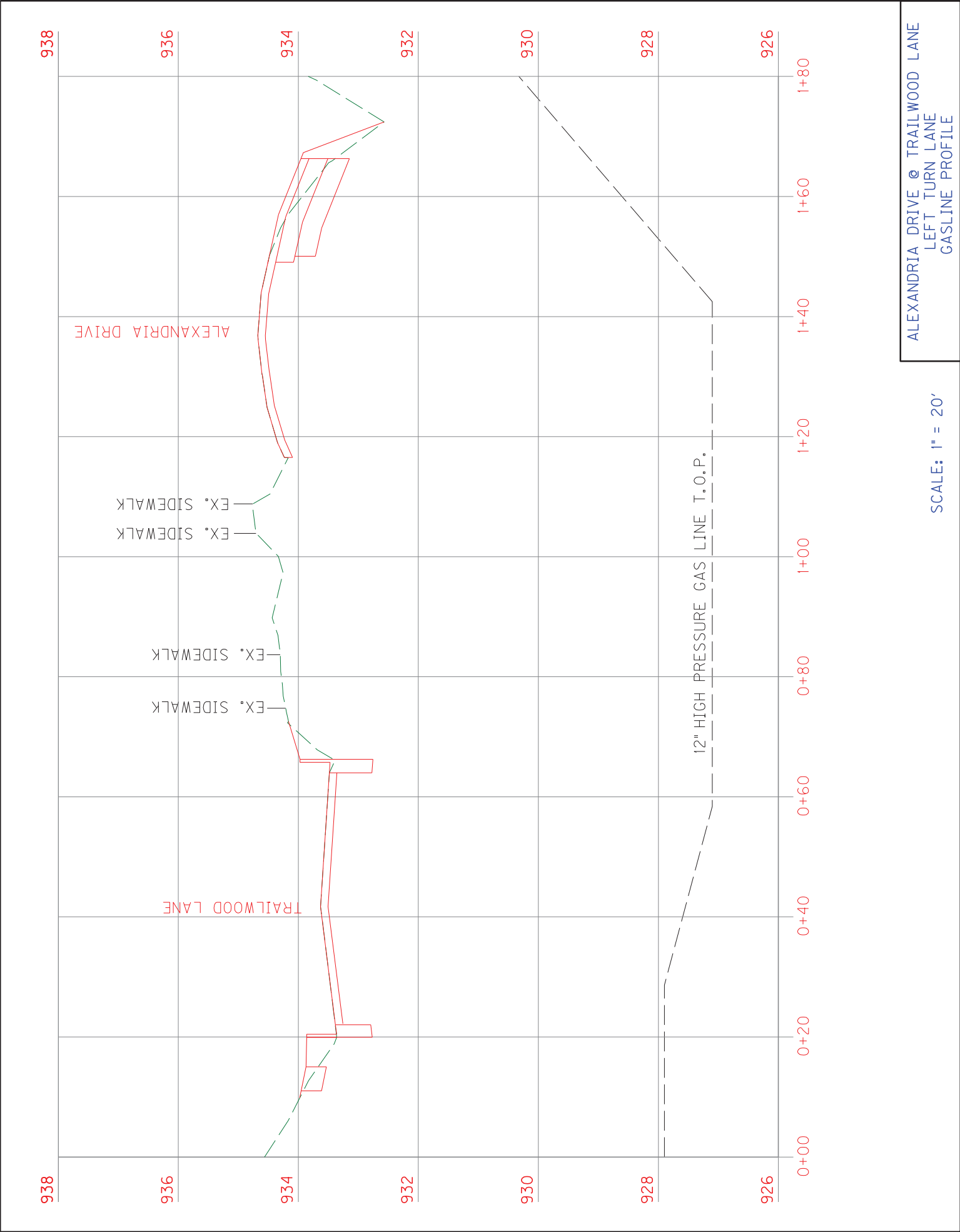
EX. GAS

17+50

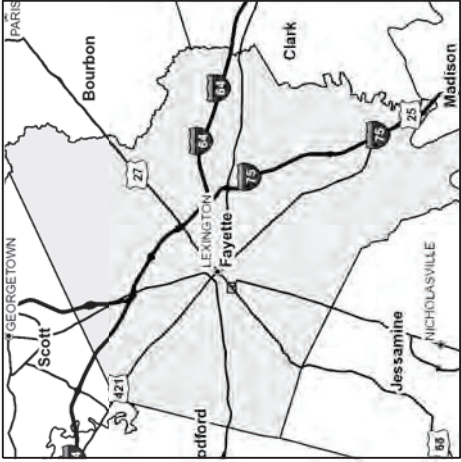
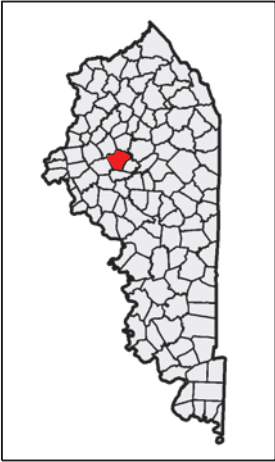
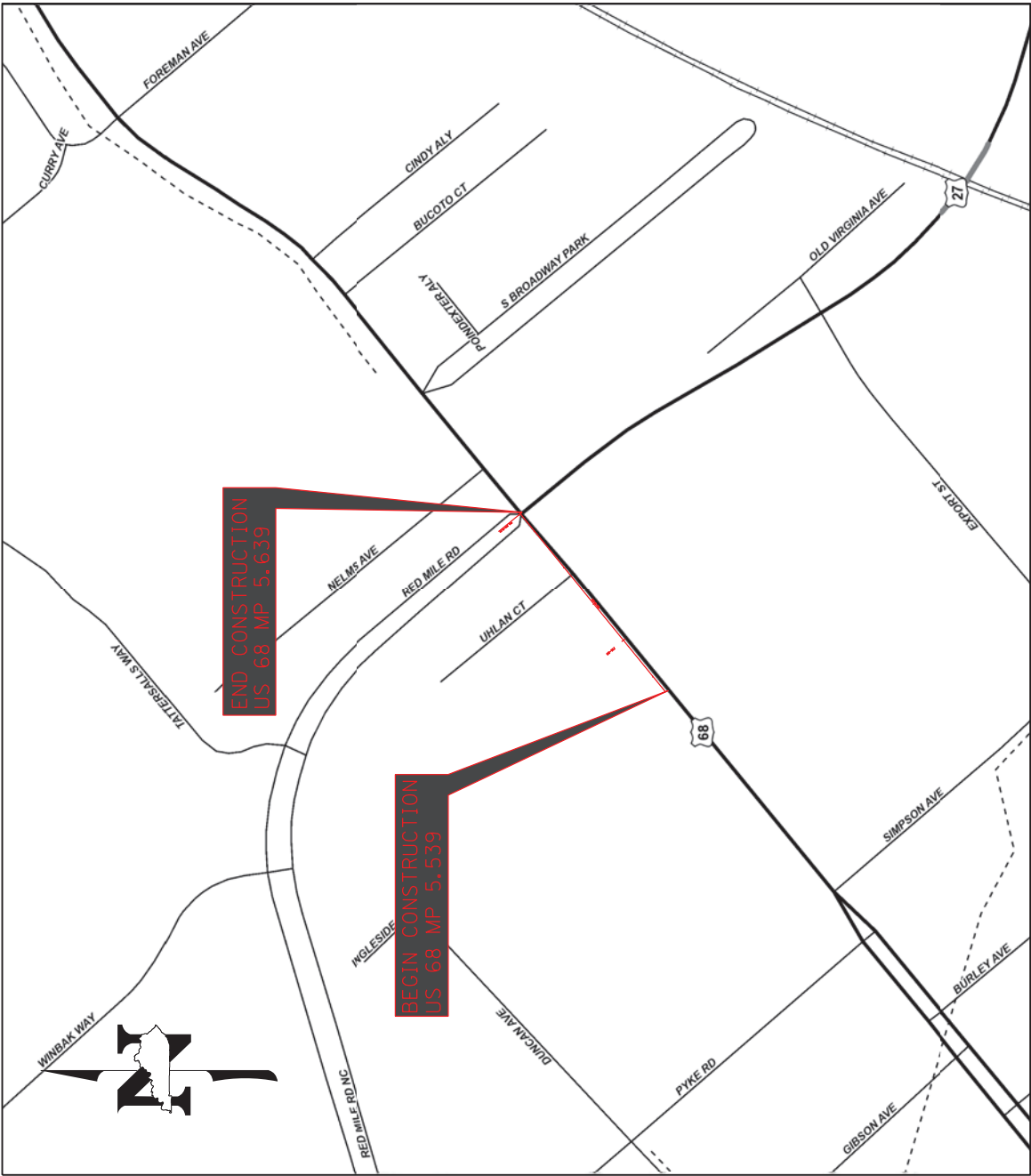


SCALE: 1" = 20'





COUNTY OF	ITEM NO.
FAYETTE	7-967.00



Commonwealth of Kentucky  
DEPARTMENT OF HIGHWAYS

PLANS OF  
PROPOSED PROJECT  
**FAYETTE COUNTY**  
US 68 (S BROADWAY)



FAYETTE COUNTY US 68 (S BROADWAY) - MP 5.53 TO MP 5.64 GENERAL SUMMARY			
ITEM NUMBER	ITEM	UNIT	QUANTITY
1	DGA BASE (1)	TON	86
212	CL2 ASPH BASE 1.00D PG64-22 (1)	TON	109
307	CL2 ASPH SURF 0.38B PG64-22 (1)	TON	112
1650	JUNCTION BOX	EACH	1
1812	REMOVE CURB AND GUTTER (1)	LF	362
2159	TEMPORARY DITCH	LF	375
2160	CLEAN TEMPORARY DITCH	LF	188
2200	ROADWAY EXCAVATION (1)	CUYD	174
2562	TEMPORARY SIGNS	SQFT	150
2569	DEMOBILIZATION	LS	1
2650	MAINTAIN & CONTROL TRAFFIC	LS	1
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	2
2676	MOBILIZATION FOR MILL & TEXT	LS	1
2677	ASPHALT PAVE MILLING & TEXTURING (1)	TON	112
2701	TEMPORARY SILT FENCE	LF	375
2703	SILT TRAP TYPE A	EACH	1
2704	SILT TRAP TYPE B	EACH	1
2705	SILT TRAP TYPE C	EACH	1
2706	CLEAN SILT TRAP TYPE A	EACH	1
2707	CLEAN SILT TRAP TYPE B	EACH	1
2708	CLEAN SILT TRAP TYPE C	EACH	1
2719	SIDEWALK-4 1/2 IN CONCRETE (1)	SQYD	67
2721	REMOVE CONCRETE SIDEWALK (1)	SQYD	91
2726	STAKING	LS	1
2775	ARROW PANEL	EACH	1
5952	TEMPORARY MULCH	SQYD	1,291
5953	TEMP SEEDING AND PROTECTION	SQYD	968
5963	INITIAL FERTILIZER	TON	0.06
5964	MAINTENANCE FERTILIZER	TON	0.10
5985	SEEDING AND PROTECTION	SQYD	1,936
5990	SODDING	SQYD	83
5992	AGRICULTURAL LIMESTONE	TON	1.20
6542	PAVE STRIPING-THERMO-6 IN W (2)	LF	223.25
6543	PAVE STRIPING-THERMO-6 IN Y (2)	LF	935.00
6568	PAVE MARKING-THERMO STOP BAR-24IN (2)	LF	33
6574	PAVE MARKING-THERMO CURV ARROW (2)	EACH	6
14020	W FIRE HYDRANT RELOCATE	EACH	1
20550ND	SAWCUT PAVEMENT (1)	LF	372
22400NN	REMOVE AND RELOCATE SIGN ASSEMBLY	EACH	1
22664EN	WATER BLASTING EXISTING STRIPE (2)	LF	106
24576EN	LFUCG CURB AND GUTTER TYPE I (MOD) (1)	LF	362
24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING (1)	TON	1.2
26119EC	INSTALL RADAR PRESENCE DETECTOR TYPE A	EACH	4
(1) CARRIED OVER FROM THE PAVING SUMMARY			
(2) CARRIED OVER FROM THE STRIPING AND PAVEMENT MARKING SUMMARY			

FAYETTE COUNTY US 68 (S BROADWAY) MP 5.53 - MP 5.64 PAVING SUMMARY			
PAVING AREAS		PAVING QUANTITIES	
ITEM	TOTAL	ITEM	TOTAL
FULL DEPTH PAVEMENT			
	SQYD		TON
1.50" CL2 ASPH BASE 1.00D PG64-22	268	CL2 ASPH BASE 1.00D PG64-22	23
3.25" CL2 ASPH BASE 1.00D PG64-22	268	CL2 ASPH BASE 1.00D PG64-22	48
3.25" CL2 ASPH BASE 1.00D PG64-22	207	CL2 ASPH BASE 1.00D PG64-22	38
4.50" DGA BASE	207	DGA BASE	54
ASPHALT MATERIAL FOR TACK NON-TRACKING	268	ASPHALT MATERIAL FOR TACK NON-TRACKING	0.6
	LF		
REMOVE CURB AND GUTTER	362		
	SQYD		
REMOVE CONCRETE SIDEWALK	91		
	LF		
SAWCUT PAVEMENT	372		
	CUYD		
ROADWAY EXCAVATION	92		
RESURFACE			
	SQYD		TON
1.50" CL2 ASPH SURF 0.38B PG64-22	1,346	CL2 ASPH SURF 0.38B PG64-22	112
ASPHALT MATERIAL FOR TACK NON-TRACKING	1,346	ASPHALT MATERIAL FOR TACK NON-TRACKING	0.6
1.50" ASPHALT PAVE MILLING & TEXTURING	1,346	ASPHALT PAVE MILLING & TEXTURING	112
CURB AND GUTTER			
	LF		
LFUCG CURB AND GUTTER TYPE I (MOD)	362		
	SQYD		TON
4.50" DGA BASE	121	DGA BASE	32
	CUYD		
ROADWAY EXCAVATION	62		
SIDEWALK			
	SQYD		
SIDEWALK-4 1/2 IN CONCRETE	67		
	CUYD		
ROADWAY EXCAVATION	20		
PAVING SUMMARY			
CODE	ITEM	UNITS	PROJECT TOTAL
1	DGA BASE	TON	86
212	CL2 ASPH BASE 1.00D PG64-22	TON	109
307	CL2 ASPH SURF 0.38B PG64-22	TON	112
1812	REMOVE CURB AND GUTTER	LF	362
2200	ROADWAY EXCAVATION	CUYD	174
2677	ASPHALT PAVE MILLING & TEXTURING	TON	112
2719	SIDEWALK-4 1/2 INCH CONCRETE	SQYD	67
2721	REMOVE CONCRETE SIDEWALK	SQYD	91
20550ND	SAWCUT PAVEMENT	LF	372
24576EN	LFUCG CURB AND GUTTER TYPE I (MOD)	LF	362
24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	TON	1.2
NOTES: ASPHALT estimated at 110 lbs. per SQ. YD. per inch of depth DGA Base estimated at 115 lbs. per SQ. YD. per inch of depth			

FATETTE COUNTY US 68 (S BROADWAY) STRIPING / PAVEMENT MARKING SUMMARY					
PROPOSED STRIPING					
BEGIN		END		LENGTH	LF
STATION	OFFSET	STATION	OFFSET		
US 68 (S Broadway)					
6" Double Solid Yellow Line (PAVE STRIPING-THERMO-6 IN Y)					
293+82	6.2' RT	294+34	6.1' RT	52	104
296+60	3.8' LT	297+93	4.8' LT	133	266
6" Solid and Dashed Yellow Line (PAVE STRIPING-THERMO-6 IN Y)					
294+34	6.1' RT	296+60	5.8' RT	226	282.50
294+34	4.2' LT	296+60	3.8' LT	226	282.50
6" Single Dashed White Line (PAVE STRIPING-THERMO-6 IN W)					
293+82	16.5' RT	297+43	19.7' RT	361	90.25
6" Single Solid White Line (PAVE STRIPING-THERMO-6 IN W)					
297+10	6.4' RT	297+93	6.3' RT	83	83
297+43	16.7' RT	297+93	16.6' RT	50	50

PAVE MARKING-THERMO STOP BAR-24IN			
STATION	OFFSET	DESCRIPTION	LF
US 68 (S Broadway) EB at Virginia Ave			
297+93	4.8' LT to 27.8' RT	24" STOP BAR	33

PAVEMENT MARKING - THERMO ARROWS				
STATION	OFFSET	DESCRIPTION	EACH	
294+64	2' RT	TWO WAY LEFT TURN LANE ARROW	LEFT ARROW	1
294+80	2' RT	TWO WAY LEFT TURN LANE ARROW	LEFT ARROW	1
296+06	2' RT	TWO WAY LEFT TURN LANE ARROW	LEFT ARROW	1
296+22	2' RT	TWO WAY LEFT TURN LANE ARROW	LEFT ARROW	1
US 68 (S Broadway) Left Turn Lane				
297+12	2' RT	LEFT TURN LANE	LEFT ARROW	1
297+68	2' RT	LEFT TURN LANE	LEFT ARROW	1

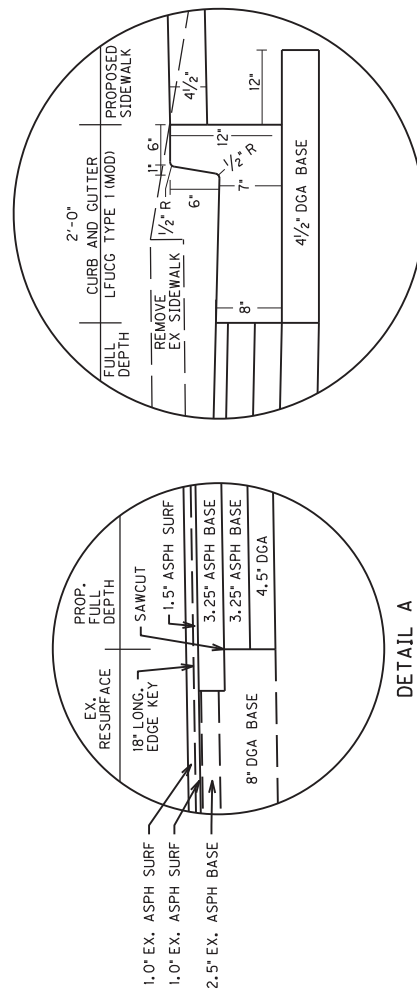
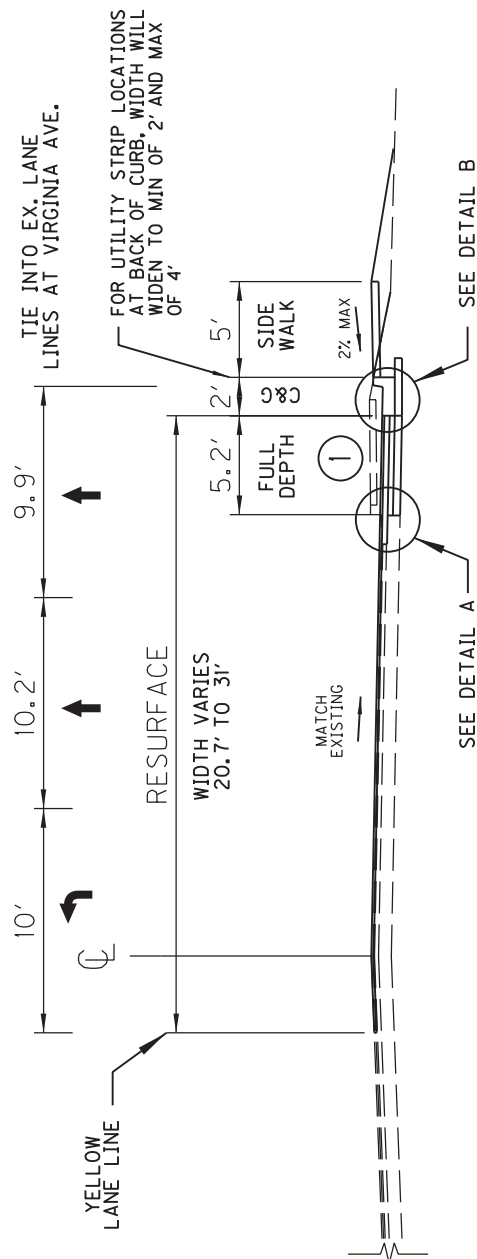
WATER BLASTING					
BEGIN		END		LENGTH	LF
STATION	OFFSET	STATION	OFFSET		
KY 1865 NORTHBOUND					
Existing Double Solid Yellow Line (WATER BLASTING EXISTING STRIPE)					
293+82	6.2' RT	294+34	4.2' LT	53	106

STRIPING / PAVEMENT MARKING SUMMARY			
BID ITEM	DESCRIPTION	UNIT	QUANTITY
6542	PAVE STRIPING-THERMO-6 IN W	LF	223.25
6543	PAVE STRIPING-THERMO-6 IN Y	LF	935.00
6568	PAVE MARKING-THERMO STOP BAR-24IN	LF	33
6574	PAVE MARKING-THERMO CURV ARROW	EACH	6
22664EN	WATER BLASTING EXISTING STRIPE	LF	106

# TYPICAL SECTIONS

PLACE ASPH BASE UP TO EXISTING PAVEMENT SURFACE. COMPACT ASPHALT BASE. ALLOW ASPHALT BASE TO CURE MINIMUM OF 14 CALENDAR DAYS. ONCE ENGINEER DETERMINES FULL DEPTH PAVEMENT HAS SUFFICIENTLY STABILIZED, BEGIN RESURFACING OPERATIONS.

RESURFACE: STA. 293 + 82 TO STA. 297 + 95  
 FULL DEPTH: STA. 294 + 19 TO STA. 297 + 81  
 CURB & GUTTER: STA. 294 + 19 TO STA. 297 + 81  
 SIDEWALK: STA. 294 + 19 TO STA. 295 + 37



US 68 (S BROADWAY) RESURFACE

	1.5" MILL	1.50" ASPHALT PAVE MILLING & TEXTURING
1.5" SURF	1.50" CL2 ASPH SURF	0.38B PG64-22

US 68 (S BROADWAY) FULL DEPTH PAVEMENT

1.5" SURF	1.50" CL2	ASPH	SURF	0.38B	PG64-22
11.0" BASE	3.25" CL2	ASPH	BASE	1.00D	PG64-22
	3.25" CL2	ASPH	BASE	1.00D	PG64-22
	4.50" DGA	BASE			

PROPOSED SIDEWALK

4.5" CONC — SIDEWALK - 4 1/2 INCH CONCRETE

DETAIL B

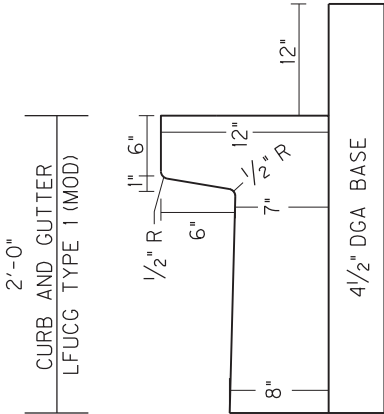
SCALE: NTS

US 68 (S BROADWAY)  
MP 5.539 - MP 5.639  
TYPICAL SECTIONS

COUNTY OF	ITEM NO.
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**CURB & GUTTER DETAIL:**  
**STA. 294+19 TO STA. 297+81**

NOTE: REFER TO LEXINGTON DIVISION OF  
ENGINEERING STANDARD DRAWINGS AND  
SPECIFICATIONS FOR MORE INFORMATION.



## NOTES:

1. CONCRETE SHALL BE KDOT CLASS "A".
2. SAWED CONSTRUCTION JOINTS SHALL BE CONSTRUCTED EVERY 20 FEET, WITH A MIN. DEPTH OF 3" IN ACCORDANCE WITH KDOT STANDARD SPECIFICATION.
3. ALL CURB & GUTTER SHOULD BE CONSTRUCTED ON COMPACTED SUBGRADE OR DGA.
4. FULL DEPTH EXPANSION JOINTS SHALL BE CONSTRUCTED AT ALL BREAKS IN ALIGNMENT, AT CONTACT WITH NEW OR EXISTING CONCRETE, AT ALL DRAINAGE INLETS, AT THE BEGINNING AND ENDING POINTS OF CURVES, AND NOT TO EXCEED 200' MAXIMUM SPACING FOR SLIP FORM APPLICATION AND 30' MAXIMUM SPACING FOR HAND PLACED.
5. ALL CONCRETE SHALL BE CURED WITH WHITE PIGMENTED MEMBRANE FORMING COMPOUND (AASHTO M 148, TYPE 2).

SCALE: NTS

US 68 (S BROADWAY)  
MP 5.539 - MP 5.639  
CURB & GUTTER DETAILS

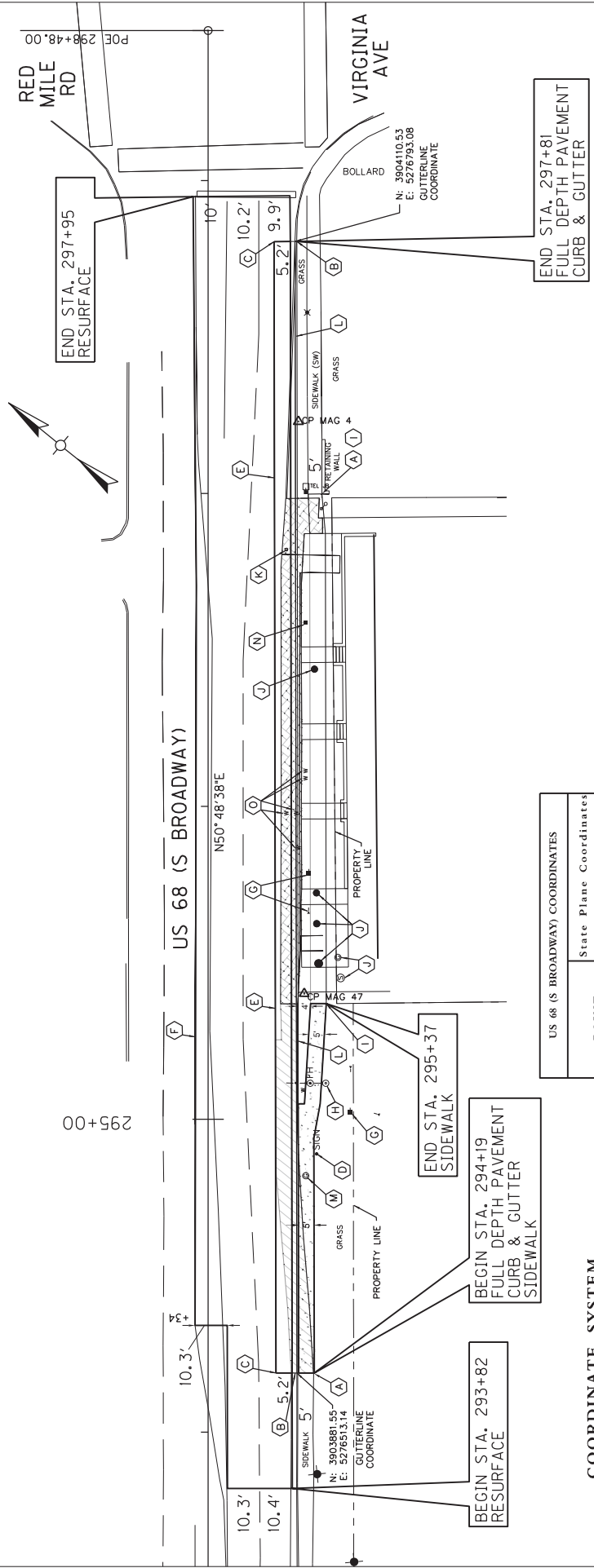
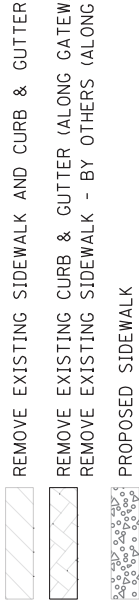
COUNTY OF	FAYETTE
ITEM NO.	7-967.00

GENERAL NOTES

1. ALL CONSTRUCTION MUST CONFORM TO LFUGG AND STATE OF KENTUCKY STANDARDS.
2. NO GRADING, STRIPPING, EXCAVATION, FILLING OR OTHER DISTURBANCE OF THE NATURAL GROUND COVER SHALL TAKE PLACE PRIOR TO AUTHORIZATION BY LFUGG.
3. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE PROJECT DOCUMENTS.
4. ALL SURVEY INFORMATION IS RELATIVE TO KENTUCKY STATE PLANE GRID, SINGLE ZONE NAD 83.
5. NO SIDEWALKS SHALL BE OVER 5% OR HAVE MORE THAN A 2% CROSS SLOPE.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING OF ALL EXCAVATIONS AS NEEDED FOR CONSTRUCTION. PROPER EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AS NEEDED.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED MAINTENANCE OF TRAFFIC OPERATIONS NEEDED TO CONSTRUCT THIS PROJECT. CONTRACTOR SHALL COMPLY WITH ALL LFUGG AND KYTC REQUIREMENTS. SEE TRAFFIC CONTROL PLAN FOR ADDITIONAL INFORMATION.

PLAN NOTES

- (A) TIE PROPOSED SIDEWALK INTO EXISTING SIDEWALK
- (B) TIE PROPOSED CURB & GUTTER INTO EXISTING CURB & GUTTER
- (C) SAWCUT EXISTING PAVEMENT, REMOVE EX CURB
- (D) REMOVE AND RELOCATE CITY WAYFINDING SIGN ASSEMBLY 5' BEHIND PROPOSED SIDEWALK. SEE DETAIL SHEETS.
- (E) FULL DEPTH PAVEMENT, SAWCUT, LONGITUDINAL EDGE KEY, ROADWAY EXCAVATION
- (F) RESURFACE LIMIT (ALONG YELLOW STRIPE) - MILL AND INLAY
- (G) DO NOT DISTURB. COORDINATE WITH UTILITY COMPANY TO WORK AROUND POWER POLES AND GUY WIRES.
- (H) RELOCATE FIRE HYDRANT (SEE DETAIL)
- (I) SIDEWALK ADJACENT TO LOFTS CONSTRUCTION - BY OTHERS
- (J) DO NOT DISTURB EXISTING UTILITIES
- (K) REMOVE NYOPLAST YARD INLET, REPLACE WITH JUNCTION BOX
- (L) PROPOSED CURB AND GUTTER. SEE DETAILS.
- (M) UTILITY TO ADJUST TO GRADE. COORDINATE WITH GAS. SEE UTILITY SHEET.
- (N) DO NOT DISTURB. ANCHOR FOR POWER POLE. COORDINATE WITH UTILITY AND SITE CONTRACTOR.
- (O) KENTUCKY AMERICAN WATER TO REMOVE AS PART OF LOFTS CONSTRUCTION. COORDINATE WITH KAMW AND SITE DEVELOPMENT CONTRACTOR.



US 68 (S BROADWAY) COORDINATES			
POINT	State Plane Coordinates		
	NORTH(Y)	EAST(X)	ELEV.(Z)
STA 295 + 00	3903954.790	5276558.111	
POE 298 + 48	3904174.686	5276827.833	

COORDINATE SYSTEM

Coordinates for horizontal control were obtained from GPS methods and adjusted to the National NAD83/FBN System. Coordinates are based on State Plane Coordinate System Kentucky Single Zone and in U.S. Survey Feet.

BEFORE YOU DIG

The contractor is instructed to call 1-800-752-6007 to reach KY 811, the one-call system for information on the location of existing underground utilities. The call is to be placed by the contractor or a designated representative of the contractor. The contractor shall be aware that owners of underground facilities are not required to be members of the KY 811 one-call system. The contractor shall coordinate with the KY 811 one-call system to determine the location of underground utilities. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area.

COORDINATE CONTROL POINTS			
POINT	State Plane Coordinates		STATION, OFFSET
	NORTH(Y)	EAST(X)	
CP MAG 4	3904073.328	5276749.18	STA. 297 + 22.99 28.86 RT
CP MAG 47	3903956.348	5276608.653	STA. 295 + 40.16 30.73 RT

SCALE: 1"=50'

US 68 (S BROADWAY)  
MP 5.539 - MP 5.639  
PLAN SHEET



COUNTY OF	ITEM NO.
FAYETTE	7-967.00





COUNTY OF	ITEM NO
FAYETTE	7-967.00

UTILITY CONTACTS

SANITARY SEWER:  
COLUMBIA GAS  
2001 MERCER ROAD  
LEXINGTON, KY 40511  
CONTACT: RYAN VANDERPOOL  
(859) 288-6335

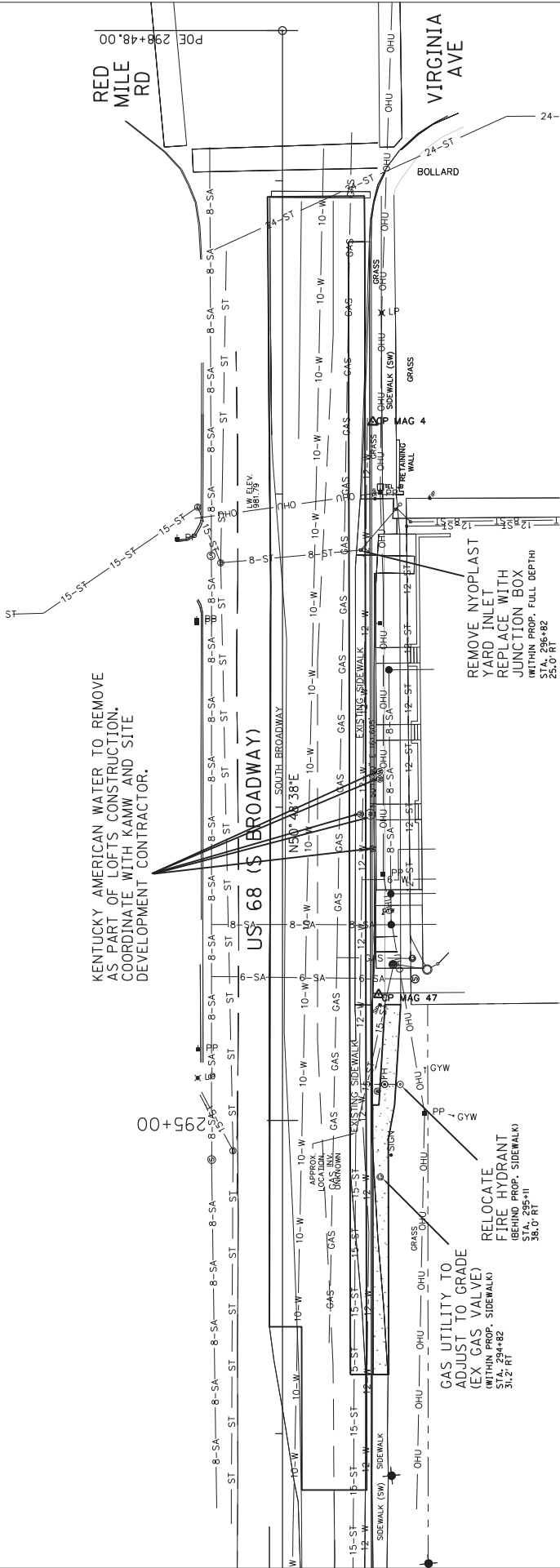
WATER:  
KENTUCKY AMERICAN WATER  
2300 RICHMOND ROAD  
LEXINGTON, KY 40502  
CONTACT: TOBEY ADAMS  
(859) 355-9408

ELECTRIC:  
KENTUCKY UTILITIES  
500 STONE ROAD  
LEXINGTON, KY 40503  
CONTACT: RODNEY BROOK  
(859) 367-4304

TELEPHONE:  
WINDSTREAM  
130 WEST NEW CIRCLE ROAD, SUITE 170  
LEXINGTON, KY 40505  
CONTACT: LEZLIE ALLISON  
(859) 357-6205

1. LOCATION OF SITE UTILITIES SHALL BE VERIFIED BY ALL CONTRACTORS BY EITHER CONTACTING THE UTILITY COMPANY PROVIDING THE SERVICE AND/OR CALLING KENTUCKY UNDERGROUND AT 811.
2. EXISTING WATERLINE LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY PRIOR TO EXCAVATION ON SITE.
3. ALL CONSTRUCTION MUST CONFORM TO CITY, COUNTY AND STATE STANDARDS.
4. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE PROJECT DOCUMENTS AND DETAILS.
5. THE CONTRACTOR SHALL HAVE APPROVAL OF ALL GOVERNING AGENCIES AND PROVIDERS HAVING JURISDICTION OVER THE SYSTEM PRIOR TO INSTALLATION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING STRUCTURES AND/OR UTILITIES DURING CONSTRUCTION.
7. THE CONTRACTOR SHALL PROVIDE A 4 FT x 2 FT x 6 IN THICK CONCRETE APRON AROUND ALL CLEANOUTS, VALVES, AND METERS.
8. ANY SEWER WORK IS TO BE DONE IN ACCORDANCE WITH LEUCG SPECIFICATIONS.
9. ANY OTHER WORK IS TO BE DONE IN ACCORDANCE WITH LEUCG SPECIFICATIONS.
10. UNLESS OTHERWISE SPECIFIED, NO 90 DEGREE BENDS SHALL BE USED IN WATER LINE INSTALLATIONS. THE CONTRACTOR SHALL MINIMIZE THE USE OF VERTICAL BENDS.
11. THURST BLOCKS SHALL BE PROVIDED ON WATER LINES AT ALL BENDS AND TEES UNLESS OTHERWISE RESTRAINED.
12. ALL PROPOSED UTILITY CROSSINGS SHALL BE VERIFIED BY ANY CONTRACTOR DOING WORK. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 18-IN SEPARATION AT NO COST TO THE OWNER. SEWER CROSSING WATER MAINS SHALL BE INSTALLED TO PROVIDE A VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN.
13. ALL SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR SECURING AND COORDINATING TEMPORARY SERVICE IF NEEDED FOR CONSTRUCTION.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL FEES REQUIRED BY UTILITY COMPANIES.
15. CONTRACTOR TO USE CAUTION IN WORK AREAS UNDER OVERHEAD UTILITY LINES. LOW WIRE ELEVATIONS NOTED ON PLANS SHOULD BE FIELD VERIFIED.

UTILITY NOTES:



- EXISTING OVERHEAD UTILITY LINE
  - EXISTING UNDERGROUND ELECTRIC
  - EXISTING UNDERGROUND SEWER LINE
  - EXISTING SANITARY SEWER LINE
  - EXISTING GAS LINE
  - EXISTING WATER LINE
  - EXISTING 10" WATER LINE
  - EXISTING 12" WATER LINE
  - EXISTING 16" WATER LINE
- - EXISTING LIGHT POLE
  - - EXISTING UTILITY POLE
  - ⊗ - EXISTING FIRE HYDRANT
  - ⊗ - EXISTING GAS VALVE
  - ⊗ - EXISTING GAS METER
  - ⊗ - EXISTING SANITARY SEWER MANHOLE
  - ⊗ - EXISTING STORM SEWER MANHOLE
  - ⊗ - EXISTING WATER VALVE
  - ⊗ - EXISTING STORM CLEANOUT
  - ⊗ - EXISTING TELEPHONE JUNCTION BOX
  - ⊗ - EXISTING GUY WIRE
  - ⊗ - PROPOSED FIRE HYDRANT ASSEMBLY

BEFORE YOU DIG



The contractor is instructed to call 1-800-752-6007 to reach 811, the one-call system for information on the location of existing underground utilities. The call is to be placed by the contractor or a designated representative of the contractor. The contractor and its members should be aware that owners of underground facilities are not required to be members of the 811 one-call system (BUD) service. The contractor may wish to coordinate with the 811 one-call system to determine the location of existing underground utilities. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area.

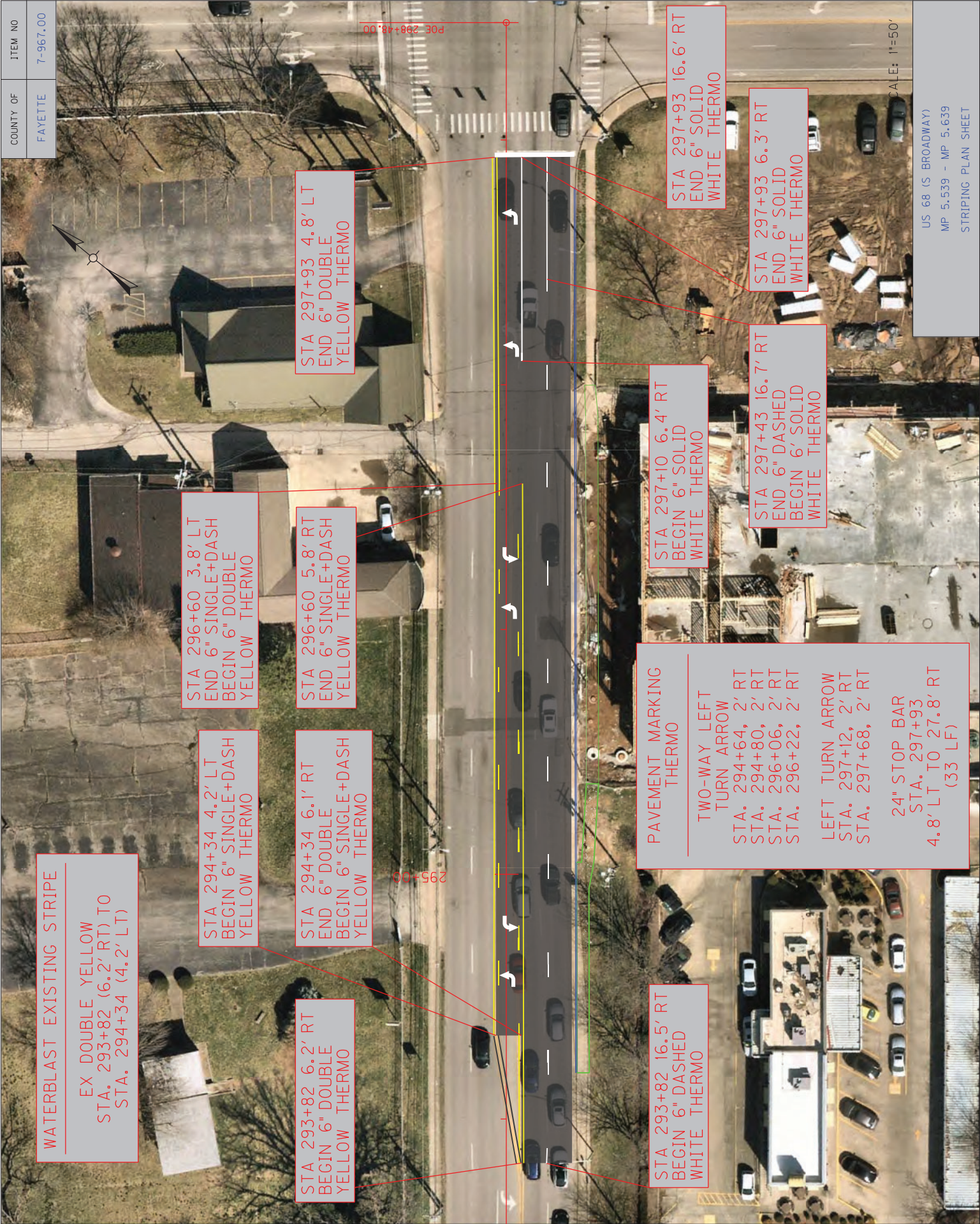


Know what's below.  
Call before you dig.

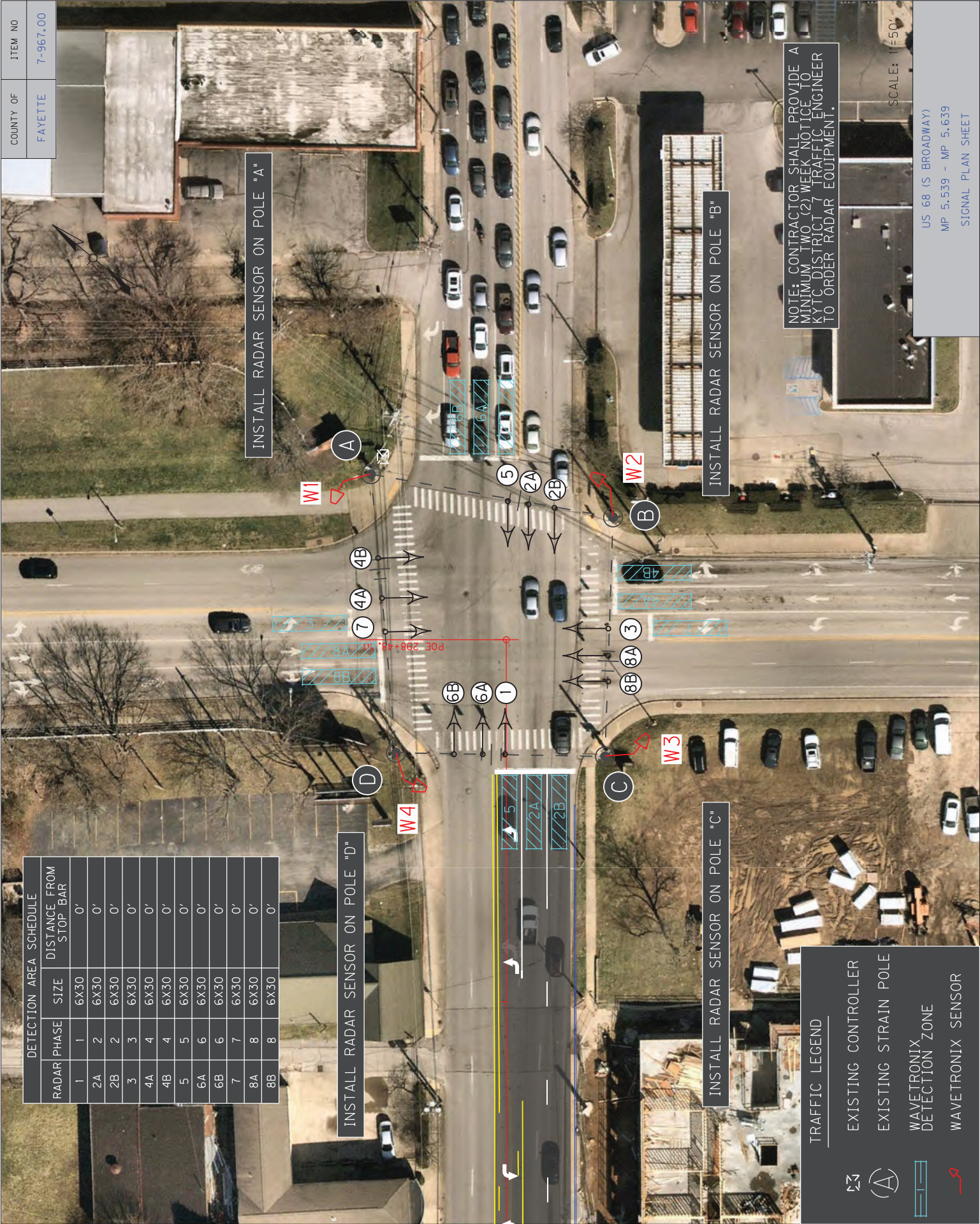
SCALE: 1"=50'

US 68 (S BROADWAY)  
MP 5.539 - MP 5.639  
UTILITY PLAN SHEET



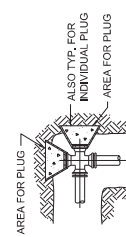
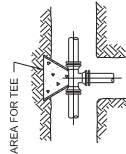
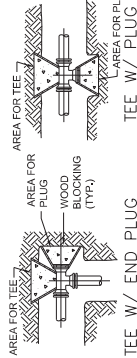








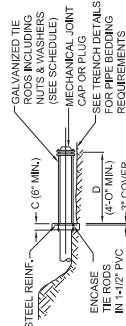
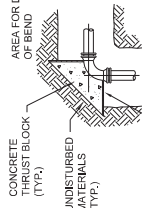
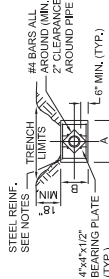
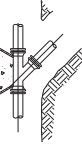
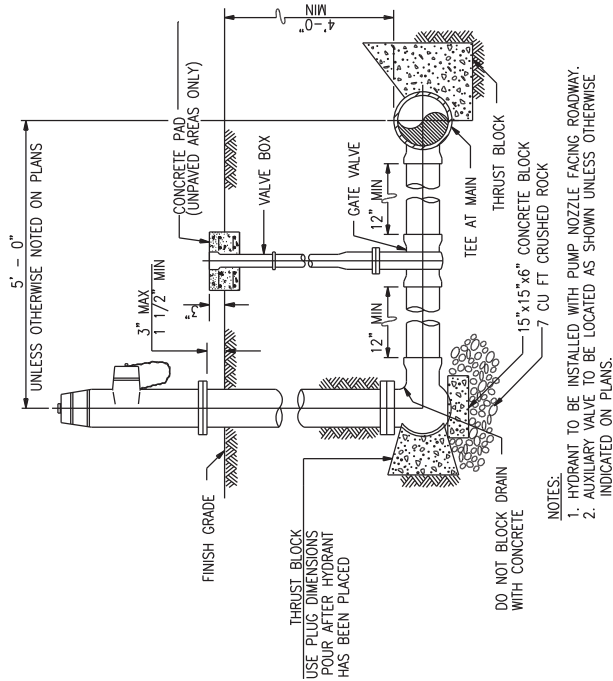
COUNTY OF	ITEM NO
FAYETTE	7-967.00



PIPE SIZE IN INCHES	90° BEND; TEES/PLUGS	45° BEND	22.5° BEND	11.25° BEND
4	1.6	0.9	0.4	0.2
6	3.6	1.9	1.0	0.5
8	6.4	3.5	1.8	0.9
10	10.0	5.4	2.8	1.4
12	14.4	7.8	4.0	2.0
16	25.2	13.6	7	3.5

NOTES

1. THRUST BLOCK BEARING AREAS SHALL BE POURED AGAINST UNDISTURBED MATERIAL WHERE TRENCH WALL HAS BEEN DISTURBED. EXCAVATE ALL LOOSE MATERIAL AND EXTEND TO UNDISTURBED MATERIAL.
2. EXTEND THRUST BLOCK FULL LENGTH OF FITTINGS, PUT BOARD IN FRONT OF PLUG BEFORE POURING CONCRETE. JOINTS SHALL NOT BE COVERED BY THRUST BLOCK.
3. ROUGH BLOCKING FORMS SHALL BE USED ALONG SIDE OF THRUST BLOCKS.
4. THRUST BLOCKS SHALL BE USED IN COMBINATION, AS REQUIRED, TO SUIT THE SPECIFIC FITTING ARRANGEMENT.
5. ALTERNATE DESIGNED RESTRAINING SYSTEMS SHALL BE PROVIDED WHERE STANDARD THRUST BLOCKING IS NOT SUITABLE, AND/OR SOIL BEARING CAPACITY IS LESS THAN 2,000 P.S.F. ON TYPE IS ON GREATER.
6. ALL WOOD BLOCKING SHALL BE PRESURE TREATED WITH PRESERVATIVE.
7. THRUST BLOCK AND RESTRAINING SEWER AND WATER MAIN SCHEDULES SHALL BE COMPLETED BY THE ENGINEER, BASED ON ALL DESIGN CONSIDERATIONS INCLUDING BUT NOT LIMITED TO THE FOLLOWING: PIPE TYPE, SOIL BEARING CAPACITY, SOIL TYPE, DEPTH OF COVER, TEST PRESSURE, LAYING CONDITIONS, SWEET FACTOR.
8. STEEL REINFORCEMENT FOR "DEAD MAN" SHALL BE DETERMINED BY ENGINEER.
9. THRUST BLOCKS ALLOWED ONLY AT LOCATIONS PRE-APPROVED IN WRITING BY UTILITY COMPANY.



NOTES:

1. HYDRANT TO BE INSTALLED WITH PUMP NOZZLE FACING ROADWAY.
2. AUXILIARY VALVE TO BE LOCATED AS SHOWN UNLESS OTHERWISE INDICATED ON PLANS.

## FIRE HYDRANT ASSEMBLY

NOT TO SCALE

## THRUST BLOCK DETAILS

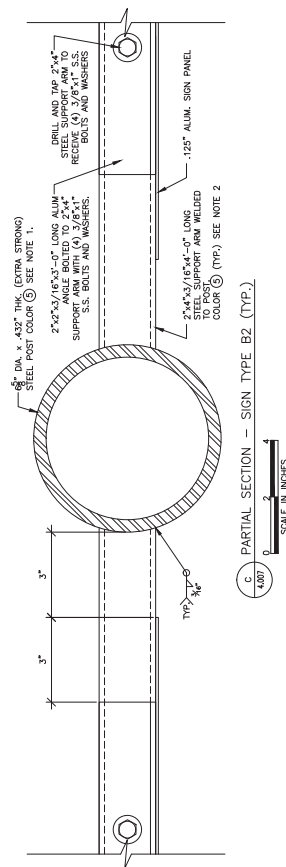
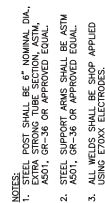
**NOT TO SCALE**




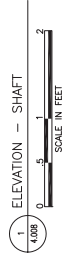
US 68 (S BROADWAY)  
MP 5.539 - MP 5.639  
FIRE HYDRANT DETAIL



SHEET NO.: 4.003



<div>PLANS AND SPECIFICATIONS PREPARED BY:  LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING</div> <div></div>		<div>SCALE: AS SHOWN</div> <div>DATE: APRIL, 2010</div>	<div>SIGN POST CONNECTION DETAILS SIGN TYPES B1 &amp; B2</div> <div>SHEET NO.: 4.007</div>																				
<div>REVISIONS</div> <table><tr><td>DATE</td><td>BY</td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table>		DATE	BY																			<div>CHECKED:</div> <div>APPROVED:</div> <div>DRAWN BY:</div> <div>SKETCHED BY:</div>	
DATE	BY																						



SIGN TYPE	"HS"
A1, A2, B2	8'-0"
B1	6'-0"

NOTES:

1. CONCRETE  $f' = 3000$  PSI MIN.
2. STEEL BAR REINFORCEMENT  $f_y = 60$  KSI.
3. ALL REINFORCEMENT SHALL BE EPOXY COATED.
4. FOUNDATION DESIGN BASED ON FLOWING SOIL PROPERTIES:  
 $\gamma = 120$  LB/CF  
 $c_u = 120$  LB/CF
5. IF SOIL CONDITIONS DIFFER FROM THESE ASSUMPTIONS, THE ENGINEER SHALL BE NOTIFIED PRIOR TO INSTALLATION OF THE FOUNDATION.
6. RESTORE ADJACENT SURFACES TO ORIGINAL CONDITION.

[illegible]





DIVISION OF TRAFFIC OPERATIONS

Tim Tharpe - Director  
Phone (502) 564-3020  
FAX (502) 564-7759

PROJECT MATERIALS RELEASE FORM  
FOR SIGNAL AND LIGHTING

Note: Email form with signatures to District 7 Traffic (*natalia.mcmillan@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.

Item Number: 7-967.00

County: Fayette

Description: Install Wavetronix Signal Detection at S Broadway @ Red Mile Rd

Cabinets	Master code
----------	-------------

Signals
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Special items	4	Radars
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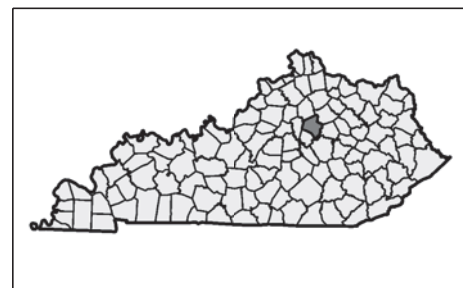
Poles
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REQUIRED

Electrical Contractor Supervisor	Contact number for Supervisor
Project Engineer	Contact number for Project Engineer
Project Engineer attests that the mentioned contractor is the actual electrical contractor on this project	
Signature of Project Engineer or Designee	

US 27 (North Broadway)  
@ CS 1376 (West Loudon)  
MP 7.853

SCALE: 1"=1000'



US 27 (NORTH BROADWAY) MP 7.853			
ITEM NO. 7-9006.10			
GENERAL SUMMARY			
ITEM	DESCRIPTION	UNIT	QUANTITY
388	CL3 ASPH SURF 0.38B PG64-22	TON	152
1921	STANDARD BARRIER MEDIAN TYPE 4	SQYD	65
2562	TEMPORARY SIGNS	SQFT	91
2569	DEMOBILIZATION	LS	1
2650	MAINTAIN & CONTROL TRAFFIC (US 27 @ CS 1376)	LS	1
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	2
2676	MOBILIZATION FOR MILL & TEXT	LS	1
2677	ASPHALT PAVE MILLING & TEXTURING	TON	152
2726	STAKING (US 27 @ CS 1376)	LS	1
3225	TUBULAR MARKERS (PEXCO CITY POST EMBEDDED ANCHOR CUP)	EACH	15
4844	CABLE-NO. 14/5C	LF	260
6406	SBM ALUM SHEET SIGNS .080 IN	SQFT	7.5
6410	STEEL POST TYPE 1	LF	14
6510	PAVE STRIPING-TEMP PAINT-4 IN	LF	700
6540	PAVE STRIPING-THERMO-4 IN W	LF	405
6541	PAVE STRIPING-THERMO-4 IN Y	LF	1466
6568	PAVE MARKING-THERMO STOP BAR-24 IN	LF	33
6569	PAVE MARKING-THERMO CROSS-HATCH	SQFT	250
6574	PAVE MARKING-THERMO CURV ARROW	EACH	2
20188NS835	INSTALL LED SIGNAL-3 SECTION	EACH	2
21596ND	GMSS TYPE D (SURFACE MOUNT)	EACH	2
22664EN	WATER BLASTING EXISTING STRIPE	LF	112
23608EC	YELLOW PAINT FOR MEDIAN SAFETY NOSE	SQFT	6
24189ER	DURABLE WATERBORNE MARKING-6 IN W	LF	998
24190ER	DURABLE WATERBORNE MARKING-6 IN Y	LF	738
24489EC	INLAID PAVEMENT MARKER	EACH	21
24631EC	BARCODE SIGN INVENTORY	EACH	2
24683ED	PAVE MARKING-THERMO DOTTED LANE EXTEN 6"	LF	17
24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	TON	1

\* It is only anticipated that loop test will be needed at this location but additional quantities are set up in case loops need to be installed. (see 723.03.17 of the Standard Specification)

4792	CONDUIT-1 IN	LF	10
4811	ELECTRICAL JUNCTION BOX TYPE B	EACH	1
4830	LOOP WIRE	LF	300
4850	CABLE-NO. 14/1 PAIR	LF	250
4895	LOOP SAW SLOT AND FILL	LF	150
24963ED	LOOP TEST	EACH	1



						COUNTY OF	ITEM NO.
						FAYETTE	7-9006.10

STRIPING						
Begin Station	Begin Offset	End Station	End Offset	Length	Type	Description
US 27 (North Broadway)						
415+28.7	29' LT	418+63.6	21' LT	336	DURABLE WATERBORNE - 6 IN W	Single Solid White Line
415+28.7	18' LT	416+18.3	18' LT	90	DURABLE WATERBORNE - 6 IN W	Single Solid White Line
415+28.7	7' LT	416+18.3	7' LT	90	DURABLE WATERBORNE - 6 IN W	Single Solid White Line
415+28.7	29' RT	418+63.6	20.7 RT	336	DURABLE WATERBORNE - 6 IN W	Single Solid White Line
416+18.3	18' LT	418+63.6	10.5' LT	62	DURABLE WATERBORNE - 6 IN W	Single Dashed White Line
415+28.7	18' RT	418+63.6	10.5 RT	84	DURABLE WATERBORNE - 6 IN W	Single Dashed White Line
415+28.7	4' RT	418+19.0	1.5' LT	290	DURABLE WATERBORNE - 6 IN Y	Single Solid Yellow Line
415+28.7	7' RT	418+19.0	1.5' RT	290	DURABLE WATERBORNE - 6 IN Y	Single Solid Yellow Line
418+19.0	1.5' LT	418+49.0	0	64	DURABLE WATERBORNE - 6 IN Y	Double Solid Yellow Line
418+19.0	1.5' RT	418+49.0	0	64	DURABLE WATERBORNE - 6 IN Y	Double Solid Yellow Line
418+49.0	0'	418+63.6	0	30	DURABLE WATERBORNE - 6 IN Y	Double Solid Yellow Line
CS 1376 (West Loudon)						
10+65.0	0'	11+85.0	0	120	PAVE STRIPING-THERMO-4 IN W	Single Solid White Line
10+65.0	11' LT	11+85.0	11' LT	120	PAVE STRIPING-THERMO-4 IN W	Single Solid White Line
10+65.0	22' LT	11+24.7	27.7 LT	63	PAVE STRIPING-THERMO-4 IN W	Border for Hatched Area
11+65.4	27.7' LT	12+60.9	29' LT	102	PAVE STRIPING-THERMO-4 IN W	Border for Hatched Area
10+65.0	10' RT	11+85.0	10' RT	240	PAVE STRIPING-THERMO-4 IN Y	Double Solid Yellow Line
11+85.0	10' RT	14+90.0	0	614	PAVE STRIPING-THERMO-4 IN Y	Double Solid Yellow Line
11+85.0	10' RT	14+90.0	0	612	PAVE STRIPING-THERMO-4 IN Y	Double Solid Yellow Line

PAVEMENT MARKINGS						
Begin Station	Begin Offset	End Station	End Offset	Unit	Quantity	Description
US 27 (North Broadway)						
415+56	2' LT	--	--	EACH	1	PAVE MARKING-THERMO CURV ARROW
416+16	2' LT	--	--	EACH	1	PAVE MARKING-THERMO CURV ARROW
415+28.7	29' LT	415+28.7	4' RT	LF	33	PAVE MARKING-THERMO STOP BAR-24 IN
415+28.0	5.5' RT	--	--	SQFT	6	YELLOW PAINT FOR MEDIAN SAFETY NOSE
CS 1376 (West Loudon)						
10+65	27.7' LT	11+24.7	27.7 LT	SQFT	20	PAVE MARKING-THERMO CROSS-HATCH
11+65.4	27.7' LT	12+60.9	29' LT	SQFT	67	PAVE MARKING-THERMO CROSS-HATCH
11+85	10' RT	14+90.0	0	SQFT	163	PAVE MARKING-THERMO CROSS-HATCH
11+85	11' LT	12+50.0	11' LT	LF	17	PAVE MARKING-THERMO DOTTED LANE EXTEN

WATERBLAST EXISTING STRIPE					
Begin Station	Begin Offset	End Station	End Offset	Length	Description
CS 1376 (West Loudon)					
10+65	8.4' LT	11+77	10.8' LT	112	Single Solid White Line

STANDARD BARRIER MEDIAN TYPE 4				
Begin Station	Begin Offset	End Station	End Offset	Area (SQYD)
US 27 (North Broadway)				
415+28	5.5' RT	418+19	0	65

Note: These numbers are for estimate purposes only. Final locations and quantities will be determined by the Engineer in the field.

Item No.	Description	Unit	Quantity
1921	STANDARD BARRIER MEDIAN TYPE 4	SQYD	65
6540	PAVE STRIPING-THERMO-4 IN W	LF	405
6541	PAVE STRIPING-THERMO-4 IN Y	LF	1466
6568	PAVE MARKING-THERMO STOP BAR-24 IN	LF	33
6569	PAVE MARKING-THERMO CROSS-HATCH	SQFT	250
6574	PAVE MARKING-THERMO CURV ARROW	EACH	2
22664EN	WATER BLASTING EXISTING STRIPE	LF	112
23608EC	YELLOW PAINT FOR MEDIAN SAFETY NOSE	SQFT	6
24189ER	DURABLE WATERBORNE MARKING-6 IN W	LF	998
24190ER	DURABLE WATERBORNE MARKING-6 IN Y	LF	738
24683ED	PAVE MARKING-THERMO DOTTED LANE EXTEN 6"	LF	17

Note: These numbers are for estimate purposes only. Final locations and quantities will be determined by the Engineer in the field.

Item No.	Description	Unit	Quantity
1921	STANDARD BARRIER MEDIAN TYPE 4	SQYD	65
6540	PAVE STRIPING-THERMO-4 IN W	LF	405
6541	PAVE STRIPING-THERMO-4 IN Y	LF	1466
6568	PAVE MARKING-THERMO STOP BAR-24 IN	LF	33
6569	PAVE MARKING-THERMO CROSS-HATCH	SQFT	250
6574	PAVE MARKING-THERMO CURV ARROW	EACH	2
22664EN	WATER BLASTING EXISTING STRIPE	LF	112
23608EC	YELLOW PAINT FOR MEDIAN SAFETY NOSE	SQFT	6
24189ER	DURABLE WATERBORNE MARKING-6 IN W	LF	998
24190ER	DURABLE WATERBORNE MARKING-6 IN Y	LF	738
24683ED	PAVE MARKING-THERMO DOTTED LANE EXTEN 6"	LF	17

NOTE: ALL QUANTITIES CARRIED OVER TO GENERAL SUMMARY

US 27 (N BROADWAY) MP 7.853  
STRIPING, MARKING, WATERBLASTING,  
AND BARRIER MEDIAN SUMMARY

COUNTY OF	ITEM NO.
FAYETTE	7-9006.10

PROPOSED SIGNS						
Station	Offset	Type	SBM Alum Sheet Signs .080 in (SqFt)	Steel Post Type 1 (LF)	Barcode Sign Inventory (Each)	GMSS Type D (Surface Mount)
US 27 (North Broadway)						
415+38	5.5' RT	R4-7c	3.75	7	1	1
418+10	0'	R4-7c	3.75	7	1	1

INSTALL PEXCO CITY POST MARKERS				
Begin Station	Begin Offset	End Station	End Offset	Quantity
US 27 (North Broadway)				
415+28.0	5.5' RT	418+19.0	0'	15

INSTALL PAVEMENT MARKERS				
Begin Station	Begin Offset	End Station	End Offset	Quantity
US 27 (North Broadway)				
415+28.7	18' RT	418+63.6	10.5' RT	5
415+28.7	7' RT	418+49.0	0'	5
415+28.7	4' RT	418+49.0	0'	5
415+28.7	7' LT	416+18.3	7' LT	1
415+28.7	18' LT	418+63.6	10.5' LT	5

Note: These numbers are for estimate purposes only. Final locations and quantities will be determined by the Engineer in the field.

Item No.	Description	Unit	Quantity
3225	TUBULAR MARKERS (PEXCO CITY POST EMBEDDED ANCHOR CUP)	EACH	15
6406	SBM ALUM SHEET SIGNS .080 IN	SQFT	7.5
6410	STEEL POST TYPE 1	LF	14
21596ND	GMSS TYPE D (SURFACE MOUNT)	EACH	2
22489EC	INLAID PAVEMENT MARKER	EACH	21
24631EC	BARCODE SIGN INVENTORY	EACH	2

COUNTY OF	ITEM NO.
FAYETTE	7-9006.10

INSTALL SUPPLEMENTAL SIGNAL HEADS		
Station*	Offset*	Description
US 27 (North Broadway)		
414+20	42.9' RT	3-Section LED signal head
415+01	40.7' LT	3-Section LED signal head

\*Station and Offset are approximate and are for information only. Mount signal heads on existing steel strain poles.

Item No.	Description	Unit	Quantity
20188NS835	INSTALL LED SIGNAL-3 SECTION	EACH	2

Supplemental Signal Heads for: US 27 @ CS 1376

Signal Heads For NB US 27

Signal Head	Red Ball	Red Arrow	Yellow Ball	Yellow Arrow	Green Ball	Green Arrow
3 Section	1		1		1	
Totals	1	0	1	0	1	0

Signal Heads For SB US 27

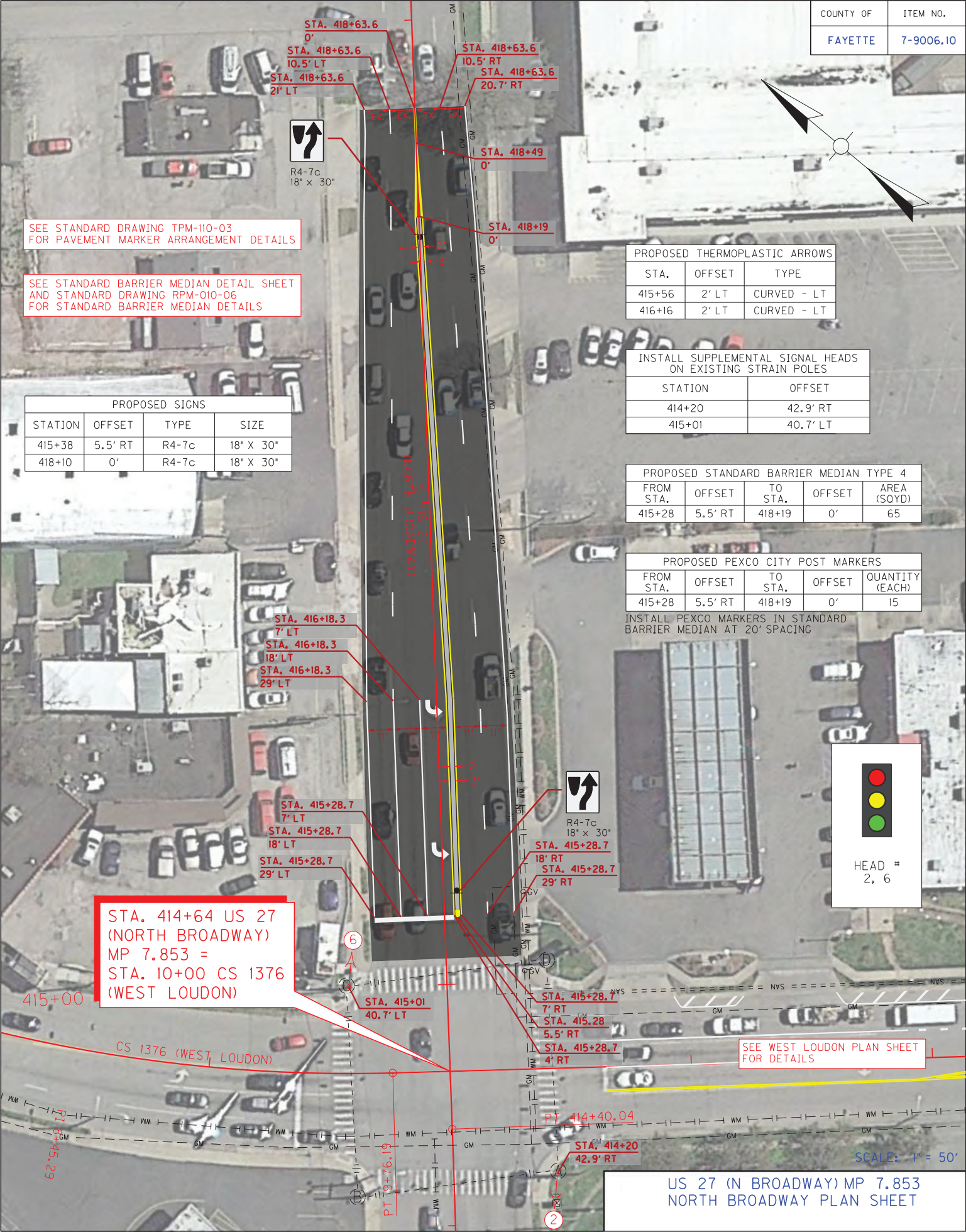
Signal Head	Red Ball	Red Arrow	Yellow Ball	Yellow Arrow	Green Ball	Green Arrow
3 Section	1		1		1	
Totals	1	0	1	0	1	0

NOTE: ALL QUANTITIES CARRIED OVER TO GENERAL SUMMARY

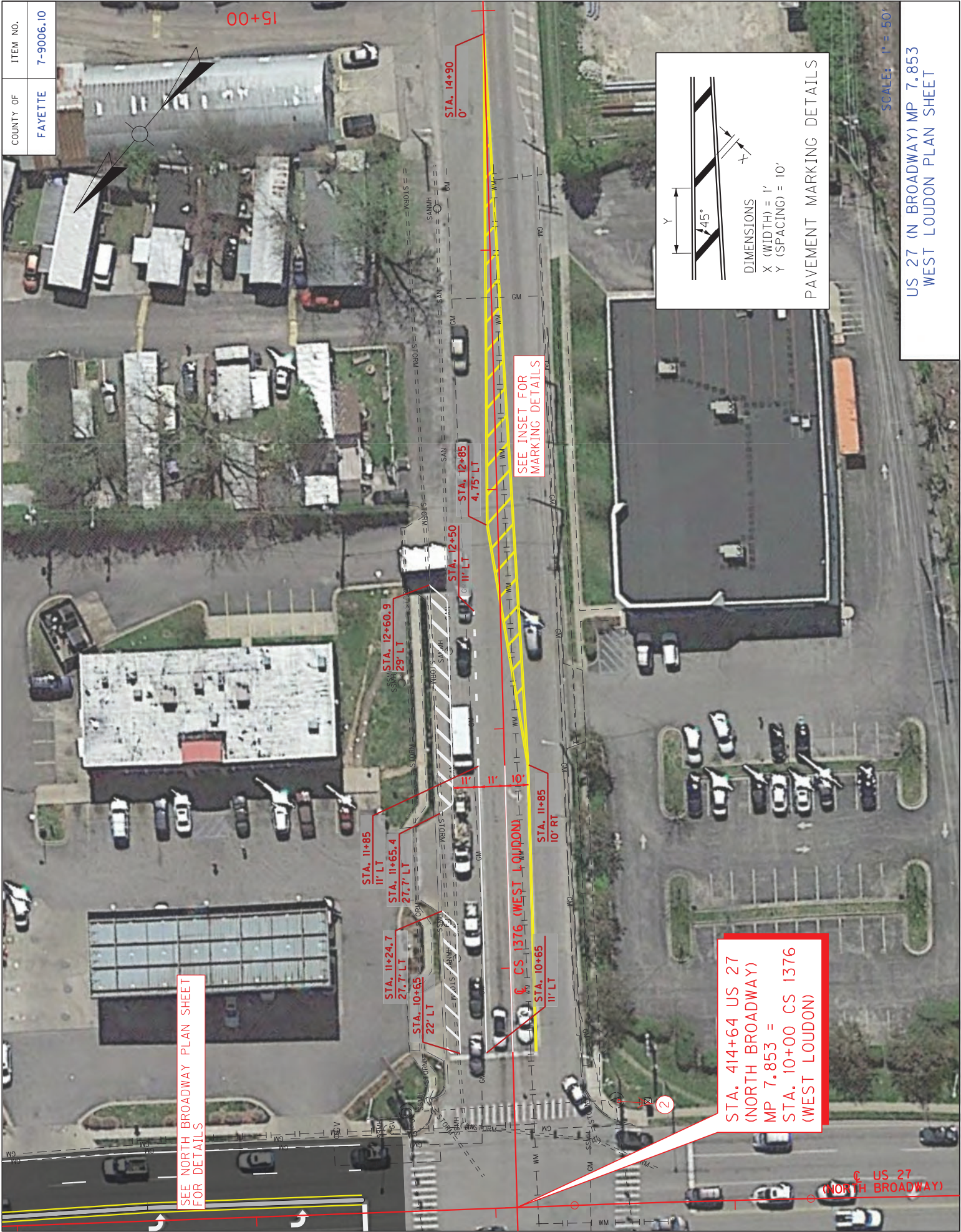






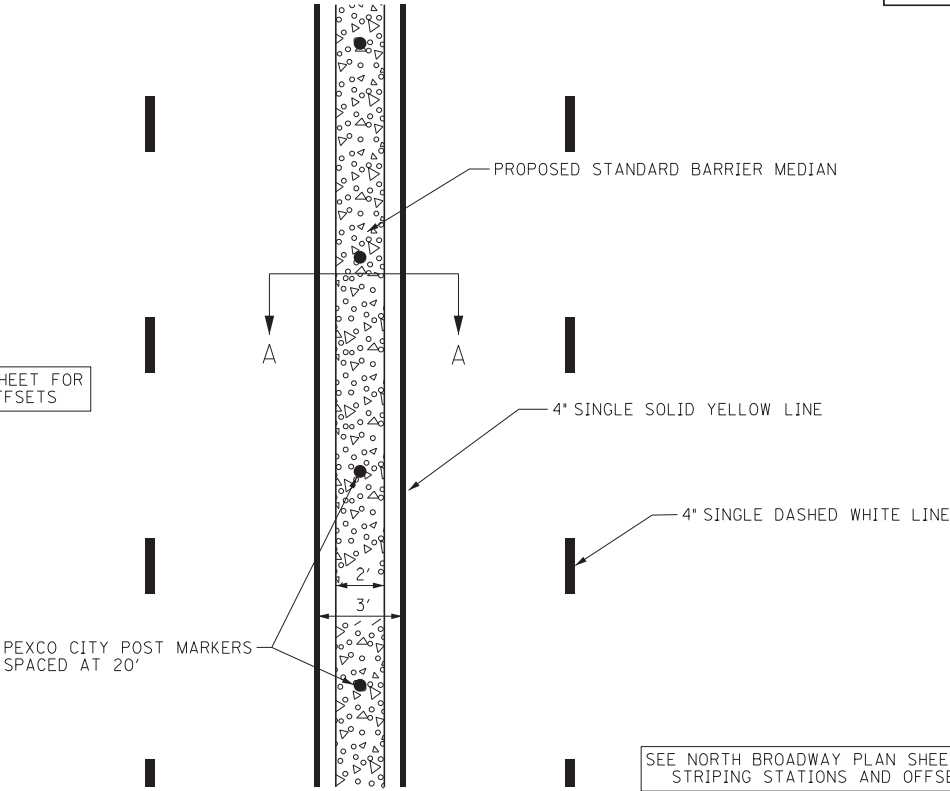






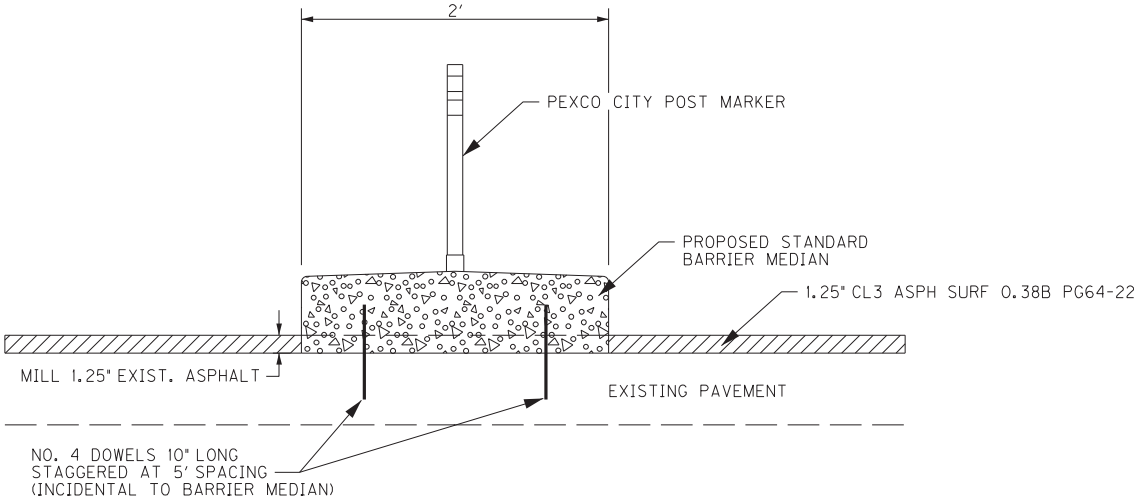
COUNTY OF	ITEM NO.
FAYETTE	7-9006.10

SEE NORTH BROADWAY PLAN SHEET FOR  
STRIPING STATIONS AND OFFSETS



SEE NORTH BROADWAY PLAN SHEET FOR  
STRIPING STATIONS AND OFFSETS

PLAN VIEW



SECTION A-A

NOTE: SEE STANDARD DRAWING RPM-010-06 FOR DETAILS NOT SHOWN.

NOT TO SCALE

US 27 (N BROADWAY) MP 7.853  
STANDARD BARRIER MEDIAN DETAIL

Tim Tharpe - Director

DIVISION OF TRAFFIC OPERATIONS

Phone (502) 564-3020  
FAX (502) 564-7759

RECOMMENDATION FOR PICKUP OF ITEMS TO BE INSTALLED  
ON TRAFFIC SIGNALS/LIGHTING

Item Number: 7-9006.10  
County: Fayette  
Description: US 27 (North Broadway) @ CS 1376 (West Loudon)

Signals		
2	T-02-0009	Siemens 3 Section Signal
2	T-02-0330	LED Module 12" red ball
2	T-02-0340	LED Module 12" yellow ball
2	T-02-0350	LED Module 12" green ball

Special items		
2	T-02-0640	Mast arm mount signal bracket (3 section)

Electrical Contractor Name

Electrical Contractor Supervisor

Project Engineer

Contact number for Supervisor

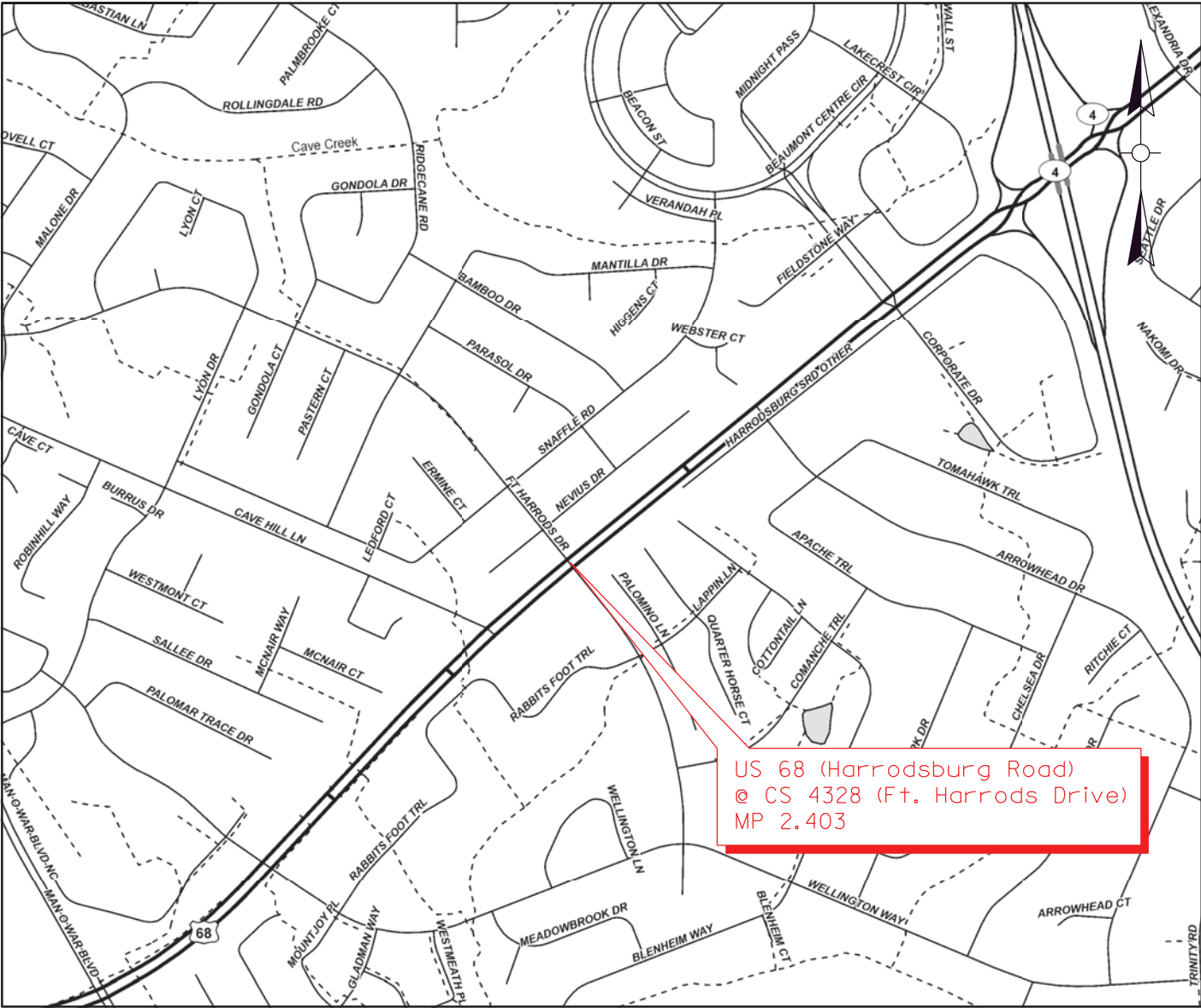
Contact number for Project Engineer

Project Engineer attests that the mentioned contractor is the actual electrical contractor on this project

Signature of Project Engineer or Designee



COUNTY OF	ITEM NO.
FAYETTE	7-9006.30

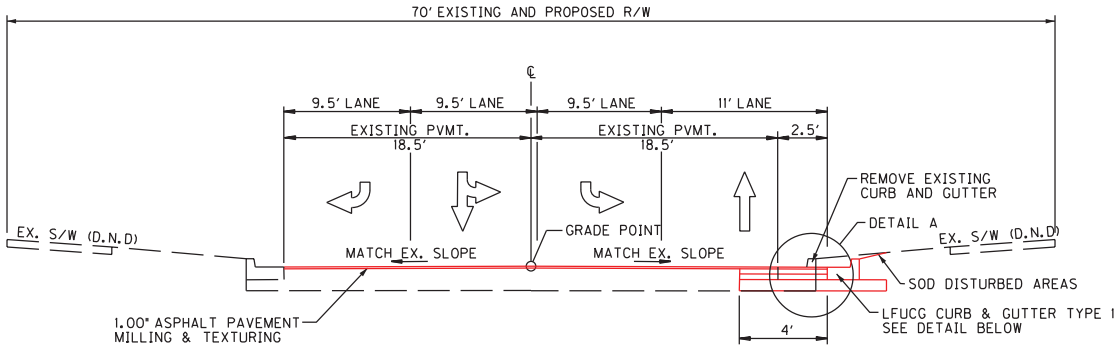


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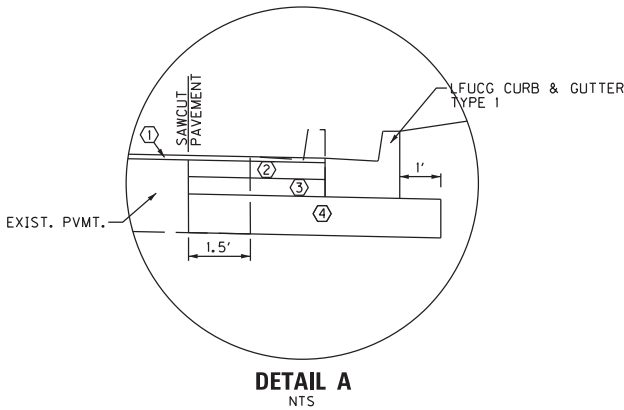
FAYETTE COUNTY  
US 68 MP 2.403



COUNTY OF	ITEM NO.
FAYETTE	7-9006.30

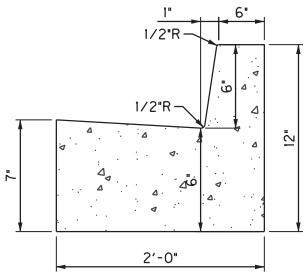


FT. HARRODS DRIVE WIDENING



TRAFFIC LANES

- ① 1.00" CL3 ASPH SURF 0.38A PG76-22
- ② 3.00" CL3 ASPH BASE 1.00D PG76-22
- ③ 3.00" CL3 ASPH BASE 1.00D PG76-22
- ④ 8.00" DGA



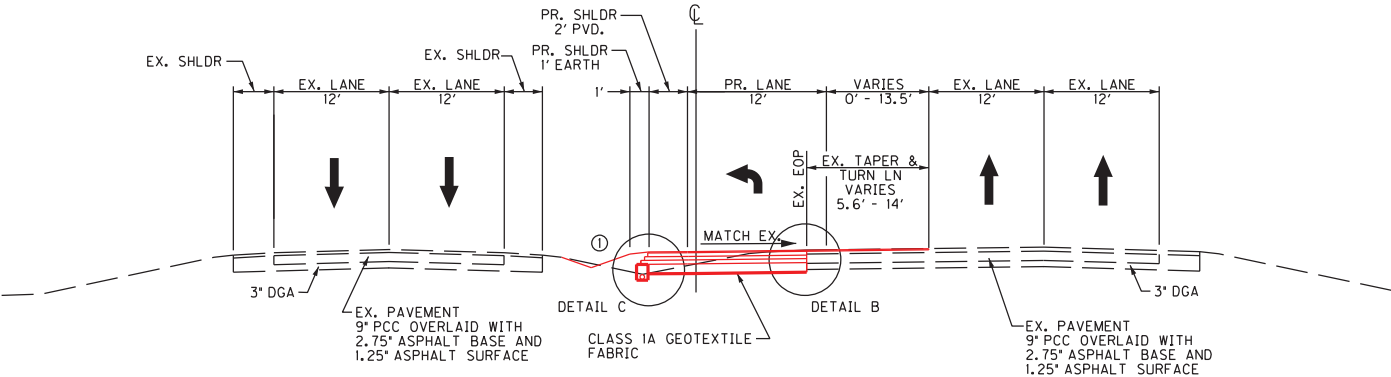
LFUCG CURB & GUTTER TYPE 1

- NOTES:
- 1. CONCRETE SHALL BE CLASS 'A'.
  - 2. SAWED CONTRACTION JOINTS SHALL BE CONSTRUCTED EVERY 20 FEET, WITH A MIN. DEPTH OF 3".
  - 3. FULL DEPTH EXPANSION JOINTS SHALL BE CONSTRUCTED AT ALL BREAKS IN ALIGNMENT, AT CONTACT WITH NEW OR EXISTING CONCRETE, AT ALL DRAINAGE INLETS, AT THE BEGINNING AND ENDING POINTS OF CURVES, AND NOT TO EXCEED 200' MAXIMUM SPACING FOR SLIP FORM APPLICATION AND 30' MAXIMUM SPACING FOR HAND PLACED.
  - 4. ALL CONCRETE SHALL BE CURED WITH WHITE PIGMENTED MEMBRANE FORMING COMPOUND (AASHTO M 148, TYPE 2).
  - 5. WORK SHALL BE BID AS STANDARD CURB AND GUTTER (MOD) (LFUCG CURB AND GUTTER TYPE 1).

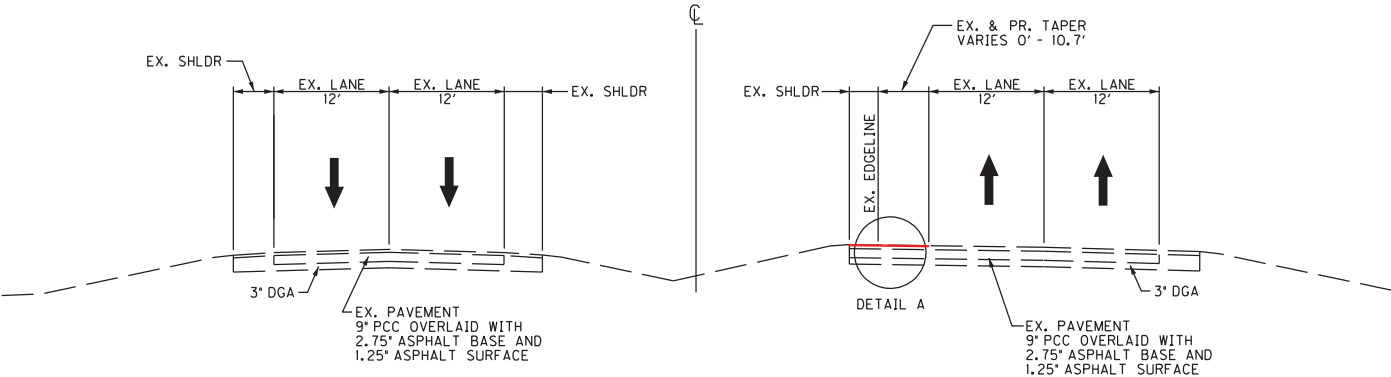
NOT TO SCALE

US 68 (HARRODSBURG RD) MP 2.403  
TYPICAL SECTIONS

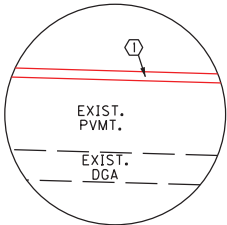
COUNTY OF	ITEM NO.
FAYETTE	7-9006.30



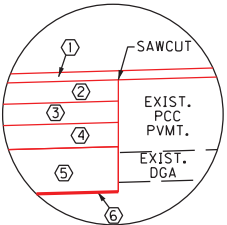
**HARRODSBURG ROAD OFFSET LEFT TURN LANES**  
STA. 124+54.6 TO STA. 126+47.9



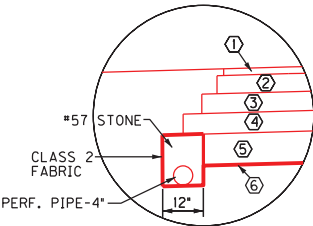
**HARRODSBURG ROAD OFFSET LEFT TURN LANES**  
STA. 122+50.5 TO STA. 124+54.6



**DETAIL A**



**DETAIL B**



**DETAIL C**

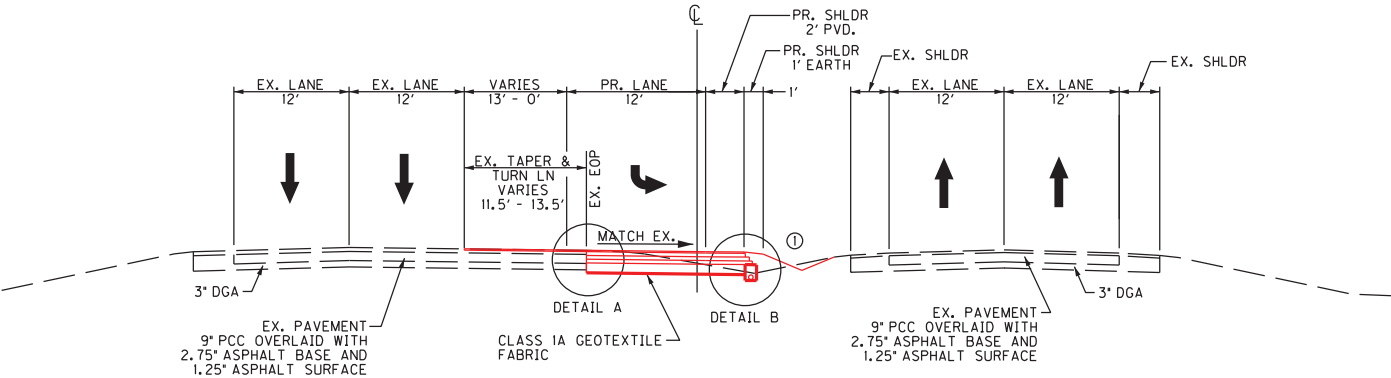
- TRAFFIC LANES**
- ① 1.50" CL3 ASPH SURF 0.38A PG76-22 WITH ARAMID FIBERS
  - ② 3.50" CL3 ASPH BASE 1.00D PG76-22 WITH ARAMID FIBERS
  - ③ 3.50" CL3 ASPH BASE 1.00D PG76-22 WITH ARAMID FIBERS
  - ④ 3.50" CL3 ASPH BASE 1.00D PG76-22 WITH ARAMID FIBERS
  - ⑤ 6.00" DGA
  - ⑥ CLASS 1A GEOTEXTILE FABRIC
- SHOULDER**
- ① 1.50" CL3 ASPH SURF 0.38A PG76-22 WITH ARAMID FIBERS
  - ② 3.50" CL3 ASPH BASE 1.00D PG76-22 WITH ARAMID FIBERS
  - ③ 3.50" CL3 ASPH BASE 1.00D PG76-22 WITH ARAMID FIBERS
  - ④ 3.50" CL3 ASPH BASE 1.00D PG76-22 WITH ARAMID FIBERS
  - ⑤ 6.00" DGA
  - ⑥ CLASS 1A GEOTEXTILE FABRIC

NOTES:  
① SEE CROSS-SECTIONS FOR SLOPES OUTSIDE THE LIMITS OF THE SHOULDERS.

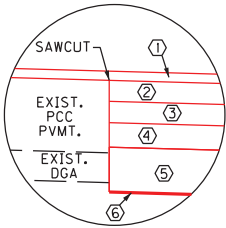
NOT TO SCALE

US 68 (HARRODSBURG RD) MP 2.403  
TYPICAL SECTIONS

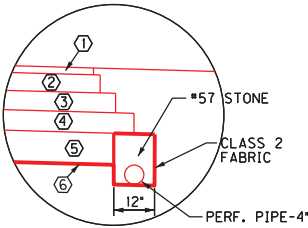
COUNTY OF	ITEM NO.
FAYETTE	7-9006.30



**HARRODSBURG ROAD OFFSET LEFT TURN LANES**  
STA. 127+33.7 TO STA. 130+35.7



DETAIL A



DETAIL B

TRAFFIC LANES

- ① 1.50" CL3 ASPH SURF 0.38A PG76-22 WITH ARAMID FIBERS
- ② 3.50" CL3 ASPH BASE 1.00D PG76-22 WITH ARAMID FIBERS
- ③ 3.50" CL3 ASPH BASE 1.00D PG76-22 WITH ARAMID FIBERS
- ④ 3.50" CL3 ASPH BASE 1.00D PG76-22 WITH ARAMID FIBERS
- ⑤ 6.00" DGA
- ⑥ CLASS 1A GEOTEXTILE FABRIC

SHOULDERS

- ① 1.50" CL3 ASPH SURF 0.38A PG76-22 WITH ARAMID FIBERS
- ② 3.50" CL3 ASPH BASE 1.00D PG76-22 WITH ARAMID FIBERS
- ③ 3.50" CL3 ASPH BASE 1.00D PG76-22 WITH ARAMID FIBERS
- ④ 3.50" CL3 ASPH BASE 1.00D PG76-22 WITH ARAMID FIBERS
- ⑤ 6.00" DGA
- ⑥ CLASS 1A GEOTEXTILE FABRIC

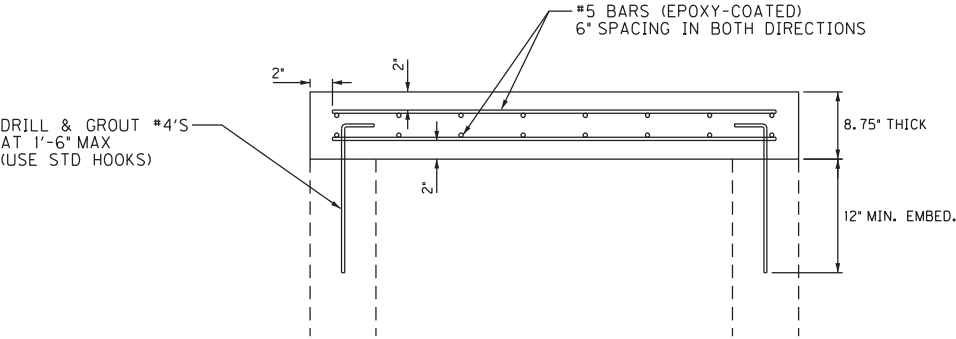
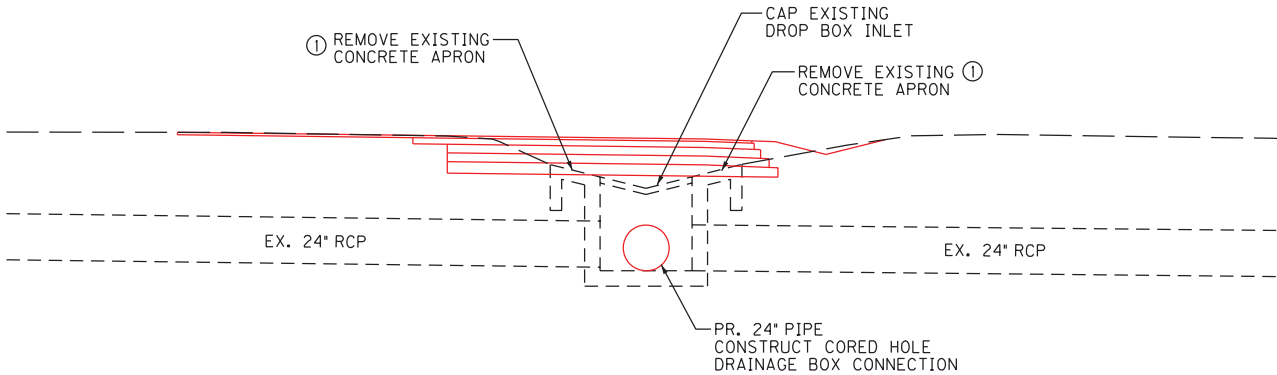
NOTES:  
① SEE CROSS-SECTIONS FOR SLOPES OUTSIDE THE LIMITS OF THE SHOULDERS.

NOT TO SCALE

US 68 (HARRODSBURG RD) MP 2.403  
TYPICAL SECTIONS



COUNTY OF	ITEM NO.
FAYETTE	7-9006.30



**EXISTING DROP BOX INLET CAP DETAIL**

NOTES:

① REMOVAL OF EXISTING CONCRETE APRON IS INCIDENTAL TO THE BID ITEM CAP DROP BOX INLET.

NOT TO SCALE

US 68 (HARRODSBURG RD) MP 2.403  
CAP DROP BOX INLET DETAIL

US 68 (HARRODSBURG RD) MP 2.403 ITEM NO. 7-9006.30 GENERAL SUMMARY			
ITEM	DESCRIPTION	UNIT	QUANTITY
1	DGA BASE (1)	TON	274
216	CL3 ASPH BASE 1.00D PG76-22 (1)	TON	350
336	CL3 ASPH SURF 0.38A PG76-22 (1)	TON	160
524	STORM SEWER PIPE-24 IN (2)	LF	111
1000	PERFORATED PIPE-4 IN (9)	LF	410
1010	NON-PERFORATED PIPE-4 IN (9)	LF	20
1020	PERF PIPE HEADWALL TY 1-4 IN (9)	EACH	2
1310	REMOVE PIPE (2)	LF	13
1514	DROP BOX INLET TYPE 5E (2)	EACH	1
1571	DROP BOX INLET TYPE 13ST (TOP PHASE) (2)	EACH	1
1584	CAP DROP BOX INLET (2)	EACH	1
1718	REMOVE INLET (TOP PHASE ONLY) (2)	EACH	1
1811	STANDARD CURB AND GUTTER (MOD) (LFUCG CURB AND GUTTER TYPE 1) (3)	LF	261
1812	REMOVE CURB AND GUTTER (3)	LF	249
2159	TEMP DITCH	LF	500
2160	CLEAN TEMP DITCH	LF	250
2200	ROADWAY EXCAVATION	CUYD	416
2562	TEMPORARY SIGNS	SQFT	119
2569	DEMOBILIZATION	LS	1
2604	FABRIC-GEOTEXTILE CLASS 1A (1)	SQYD	571
2607	FABRIC-GEOTEXTILE CLASS 2 FOR PIPE (9)	SQYD	180
2650	MAINTAIN & CONTROL TRAFFIC (US 68 @ CS 4328)	LS	1
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	2
2676	MOBILIZATION FOR MILL & TEXT	LS	1
2677	ASPHALT PAVE MILLING & TEXTURING (1)	TON	120
2696	SHOULDER RUMBLE STRIPS (4)	LF	225
2701	TEMP SILT FENCE	LF	500
2703	SILT TRAP TYPE A	EACH	1
2704	SILT TRAP TYPE B	EACH	1
2705	SILT TRAP TYPE C	EACH	1
2706	CLEAN SILT TRAP TYPE A	EACH	1
2707	CLEAN SILT TRAP TYPE B	EACH	1
2708	CLEAN SILT TRAP TYPE C	EACH	1
2720	SIDEWALK-4 IN CONCRETE (3)	SQYD	61
2721	REMOVE CONCRETE SIDEWALK (3)	SQYD	27
2726	STAKING (US 68 @ CS 4328)	LS	1
4792	CONDUIT-1 IN (RIGID STEEL) (7)	LF	60
4793	CONDUIT-1 1/4 IN (7)	LF	38
4811	ELECTRICAL JUNCTION BOX TYPE B (7)	EACH	1
4830	LOOP WIRE (7)	LF	2404
4844	CABLE-NO. 14/5C (7)	LF	940
4850	CABLE-NO. 14/1 PAIR (7)	LF	340
4895	LOOP SAW SLOT AND FILL (7)	LF	862

- (1) QUANTITY CARRIED OVER FROM PAVEMENT SUMMARY
- (2) QUANTITY CARRIED OVER FROM DRAINAGE SUMMARY
- (3) QUANTITY CARRIED OVER FROM SIDEWALK AND CURB AND GUTTER SUMMARY
- (4) QUANTITY CARRIED OVER FROM RUMBLE STRIP AND PAVEMENT MARKER SUMMARY
- (5) QUANTITY CARRIED OVER FROM STRIPING AND PAVEMENT MARKING SUMMARY
- (6) QUANTITY CARRIED OVER FROM MARKING REMOVAL AND WATERBLASTING SUMMARY
- (7) QUANTITY CARRIED OVER FROM SIGNAL SUMMARY
- (8) QUANTITY CARRIED OVER FROM SIGN SUMMARY
- (9) QUANTITY TO BE USED FOR EDGE DRAINS AT DIRECTION OF ENGINEER

US 68 (HARRODSBURG RD) MP 2.403 ITEM NO. 7-9006.30 GENERAL SUMMARY			
ITEM	DESCRIPTION	UNIT	QUANTITY
4950	REMOVE SIGNAL EQUIPMENT (7)	EACH	1
5950	EROSION CONTROL BLANKET	SQYD	525
5952	TEMP MULCH	SQYD	900
5953	TEMP SEEDING AND PROTECTION	SQYD	675
5963	INITIAL FERTILIZER	SQYD	0.08
5964	MAINTENANCE FERTILIZER	SQYD	0.05
5985	SEEDING AND PROTECTION	SQYD	525
5990	SODDING (3)	SQYD	80
5992	AGRICULTURAL LIMESTONE	TON	0.07
6407	SBM ALUM SHEET SIGNS .125 IN (8)	SQFT	10
6410	STEEL POST TYPE 1 (8)	LF	25
6540	PAVE STRIPING-THERMO-4 IN W (5)	LF	220
6541	PAVE STRIPING-THERMO-4 IN Y (5)	LF	342
6566	PAVE MARKING-THERMO X-WALK-12 IN (5)	LF	487
6568	PAVE MARKING-THERMO STOP BAR-24 IN (5)	LF	188
6574	PAVE MARKING-THERMO CURV ARROW (5)	EACH	11
6575	PAVE MARKING-THERMO COMB ARROW (5)	EACH	2
6598	PAVEMENT MARKING REMOVAL (6)	SQFT	227
20093NS835	INSTALL PEDESTRIAN HEAD-LED (7)	EACH	6
20188NS835	INSTALL LED SIGNAL-3 SECTION (7)	EACH	4
20189NS835	INSTALL LED SIGNAL-5 SECTION (7)	EACH	1
20266ES835	INSTALL LED SIGNAL-4 SECTION (7)	EACH	2
20550ND	SAWCUT PAVEMENT (1)	LF	813
21597EN	REMOVE PERF PIPE HEADWALL (9)	EACH	1
21659NN	RELOCATE SIGNAL HEAD (7)	EACH	2
21743NN	INSTALL PEDESTRIAN DETECTOR (7)	EACH	6
22664EN	WATER BLASTING EXISTING STRIPE (6)	LF	83
23158ES505	DETECTABLE WARNINGS (3)	SQFT	60
23055N	REMOVE (BRICK MAILBOX)	LS	1
23222EC	INSTALL SIGNAL PEDESTAL (7)	EACH	2
23556NC	ADJUST LIGHTING JUNCTION BOX (7)	EACH	1
23610NC	CORED HOLE DRAINAGE BOX CON (4") (9)	EACH	1
23610NC	CORED HOLE DRAINAGE BOX CON (24") (2)	EACH	1
24189ER	DURABLE WATERBORNE MARKING-6 IN W (5)	LF	910
24190ER	DURABLE WATERBORNE MARKING-6 IN Y (5)	LF	684
24489EC	INLAID PAVEMENT MARKER (4)	EACH	28
24631EC	BARCODE SIGN INVENTORY (8)	EACH	1
24679ED	PAVE MARK THERMO CHEVRON (5)	SQFT	487
24683ED	PAVE MARKING-THERMO DOTTED LANE EXTEN (5)	LF	58
24785EC	FIBER REINFORCEMENT FOR HMA (1)	TON	435
24963ED	LOOP TEST (7)	EACH	5
24901EC	PVC CONDUIT-2 IN-SCHEDULE 80 (7)	LF	12
24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING (1)	TON	1.5

- (1) QUANTITY CARRIED OVER FROM PAVEMENT SUMMARY
- (2) QUANTITY CARRIED OVER FROM DRAINAGE SUMMARY
- (3) QUANTITY CARRIED OVER FROM SIDEWALK AND CURB AND GUTTER SUMMARY
- (4) QUANTITY CARRIED OVER FROM RUMBLE STRIP AND PAVEMENT MARKER SUMMARY
- (5) QUANTITY CARRIED OVER FROM STRIPING AND PAVEMENT MARKING SUMMARY
- (6) QUANTITY CARRIED OVER FROM MARKING REMOVAL AND WATERBLASTING SUMMARY
- (7) QUANTITY CARRIED OVER FROM SIGNAL SUMMARY
- (8) QUANTITY CARRIED OVER FROM SIGN SUMMARY
- (9) QUANTITY TO BE USED FOR EDGE DRAINS AT DIRECTION OF ENGINEER

PAVING SUMMARY			
Paving Areas		Paving Quantities	
Item	SQYD	Item	TON
Harrodsburg Road Quantities			
Inbound Offset Left Turn Lane			
DGA	211	6.00" DGA*	73
CL3 ASPH BASE 1.00D PG76-22	629	3.50" CL3 ASPH BASE 1.00D PG76-22**	121
CL3 ASPH SURF 0.38A PG76-22	658	1.50" CL3 ASPH SURF 0.38A PG76-22**	54
ASPHALT MATERIAL FOR TACK	1,072	ASPHALT MATERIAL FOR TACK	0.5
ASPHALT PAVE MILLING & TEXTURING	500	ASPHALT PAVE MILLING & TEXTURING	42
FIBER REINFORCEMENT FOR ASPHALT	1,287	FIBER REINFORCEMENT FOR ASPHALT	175
			SQYD
FABRIC-GEOTEXTILE CLASS 1A	211	FABRIC-GEOTEXTILE CLASS 1A	211
	LF		LF
SAWCUT PAVEMENT	246	SAWCUT PAVEMENT	246
Outbound Offset Left Turn Lane			
DGA	360	6.00" DGA*	125
CL3 ASPH BASE 1.00D PG76-22	1,044	3.50" CL3 ASPH BASE 1.00D PG76-22**	201
CL3 ASPH SURF 0.38A PG76-22	708	1.50" CL3 ASPH SURF 0.38A PG76-22**	59
ASPHALT MATERIAL FOR TACK	1,395	ASPHALT MATERIAL FOR TACK	0.6
ASPHALT PAVE MILLING & TEXTURING	417	ASPHALT PAVE MILLING & TEXTURING	35
FIBER REINFORCEMENT FOR ASPHALT	1,752	FIBER REINFORCEMENT FOR ASPHALT	260
			SQYD
FABRIC-GEOTEXTILE CLASS 1A	360	FABRIC-GEOTEXTILE CLASS 1A	360
	LF		LF
SAWCUT PAVEMENT	365	SAWCUT PAVEMENT	365
Ft. Harrods Drive Quantities			
DGA	164	8.00" DGA*	76
CL3 ASPH BASE 1.00D PG76-22	166	3.00" CL3 ASPH BASE 1.00D PG76-22**	28
CL3 ASPH SURF 0.38A PG76-22	840	1.00" CL3 ASPH SURF 0.38A PG76-22**	47
ASPHALT MATERIAL FOR TACK	940	ASPHALT MATERIAL FOR TACK	0.4
ASPHALT PAVE MILLING & TEXTURING	788	ASPHALT PAVE MILLING & TEXTURING	43
	LF		LF
SAWCUT PAVEMENT	202	SAWCUT PAVEMENT	202

Note: These numbers are for estimate purposes only. Final locations and quantities will be determined by the Engineer in the field.

Item	Description	Unit	Quantity
1	DGA BASE	TON	274
216	CL3 ASPH BASE 1.00D PG76-22	TON	350
336	CL3 ASPH SURF 0.38A PG76-22	TON	160
2604	FABRIC-GEOTEXTILE CLASS 1A	SQYD	571
2677	ASPHALT PAVE MILLING & TEXTURING	TON	120
20550ND	SAWCUT PAVEMENT	LF	813
24785EC	FIBER REINFORCEMENT FOR HMA	TON	435
24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	TON	1.5

\* Estimated at 115 lb/SqYd/in of depth  
\* Estimated at 110 lb/SqYd/in of depth

DRAINAGE SUMMARY											
Station	Milepoint	Existing Pipe				Proposed Pipe					
		Size and Type	Skew	Length	Remove Pipe (LF)	Remove CB (Top Phase Only) (EA)	Cap DBI (EA)	24" Storm Sewer Pipe (LF)	DBI Type 13 (Top Phase Only) (EA)	DBI Type 5E (EA)	Cored Hole Drainage Box Con (24")
Fort Harrods Drive Stationing											
10+67.0	0.202	--	--	--	--	1	--	--	1	--	--
Harrodsburg Road Stationing											
129+00.0	2.443	24" RCP	0°	--	--	--	1	111	--	1	1

Note: These numbers are for estimate purposes only. Final locations and quantities will be determined by the Engineer in the field.

Item	Description	Unit	Quantity
524	STORM SEWER PIPE-24 IN	LF	111
1310	REMOVE PIPE	LF	13
1514	DROP BOX INLET TYPE 5E	EACH	1
1571	DROP BOX INLET TYPE 13ST (TOP PHASE)	EACH	1
1584	CAP DROP BOX INLET	EACH	1
1718	REMOVE INLET (TOP PHASE ONLY)	EACH	1
23610NC	CORED HOLE DRAINAGE BOX CON (24")	EACH	1

SIDEWALK QUANTITIES						
Begin Station	Begin Offset	End Station	End Offset	Description	Unit	Quantity
Fort Harrods Drive Stationing						
9+15	31' RT	9+31	35.2' RT	REMOVE CONCRETE SIDEWALK	SQYD	6
9+17	31' LT	9+31.2	35.3' LT	REMOVE CONCRETE SIDEWALK	SQYD	6
10+78.5	20.5' LT	10+89.5	35' LT	REMOVE CONCRETE SIDEWALK	SQYD	8
10+80.3	23.3' RT	10+91	35' RT	REMOVE CONCRETE SIDEWALK	SQYD	7
9+21.3	28.7' RT	9+31	35.2' RT	REMOVE CURB AND GUTTER	LF	12
9+42.5	51.7' LT	9+23	29' LT	REMOVE CURB AND GUTTER	LF	31
10+54	37' LT	10+60.3	29' LT	REMOVE CURB AND GUTTER	LF	13
12+27	18.5' RT	10+60	58.4' RT	REMOVE CURB AND GUTTER	LF	193
9+15	31' RT	9+31	35.2' RT	SIDEWALK-4 IN CONCRETE	SQYD	10
9+17	31' LT	9+42.5	51.7' LT	SIDEWALK-4 IN CONCRETE	SQYD	23
10+54	44' LT	10+89.5	35' LT	SIDEWALK-4 IN CONCRETE	SQYD	22
10+80.3	23.3' RT	10+91	35' RT	SIDEWALK-4 IN CONCRETE	SQYD	6
9+25	33' RT	--	--	DETECTABLE WARNINGS	SQFT	20
9+26	33' LT	--	--	DETECTABLE WARNINGS	SQFT	8
9+40	50' LT	--	--	DETECTABLE WARNINGS	SQFT	8
10+55	42' LT	--	--	DETECTABLE WARNINGS	SQFT	8
10+81	22' LT	--	--	DETECTABLE WARNINGS	SQFT	8
10+84	26' RT	--	--	DETECTABLE WARNINGS	SQFT	8
9+21.3	28.7' RT	9+31	35.2' RT	STANDARD CURB AND GUTTER (MOD)	LF	12
9+42.5	51.7' RT	9+23	29' LT	STANDARD CURB AND GUTTER (MOD)	LF	31
10+54	49' LT	10+60.3	29' LT	STANDARD CURB AND GUTTER (MOD)	LF	24
12+27	18.5' RT	10+58	64.5' RT	STANDARD CURB AND GUTTER (MOD)	LF	194
NORTH QUADRANT*				SODDING	SQYD	41
SOUTH QUADRANT*				SODDING	SQYD	7
EAST QUADRANT*				SODDING	SQYD	8
WEST QUADRANT*				SODDING	SQYD	24

\*For areas disturbed by construction  
Note: These numbers are for estimate purposes only. Final locations and quantities will be determined by the Engineer in the field.

Item	Description	Unit	Quantity
1811	STANDARD CURB AND GUTTER (MOD)	LF	261
1812	REMOVE CURB AND GUTTER	LF	249
2720	SIDEWALK-4 IN CONCRETE	SQYD	61
2721	REMOVE CONCRETE SIDEWALK	SQYD	27
5990	SODDING	SQYD	80
23158ES505	DETECTABLE WARNINGS	SQFT	60

SHOULDER RUMBLE STRIPS						
Begin Station	Begin Offset	End Station	End Offset	Bid Item	Unit	Quantity
Harrodsburg Road Stationing						
122+50.0	21.5' RT	124+74.0	5.7' RT	SHOULDER RUMBLE STRIPS	LF	225

INLAID PAVEMENT MARKERS						
Begin Station	Begin Offset	End Station	End Offset	Bid Item	Unit	Quantity
Harrodsburg Road Stationing						
122+50.0	22' RT	126+30.0	7.3' LT	INLAID PAVEMENT MARKER	EACH	10
124+74.3	18' RT	126+30.0	4.7' RT	INLAID PAVEMENT MARKER	EACH	4
127+35.7	4.9' LT	130+35.7	18' LT	INLAID PAVEMENT MARKER	EACH	7
127+35.7	7.1' RT	130+35.7	6' LT	INLAID PAVEMENT MARKER	EACH	7

Note: These numbers are for estimate purposes only. Final locations and quantities will be determined by the Engineer in the field.

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>
2696	SHOULDER RUMBLE STRIPS	LF	225
24489EC	INLAID PAVEMENT MARKER	EACH	28

STRIPING						
Begin Station	Begin Offset	End Station	End Offset	Length	Type	Description
Fort Harrods Drive Stationing						
10+93	9' LT	12+03	9' LT	110	PAVE STRIPING-THERMO-4 IN W	Solid white turn lane line
10+93	0.5' RT	12+03	0.5' RT	110	PAVE STRIPING-THERMO-4 IN W	Solid white turn lane line
11+03	10' RT	12+48	6.5' RT	290	PAVE STRIPING-THERMO-4 IN Y	Double yellow line
12+88	2.5' RT	13+13	0	52	PAVE STRIPING-THERMO-4 IN Y	Double yellow line
Harrodsburg Road Stationing						
124+74.3	18' RT	126+28.0	4.7' LT	155	DUR. WATERBORNE MKG-6 IN W	Chevron border
124+74.3	18' RT	126+28.0	18' RT	155	DUR. WATERBORNE MKG-6 IN W	Chevron border
127+35.7	4.9' LT	132+48.2	18' LT	300	DUR. WATERBORNE MKG-6 IN W	Chevron border
127+35.7	18' LT	132+48.2	18' LT	300	DUR. WATERBORNE MKG-6 IN W	Chevron border
122+50.5	22' RT	126+30.0	7.3' LT	381	DUR. WATERBORNE MKG-6 IN Y	Single yellow line
127+33.7	7.1' RT	130+35.7	18' RT	303	DUR. WATERBORNE MKG-6 IN Y	Single yellow line

PAVEMENT MARKINGS						
Begin Station	Begin Offset	End Station	End Offset	Unit	Quantity	Description
Fort Harrods Drive Stationing						
9+19	8' LT	9+19	25.5' RT	LF	34	PAVE MARKING-THERMO STOP BAR-24 IN
9+45	57' LT	010+07	57' LT	LF	63	PAVE MARKING-THERMO STOP BAR-24 IN
9+93	47' RT	10+54	47' RT	LF	62	PAVE MARKING-THERMO STOP BAR-24 IN
10+93	18.5' LT	10+93	0.5' RT	LF	19	PAVE MARKING-THERMO STOP BAR-24 IN
11+03	0.5' RT	11+03	10' RT	LF	10	PAVE MARKING-THERMO STOP BAR-24 IN
9+32	31' LT	9+31	31' RT	LF	159	PAVE MARKING-THERMO X-WALK-12 IN
9+43	46' LT	10+52	40' LT	LF	216	PAVE MARKING-THERMO X-WALK-12 IN
10+76	18' LT	10+78	22' RT	LF	112	PAVE MARKING-THERMO X-WALK-12 IN
9+71	66' RT	10+76	0.5' RT	LF	36	PAVE MARKING-THERMO DOTTED LANE EXTEN
12+03	9' LT	12+45	9' LT	LF	11	PAVE MARKING-THERMO DOTTED LANE EXTEN
12+48	6.5' RT	12+88	2.5' RT	LF	11	PAVE MARKING-THERMO DOTTED LANE EXTEN
11+20.0	13' LT	--	--	EACH	1	PAVE MARKING-CURV ARROW
11+20.0	3.5' LT	--	--	EACH	1	PAVE MARKING-COMB ARROW
11+35.0	6' RT	--	--	EACH	1	PAVE MARKING-CURV ARROW
11+90.0	13' LT	--	--	EACH	1	PAVE MARKING-CURV ARROW
11+90.0	3.5' LT	--	--	EACH	1	PAVE MARKING-COMB ARROW
11+80.0	6' RT	--	--	EACH	1	PAVE MARKING-CURV ARROW
Harrodsburg Road Stationing						
124+74.0	12' RT	--	--	EACH	1	PAVE MARKING-CURV ARROW
125+31.0	7.5' RT	--	--	EACH	1	PAVE MARKING-CURV ARROW
125+88.0	2.5' RT	--	--	EACH	1	PAVE MARKING-CURV ARROW
125+76.0	0.8' LT	--	--	EACH	1	PAVE MARKING-CURV ARROW
128+51.0	4' LT	--	--	EACH	1	PAVE MARKING-CURV ARROW
129+26.0	9.3' LT	--	--	EACH	1	PAVE MARKING-CURV ARROW
130+01.0	10.6' LT	--	--	EACH	1	PAVE MARKING-CURV ARROW
124+74.3	18' RT	126+28.0	18' RT	SQFT	179	PAVE MARK THERMO CHEVRON
127+35.7	18' LT	130+35.7	18' LT	SQFT	308	PAVE MARK THERMO CHEVRON

Note: These numbers are for estimate purposes only. Final locations and quantities will be determined by the Engineer in the field.

Item	Description	Unit	Quantity
6540	PAVE STRIPING-THERMO-4 IN W	LF	220
6541	PAVE STRIPING-THERMO-4 IN Y	LF	342
6566	PAVE MARKING-THERMO X-WALK-12 IN	LF	487
6568	PAVE MARKING-THERMO STOP BAR-24 IN	LF	188
6574	PAVE MARKING-THERMO CURV ARROW	EACH	11
6575	PAVE MARKING-THERMO COMB ARROW	EACH	2
24189ER	DURABLE WATERBORNE MARKING-6 IN W	LF	910
24190ER	DURABLE WATERBORNE MARKING-6 IN Y	LF	684
24679ED	PAVE MARK THERMO CHEVRON	SQFT	487
24683ED	PAVE MARKING-THERMO DOTTED LANE EXTEN	LF	58



PAVEMENT MARKING REMOVAL					
Begin Station	Begin Offset	End Station	End Offset	Area (SQFT)	Description
Fort Harrods Drive Stationing					
9+21	8' LT	9+21	26' RT	68	Existing Stop Bar
9+33	33' LT	9+33	33' RT	61	Existing Crosswalk
9+45	44' LT	9+94	44' LT	98	Existing Stop Bar

WATERBLAST EXISTING STRIPE					
Begin Station	Begin Offset	End Station	End Offset	Length	Description
Fort Harrods Drive Stationing					
9+45	57' LT	9+45	47' LT	10	White Line
9+58	57' LT	9+58	47' LT	10	White Line
9+70	57' LT	9+70	47' LT	10	White Line
9+82	57' LT	9+82	47' LT	10	White Line
10+54	8' LT	9+71	66'RT	33	Dotted Extension Line

Note: These numbers are for estimate purposes only. Final locations and quantities will be determined by the Engineer in the field.

Item	Description	Unit	Quantity
6598	PAVEMENT MARKING REMOVAL	SQFT	227
22664EN	WATER BLASTING EXISTING STRIPE	LF	83

INSTALL SIGNAL HEADS		
Station*	Offset*	Description
Fort Harrods Drive Stationing		
09+24	13' LT	5-section LED signal head
09+66	37' RT	3-Section LED signal head with reflective backplate
09+78	37' RT	3-Section LED signal head with reflective backplate
10+07	36' RT	4-section LED signal head with reflective backplate
09+95	32' LT	4-section LED signal head with reflective backplate
10+24	30' LT	3-Section LED signal head with reflective backplate
10+36	29' LT	3-Section LED signal head with reflective backplate

\*Station and Offset are approximate and for information only. Align signal heads with existing span wires and driving lanes.

RELOCATE SIGNAL HEADS				
From Station*	From Offset*	To Station*	To Offset*	Description
Fort Harrods Drive Stationing				
9+24	7' LT	9+24	4' LT	4-section signal head
9+24	0'	9+24	5' RT	3-section signal head

\*Station and Offset are approximate and for information only. Align signal heads with existing span wires and driving lanes.

PEDESTRIAN SIGNAL QUANTITIES						
Fort Harrods Drive Stationing						
09+23	37' RT	--	--	INSTALL PEDESTRIAN HEAD-LED	EACH	1
				INSTALL PEDESTRIAN DETECTOR	EACH	1
09+25	37' LT	--	--	INSTALL PEDESTRIAN HEAD-LED	EACH	1
				INSTALL PEDESTRIAN DETECTOR	EACH	1
09+40	55' LT	--	--	INSTALL PEDESTRIAN SIGNAL PEDESTAL	EACH	1
				INSTALL PEDESTRIAN HEAD-LED	EACH	1
				INSTALL PEDESTRIAN DETECTOR	EACH	1
10+57	46' LT	--	--	INSTALL PEDESTRIAN SIGNAL PEDESTAL	EACH	1
				INSTALL PEDESTRIAN HEAD-LED	EACH	1
				INSTALL PEDESTRIAN DETECTOR	EACH	1
10+79	26' LT	--	--	INSTALL PEDESTRIAN HEAD-LED	EACH	1
				INSTALL PEDESTRIAN DETECTOR	EACH	1
10+80	35' RT	--	--	INSTALL PEDESTRIAN HEAD-LED	EACH	1
				INSTALL PEDESTRIAN DETECTOR	EACH	1

Note: These numbers are for estimate purposes only. Final locations and quantities will be determined by the Engineer in the field.

Item	Description	Unit	Quantity
4792	CONDUIT-1 IN (RIGID STEEL)	LF	60
4793	CONDUIT-1 1/4 IN	LF	38
4811	ELECTRICAL JUNCTION BOX TYPE B	EACH	1
4830	LOOP WIRE	LF	2404
4844	CABLE-NO. 14/5C	LF	940
4850	CABLE-NO. 14-1 PAIR	LF	340
4895	LOOP SAW SLOT AND FILL	LF	862
4950	REMOVE SIGNAL EQUIPMENT	EACH	1
20093NS835	INSTALL PEDESTRIAN HEAD-LED	EACH	6
20188NS83	INSTALL LED SIGNAL-3 SECTION	EACH	4
20189NS835	INSTALL LED SIGNAL-5 SECTION	EACH	1
20266ES835	INSTALL LED SIGNAL-4 SECTION	EACH	2
21659NN	RELOCATE SIGNAL HEAD	EACH	2
21743NN	INSTALL PEDESTRIAN DETECTOR	EACH	6
23222EC	INSTALL SIGNAL PEDESTAL	EACH	2
24693ED	LOOP TEST	EACH	5
24901EC	PVC CONDUIT-2 IN-SCHEDULE 80	LF	12

Replacement Signal Heads for: US 68 @ CS 4328

Signal Heads For EB US 68

Signal Head	Red Ball	Red Arrow	Yellow Ball	Yellow Arrow	Green Ball	Green Arrow
4-Section with Backplate		1		2		1
3-Section with Backplate	1		1		1	
3-Section with Backplate	1		1		1	
Totals	2	1	2	2	2	1

Signal Heads For WB US 68

Signal Head	Red Ball	Red Arrow	Yellow Ball	Yellow Arrow	Green Ball	Green Arrow
4-Section with Backplate		1		2		1
3-Section with Backplate	1		1		1	
3-Section with Backplate	1		1		1	
Totals	2	1	2	2	2	1

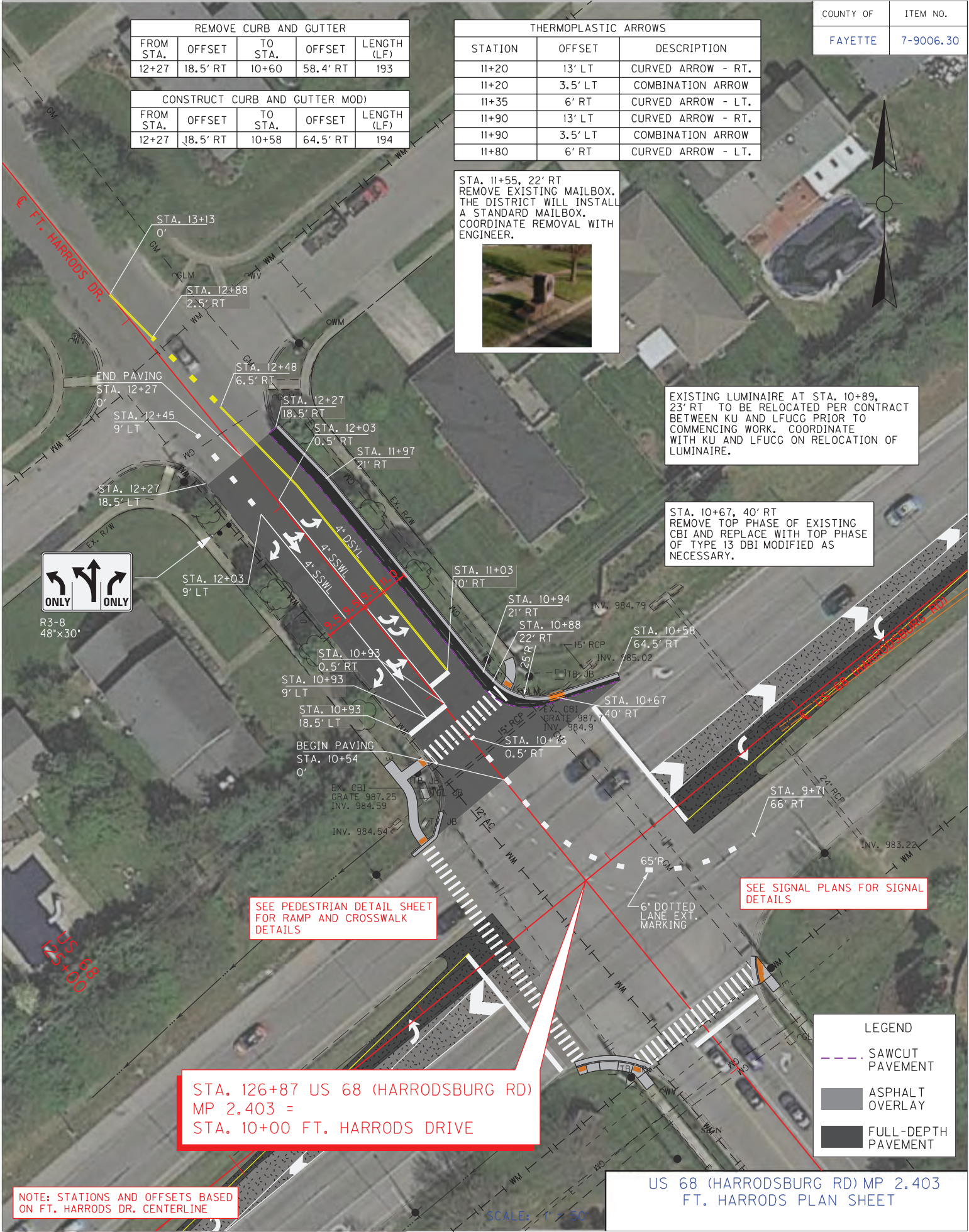
Signal Heads For SB CS 4328

Signal Head	Red Ball	Red Arrow	Yellow Ball	Yellow Arrow	Green Ball	Green Arrow
5-Section	1		1	1	1	1
Totals	1	0	1	1	1	1

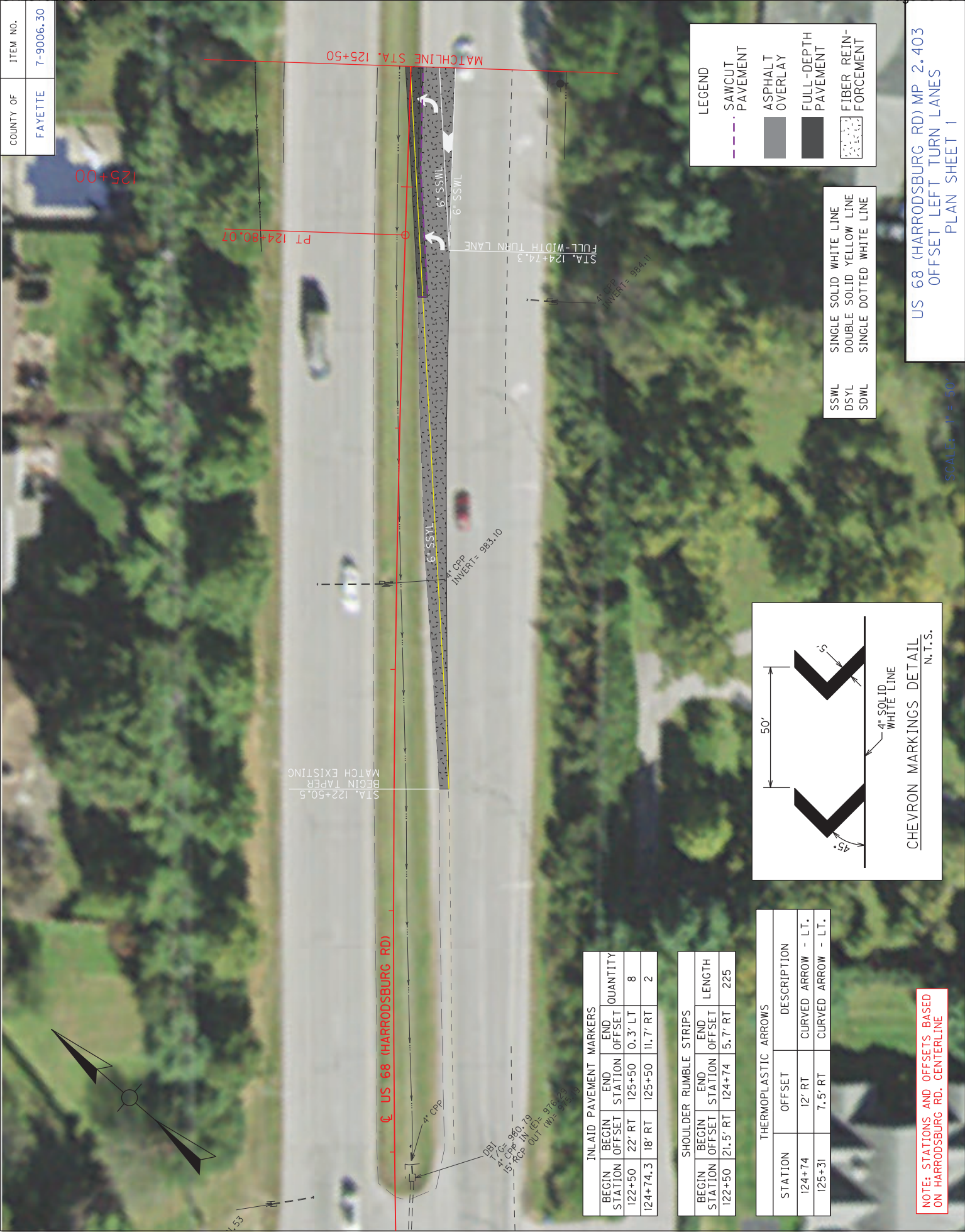
Signs												
Fort Harrods Drive Stationing												
Station	Offset	Facing Traffic Traveling	MUTCD Code	Sign Dimensions (in x in)	SBM Alum Sheet Signs .125 in (SF)	Text/Symbol Color	Background Color	Sheeting Type	# of Sign Posts	Steel Post Type 1 (LF)	Installation Type	Barcode Sign Inventory (Each)
12+09	25.5' LT	SB	R3-8	48 x 30	10	Black	White	XI	2	25	Stnd w/Soil Plate	1

Note: These numbers are for estimate purposes only. Final locations and quantities will be determined by the Engineer in the field.

Item	Description	Unit	Quantity
6407	SBM ALUM SHEET SIGNS .125 IN	SQFT	10
6410	STEEL POST TYPE 1	LF	25
24631EC	BARCODE SIGN INVENTORY	EACH	1







COUNTY OF  
FAYETTE

ITEM NO.  
7-9006.30

LEGEND

---

SAWCUT PAVEMENT

■

ASPHALT OVERLAY

■

FULL-DEPTH PAVEMENT

▨

FIBER REIN-FORCEMENT

SSWL

DSYL

SDWL

—

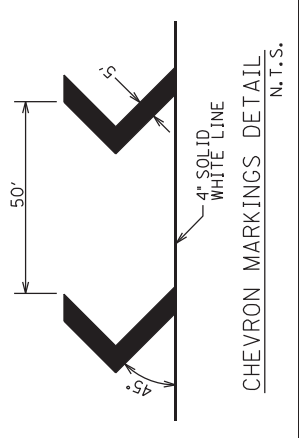
SINGLE SOLID WHITE LINE

—

DOUBLE SOLID YELLOW LINE

—

SINGLE DOTTED WHITE LINE



INLAID PAVEMENT MARKERS			
BEGIN STATION	BEGIN OFFSET	END STATION	END OFFSET
122+50	22' RT	125+50	0.3' LT
124+74.3	18' RT	125+50	11.7' RT

SHOULDER RUMBLE STRIPS			
BEGIN STATION	BEGIN OFFSET	END STATION	END OFFSET
122+50	21.5' RT	124+74	5.7' RT

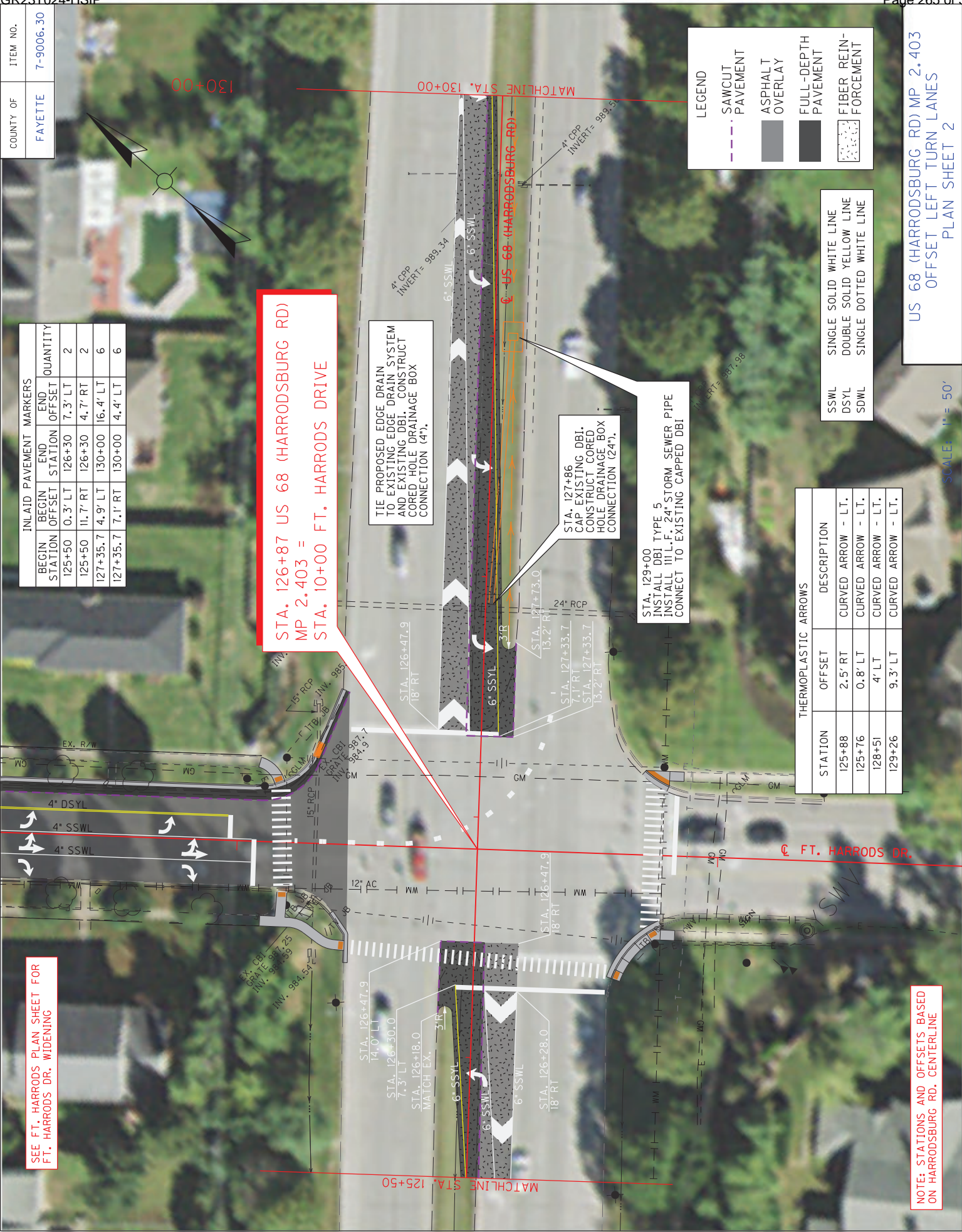
THERMOPLASTIC ARROWS		DESCRIPTION
STATION	OFFSET	
124+74	12' RT	CURVED ARROW - LT.
125+31	7.5' RT	CURVED ARROW - LT.

NOTE: STATIONS AND OFFSETS BASED ON HARRODSBURG RD, CENTERLINE

US 68 (HARRODSBURG RD) MP 2.403  
OFFSET LEFT TURN LANES  
PLAN SHEET 1

SCALE: 1" = 50'





SEE FT. HARRODS PLAN SHEET FOR  
FT. HARRODS DR. WIDENING

STA. 126+87 US 68 (HARRODSBURG RD)  
MP 2.403 =  
STA. 10+00 FT. HARRODS DRIVE

INLAID PAVEMENT MARKERS			
BEGIN STATION	BEGIN OFFSET	END STATION	END QUANTITY
125+50	0.3' LT	126+30	7.3' LT 2
125+50	11.7' RT	126+30	4.7' RT 2
127+35.7	4.9' LT	130+00	16.4' LT 6
127+35.7	7.1' RT	130+00	4.4' RT 6

COUNTY OF	ITEM NO.
FAYETTE	7-9006.30

STATION	OFFSET	DESCRIPTION
125+88	2.5' RT	CURVED ARROW - LT.
125+76	0.8' LT	CURVED ARROW - LT.
128+51	4' LT	CURVED ARROW - LT.
129+26	9.3' LT	CURVED ARROW - LT.

LEGEND	
	SAWCUT PAVEMENT
	ASPHALT OVERLAY
	FULL-DEPTH PAVEMENT
	FIBER REINFORCEMENT

	SINGLE SOLID WHITE LINE
	DOUBLE SOLID YELLOW LINE
	SINGLE DOTTED WHITE LINE

US 68 (HARRODSBURG RD) MP 2.403  
OFFSET LEFT TURN LANES  
PLAN SHEET 2

NOTE: STATIONS AND OFFSETS BASED  
ON HARRODSBURG RD. CENTERLINE

SCALE: 1" = 50'



INLAID PAVEMENT MARKERS				
BEGIN STATION	BEGIN OFFSET	END STATION	END OFFSET	QUANTITY
130+00	16.4' LT	130+35.7	18' LT	1
130+00	4.4' LT	130+35.7	6' LT	1

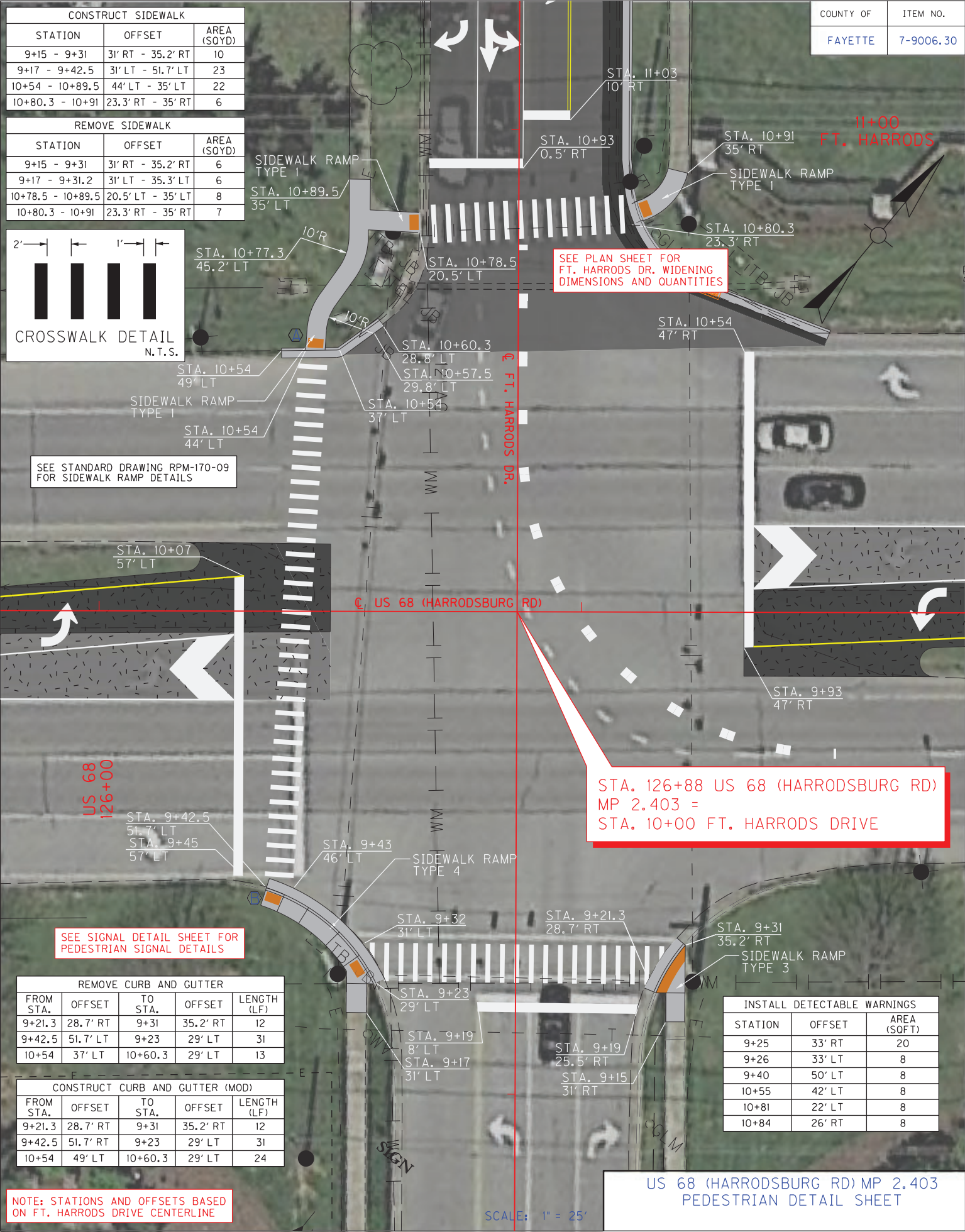


NOTE: STATIONS AND OFFSETS BASED ON HARRODSBURG RD. CENTERLINE

SCALE: 1" = 50'

US 68 (HARRODSBURG RD) MP 2.403  
OFFSET LEFT TURN LANES  
PLAN SHEET 3







RELOCATE SIGNAL HEADS			
FROM STATION	FROM OFFSET	FROM STATION	FROM OFFSET
9+24	7' LT	9+24	4' LT
9+24	0'	9+24	5' RT

INSTALL LED SIGNAL HEADS		
STATION	OFFSET	DESCRIPTION
9+24	13' LT	5-SECTION
9+66	37' RT	3-SECTION
9+78	37' RT	3-SECTION
10+07	36' RT	4-SECTION
9+95	32' LT	4-SECTION
10+24	30' LT	3-SECTION
10+36	29' LT	3-SECTION

INSTALL JB-B	
STATION	OFFSET
10+77	38' LT

SY

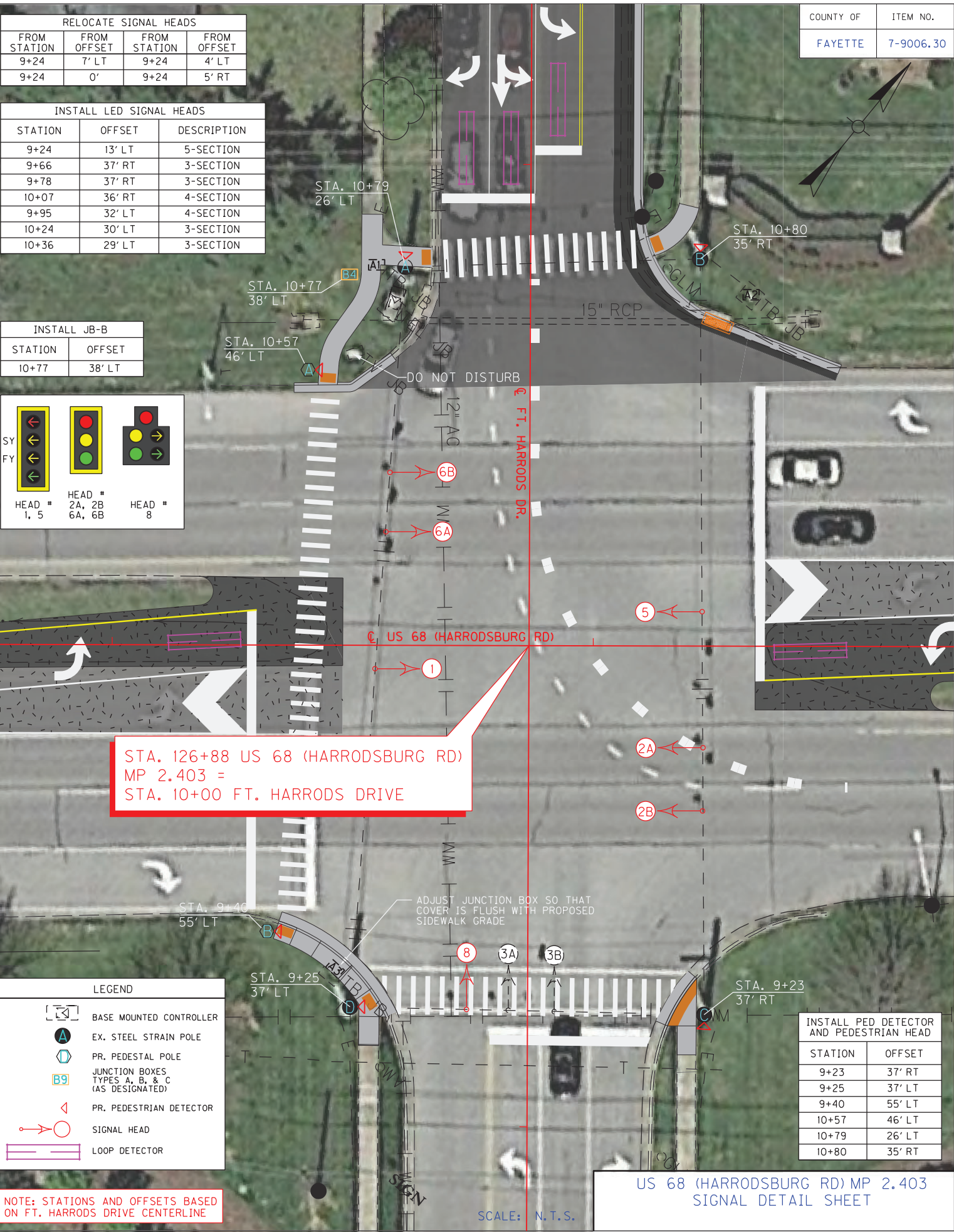
FY

HEAD #  
1, 5

HEAD #  
2A, 2B  
6A, 6B

HEAD #  
8

COUNTY OF	ITEM NO.
FAYETTE	7-9006.30



STA. 126+88 US 68 (HARRODSBURG RD)  
MP 2.403 =  
STA. 10+00 FT. HARRODS DRIVE

LEGEND	
	BASE MOUNTED CONTROLLER
	EX. STEEL STRAIN POLE
	PR. PEDESTAL POLE
	JUNCTION BOXES TYPES A, B, & C (AS DESIGNATED)
	PR. PEDESTRIAN DETECTOR
	SIGNAL HEAD
	LOOP DETECTOR

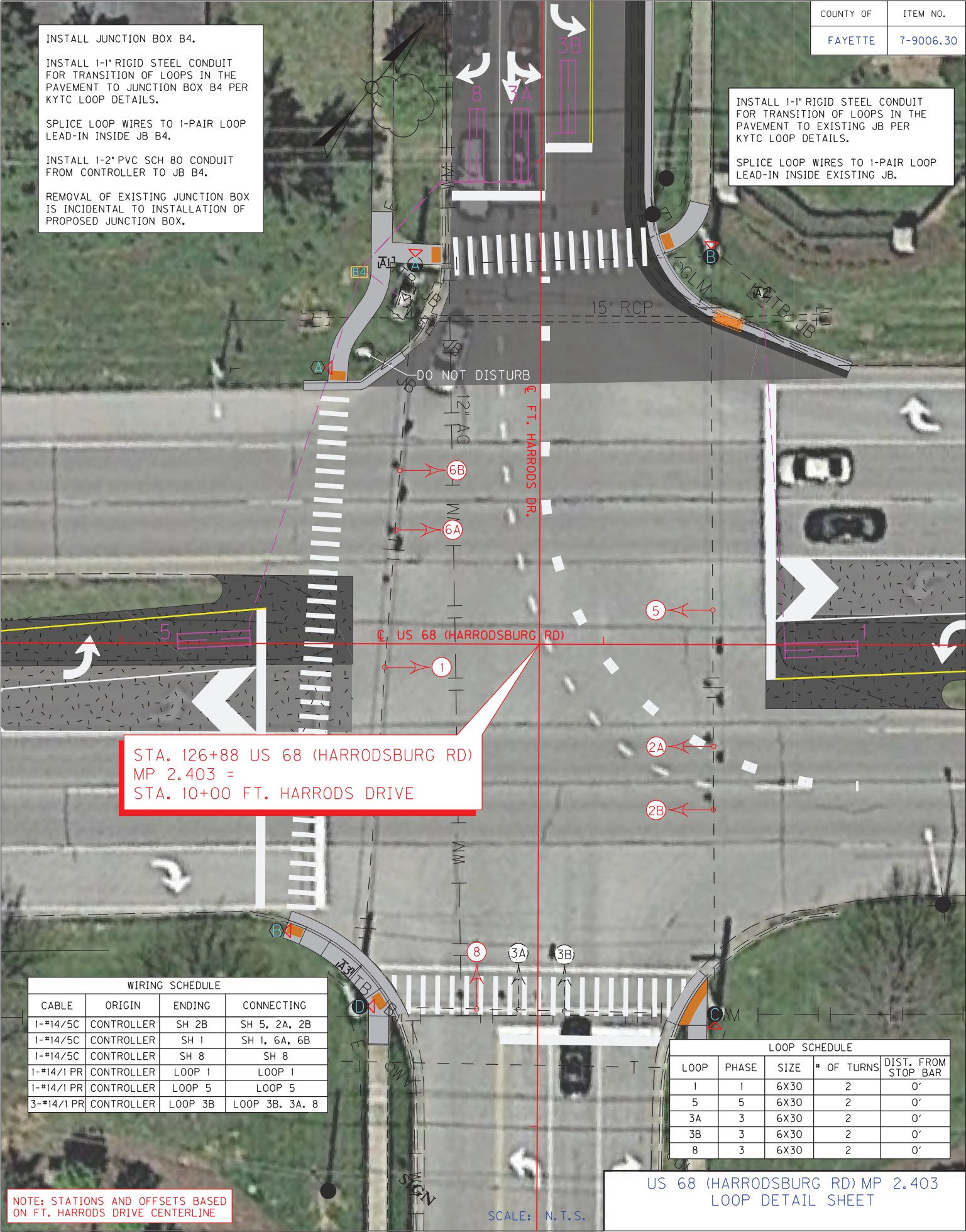
INSTALL PED DETECTOR AND PEDESTRIAN HEAD	
STATION	OFFSET
9+23	37' RT
9+25	37' LT
9+40	55' LT
10+57	46' LT
10+79	26' LT
10+80	35' RT

NOTE: STATIONS AND OFFSETS BASED  
ON FT. HARRODS DRIVE CENTERLINE

US 68 (HARRODSBURG RD) MP 2.403  
SIGNAL DETAIL SHEET

SCALE: N.T.S.





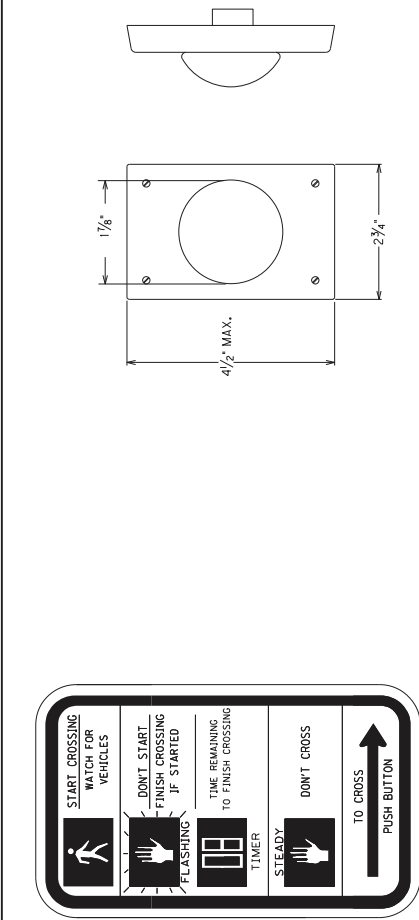
COUNTY OF	ITEM NO.
FAYETTE	7-9006.30

PEDESTRIAN SIGNAL HEAD NOTES:

- STA. 9+40, 55' LT:
- 1. INSTALL SIGNAL PEDESTAL 55' LT FT. HARRODS DR. STA. 9+40.
  - 2. TRENCH AND INSTALL 14/5 CABLE ENCASED IN 1 1/4" CONDUIT FROM PROP. SIGNAL PEDESTAL TO EX. STRAIN POLE LOCATED AT 37' LT. FT. HARRODS DR. STA. 9+25.
  - 3. INSTALL 14/5 CABLE INSIDE EX. STRAIN POLE LOCATED AT 37' LT FT. HARRODS DR. STA. 9+25.
  - 4. INSTALL 14/5 CABLE OVERHEAD FROM EX. STRAIN POLE LOCATED AT 37' LT FT. HARRODS DR. STA. 9+25 TO EX. STRAIN POLE LOCATED AT 26' LT FT. HARRODS DR. STA. 10+79.
  - 5. INSTALL 14/5 CABLE INSIDE EX. STRAIN POLE TO CONTROLLER CABINET.

- STA. 10+57, 46' LT:
- 1. INSTALL SIGNAL PEDESTAL 46' LT FT. HARRODS DR. STA. 10+57.
  - 2. TRENCH AND INSTALL 14/5 CABLE ENCASED IN 1 1/4" CONDUIT FROM PROP. SIGNAL PEDESTAL TO EX. CONTROLLER CABINET.

COUNTY OF	ITEM NO.	SHEET

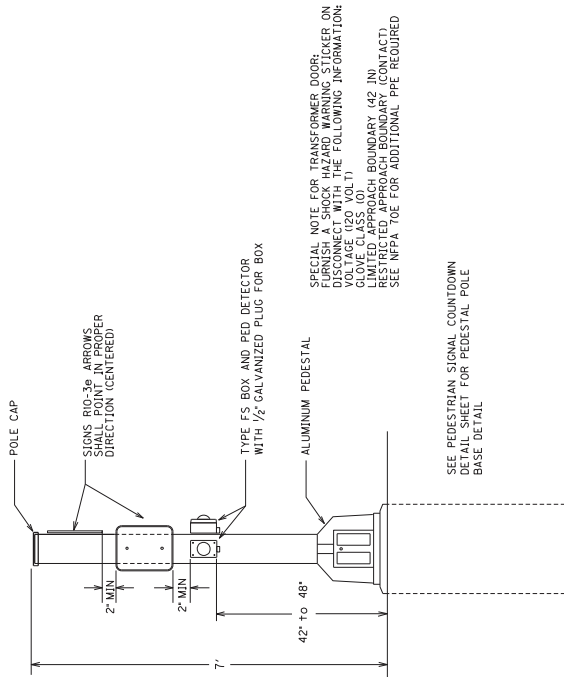


TYPE FS BOX FOR PED DETECTOR FOR USE WITH STEEL STRAIN POLE, WOOD POST, PEDESTAL, AND WOOD POLE

RIO-3e SIGN (9" X 15") FOR COUNTDOWN ONLY

PED DETECTOR

\*9 X 1/2 PAN HEAD OR ROUND HEAD WOOD SCREWS TO SECURE BOX TO POST. MINIMUM OF 2 SCREWS FOR EACH BOX. SCREWS SHALL BE INSTALLED DIAGONALLY.



PEDESTAL POST DETAIL FOR PED DETECTORS & SIGNS

PED DETECTOR ON WOOD POST DETAIL

8/3/2021

PEDESTRIAN DETECTOR DETAIL

29

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NOTE:

A 4" BY 6" SHOCK HAZARD WARNING STICKER

USE A SMALLER TRANSFORMER RACE IS INSTALLED  
USE A 3" RV 3" INSTEAD) INSTALL 3" FROM THE

TOP OF THE DOOR. THE SICKER SHALL BE  
LEFT OPEN FOR ONE HOUR AFTER THE

WITH .007 THICKNESS, WITH UV WHITE

MC53FL PRESSURE SENSITIVE ADHESIVE

INCIDENTAL TO THE PROJECT.

LINE CABLES

STOP SCREW  
STICKER ON DISCONNECT WITH THE

VOLTAGE (120 VOLT)

LOVE CLAYS (U)  
LIMITED APPROACH BOUNDARY (43 IN)

### RESTRICTED APPROACH BOUNDARY (CONTACT)

THIS SHALL BE INSTALLED  
ONLY AS NEEDED FOR

DO NOT REQUIRE

G INSTALLED IN THE NEUTRAL | PEDESTRIAN SIGNAL COUNTDOWN DETAIL

P	

g

2

2

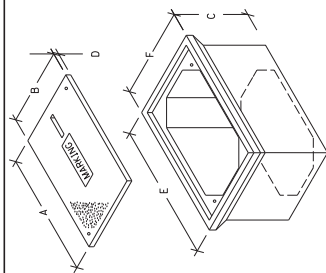
of

39

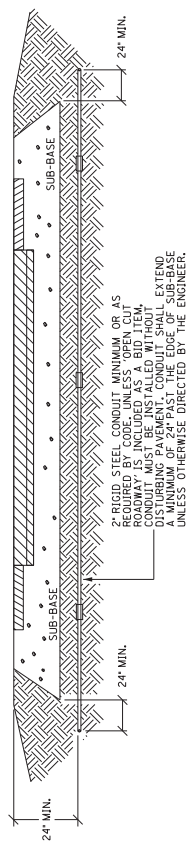


JUNCTION BOX DIMENSIONS (NOMINAL)						
	A	B	C	D	E	F
TYPE A	2 3/4"	1 1/4"	2 7/8"	2"	2 5/8"	1 5/8"
TYPE B	1 1/8"	1 1/8"	1 1/2"	1 3/4"	2 0/8"	1 3/8"
TYPE C	3 1/8"	2 1/4"	3 0/8"	3"	3 3/8"	2 3/8"

• MINIMUM  
NOTE: STACKABLE BOXES ARE PERMITTED



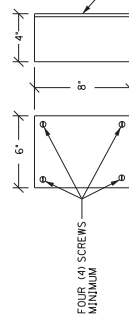
### CONDUIT INSTALLATION UNDER EXISTING PAVEMENT DETAIL



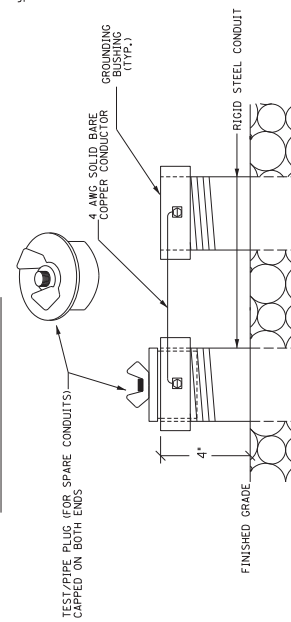
DEPTHS SHOWN FOR CONDUIT AND  
DUCTED CABLE ARE MINIMUMS.  
CONTRACTOR SHALL PLACE AND  
COMPACT BACKFILL IN 9" MAXIMUM  
LIFTS AND RETOPE DISTURBED AREA  
TO THE SATISFACTION OF THE ENGINEER.

CONDUIT, DUCTED CABLE,  
AND WARNING TAPE TRENCH

ABOVE GROUND BOX SHALL BE FABRICATED FROM MINIMUM 12 GAUGE STEEL AND GALVANIZED AFTER FABRICATION. BOXES SHALL HAVE NO KNOCKOUTS AND SHALL BE PROVIDED WITH A SEAL TO PREVENT AIR AND WEATHER FROM ENTERING. A MINIMUM OF FOUR CLAMPS FOR ATTACHING THE PLATE COVER TO THE BOX. CABLE CLAMPS SHALL BE PROVIDED FOR CABLES ENTERING AND EXITING THE BOX.

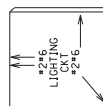


ABOVE GROUND BOX

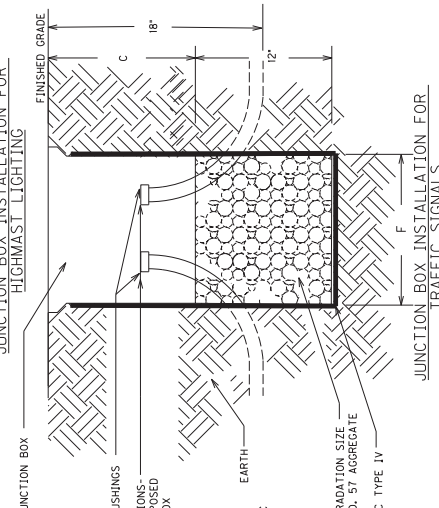


### JUNCTION BOX INSTALLATION FOR CONVENTIONAL LIGHTING

"#57 AGGREGATE FOR SHALL INSTALL W IN THE HOLE. THE LOW THE LIP OF THE CONDUIT SHALL BE ADHERED TO THE BOX, THE FABRIC IS NECESSARY TO SEAL CONDUIT THROUGH THE BOX. IT IS INCIDENTAL TO BID IS \$835.



## HIGHMAST LIGHTING



JUNCTION BOX INSTALLATION FOR  
TRAFFIC SIGNALS

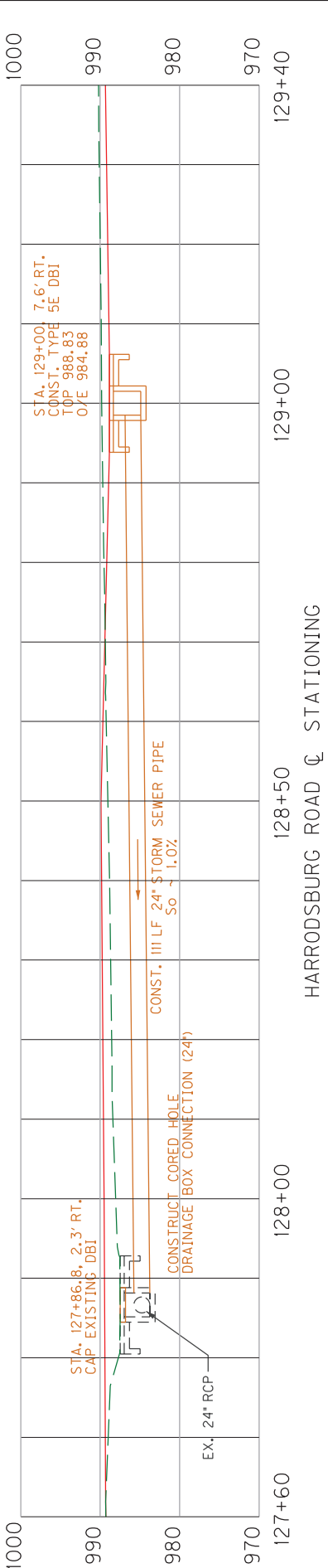
# TEST/PIPE PLUG(FOR SPARE CONDUITS) AND GROUNDING DETAIL CONCRETE CABLE MARKERS

3/13/2017

TRAFFIC SIGNAL AND  
ROADWAY LIGHTING  
JUNCTION BOX AND CONDUIT DETAILS



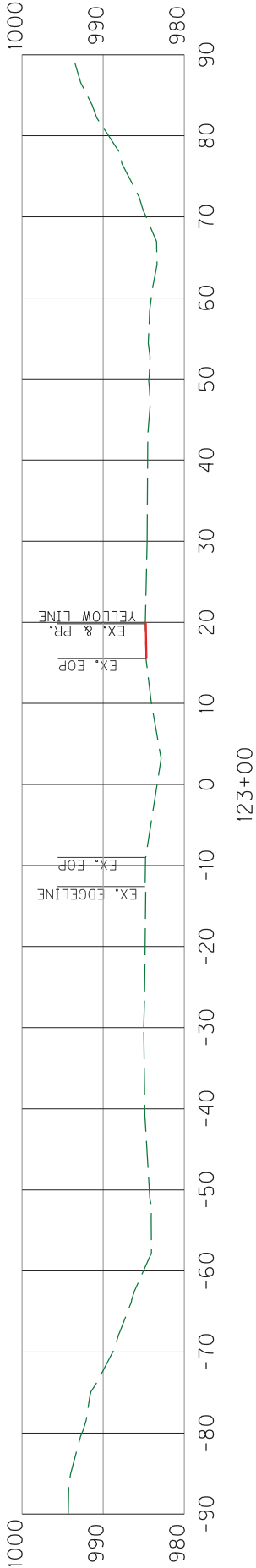
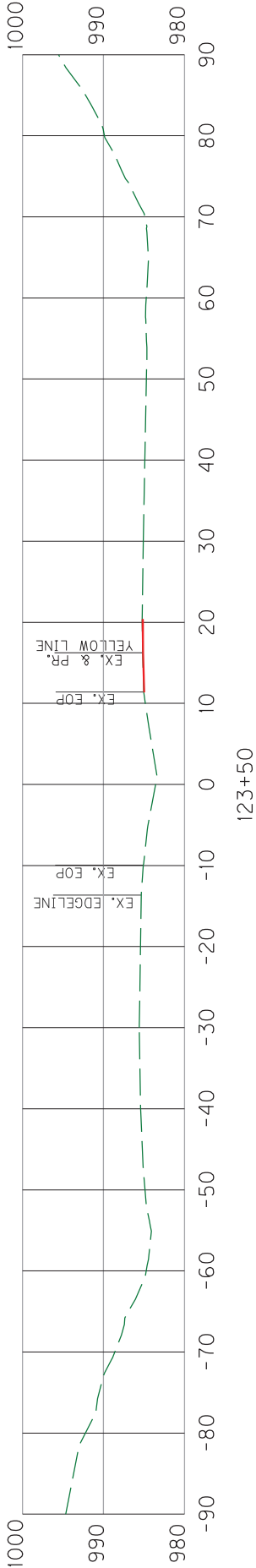
COUNTY OF	ITEM NO.
FAYETTE	7-9006.30



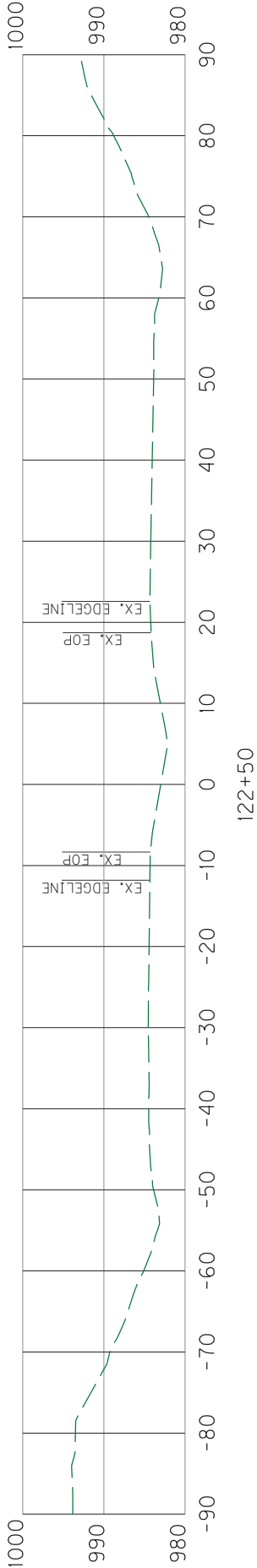
US 68 (HARRODSBURG RD) MP 2.403  
PIPE PROFILE SHEET

SCALE: 1"= 20'

COUNTY OF	ITEM NO.
FAYETTE	7-9006.30



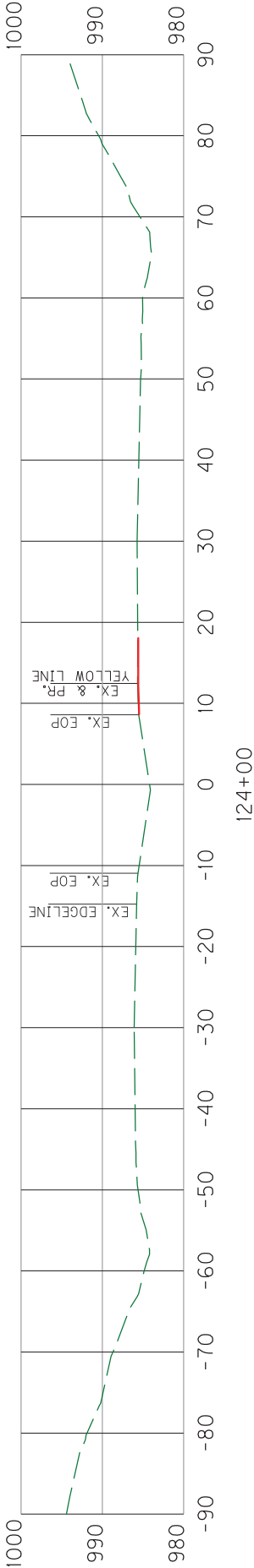
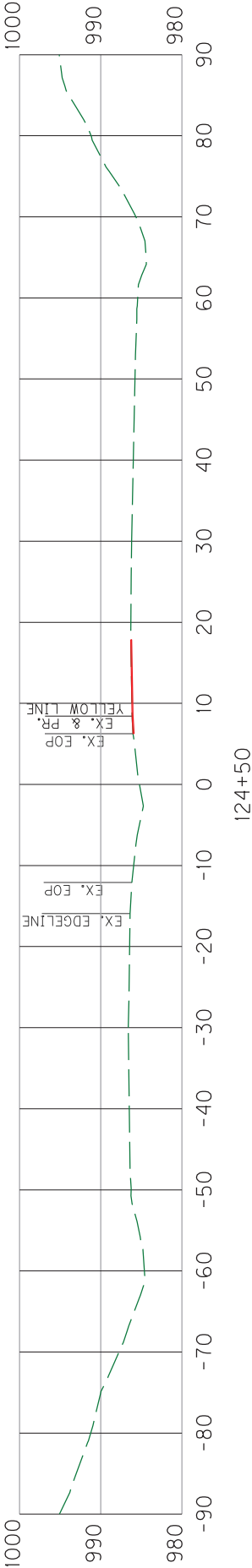
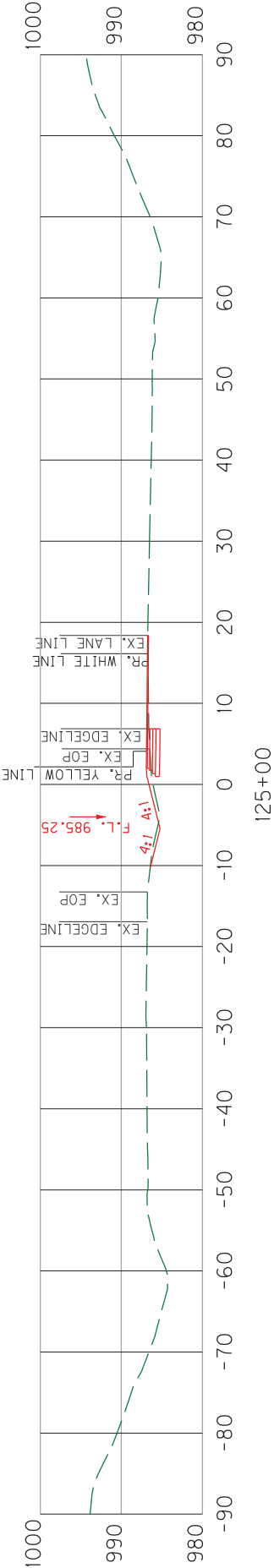
BEGIN PAVING  
STA. 122+50.5



US 68 (HARRODSBURG RD) MP 2.403  
CROSS-SECTION SHEET 1  
BEGIN PAVING TO STA. 123+50

SCALE: 1"= 20'

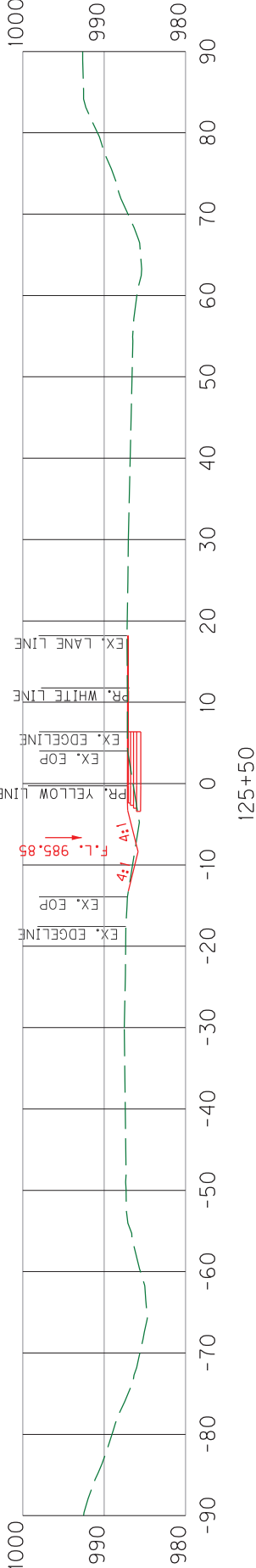
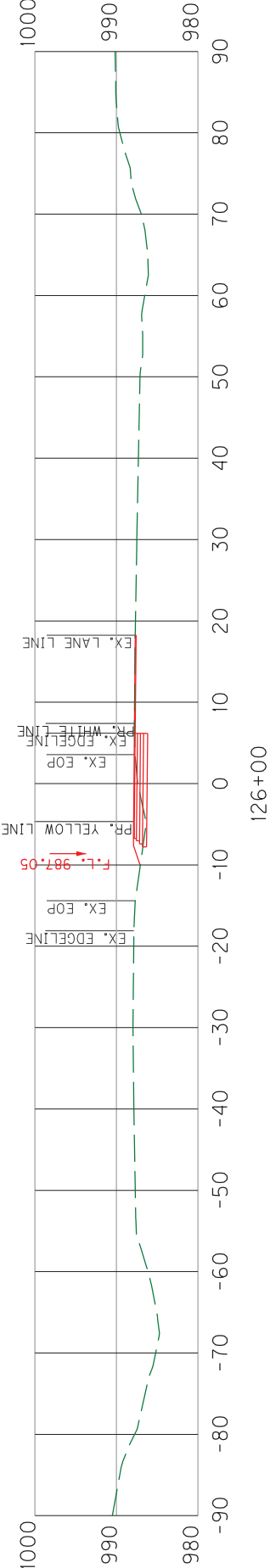
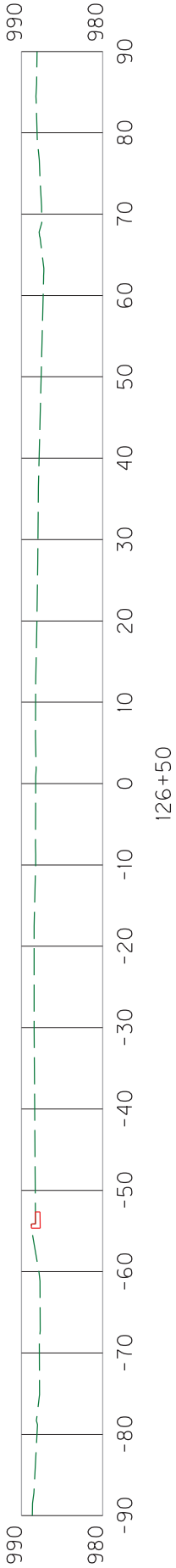
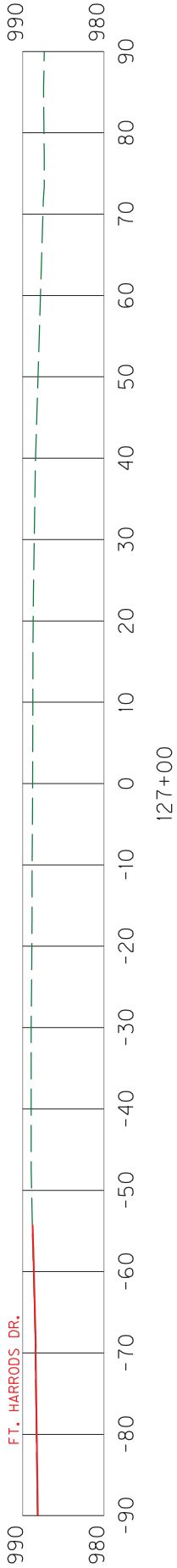
COUNTY OF	ITEM NO.
FAYETTE	7-9006.30



US 68 (HARRODSBURG RD) MP 2.403  
CROSS-SECTION SHEET 2  
STA. 124+00 TO STA. 125+00

SCALE: 1"= 20'

COUNTY OF	ITEM NO.
FAYETTE	7-9006.30

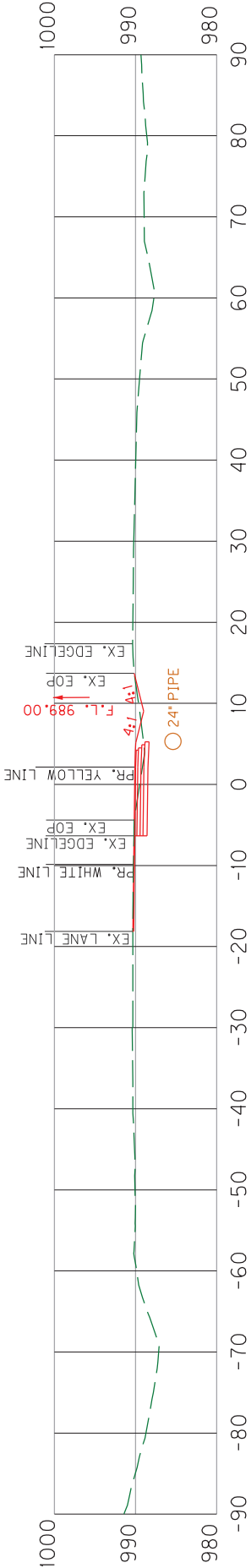


US 68 (HARRODSBURG RD) MP 2.403  
CROSS-SECTION SHEET 3  
STA. 125+50 TO STA. 127+00

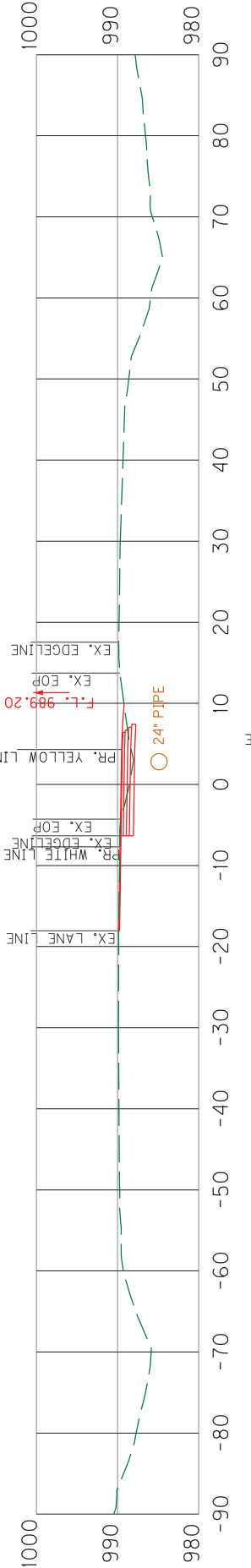
SCALE: 1"= 20'

COUNTY OF	ITEM NO.
FAYETTE	7-9006.30

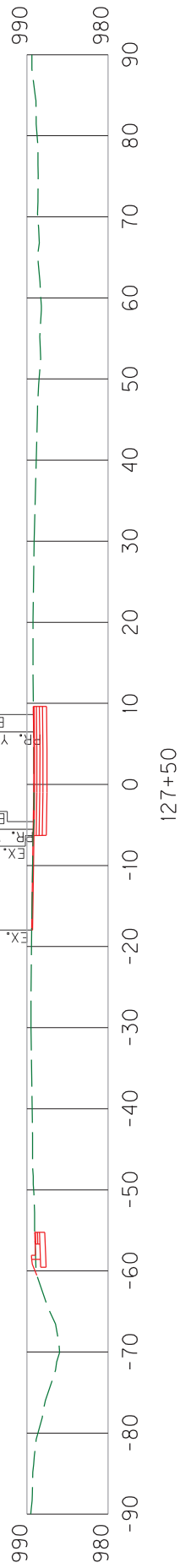
24" STORM SEWER PIPE



24" STORM SEWER PIPE



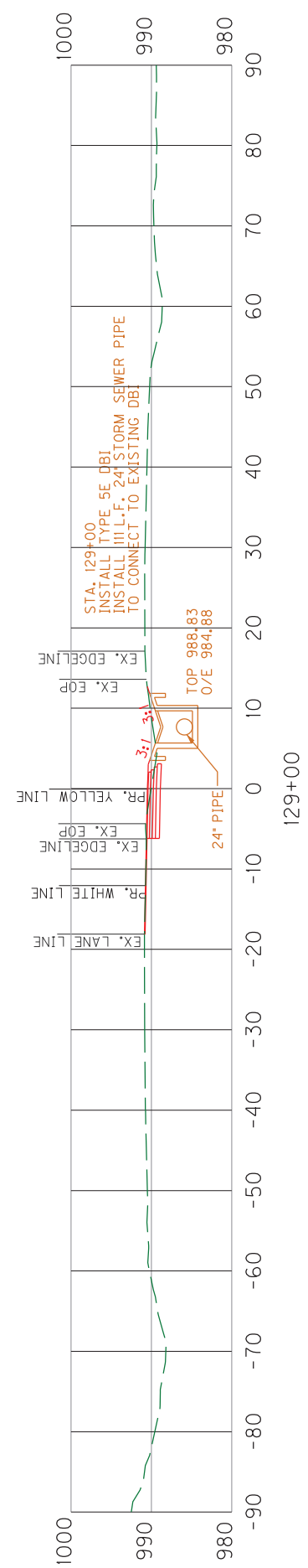
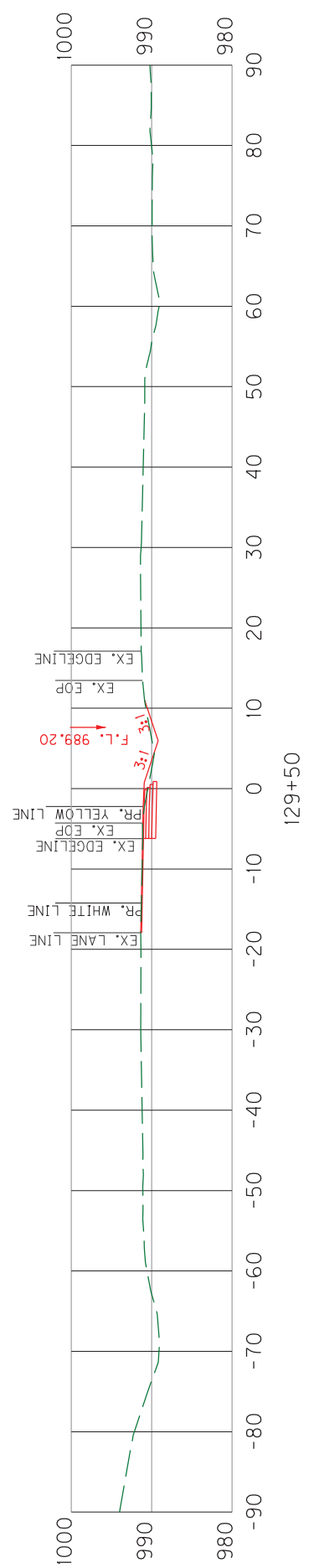
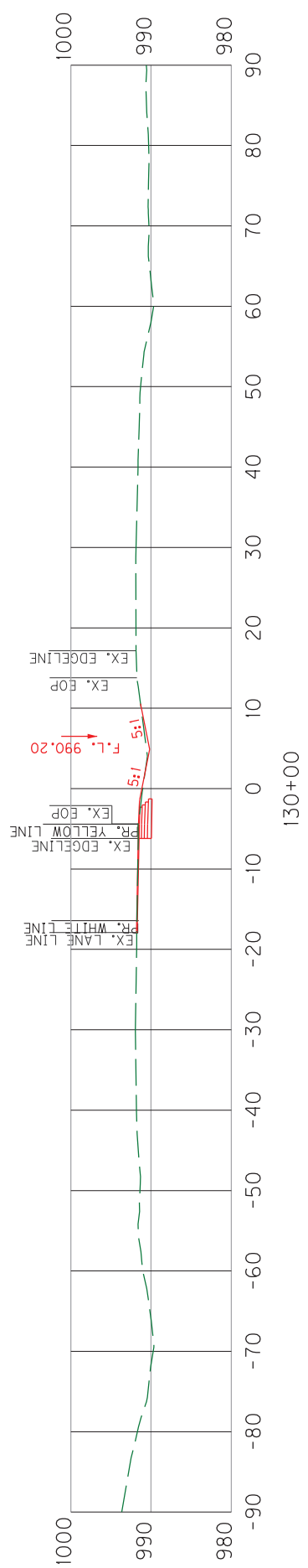
24" STORM SEWER PIPE



US 68 (HARRODSBURG RD) MP 2.403  
CROSS-SECTION SHEET 4  
STA. 127+50 TO STA. 128+50

SCALE: 1"= 20'

COUNTY OF	ITEM NO.
FAYETTE	7-9006.30



US 68 (HARRODSBURG RD) MP 2.403  
CROSS-SECTION SHEET 5  
STA. 129+00 TO STA. 130+00

SCALE: 1"= 20'

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.

Item Number: 7-9006.30

County: Fayette

Description: US 68 (HARRODSBURG RD) @ CS 4328 (FT HARRODS DR)

Signals		
4	T-02-0009	Siemens 3 Section Signal
4	T-02-0032	Siemen 3 section backplate
2	T-02-0033	Siemen 4 section 12" signal (poly)
1	T-02-0040	Siemen 5 section, 12 inch signal (poly)
2	T-02-0043	Siemen 4-sec. straight signal backplate
6	T-02-0090	Pedestrian signal housing
2	T-02-0300	LED Module 12" red arrow
5	T-02-0310	LED Module 12" yellow arrow
3	T-02-0320	LED Module 12" green arrow
5	T-02-0330	LED Module 12" red ball
5	T-02-0340	LED Module 12" yellow ball
5	T-02-0350	LED Module 12" green ball
6	T-02-0365	LED Countdown Pedestrian Module

Special items		
2	T-02-0650	Pedstl.top mntg.bkt One-way
2	T-02-0670	Pedestal
6	T-06-0710	Ped Detector Pole Mount FSA Box
6	T-06-0730	Ped Button w/o Plunger
6	T-17-0015	9 X 15 Countdown Ped Sign DBL Sided

REQUIRED

Electrical Contractor Name

Electrical Contractor Supervisor

Project Engineer

Project Engineer attests that the mentioned contractor is the actual electrical contractor on this project

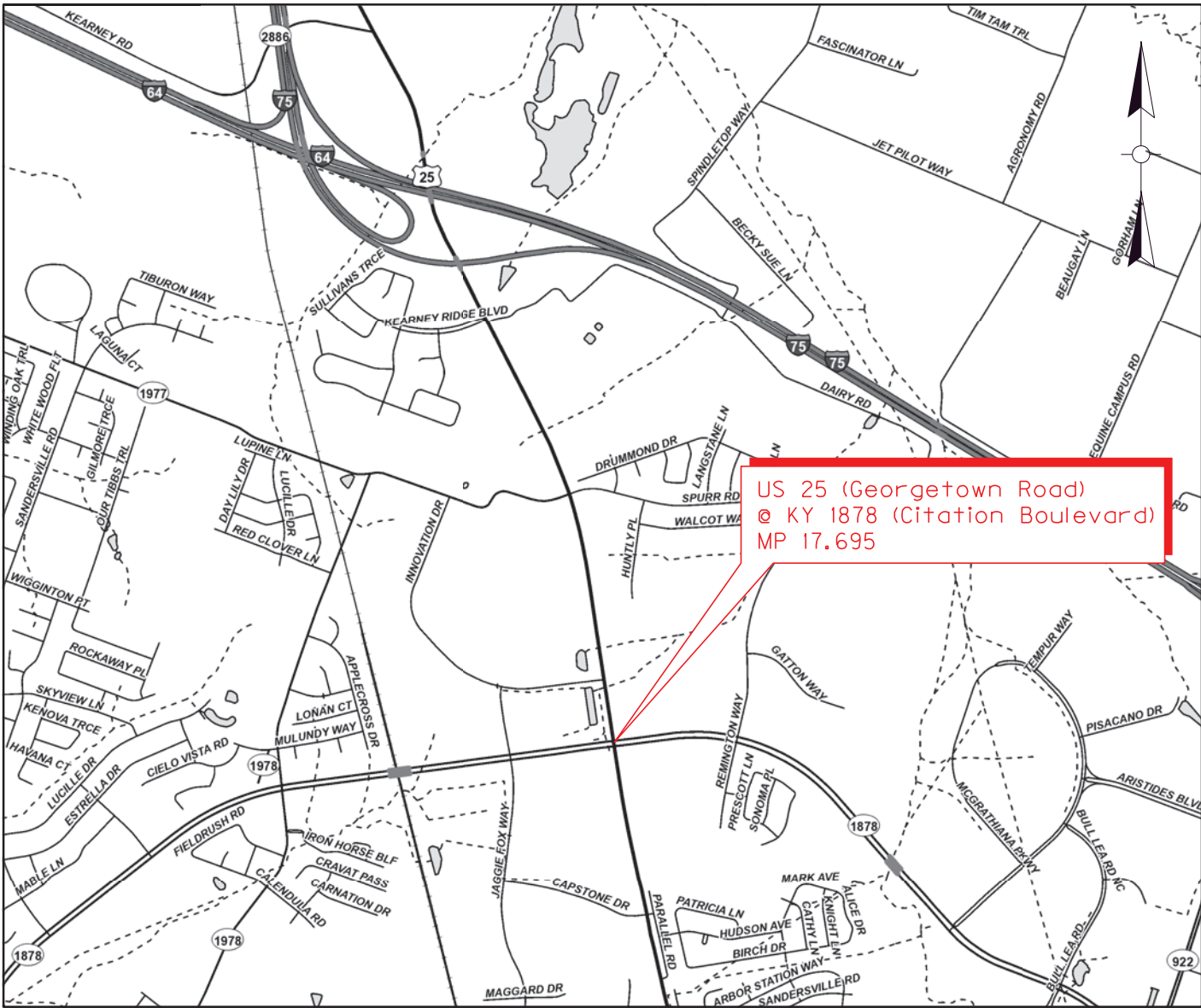
Signature of Project Engineer or Designee

Contact number for Supervisor

Contact number for Project Engineer



COUNTY OF	ITEM NO.
FAYETTE	7-9006.40



SCALE: 1"=2000'

FAYETTE COUNTY  
US 25 MP 17.695



GENERAL SUMMARY - US 25 (GEORGETOWN ROAD) MP 17.695			
ITEM	DESCRIPTION	UNIT	QUANTITY
1	DGA BASE	TON	47
214	CL3 ASPH BASE 1.00D PG64-22	TON	42
388	CL3 ASPH SURF 0.38B PG64-22	TON	5.1
1812	REMOVE CURB AND GUTTER	LF	147
1825	ISLAND CURB AND GUTTER	LF	150
2200	ROADWAY EXCAVATION	CUYD	94
2562	TEMPORARY SIGNS	SQFT	119
2569	DEMOBILIZATION	LS	1
2650	MAINTAIN & CONTROL TRAFFIC (US 25 @ KY 1878)	LS	1
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	2
2705	SILT TRAP TYPE C	EACH	4
2708	CLEAN SILT TRAP TYPE C	EACH	4
2726	STAKING (US 25 @ KY 1878)	LS	1
4844	CABLE-NO. 14/5C	LF	750
5990	SODDING	SQYD	100
6541	PAVE STRIPING-THERMO-4 IN Y	LF	106
20188NS835	INSTALL LED SIGNAL-3 SECTION	EACH	4
20550ND	SAWCUT PAVEMENT	LF	143
24683ED	PAVE MARKING-THERMO DOTTED LANE EXTEN 6"	LF	54
24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	TON	0.07

COUNTY OF	ITEM NO.
FAYETTE	7-9006.40

STRIPING						
Begin Station	Begin Offset	End Station	End Offset	Length	Type	Description
934+46.1	67.1' LT	934+54.2	127' LT	56	PAVE STRIPING-THERMO-4 IN Y	Single Solid Yellow Line
934+07.2	117.3' RT	934+15.1	68.9' RT	50	PAVE STRIPING-THERMO-4 IN Y	Single Solid Yellow Line

PAVEMENT MARKINGS						
Begin Station	Begin Offset	End Station	End Offset	Length	Description	
933+62.9	5.5' LT	934+43.0	55.7' LT	26	PAVE MARKING-THERMO DOTTED LANE EXTEN 6"	
934+17.1	58.4' RT	935+03.2	6' RT	28	PAVE MARKING-THERMO DOTTED LANE EXTEN 6"	

RESHAPE MEDIAN						
Begin Station	Begin Offset	End Station	End Offset	Description	Unit	Quantity
934+06	117.3'	934+21	65' RT	DGA BASE	TON	21
934+06	117.3'	934+21	65' RT	CL3 ASPH BASE 1.00D PG64-22	TON	18
934+06	117.3'	934+21	65' RT	ASPHALT MATERIAL FOR TACK NON-TRACKING	TON	0.03
934+06	117.3'	934+21	65' RT	CL3 ASPH SURF 0.38B PG64-22	TON	2.2
934+10.5	117.3'	934+22.9	75' RT	ISLAND CURB AND GUTTER	LF	69
934+10.5	117.3'	934+22.9	75' RT	REMOVE CURB AND GUTTER	LF	70
934+06	117.3'	934+21	65' RT	ROADWAY EXCAVATION	CUYD	43
934+10.5	117.3' RT	934+21	117.3' RT	SODDING	SQYD	44
934+06	117.3'	934+21	65' RT	SAWCUT PAVEMENT	LF	66
934+40.5	63'	934+55.2	127' LT	DGA BASE	TON	26
934+40.5	63'	934+55.2	127' LT	CL3 ASPH BASE 1.00D PG64-22	TON	24
934+40.5	63'	934+55.2	127' LT	ASPHALT MATERIAL FOR TACK NON-TRACKING	TON	0.04
934+40.5	63'	934+55.2	127' LT	CL3 ASPH SURF 0.38B PG64-22	TON	2.9
934+38.1	73'	934+50.9	127' LT	ISLAND CURB AND GUTTER	LF	81
934+38.1	73'	934+50.9	127' LT	REMOVE CURB AND GUTTER	LF	77
934+40.5	63'	934+55.2	127' LT	ROADWAY EXCAVATION	CUYD	51
934+38.1	127' LT	934+50.9	127' LT	SODDING	SQYD	56
934+40.5	63'	934+55.2	127' LT	SAWCUT PAVEMENT	LF	77

Note: These numbers are for estimate purposes only. Final locations and quantities will be determined by the Engineer in the field.

Item	Description	Unit	Quantity
1	DGA BASE	TON	47
214	CL3 ASPH BASE 1.00D PG64-22	TON	42
388	CL3 ASPH SURF 0.38B PG64-22	TON	5.1
1812	REMOVE CURB AND GUTTER	LF	147
1825	ISLAND CURB AND GUTTER	LF	150
2200	ROADWAY EXCAVATION	CUYD	94
5990	SODDING	SQYD	100
6541	PAVE STRIPING-THERMO-4 IN Y	LF	106
20550ND	SAWCUT PAVEMENT	LF	143
24683ED	PAVE MARKING-THERMO DOTTED LANE EXTEN 6'	LF	54
24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	TON	0.07

COUNTY OF	ITEM NO.
FAYETTE	7-9006.40

INSTALL SUPPLEMENTAL SIGNAL HEADS		
Station*	Offset*	Description
933+64	81.4' LT	3-Section LED signal head
933+59	83.6' RT	3-Section LED signal head
935+01	77.1' LT	3-Section LED signal head
935+06	63.9' RT	3-Section LED signal head

\*Station and Offset are approximate and are for information only. Mount signal heads on existing steel strain poles.

Item	Description	Unit	Quantity
20188NS85	INSTALL LED SIGNAL-3 SECTION	EACH	4

Supplemental Signal Heads for: US 25 @ KY 1878

Signal Heads For NB US 25

Signal Head	Red Ball	Red Arrow	Yellow Ball	Yellow Arrow	Green Ball	Green Arrow
3-Section	1		1		1	
Totals	1	0	1	0	1	0

Signal Heads For SB US 25

Signal Head	Red Ball	Red Arrow	Yellow Ball	Yellow Arrow	Green Ball	Green Arrow
3 Section	1		1		1	
Totals	1	0	1	0	1	0

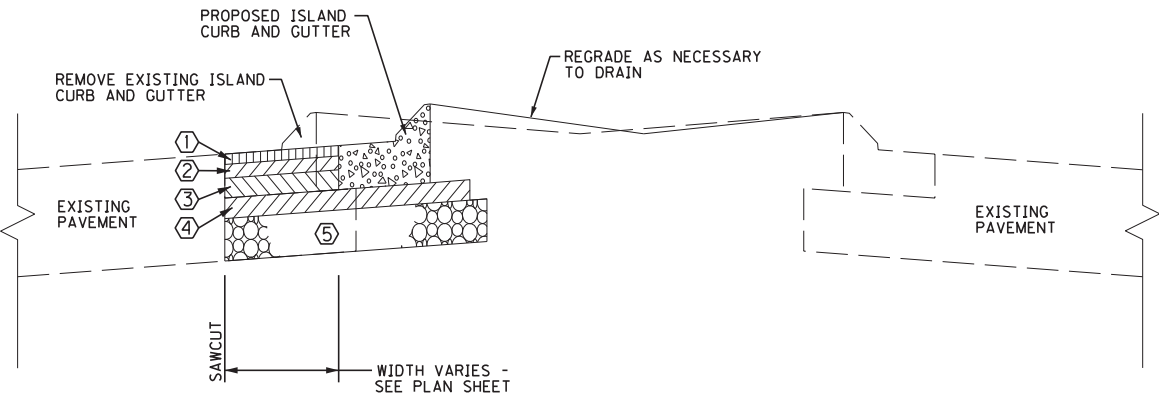
Signal Heads For EB KY 1878

Signal Head	Red Ball	Red Arrow	Yellow Ball	Yellow Arrow	Green Ball	Green Arrow
3 Section	1		1		1	
Totals	1	0	1	0	1	0

Signal Heads For WB KY 1878

Signal Head	Red Ball	Red Arrow	Yellow Ball	Yellow Arrow	Green Ball	Green Arrow
3 Section	1		1		1	
Totals	1	0	1	0	1	0

COUNTY OF	ITEM NO.
FAYETTE	7-9006.40



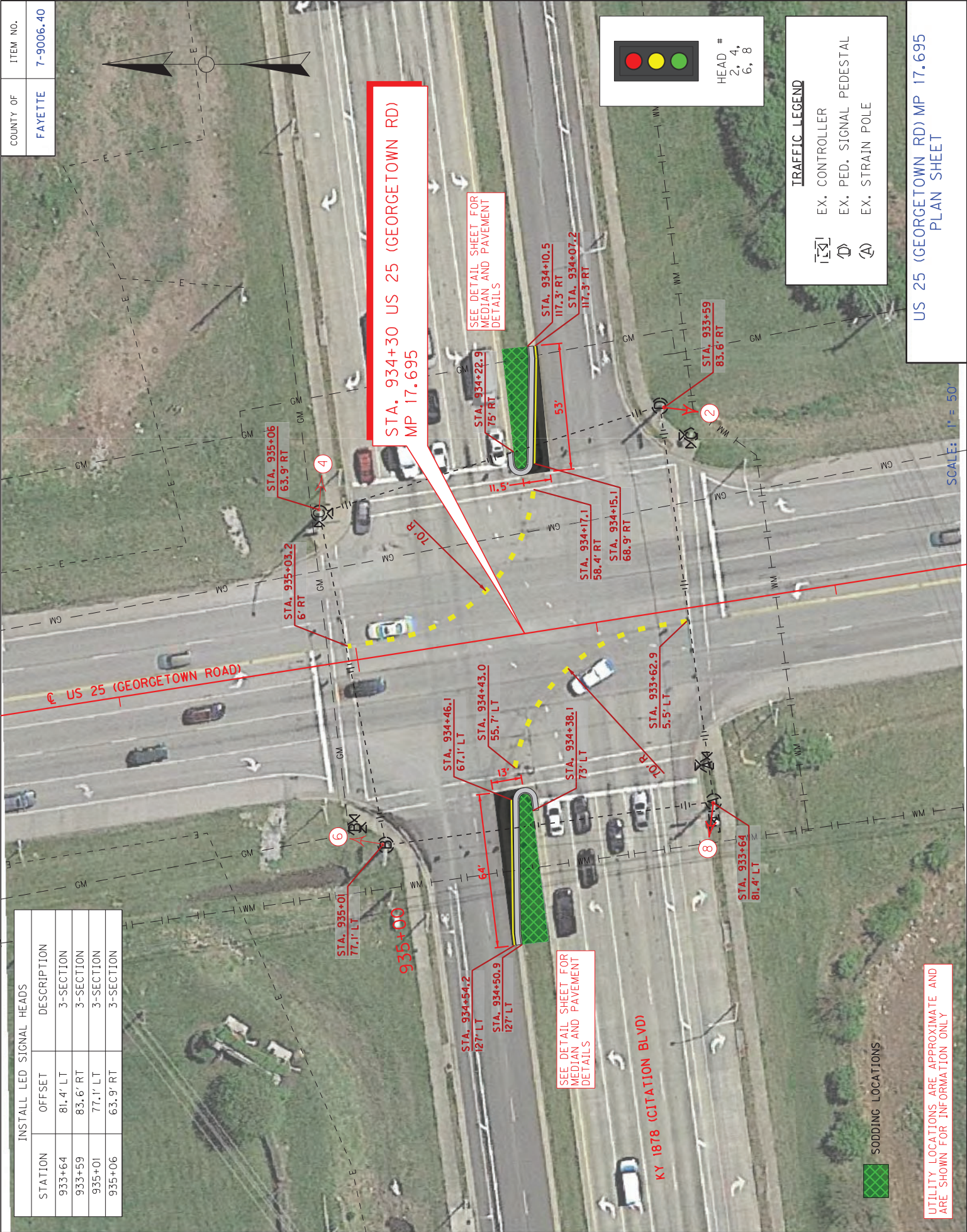
RESHAPE MEDIAN - TYPICAL SECTION

- ① 1.5" CL3 ASPH SURF 0.38B PG64-22
- ② 2.5" CL3 ASPH BASE 1.00D PG64-22
- ③ 4" CL3 ASPH BASE 1.00D PG64-22
- ④ 4" CL3 ASPH BASE 1.00D PG64-22
- ⑤ 8" DGA BASE

NOT TO SCALE

US 25 (GEORGETOWN RD) MP 17.695  
MEDIAN DETAIL SHEET





Tim Tharpe - Director

DIVISION OF TRAFFIC OPERATIONS

Phone (502) 564-3020  
FAX (502) 564-7759

RECOMMENDATION FOR PICKUP OF ITEMS TO BE INSTALLED  
ON TRAFFIC SIGNALS/LIGHTING

Item Number: 7-9006.40  
County: Fayette  
Description: US 25 (Georgetown Rd.) at KY 1878 (Citation Blvd.)

Signals		
4	T-02-0009	Siemens 3 Section Signal
4	T-02-0330	LED Module 12" red ball
4	T-02-0340	LED Module 12" yellow ball
4	T-02-0350	LED Module 12" green ball
	T-02-0365	LED Countdown Pedestrian Module

Special items		
4	T-02-0640	Mast arm mount signal bracket (3 section)

Electrical Contractor Name \_\_\_\_\_

Electrical Contractor Supervisor \_\_\_\_\_

Project Engineer \_\_\_\_\_

Contact number for Supervisor \_\_\_\_\_

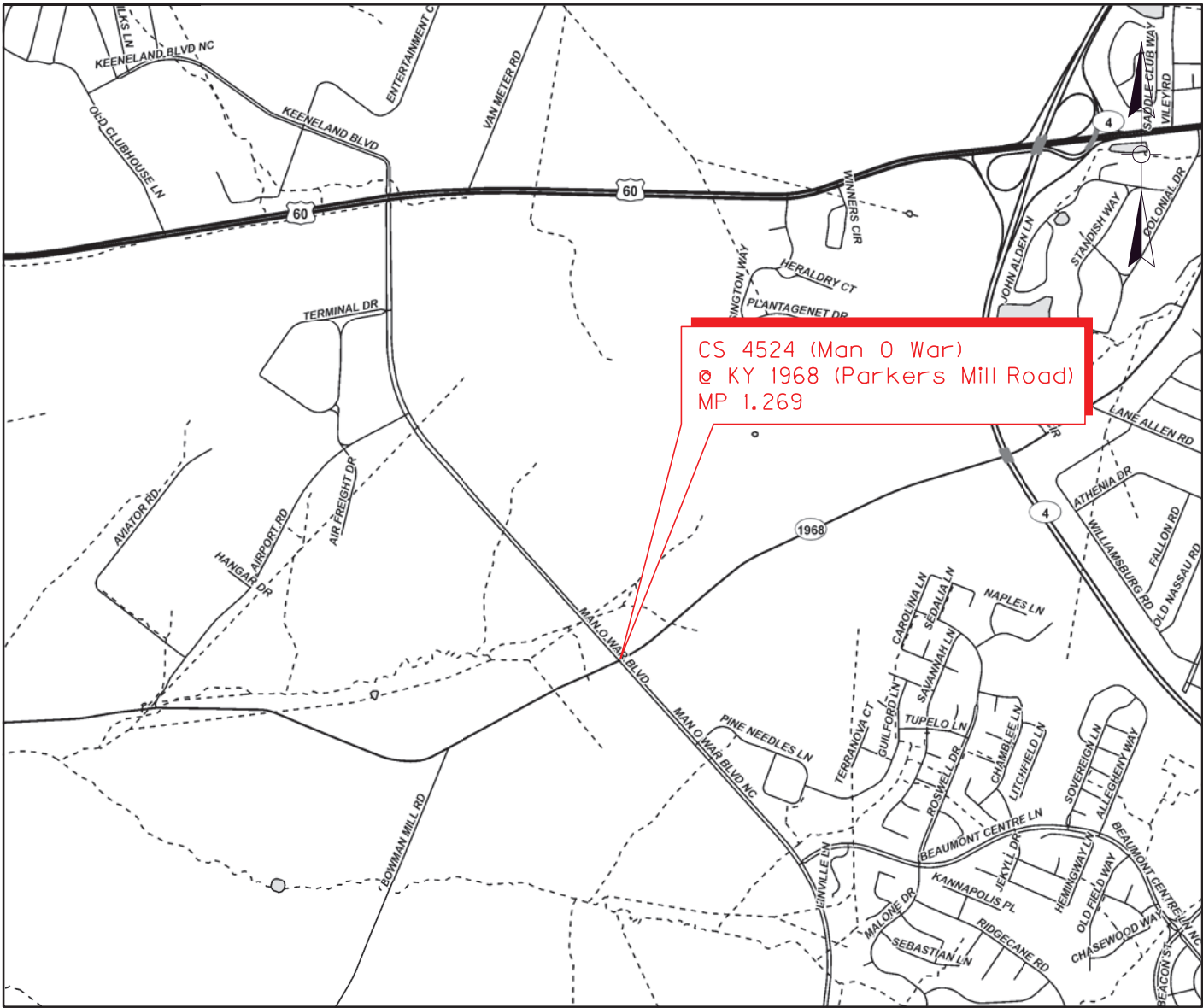
Contact number for Project Engineer \_\_\_\_\_

Project Engineer attests that the mentioned contractor is the actual electrical contractor on this project

Signature of Project Engineer or Designee \_\_\_\_\_



COUNTY OF	ITEM NO.
FAYETTE	7-9006.60



SCALE: 1"=1000'

FAYETTE COUNTY  
CS 4524 MP 1.269



GENERAL SUMMARY - CS 4524 (MAN O WAR BOULEVARD) MP 1.269			
ITEM	DESCRIPTION	UNIT	QUANTITY
1810	STANDARD CURB AND GUTTER	LF	126
1812	REMOVE CURB AND GUTTER	LF	126
2562	TEMPORARY SIGNS	SQFT	91
2569	DEMOBILIZATION	LS	1
2650	MAINTAIN & CONTROL TRAFFIC (CS 4524 @ KY 1968)	LS	1
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	2
2701	TEMP SILT FENCE	LF	300
2705	SILT TRAP TYPE C	EACH	2
2708	CLEAN SILT TRAP TYPE C	EACH	2
2720	SIDEWALK-4 IN CONCRETE	SQYD	58
2721	REMOVE CONCRETE SIDEWALK	SQYD	147
2726	STAKING (CS 4524 @ KY 1968)	LS	1
4844	CABLE-NO. 14/5C	LF	1300
5990	SODDING	SQYD	92
6406	SBM ALUM SHEET SIGNS .080 IN	SQFT	18
6410	STEEL POST TYPE 1	LF	24
6540	PAVE STRIPING-THERMO-4 IN W	LF	124
6541	PAVE STRIPING-THERMO-4 IN Y	LF	184
6566	PAVE MARKING-THERMO X-WALK-12 IN	LF	136
6568	PAVE MARKING-THERMO STOP BAR-24 IN	LF	90
6569	PAVE MARKING-THERMO CROSS-HATCH	SQFT	55
6598	PAVEMENT MARKING REMOVAL	SQFT	247
20188NS835	INSTALL LED SIGNAL-3 SECTION	EACH	10
20266ES835	INSTALL LED SIGNAL-4 SECTION	EACH	2
21417ES717	PAVE MARK THERMO CONE CAP-SOLID YELLOW	SQFT	90
23158ES505	DETECTABLE WARNINGS	SQFT	16
24631EC	BARCODE SIGN INVENTORY	EACH	2
24955ED	REMOVE SIGNAL EQUIPMENT (CS 4524 @ KY 1968)	EACH	1

COUNTY OF	ITEM NO.
FAYETTE	7-9006.60

PEDESTRIAN IMPROVEMENTS

Begin Station	Begin Offset	End Station	End Offset	Description	Unit	Quantity
66+49	41' LT	66+87	75' LT	REMOVE CONCRETE SIDEWALK	SQYD	65
67+43	107' LT	67+86	58' LT	REMOVE CONCRETE SIDEWALK	SQYD	82
66+50	35' LT	66+93	73' LT	REMOVE CURB AND GUTTER	LF	64
67+40	82' LT	67+85	45' LT	REMOVE CURB AND GUTTER	LF	62
66+49	41' LT	66+87	75' LT	SIDEWALK-4 IN CONCRETE	SQYD	45
67+59	58' LT	67+86	58' LT	SIDEWALK-4 IN CONCRETE	SQYD	13
66+86	60' LT	--	--	DETECTABLE WARNINGS	SQFT	8
67+67	56' LT	--	--	DETECTABLE WARNINGS	SQFT	8
66+50	35' LT	66+93	73' LT	STANDARD CURB AND GUTTER	LF	64
67+40	82' LT	67+85	45' LT	STANDARD CURB AND GUTTER	LF	62
66+49	41' LT	66+87	75' LT	SODDING	SQYD	28
67+43	107' LT	67+86	58' LT	SODDING	SQYD	64

Note: These numbers are for estimate purposes only. Final locations and quantities will be determined by the Engineer in the field.

Item	Description	Unit	Quantity
1810	STANDARD CURB AND GUTTER	LF	126
1812	REMOVE CURB AND GUTTER	LF	126
2720	SIDEWALK-4 IN CONCRETE	SQYD	58
2721	REMOVE CONCRETE SIDEWALK	SQYD	147
5990	SODDING	SQYD	92
23158ES505	DETECTABLE WARNINGS	SQFT	16

COUNTY OF

FAYETTE

ITEM NO.

7-9006.60

STRIPING

Begin Station	Begin Offset	End Station	End Offset	Length	Description
66+17.3	44.4' RT	66+33.4	44.4' RT	17	PAVE STRIPING-THERMO-4 IN W
66+17.3	32.6' RT	66+33.6	32.6' RT	17	PAVE STRIPING-THERMO-4 IN W
66+17.3	21.2' RT	66+33.7	21.2' RT	17	PAVE STRIPING-THERMO-4 IN W
66+17.3	9.5' RT	66+33.8	9.5 RT	17	PAVE STRIPING-THERMO-4 IN W
67+69.0	11.5' LT	67+83.0	11.5' LT	14	PAVE STRIPING-THERMO-4 IN W
67+69.0	22.5' LT	67+83.0	22.5' LT	14	PAVE STRIPING-THERMO-4 IN W
67+69.0	33.5' LT	67+83.0	33.5' LT	14	PAVE STRIPING-THERMO-4 IN W
67+69.0	44.2' LT	67+83.0	44.2' LT	14	PAVE STRIPING-THERMO-4 IN W
66+17.3	0'	66+38.0	0'	42	PAVE STRIPING-THERMO-4 IN Y
66+17.3	11.2' LT	66+38.0	11.2' LT	42	PAVE STRIPING-THERMO-4 IN Y
67+62.4	10' RT	67+86.4	10' RT	50	PAVE STRIPING-THERMO-4 IN Y
67+62.4	0'	67+86.4	0'	50	PAVE STRIPING-THERMO-4 IN Y

PAVEMENT MARKINGS

Begin Station	Begin Offset	End Station	End Offset	Description	Unit	Quantity
66+33.4	44.4' RT	66+33.4	0'	PAVE MARKING-THERMO STOP BAR-24 IN	LF	45
67+67	0'	67+67	44.2' LT	PAVE MARKING-THERMO STOP BAR-24 IN	LF	45
66+91.6	56' LT	67+58	53' LT	PAVE MARKING-THERMO X-WALK-12 IN	LF	136
66+22	0'	66+38	11.2' LT	PAVE MARKING-THERMO CROSS-HATCH	SQFT	28
67+62.4	10' RT	67+86.8	0'	PAVE MARKING-THERMO CROSS-HATCH	SQFT	27
66+38	5.6' LT	--	--	PAVE MARK THERMO CONE CAP-SOLID YELLOW	SQFT	45
67+62.4	5' RT	--	--	PAVE MARK THERMO CONE CAP-SOLID YELLOW	SQFT	45

PAVEMENT MARKING REMOVAL

Begin Station	Begin Offset	End Station	End Offset	Area (SQFT)	Description
66+87.0	56' LT	67+61.0	54' LT	69	Existing Crosswalk
66+17.3	44.4' RT	66+17.3	0'	89	Existing Stop Bar
67+82.4	0'	67+82.8	44.2' LT	89	Existing Stop Bar

PROPOSED SIGNS

Station	Offset	Type	SBM Alum Sheet Signs .080 in (SqFt)	Steel Post Type 1 (LF)	Barcode Sign Inventory (Each)
66+60	215' RT	W3-3 (Signal Ahead)	9	12	1
67+17	240' LT	W3-3 (Signal Ahead)	9	12	1

Note: These numbers are for estimate purposes only. Final locations and quantities will be determined by the Engineer in the field.

Item	Description	Unit	Quantity
6406	SBM ALUM SHEET SIGNS .080 IN	SQFT	18
6410	STEEL POST TYPE 1	LF	24
6540	PAVE STRIPING-THERMO-4 IN W	LF	124
6541	PAVE STRIPING-THERMO-4 IN Y	LF	184
6566	PAVE MARKING-THERMO X-WALK-12 IN	LF	136
6568	PAVE MARKING-THERMO STOP BAR-24 IN	LF	90
6569	PAVE MARKING-THERMO CROSS-HATCH	SQFT	55
6598	PAVEMENT MARKING REMOVAL	SQFT	247
21417ES717	PAVE MARK THERMO CONE CAP-SOLID YELLOW	SQFT	90
24631EC	BARCODE SIGN INVENTORY	EACH	2

CS 4524 (MAN O WAR BLVD) MP 1.269

SIGNING AND STRIPING SUMMARY



INSTALL SIGNAL HEADS		
Station*	Offset*	Description
66+53	13' LT	4-Section LED signal head with reflective backplate
66+56	22' LT	3-Section LED signal head with reflective backplate
66+59	31' LT	3-Section LED signal head with reflective backplate
66+61	65' RT	3-Section LED signal head with reflective backplate
66+71	63' RT	3-Section LED signal head with reflective backplate
66+84	61' RT	3-Section LED signal head with reflective backplate
67+15	59' LT	3-Section LED signal head with reflective backplate
67+26	60' LT	3-Section LED signal head with reflective backplate
67+34	60' LT	3-Section LED signal head with reflective backplate
67+41	18' RT	3-Section LED signal head with reflective backplate
67+45	9' RT	3-Section LED signal head with reflective backplate
67+49	3' LT	4-Section LED signal head with reflective backplate

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>
20188NS835	INSTALL LED SIGNAL-3 SECTION	EACH	10
20266ES835	INSTALL LED SIGNAL-4 SECTION	EACH	2

## Signal Heads For NB CS 4524

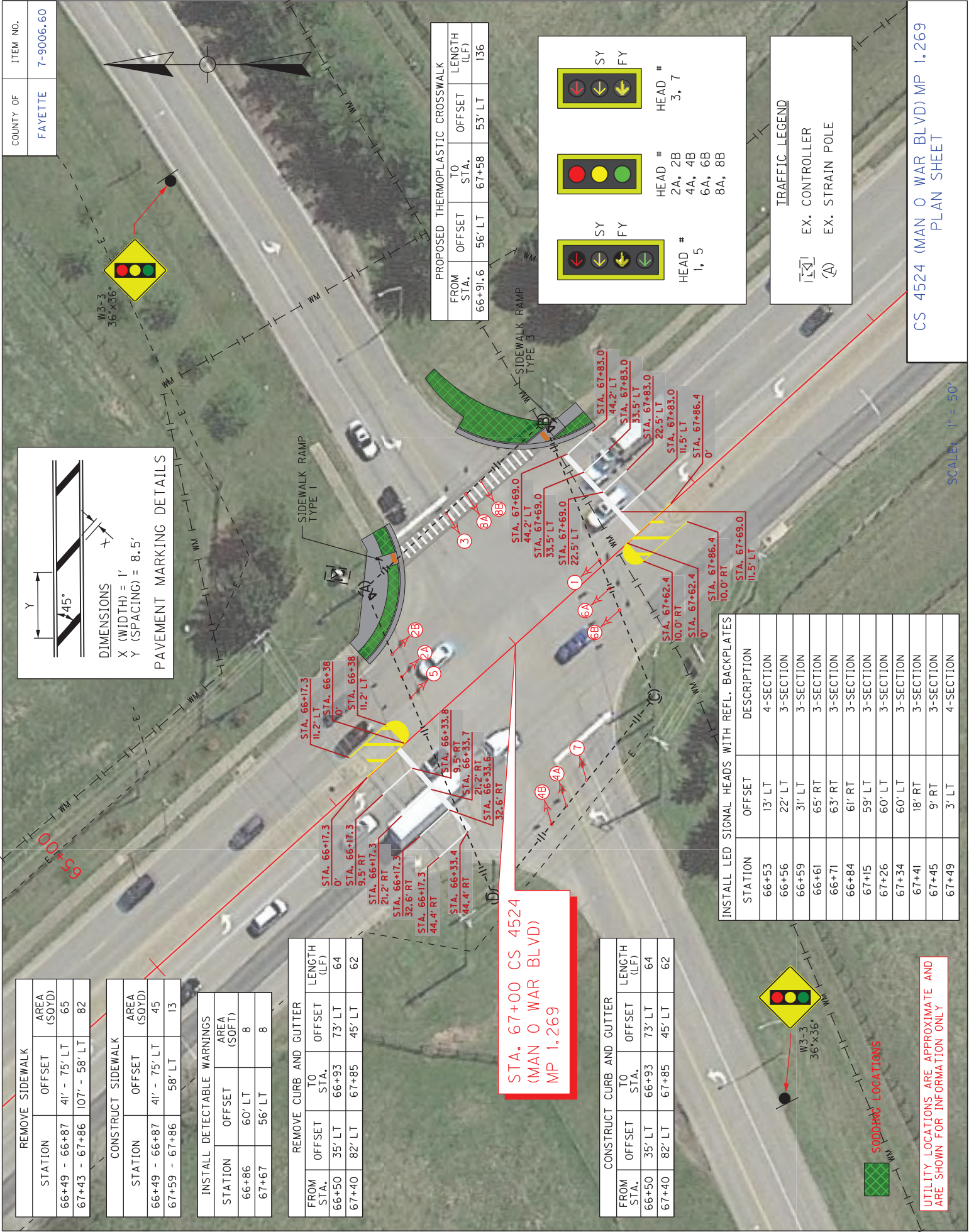
Signal Heads For SB CS 4524Signal Heads For EB KY 1968

### Signal Heads For WB KY 1968

Signal Head	Red Ball	Red Arrow	Yellow Ball	Yellow Arrow	Green Ball	Green Arrow
3-Section with Backplate		1		2		
3-Section with Backplate	1		1		1	
3-Section with Backplate	1		1		1	
<b>Totals</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>0</b>

CS 4524 (MAN O WAR BLVD) MP 1.269  
SIGNAL SUMMARY





Tim Tharpe - Director

DIVISION OF TRAFFIC OPERATIONS

Phone (502) 564-3020  
FAX (502) 564-7759

RECOMMENDATION FOR PICKUP OF ITEMS TO BE INSTALLED  
ON TRAFFIC SIGNALS/LIGHTING

Item Number: 7-9006.60  
County: Fayette  
Description: CS 4524 (Man O War Blvd.) at KY 1968 (Parkers Mill Rd.)

Signals		
10	T-02-0009	Siemens 3 Section Signal
10	T-02-0032	Siemen 3 section backplate
2	T-02-0033	Siemen 4 secton 12" signal (poly)
2	T-02-0043	Siemen 4-sec. straight signal backplate
4	T-02-0300	LED Module 12" red arrow
8	T-02-0310	LED Module 12" yellow arrow
2	T-02-0320	LED Module 12" green arrow
8	T-02-0330	LED Module 12" red ball
8	T-02-0340	LED Module 12" yellow ball
8	T-02-0350	LED Module 12" green ball

Electrical Contractor Name \_\_\_\_\_

Electrical Contractor Supervisor \_\_\_\_\_

Project Engineer \_\_\_\_\_

Contact number for Supervisor \_\_\_\_\_

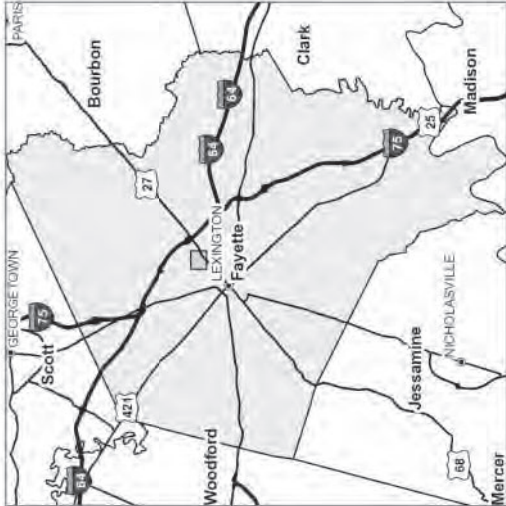
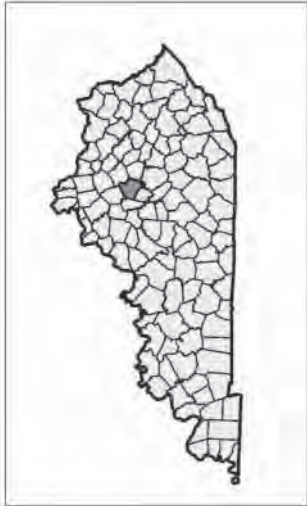
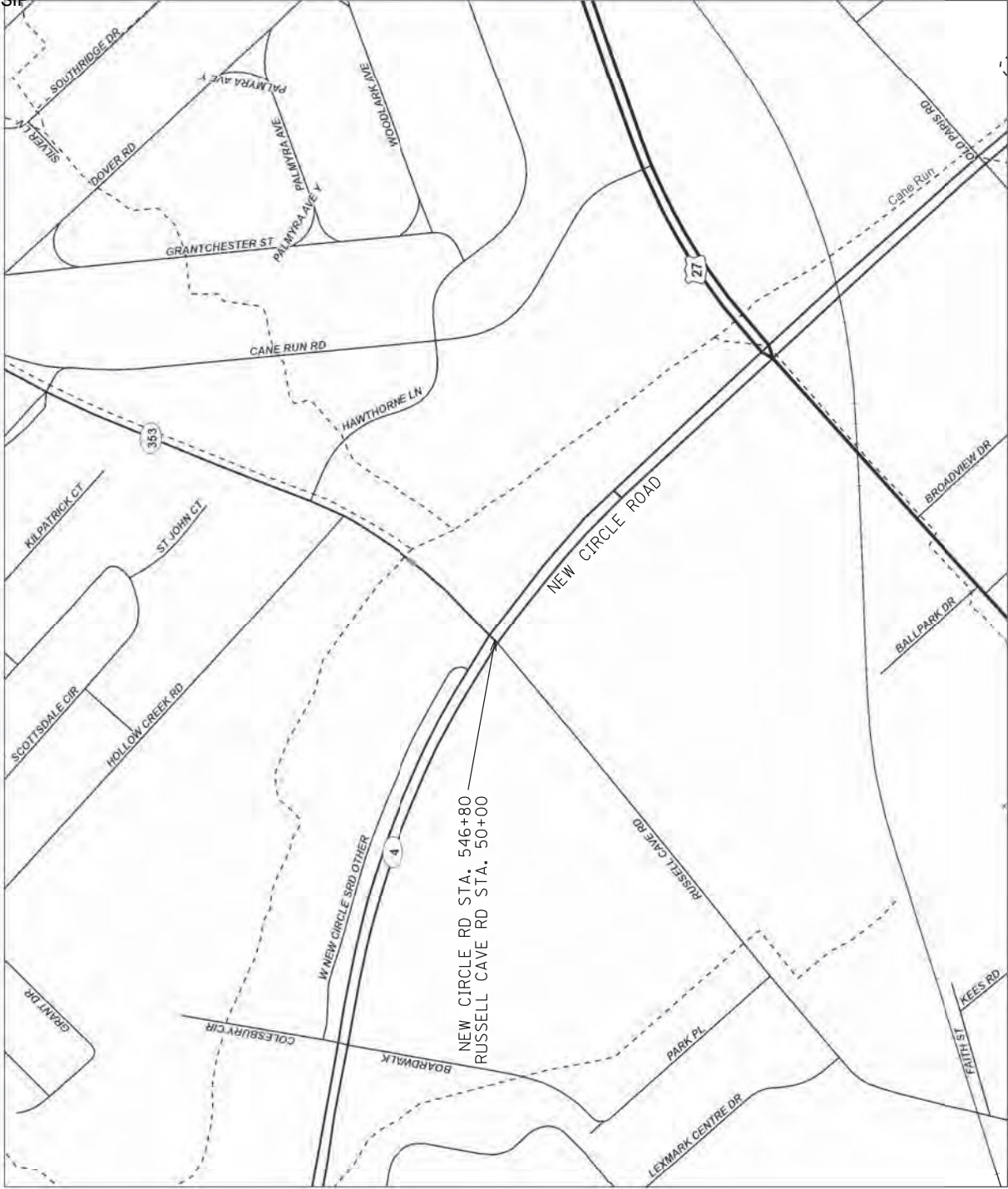
Contact number for Project Engineer \_\_\_\_\_

Project Engineer attests that the mentioned contractor is the actual electrical contractor on this project

Signature of Project Engineer or Designee \_\_\_\_\_



COUNTY OF	ITEM NO.	SHEET NO.
FAYETTE	7-9012.25	



LOCATION MAP OF IMPROVEMENTS

TASK #	DESCRIPTION
1	CONSTRUCT SIDEWALK ALONG KY 4

NEW CIRCLE RD(KY 4) & RUSSELL CAVE  
IMPROVEMENTS  
PROJECT LOCATION AND OVERVIEW



NOT TO SCALE



Item No: 7-9012.25  
County: Fayette  
Route: KY 4 & KY 353

[illegible]

(2) For Intermediate anchor

Highway Safety Improvement Program

Item No: 7-9012.25

County: Fayette

Route: KY 4 & KY 353

Sidewalk, Ramp And Detectable Warning Summary							
SIDE OF ROAD	STATION	INTERSECTION		RAMP SY	RAMP TYPE	DETECTABLE WARNING SF	NOTES
RAMPS							
RT	548+68	New Circle Rd & Entrance		5	4	11	
RT	549+11	New Circle Rd & Entrance		2	1	10	
LT	548+19	New Circle Rd & Entrance		6	1	10	
LT	548+51	New Circle Rd & Entrance		6	1	10	
LT	549+07	New Circle Rd & Entrance		6	1	10	
SIDE OF ROAD	STATION RANGE			SIDEWALK SY			
SIDEWALK							
RT	547+27	TO	548+66	59			4' sidewalk
RT	549+11	TO	549+88	42			5' sidewalk
LT	547+55	TO	548+19	32			5' sidewalk
LT	548+51	TO	549+07	20			5' sidewalk
TOTAL				178		51	



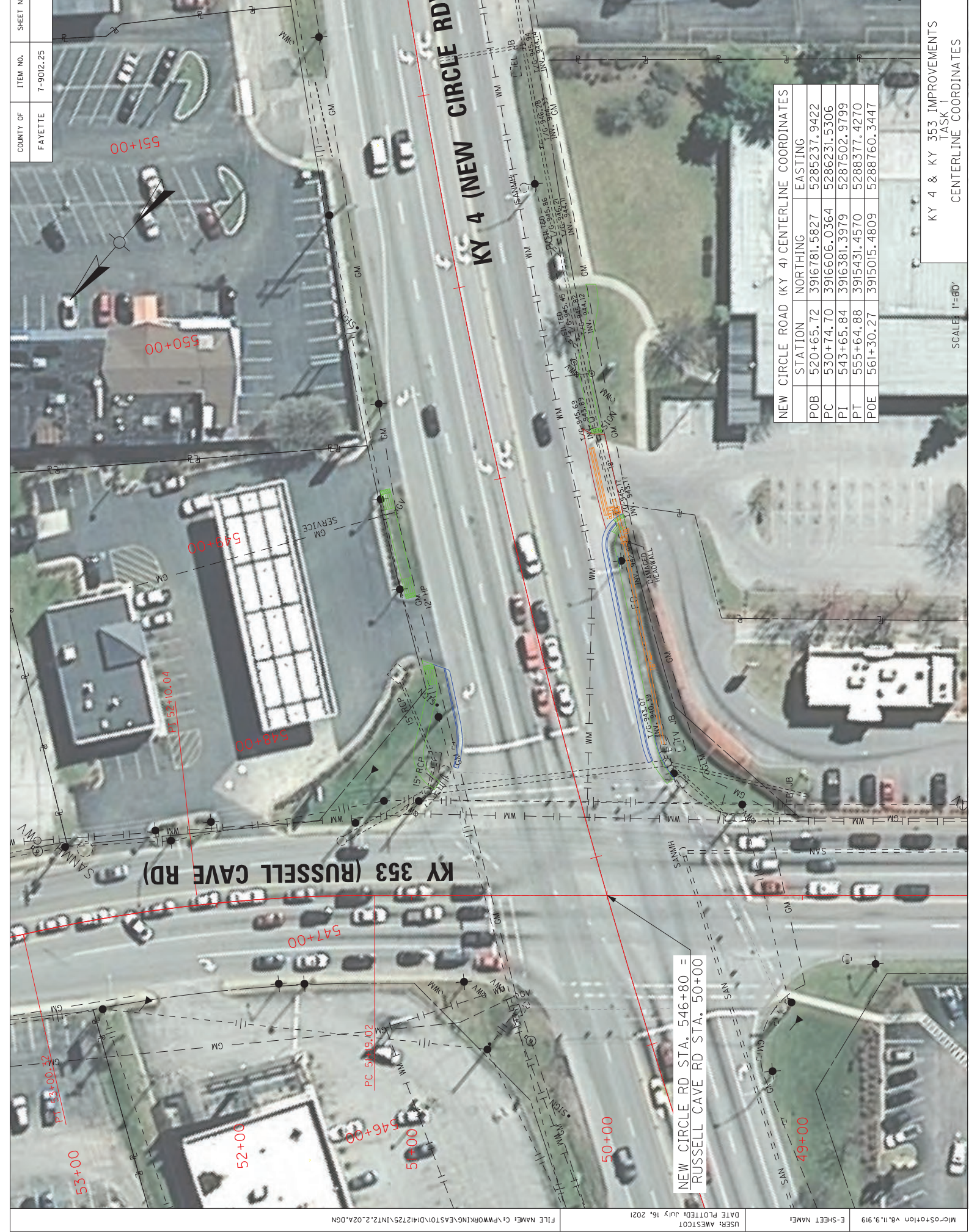
COUNTY OF	ITEM NO.	SHEET NO.
FAYETTE	7-9012.25	21GR23



4 & KY 353 IMPROVEMENTS  
TASK 1  
SIDEWALK IMPROVEMENTS

SCALE: 1"=60'





KY 4 & KY 353 IMPROVEMENTS  
TASK 1  
CENTERLINE COORDINATES

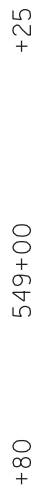
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USER: AWESTCOT DATE PLOTTED: February 27, 2020
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- Microsoft Word 2010

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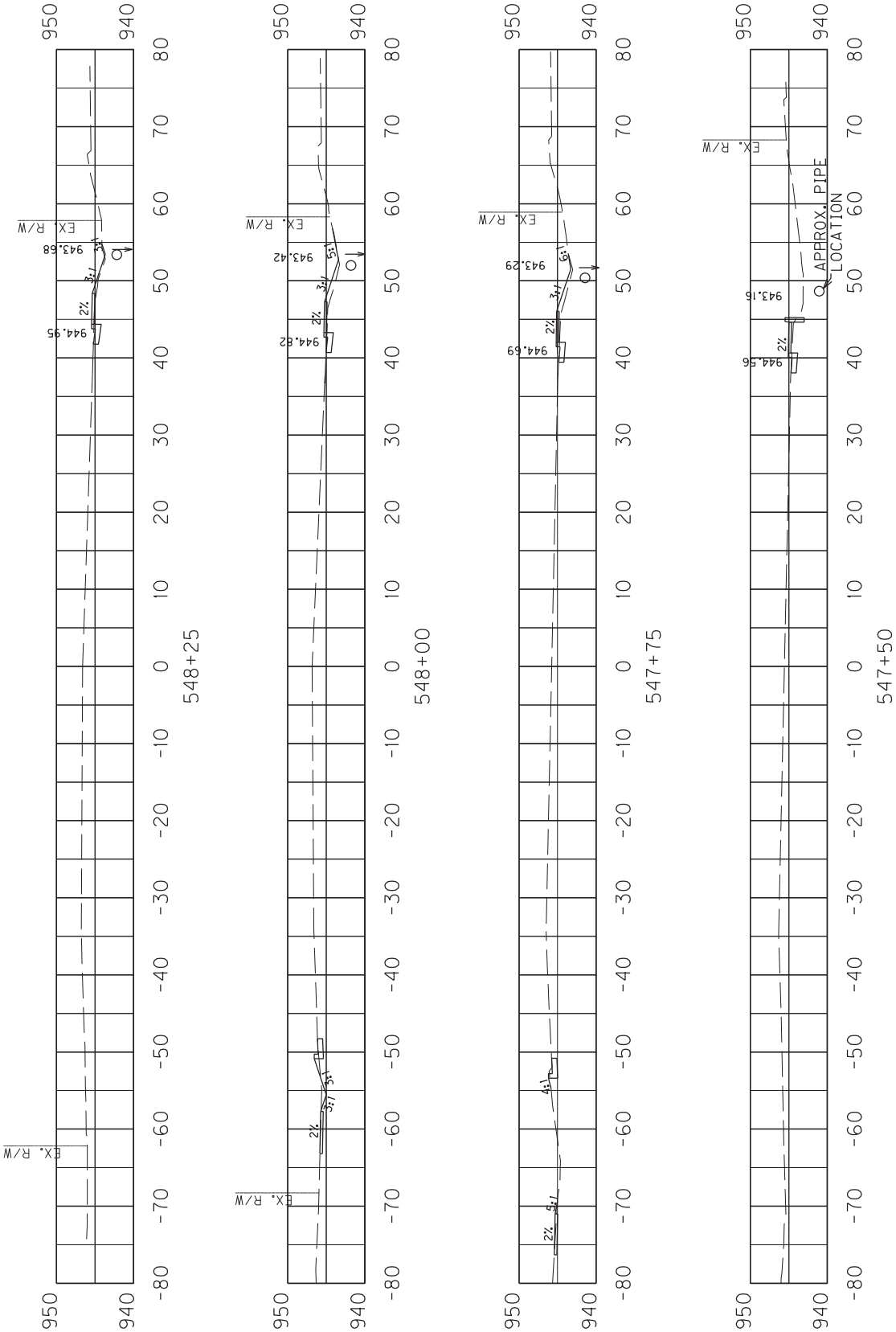
SCALE: 1" = 20' HORIZONTAL  
1" = 20' VERTICAL

COUNTY OF	ITEM NO.	SHEET NO.
FAYETTE	7-9012.25	

- NOTES:
1. ALL WORK IS TO BE DONE WITHIN EXISTING RIGHT OF WAY UNLESS DIRECTED BY ENGINEER. CONSENT RELEASE FOR LEXINGTON HOUSING AUTHORITY HAS BEEN OBTAINED FOR WORK ON THEIR PROPERTY. SEE SPECIAL NOTES APPLICABLE TO PROJECT.

2. ELEVATIONS ARE APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD TO ENSURE POSITIVE DRAINAGE.

3. THE GUTTER SLOPE OF THE STANDARD CURB AND GUTTER IS TO BE MODIFIED TO ENSURE POSITIVE DRAINAGE AND MAINTAIN A MINIMUM SLOPE OF 0.50% ALONG THE GUTTER LINE. ELEVATIONS ARE APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD.



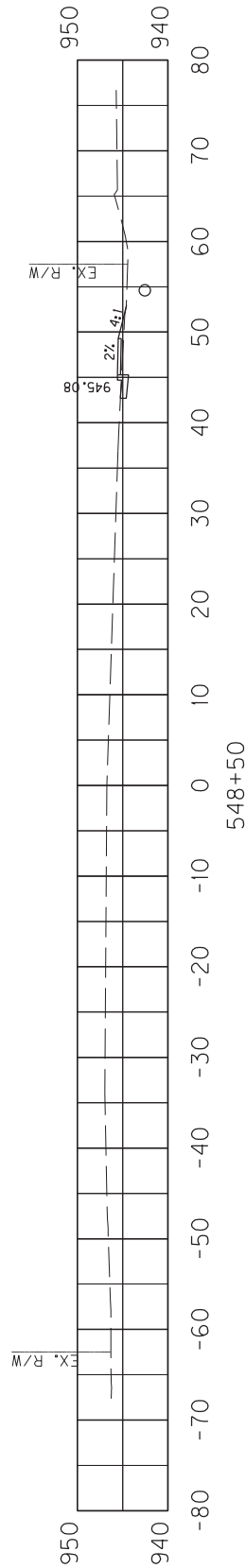
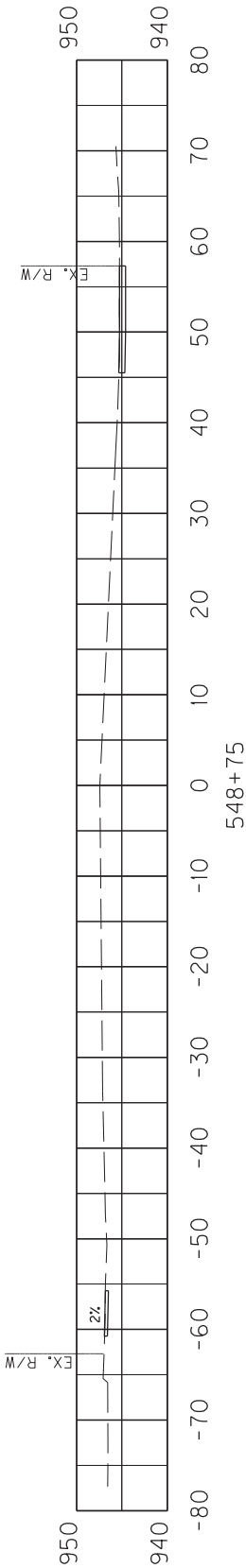
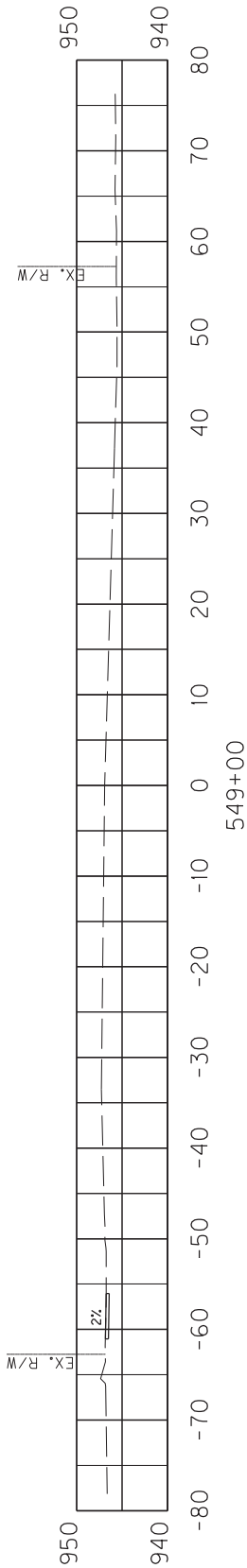
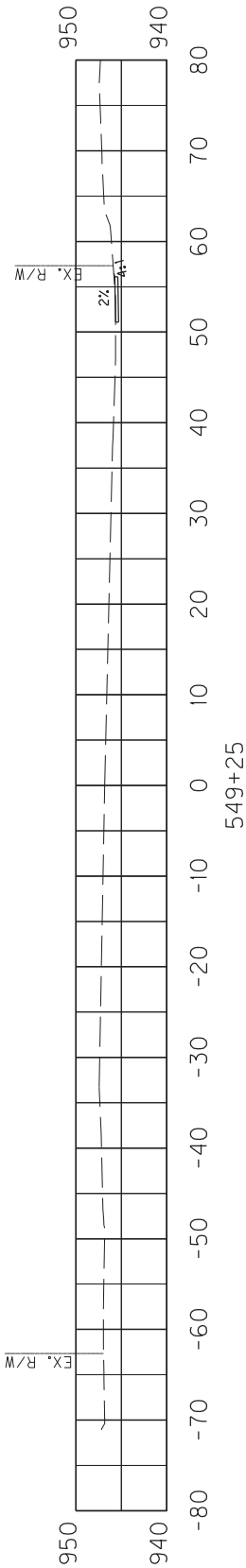
SCALE: 1" = 20' HORIZONTAL  
1" = 20' VERTICAL

CROSS SECTION SHEET  
STA. 547+50 TO STA. 548+25

KY 4



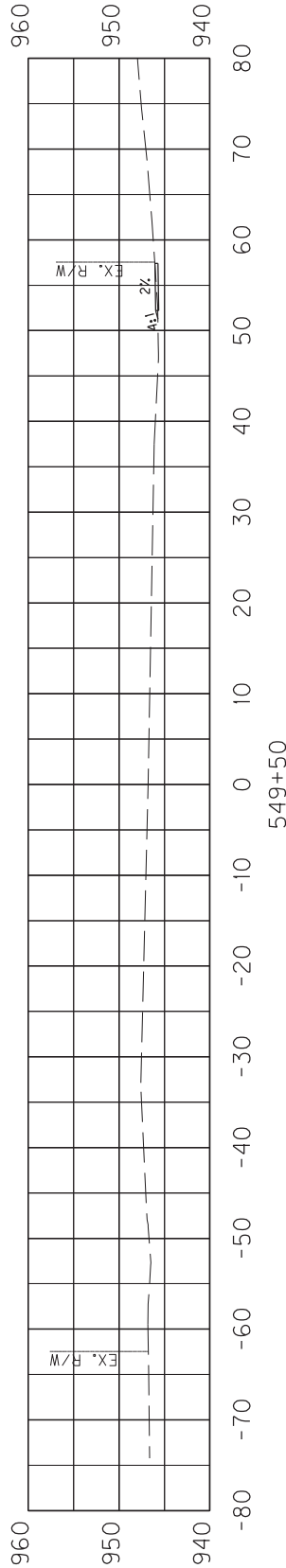
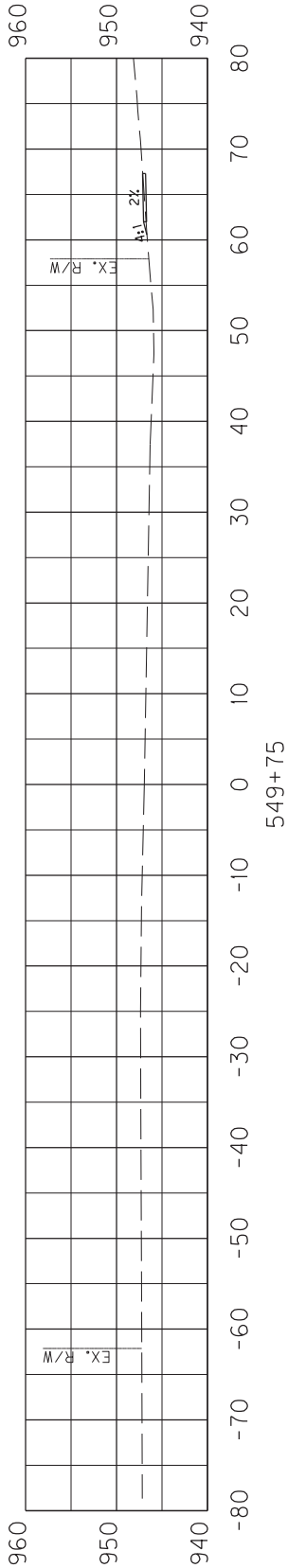
COUNTY OF	ITEM NO.	SHEET NO.
FAYETTE	7-9012.25	



SCALE: 1" = 20' HORIZONTAL  
1" = 20' VERTICAL

KY 4  
CROSS SECTION SHEET  
STA. 548+50 TO STA. 549+25

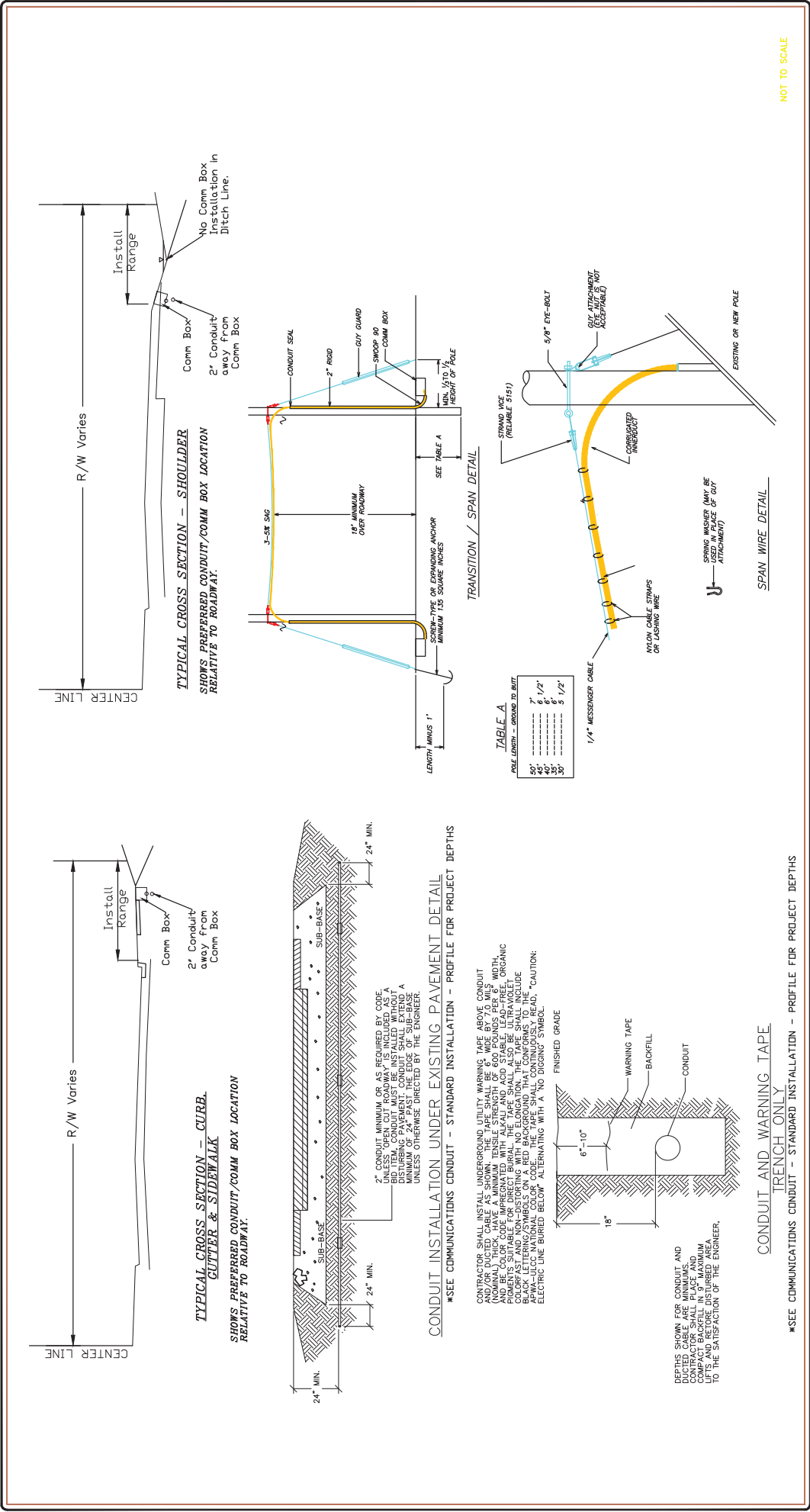
COUNTY OF	ITEM NO.	SHEET NO.
FAYETTE	7-9012.25	



SCALE: 1" = 20' HORIZONTAL  
1" = 20' VERTICAL

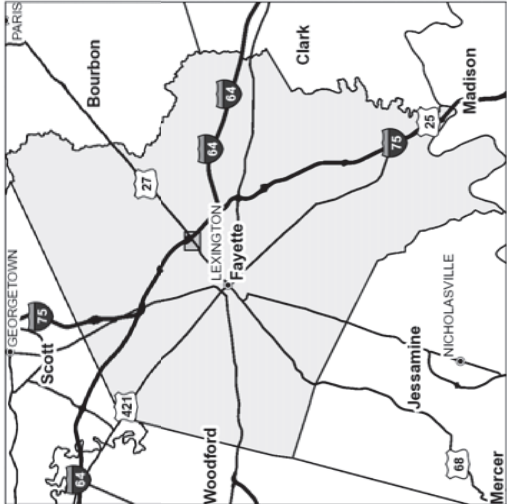
KY 4  
CROSS SECTION SHEET  
STA. 549+50 TO STA. 549+75





SHEET NO.	7-9012.70
ITEM NO.	
COUNTY OF	FAYETTE

LOCATION MAP OF IMPROVEMENTS



TASK #	DESCRIPTION
1	INSTALL NEW SIGNAL HEADS WITH REFLECTIVE BACKPLATES
2	CLOSE EXISTING MEDIAN CUT & REVISE PAVEMENT STRIPING
3	INSTALL LANE SEPARATOR CURB ON HAGGARD LN

US 27 & HAGGARD LN  
PROJECT LOCATION AND OVERVIEW

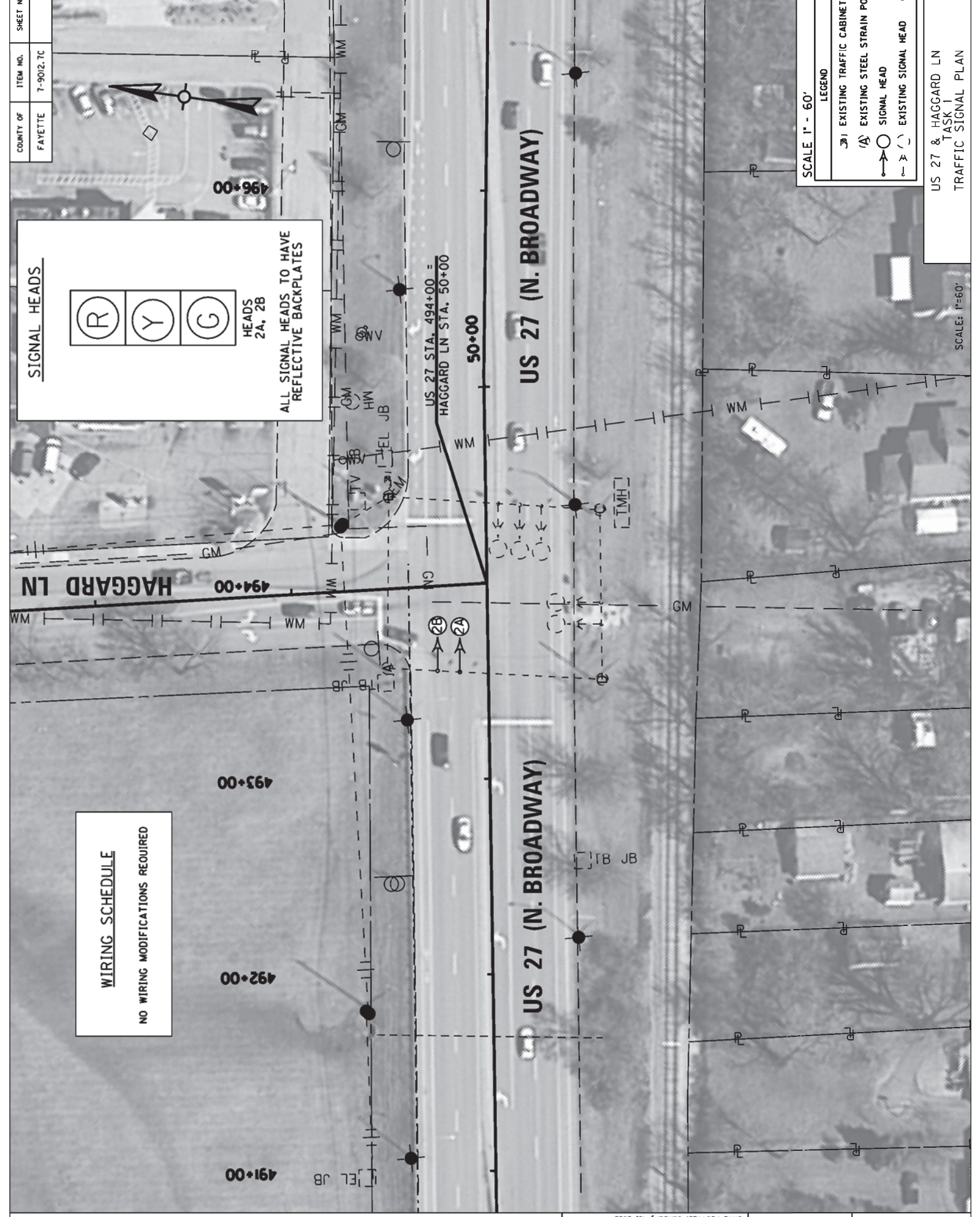
NOT TO SCALE



Item No: 7-9012.70  
County: Fayette  
Route: US 27 & Haggard Ln

[illegible]





COUNTY OF	ITEM NO.	SHEET NO.
FAYETTE	7-9012.7C	

SIGNAL HEADS

R

Y

G

HEADS  
2A, 2B

ALL SIGNAL HEADS TO HAVE  
REFLECTIVE BACKPLATES

WIRING SCHEDULE

NO WIRING MODIFICATIONS REQUIRED

SCALE 1" = 60'

LEGEND

EXISTING TRAFFIC CABINET

EXISTING STEEL STRAIN POLE

SIGNAL HEAD

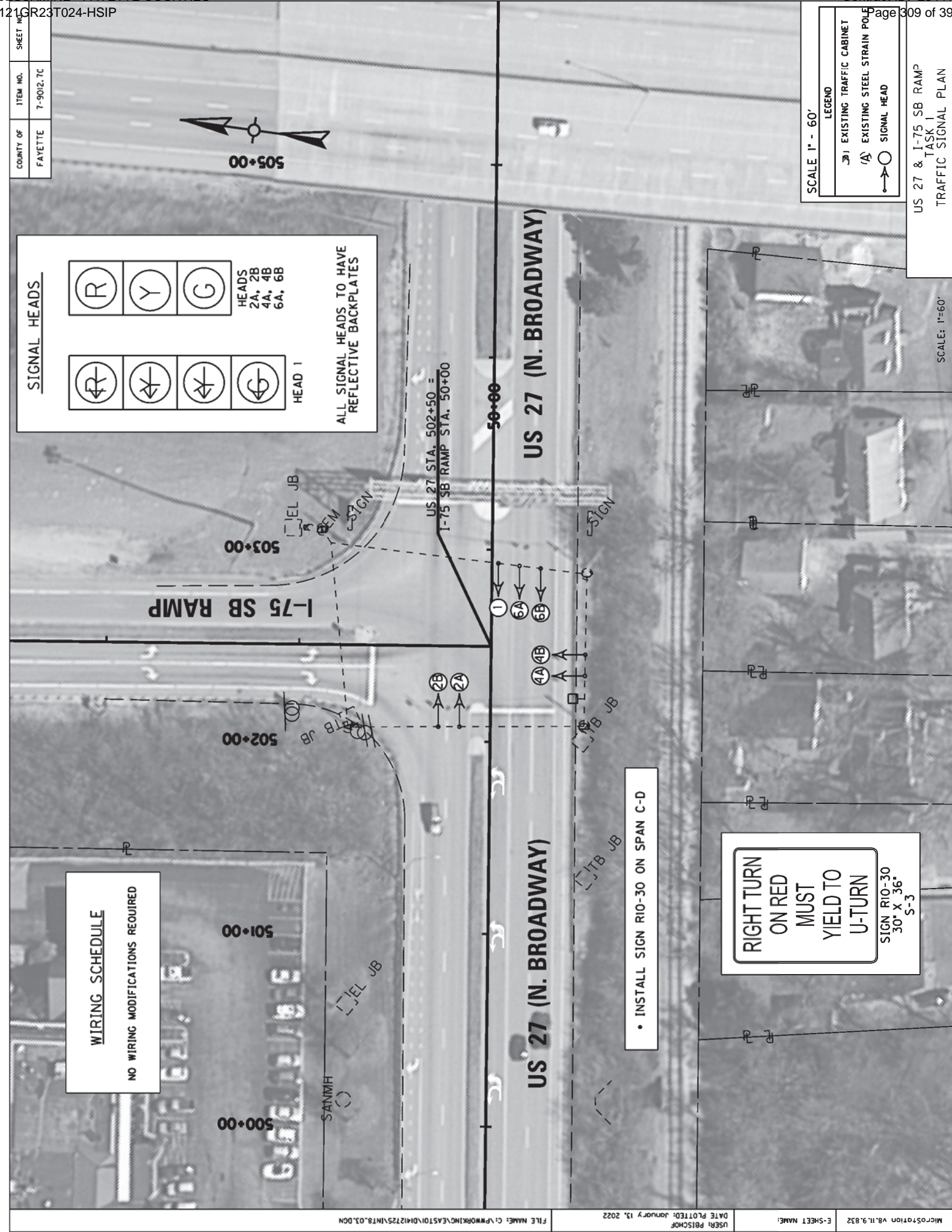
EXISTING SIGNAL HEAD

US 27 & HAGGARD LN  
TASK 1  
TRAFFIC SIGNAL PLAN

SCALE: 1"=60'



COUNTY OF	ITEM NO.	SHEET NO.
FAYETTE	7-9012.7C	



US 27 & I-75 SB RAMP  
TASK 1  
TRAFFIC SIGNAL PLAN

SCALE: 1"=60'

**SCALE 1" = 60'**

LEGEND

**3) EXISTING TRAFFIC CABINET**

(A) EXISTING STEEL STRAIN POL

**SIGNAL HEAD**

**RIGHT TURN  
ON RED  
MUST  
YIELD TO  
U-TURN**

**SIGN R10-30**  
**30" X 36"**  
**S-3**

- INSTALL SIGN R10-30 ON SPAN C-D

## WIRING SCHEDULE

**NO WIRING MODIFICATIONS REQUIRED**

US 27 (N. BROADWAY)

**US 27 (N. BROADWAY)**

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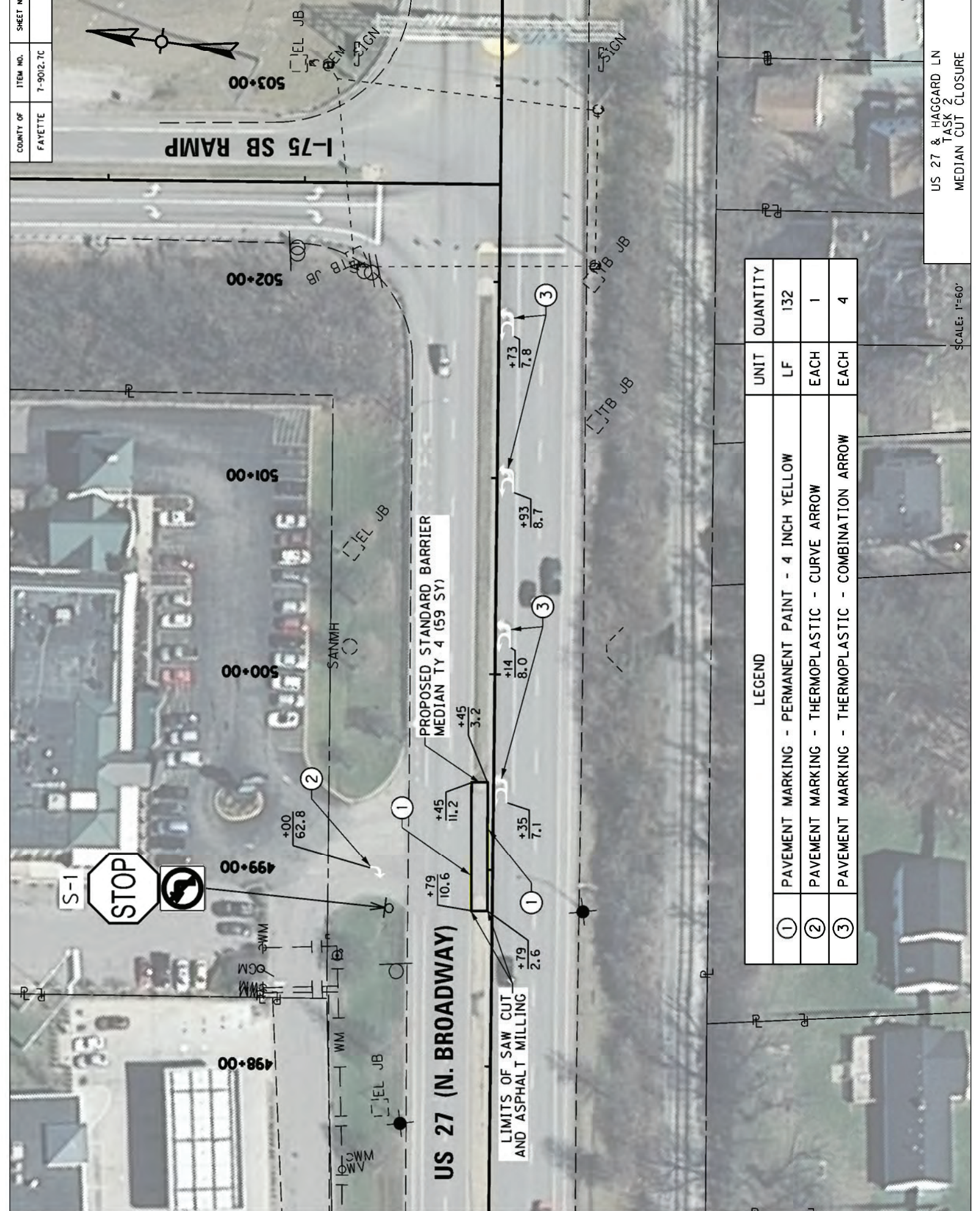
USERS: PEISCHOF  
DATE PLOTTED: January 13, 2022

832	E-SHEET NAME:
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832

MicroStation v8.11.9.832



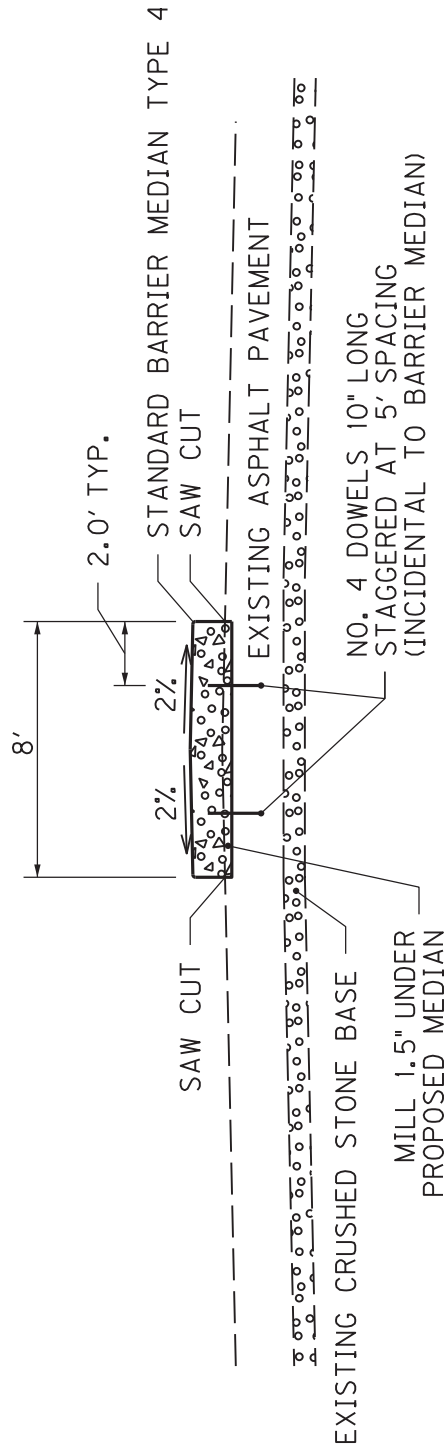


LEGEND		
①	PAVEMENT MARKING - PERMANENT PAINT - 4 INCH YELLOW	UNIT LF
②	PAVEMENT MARKING - THERMOPLASTIC - CURVE ARROW	QUANTITY 132
③	PAVEMENT MARKING - THERMOPLASTIC - COMBINATION ARROW	EACH
		1
		4

US 27 & HAGGARD LN  
TASK 2  
MEDIAN CUT CLOSURE

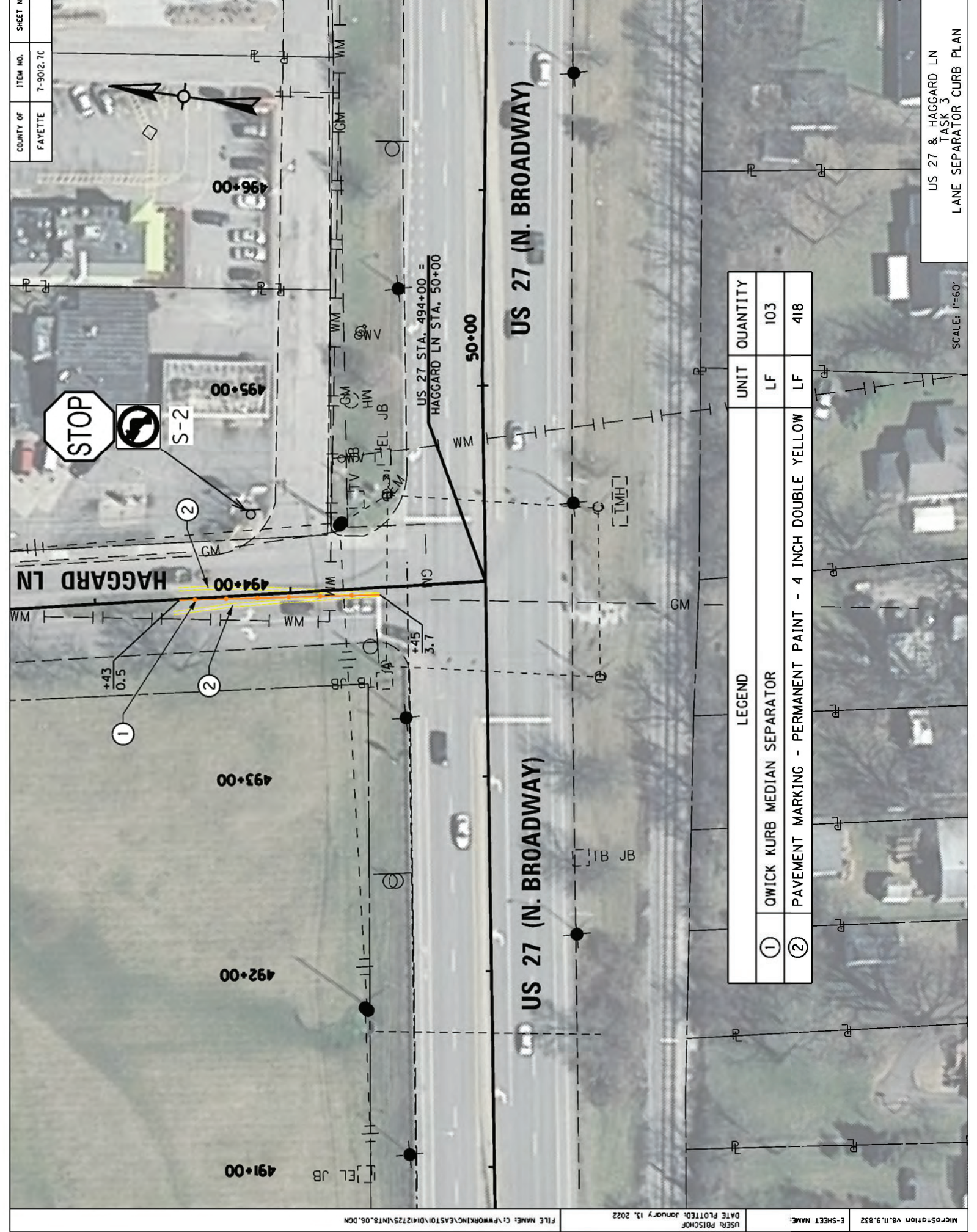
SCALE: 1"=60'

COUNTY OF	ITEM NO.	SHEET NO.
FAYETTE	7-9012.70	



STANDARD BARRIER  
MEDIAN TYPE 4 DETAIL








COUNTY OF	ITEM NO.	SHEET NO.
FAYETTE	7-9012.7C	

LEGEND		UNIT	QUANTITY
①	OWICK KURB MEDIAN SEPARATOR	LF	103
②	PAVEMENT MARKING - PERMANENT PAINT - 4 INCH DOUBLE YELLOW	LF	418

US 27 & HAGGARD LN  
TASK 3  
LANE SEPARATOR CURB PLAN

SCALE: 1"=60'

COUNTY OF	ITEM NO.	SHEET NO.
FAYETTE	7-9012.70	

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES		MESSAGES	SPECIFICATION	SIGN LOCATION				
	HORIZ.	VERT.			SIDE OF ROAD	FACING TRAFFIC TRAVELING	ON ROAD	AT STATION (APPROXIMATE)	
S-1	36"	36"		RI-1	LT	SB	US 27	498+80	
	24"	24"		R3-2	LT	SB	US 27	498+80	
S-2	36"	36"		RI-1	LT	WB	HAGGARD LN	48+82	
	24"	24"		R3-2	LT	WB	HAGGARD LN	48+82	
S-3	30"	36"		RI0-30	RT	SB	US 27	502+70	
S-4									
S-5									
S-6									



PROJECT MATERIALS RELEASE FORM  
FOR SIGNAL AND LIGHTING

Notwithstanding to KYTC's warehouse at least two (2) days prior to the date of the contract's delivery as a condition of the contract. Failure to deliver materials in a timely manner shall constitute a breach of the contract.

Item Number7 9012 70

CountyFayette

DescriptionS 27 & 3rd Ln

Signals		
8	T-02-0009	Siemens 3 Section Signal
8	T-02-0032	Siemen 3 section backplate
1	T-02-0033	Siemen 4 section 12" signal (poly)
1	T-02-0043	Siemen 4-sec. straight signal backplate
1	T-02-0300	LED Module 12" red arrow
2	T-02-0310	LED Module 12" yellow arrow
1	T-02-0320	LED Module 12" green arrow
8	T-02-0330	LED Module 12" red ball
8	T-02-0340	LED Module 12" yellow ball
8	T-02-0350	LED Module 12" green ball

Special Items		
1	T-09-0415	30" 36" through 36" 36" sign hanger (New)

REQUIRED

Electrical Contractor Name

Electrical Contractor Supervisor

Project Engineer

Project Engineer attests that the mentioned contractor is the actual electrical contractor on this project

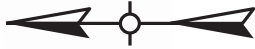
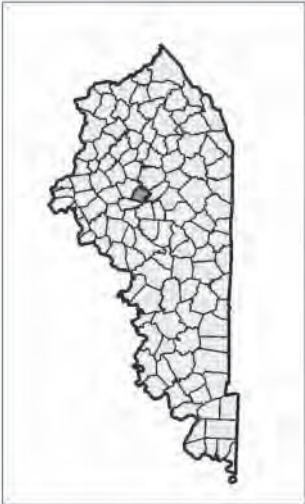
Signature of Project Engineer or Designee

Contact number for Supervisor

Contact number for Project Engineer

SHEET NO.	ITEM NO.	COUNTY OF
	7-9012.90	JESSAMINE

LOCATION MAP OF IMPROVEMENTS



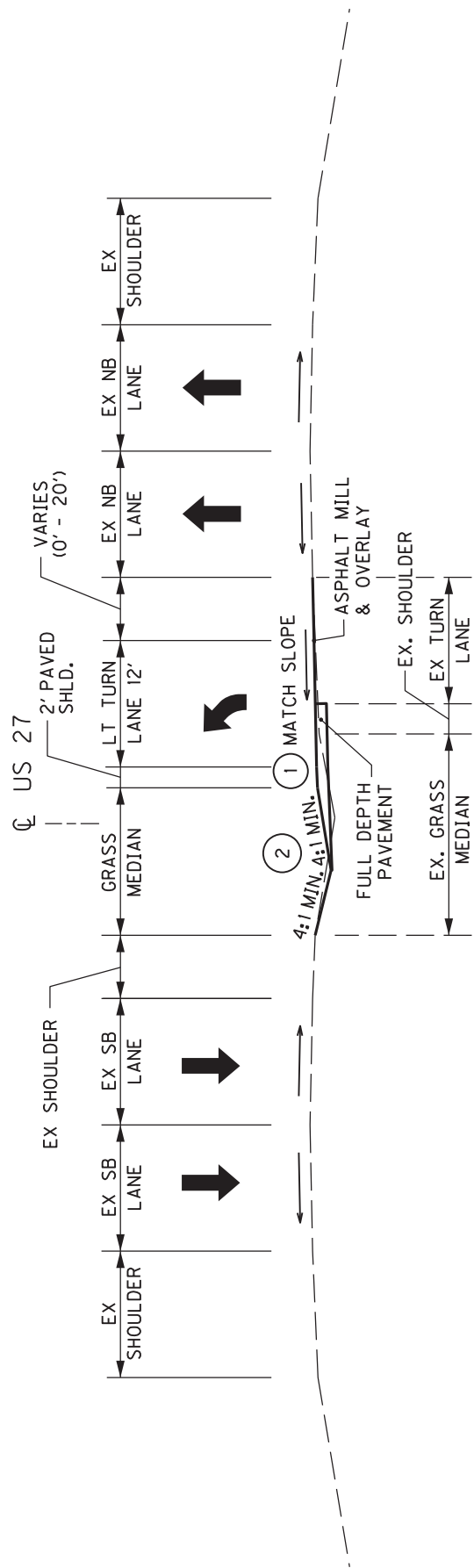
TASK #	DESCRIPTION
1	INSTALL NEW SIGNAL HEADS WITH REFLECTIVE BACKPLATES
2	PAVEMENT MARKING IMPROVEMENTS
3	SIDEWALK IMPROVEMENTS
4	CONSTRUCT OFFSET LEFT TURN LANES ON MAINLINE

US 27 & EDGEWOOD DR  
PROJECT LOCATION AND OVERVIEW

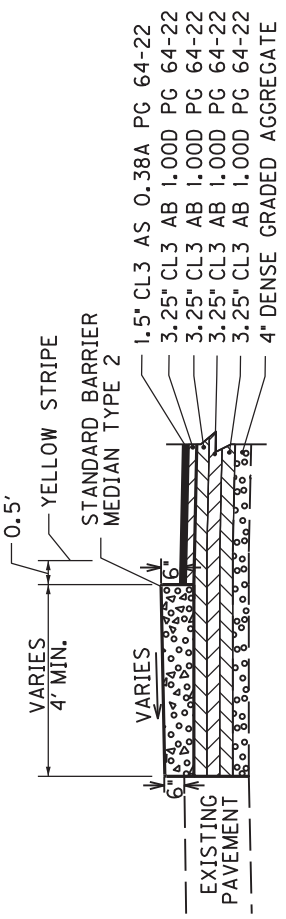
NOT TO SCALE

COUNTY OF	ITEM NO.	SHEET NO.
JESSAMINE	7-9012.90	

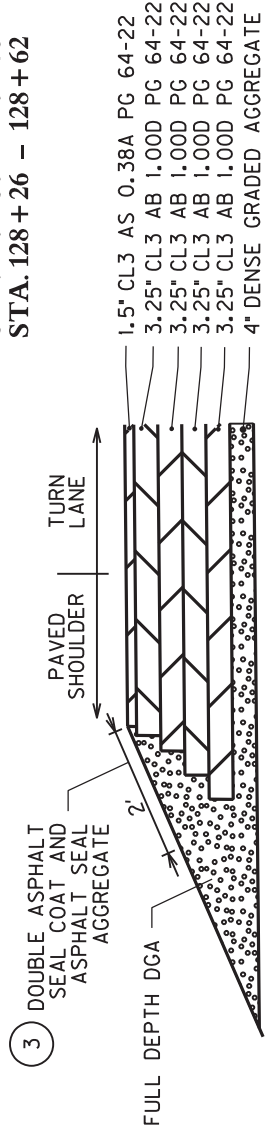
# TYPICAL SECTIONS



US 27 TURN LANES  
STA. 124+50 - 126+75 (NB)  
STA. 128+26 - 130+51 (SB)



STANDARD BARRIER  
MEDIAN TYPE 2 DETAIL  
STA. 126+50 - 126+75  
STA. 128+26 - 128+62



- 1 MATCH EXISTING CROSS SLOPE UNLESS OTHERWISE NOTED ON CROSS SECTIONS. SEE SECTIONS FOR FURTHER DETAIL ON SIDE SLOPES AND APPROX. DITCH ELEVATIONS
- 2 MEDIAN DITCH TYPICAL, SEE PLANS FOR LOCATIONS OF STANDARD BARRIER MEDIAN TYPE 2
- 3 ASPHALT SEAL COAT ESTIMATED AT 2.4 LBS/SOYD. ASPHALT SEAL AGGREGATE ESTIMATED AT 20 LBS/SOYD, BOTH WITH 2 APPLICATIONS

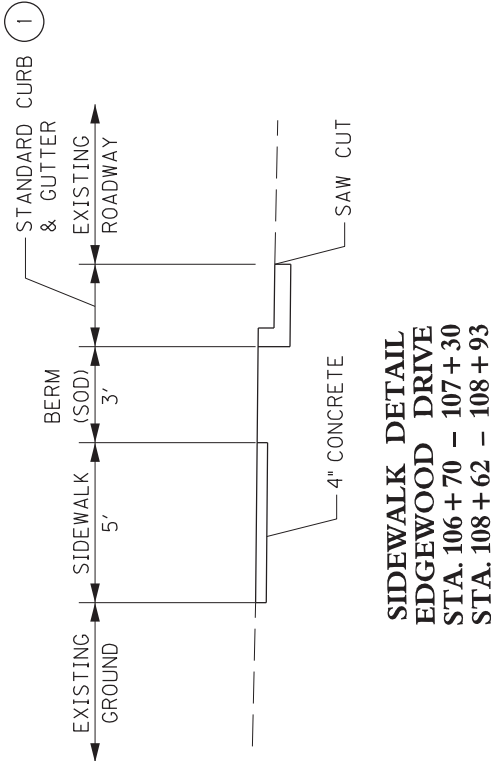
FULL DEPTH PAVEMENT DETAIL

NOT TO SCALE  
TASK 4  
TYPICAL SECTIONS

US 27 & EDGEWOOD DR



COUNTY OF	ITEM NO.	SHEET NO.
JESSAMINE	7-9012.90	



TYPICAL SECTIONS





SIDEWALK DETAIL  
EDGEWOOD DRIVE  
STA. 106 + 70 – 107 + 30  
STA. 108 + 62 – 108 + 93

1. CONNECT TO EXISTING CURB & GUTTER.  
DO NOT CONSTRUCT NEW CURB & GUTTER  
WHERE IT ALREADY EXISTS.

Highway Safety Improvement Program			
 		Item No: 7-9012.90	
		County: Jessamine	
		Route: US 27 & Edgewood Dr	
General Summary			
Item No.	Item	Unit	Quantity
<b>Roadway</b>			
1810	Standard Curb and Gutter	LF	110
1917	Standard Barrier Median Type 2	SY	37
2200	Roadway Excavation	CY	297
2562	Temporary Signs	SF	200
2569	Demobilization	LS	1
2650	Maintain & Control Traffic	LS	1
2671	Portable Changeable Message Sign	EA	2
2701	Temporary Silt Fence	LF	245
2704	Silt Trap Type B	EA	2
2705	Silt Trap Type C	EA	4
2707	Clean Silt Trap Type B	EA	2
2708	Clean Silt Trap Type C	EA	4
2720	Sidewalk - 4 in. Concrete	SY	134
2726	Staking	LS	1
2775	Arrow Panel	EA	1
5950	Erosion Control Blanket	SY	479
5953	Temp Seeding and Protection	SY	60
5963	Initial Fertilizer	TON	0.1
5964	Maintenance Fertilizer	TON	0.1
5985	Seeding and Protection	SY	1,151
5990	Sodding	SY	50
5992	Agricultural Limestone	TON	0.8
23158ES505	Detectable Warnings	SF	52
<b>Drainage</b>			
0522	Storm Sewer Pipe 18	LF	28
1511	Drop Box Type 5D	EA	1
1584	Cap Drop Box Inlet	EA	1
<b>Signing and Striping</b>			
6406	SBM Alum Sheet Signs .080 IN	SF	20
6410	Steel Post Type 1	LF	54
6540	Pavement Striping - Thermo - 4 in. White	LF	1,113
6541	Pavement Striping - Thermo - 4 in. Yellow	LF	960
6542	Pavement Striping - Thermo - 6 in. White	LF	1,210
6543	Pavement Striping - Thermo - 6 in. Yellow	LF	452
6547	Pavement Striping - Thermo - 12 in. Yellow	LF	16
6568	Pavement Marking - Thermoplastic Stop Bar - 24 in.	LF	203
6574	Pavement Marking - Thermoplastic Curve Arrow	EA	12
6575	Pavement Marking - Thermoplastic Comb. Arrow	EA	4
6598	Pavement Marking Removal	SF	246
21373ND	Remove Sign	EA	2
23261EC	Pave Mark Thermo -Walk 24 in.	LF	150
23875NC	Remove Thermoplastic Arrows	EA	2
24489EC	Inlaid Pavement Marker	EA	22
24631EC	Barcode Sign Inventory	EA	2
24679ED	Pavement Marking - Thermoplastic - Chevron	SF	613
<b>Signalization</b>			
4792	Conduit 1	LF	30
4811	Electrical Junction Box Type B	EA	2
4830	Loop Wire	LF	1,251
4850	Cable - No. 14 1 Pair	LF	1,257
4886	Messenger - 15400 LB	LF	36
4895	Loop Saw Slot and Fill	LF	575
4951	Remove Signal Equipment	LS	1
20188NS835	Install LED Signal - 3 Section	EA	8
20266ES835	Install LED Signal - 4 Section	EA	2
21743NN	Install Pedestrian Detector	EA	2
23235EC	Install Pedestal Post	EA	2
24900EC	P C Conduit - 1 1/4 IN - Schedule 80	LF	60

		Highway Safety Improvement Program			
		Item No: 7-9012.90			
		County: Jessamine			
		Route: US 27 & Edgewood Dr			
Pavement Summary					
Paving Areas					
Item	Unit	Edgewood Dr	NB Turn Lane	SB Turn Lane	Total
4 DGA	S YD		346	377	723
3.25 CL3 Asph Base 1.00D PG64-22	S YD		1308	1427	2 735
1.5 CL3 Asph Surf 0.38A PG64-22	S YD	166	621	655	1 442
Asphalt Material for Tack Non-Tracking	S YD	166	1308	1427	2 901
Asphalt Pave Milling & Texturing	S YD	166	318	326	810
12 Crushed Aggregate No. 2	S YD				329
Geotextile Fabric Class 1	S YD				710
Paving Quantities					
Item	Unit	Edgewood Dr	NB Turn Lane	SB Turn Lane	Total
DGA (1 6)	TON		140	184	324
CL3 Asph Base 1.00D PG64-22 (2)	TON		234	256	490
CL3 Asph Surf 0.38A PG64-22 (2)	TON	14	52	55	121
Asphalt Material for Tack Non-Tracking (5)	TON	0.1	0.5	0.6	1.2
Asphalt Pave Milling & Texturing	TON	14	27	27	68
Crushed Aggregate No. 2 (7)	TON			230	230
Geotextile Fabric Class 1 (7)	S YD			710	710
Leveling & Wedging PG64-22 (8)	TON	4			4
Asphalt Seal Coat (3)	TON		0.2	0.2	0.4
Asphalt Seal Aggregate (4)	TON		0.9	0.9	1.8
Sawcut Pavement	LF	114	228	226	568
Note These numbers are for estimate purposes only. Final locations and quantities will be determined by the Engineer in the field.					
NB Turn Lane is from Sta. 124 50 to Sta. 126 75 SB Turn Lane is from Sta. 128 26 to Sta. 130 51					
(1) Estimated at 115 lbs s yd in of depth					
(2) Estimated at 110 lbs s yd in of depth					
(3) Estimated at 2.4 lbs s yd with 2 applications					
(4) Estimated at 20 lbs s yd with 2 applications					
(5) Estimated at 0.84 lbs s yd					
(6) Includes full depth pavement wedge					
(7) To be used at the discretion of the engineer if unsuitable material is found on either (or both) the NB or SB shoulder					
(8) Quantity included to provide positive drainage along the curb line					
Ite N	Ite	nit		Quantity	
0001	Dense Graded Aggregate	TON		324	
0078	Crushed Aggregate No 2	TON		230	
0100	Asphalt Seal Aggregate	TON		1.8	
0103	Asphalt Seal Coat	TON		0.4	
0190	Leveling & Wedging PG64-22	TON		4	
0214	CL3 Asph Base 1.00D PG64-22	TON		490	
2602	Geotextile Fabric Class 1	SY		710	
2676	Mobilization for Mill & Text	LS		1	
2677	Asphalt Pave Mill & Text	TON		68	
20550ND	Sawcut Pavement	LF		568	
22906ES403	CL3 Asph Surf 0.38A PG64-22	TON		121	
24970EC	Asphalt Material for Tack Non-Tracking	TON		1.2	



Highway Safety Improvement Program

Item No: 7-9012.90

County: Jessamine

Route: US 27 & Edgewood Drive

Sidewalk, Ramp And Detectable Warning Summary

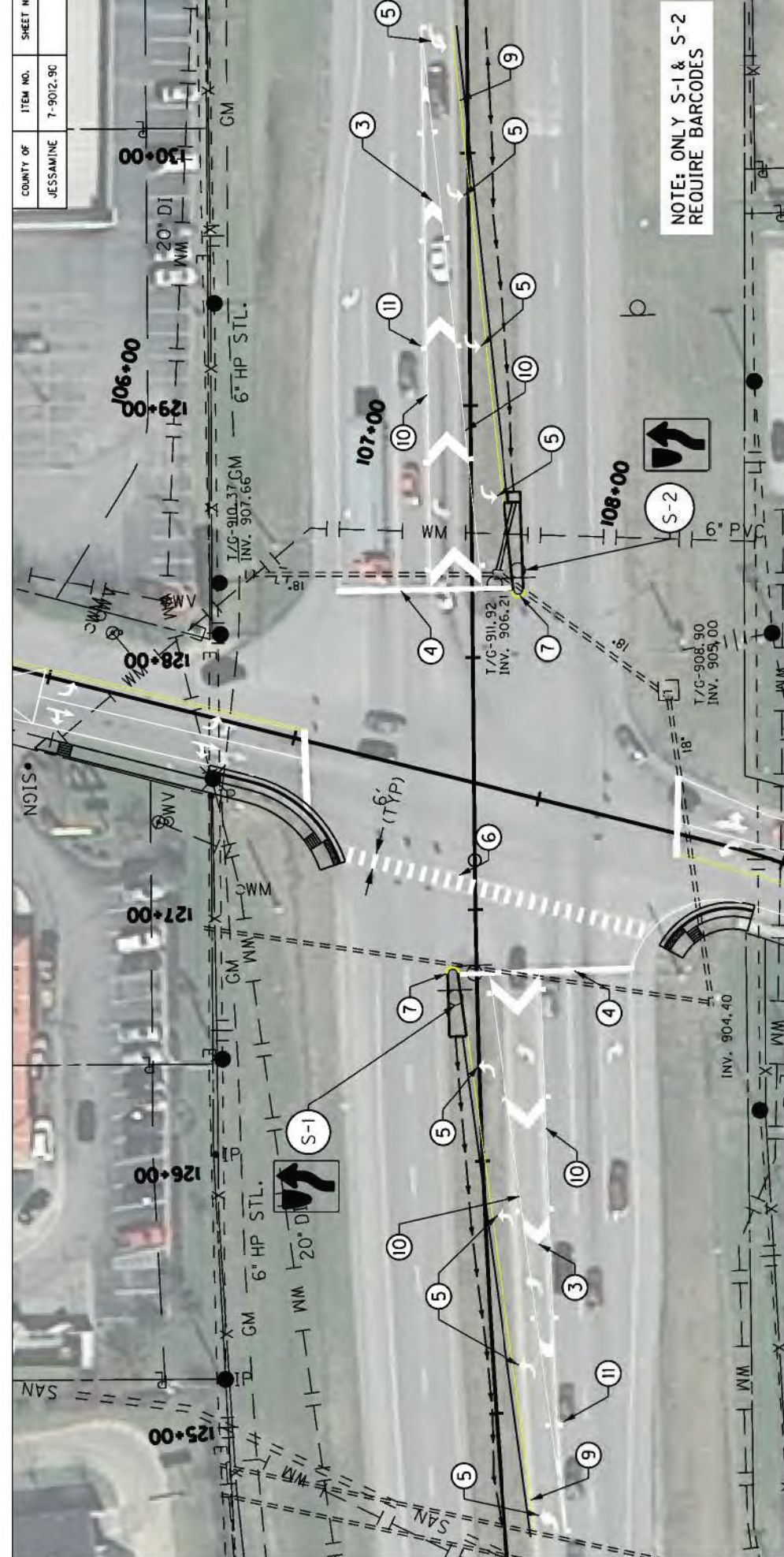
SIDE OF ROAD	STATION	INTERSECTION	RAMP SY	RAMP TYPE	DETECTABLE WARNING SF	NOTES
RAMPS						
RT	104+70	Ed ew d Dr & endren Wa	8	1	10	
RT	104+41	Ed ew d Dr & McD nalds	7	1	0	
RT	106+01	Ed ew d Dr & McD nalds	7	1	0	
RT	107+29	Ed ew d Dr & S 27	11	4	21	
RT	108+62	Ed ew d Dr & S 27	8	4	21	
SIDE OF ROAD	STATION RANGE		SIDEWALK SY			
SIDEWALK						
RT	104+71	TO 105+42	22			
RT	106+01	TO 107+23	57			
RT	108+70	TO 108+95	14			
TOTAL			134		52	











LEGEND		UNIT	QUANTITY
①	PAVEMENT STRIPING - THERMOPLASTIC - 4 INCH DOUBLE YELLOW	LF	0
②	PAVEMENT STRIPING - THERMOPLASTIC - 4 INCH WHITE	LF	0
③	PAVEMENT MARKING - THERMOPLASTIC CHEVRON - 48 INCH (40' GAP)	SF	613
④	PAVEMENT MARKING - THERMOPLASTIC STOP BAR - 24 INCH WHITE	LF	140
⑤	PAVEMENT MARKING - THERMOPLASTIC - CURVE ARROW - WHITE	EACH	8
⑥	PAVEMENT MARKING - THERMOPLASTIC X-WALK- 24 INCH WHITE (36' GAP)	LF	150
⑦	PAVEMENT STRIPING - THERMOPLASTIC - 12 INCH YELLOW	LF	16
⑧	PAVEMENT MARKING - THERMOPLASTIC - COMBINATION ARROW - WHITE	EACH	0
⑨	PAVEMENT STRIPING - THERMOPLASTIC - 6 INCH YELLOW	LF	452
⑩	PAVEMENT STRIPING - THERMOPLASTIC - 6 INCH WHITE	LF	900
⑪	INLAID PAVEMENT MARKER	EACH	22

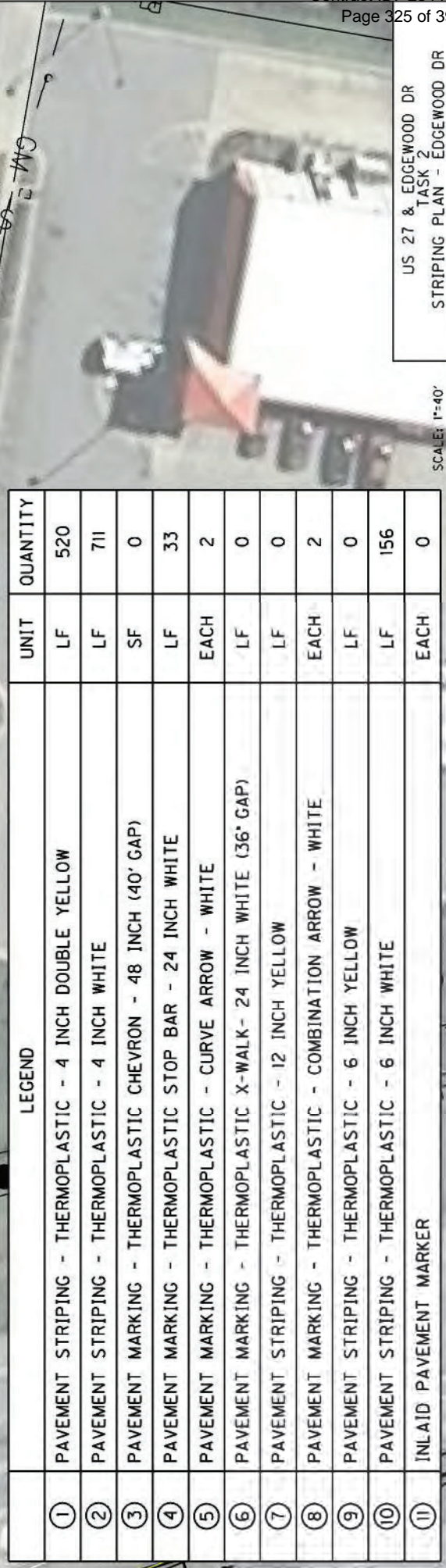




LEGEND		UNIT	QUANTITY
①	PAVEMENT STRIPING - THERMOPLASTIC - 4 INCH DOUBLE YELLOW	LF	440
②	PAVEMENT STRIPING - THERMOPLASTIC - 4 INCH WHITE	LF	402
③	PAVEMENT MARKING - THERMOPLASTIC CHEVRON - 48 INCH (40' GAP)	SF	0
④	PAVEMENT MARKING - THERMOPLASTIC STOP BAR - 24 INCH WHITE	LF	30
⑤	PAVEMENT MARKING - THERMOPLASTIC - CURVE ARROW - WHITE	EACH	2
⑥	PAVEMENT MARKING - THERMOPLASTIC X-WALK- 24 INCH WHITE (36" GAP)	LF	0
⑦	PAVEMENT STRIPING - THERMOPLASTIC - 12 INCH YELLOW	LF	0
⑧	PAVEMENT MARKING - THERMOPLASTIC - COMBINATION ARROW - WHITE	EACH	2
⑨	PAVEMENT STRIPING - THERMOPLASTIC - 6 INCH YELLOW	LF	0
⑩	PAVEMENT STRIPING - THERMOPLASTIC - 6 INCH WHITE	LF	154
⑪	INLAID PAVEMENT MARKER	EACH	0

US 27 & EDGEWOOD DR  
TASK 2  
STRIPING PLAN - EDGEWOOD DR

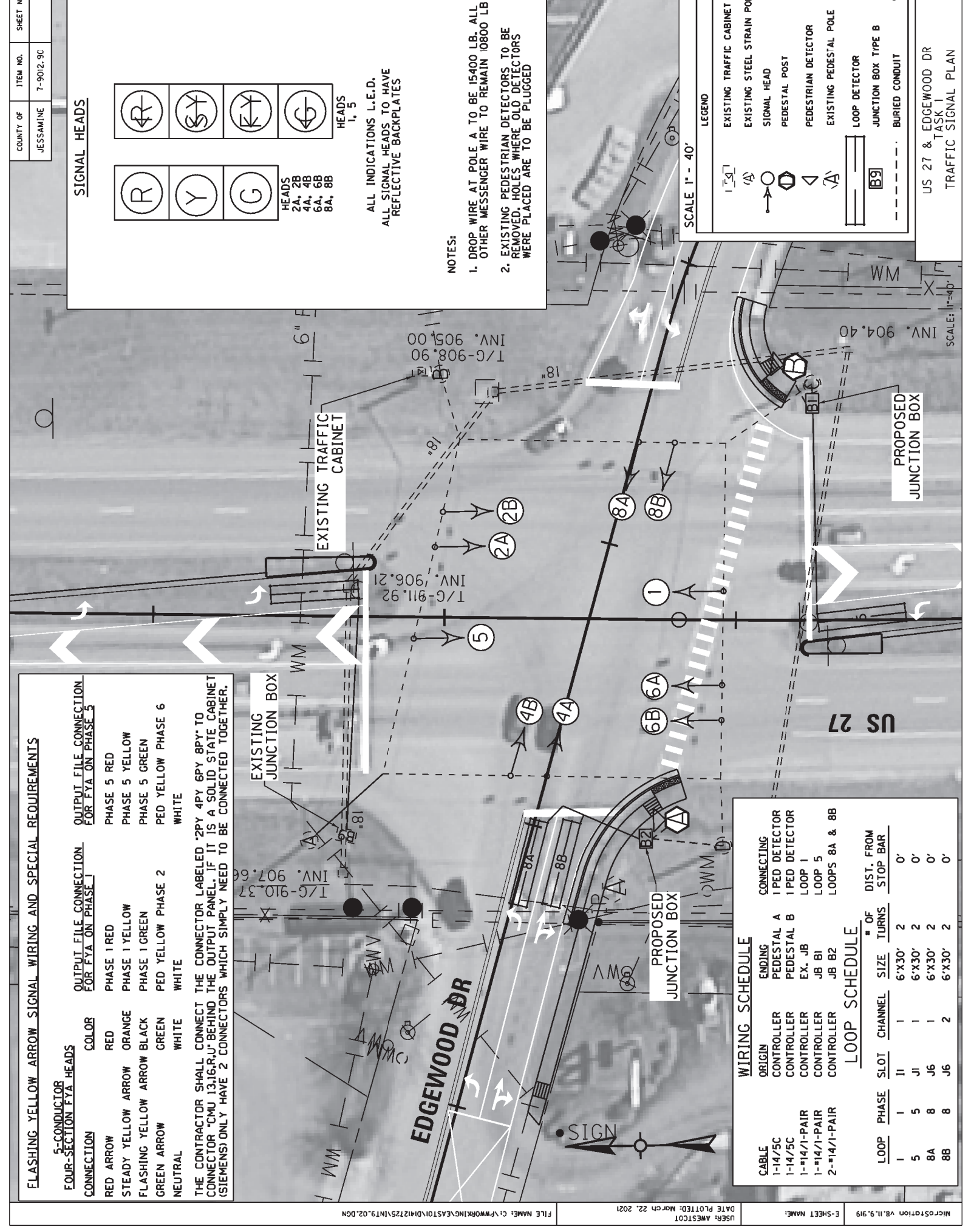


	LEGEND	UNIT	QUANTITY
①	PAVEMENT STRIPING - THERMOPLASTIC - 4 INCH DOUBLE YELLOW	LF	520
②	PAVEMENT STRIPING - THERMOPLASTIC - 4 INCH WHITE	LF	711
③	PAVEMENT MARKING - THERMOPLASTIC CHEVRON - 48 INCH (40' GAP)	SF	0
④	PAVEMENT MARKING - THERMOPLASTIC STOP BAR - 24 INCH WHITE	LF	33
⑤	PAVEMENT MARKING - THERMOPLASTIC - CURVE ARROW - WHITE	EACH	2
⑥	PAVEMENT MARKING - THERMOPLASTIC X-WALK - 24 INCH WHITE (36' GAP)	LF	0
⑦	PAVEMENT STRIPING - THERMOPLASTIC - 12 INCH YELLOW	LF	0
⑧	PAVEMENT MARKING - THERMOPLASTIC - COMBINATION ARROW - WHITE	EACH	2
⑨	PAVEMENT STRIPING - THERMOPLASTIC - 6 INCH YELLOW	LF	0
⑩	PAVEMENT STRIPING - THERMOPLASTIC - 6 INCH WHITE	LF	156
⑪	INLAID PAVEMENT MARKER	EACH	0

SCALE: 1"=40'





COUNTY OF

JESSAMINE

ITEM NO.

7-9012, 9C

SHEET NO.

SIGNAL HEADS

(R)

(Y)

(G)

HEADS  
2A, 2B  
4A, 4B  
6A, 6B  
8A, 8B

(R)

(S)

(T)

(G)

HEADS  
1, 5

ALL INDICATIONS L.E.D.

ALL SIGNAL HEADS TO HAVE REFLECTIVE BACKPLATES

NOTES:

1. DROP WIRE AT POLE A TO BE 15400 LB. ALL OTHER MESSENGER WIRE TO REMAIN 10800 LB

2. EXISTING PEDESTRIAN DETECTORS TO BE REMOVED. HOLES WHERE OLD DETECTORS WERE PLACED ARE TO BE PLUGGED

LEGEND

EXISTING TRAFFIC CABINET

EXISTING STEEL STRAIN POLE

SIGNAL HEAD

PEDESTAL POST

PEDESTRIAN DETECTOR

EXISTING PEDESTAL POLE

LOOP DETECTOR

JUNCTION BOX TYPE B

BURIED CONDUIT

FLASHING YELLOW ARROW SIGNAL WIRING AND SPECIAL REQUIREMENTS

5-CONDUCTOR FOUR-SECTION FYA HEADS

CONNECTION	COLOR	OUTPUT FILE CONNECTION FOR FYA ON PHASE J
RED ARROW	RED	PHASE 1 RED
STEADY YELLOW ARROW	ORANGE	PHASE 1 YELLOW
FLASHING YELLOW ARROW	BLACK	PHASE 1 GREEN
GREEN ARROW	GREEN	PED YELLOW PHASE 2
NEUTRAL	WHITE	WHITE

THE CONTRACTOR SHALL CONNECT THE CONNECTOR LABELED "2PY 4PY 6PY 8PY" TO CONNECTOR "CMU 13,16,R,U" BEHIND THE OUTPUT PANEL, IF IT IS A SOLID STATE CABINET (SIEMENS) ONLY HAVE 2 CONNECTORS WHICH SIMPLY NEED TO BE CONNECTED TOGETHER.





WIRING SCHEDULE

CABLE	ORIGIN	ENDING	CONNECTING
1-14/SC	CONTROLLER	PEDESTAL A	1 PED DETECTOR
1-14/SC	CONTROLLER	PEDESTAL B	1 PED DETECTOR
1-14/1-PAIR	CONTROLLER	EX. JB	LOOP 1
1-14/1-PAIR	CONTROLLER	JB B1	LOOP 5
2-14/1-PAIR	CONTROLLER	JB B2	LOOPS 8A & 8B

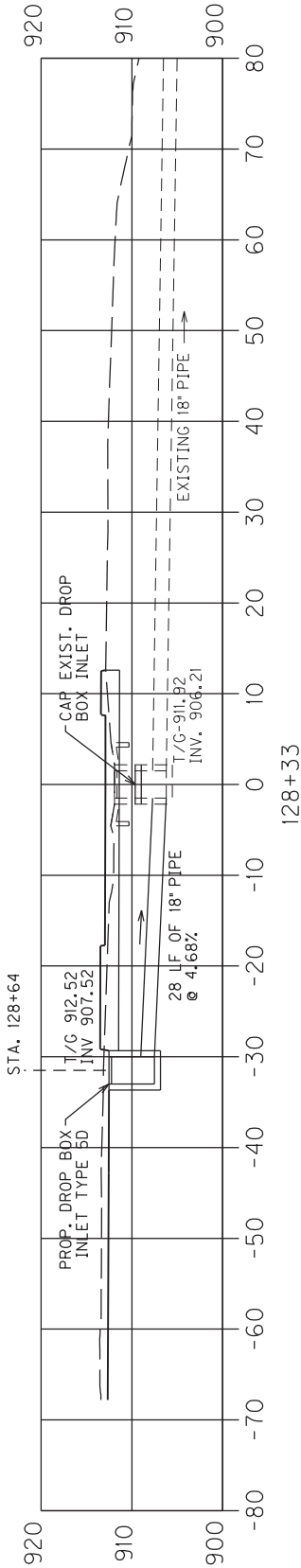
LOOP SCHEDULE

LOOP	PHASE	SLOT	CHANNEL	SIZE	# OF TURNS	DIST. FROM STOP BAR
1	1	I1	1	6"x30"	2	0'
5	5	J1	1	6"x30"	2	0'
8A	8	J6	1	6"x30"	2	0'
8B	8	J6	2	6"x30"	2	0'

COUNTY OF	ITEM NO.	SHEET NO.
JESSAMINE	7-9012.90	

SIGN/SIGN ASSEMBLY NUMBER	SIZES IN INCHES		MESSAGES	SPECIFICATION	SIGN LOCATION				AT STATION (APPROXIMATE)
	HORIZ.	VERT.			SIDE OF ROAD	FACING TRAFFIC TRAVELING	ON ROAD		
S-1	24"	30"		R4-7	MEDIAN	SB	US 27	126+65	
S-2	24"	30"		R4-7	MEDIAN	NB	US 27	128+35	
S-3	24"	30"		R10-7 (MOD)	RT	EB	EDGEWOOD DR	105+25	
S-4	24"	30"		R10-7 (MOD)	LT	WB	EDGEWOOD DR	110+20	

COUNTY OF	ITEM NO.	SHEET NO.
JESSAMINE	7-9012.90	



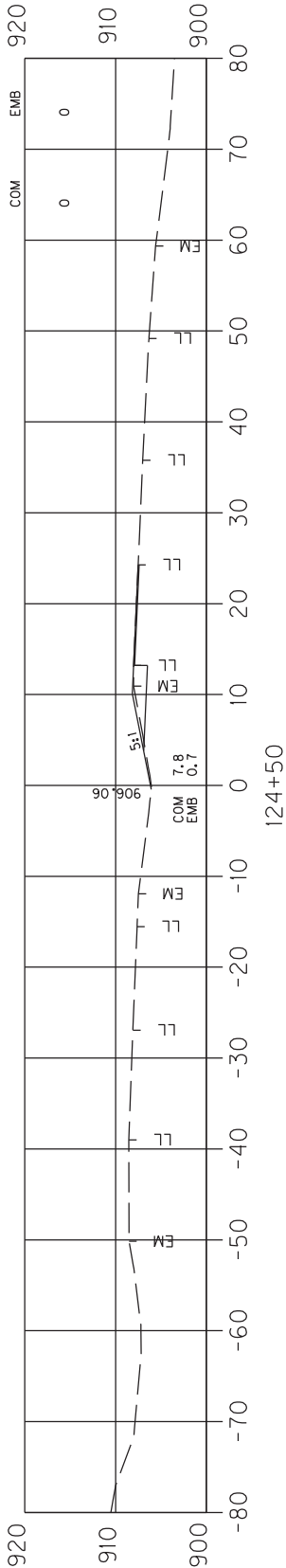
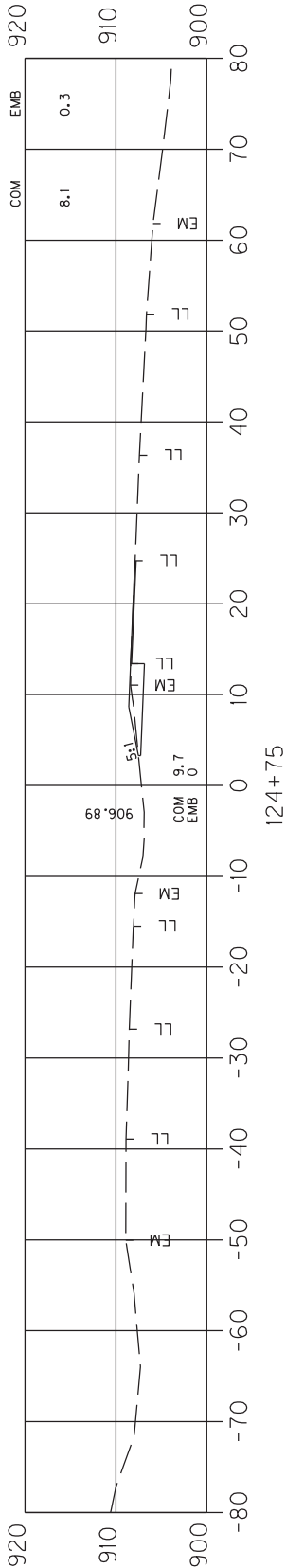
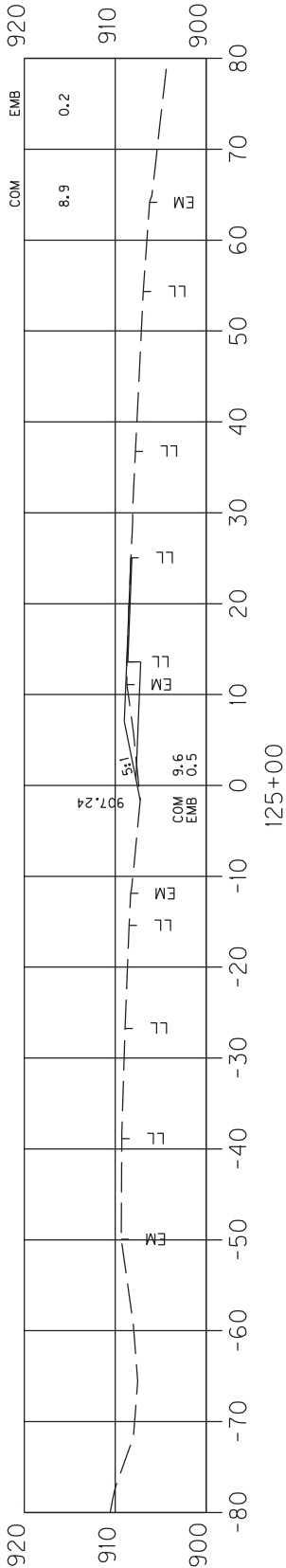
SCALE: 1" = 20' HORIZONTAL  
1" = 20' VERTICAL

US 27 & EDGEWOOD DR.  
PIPE SECTION

COUNTY OF	ITEM NO.	SHEET NO.
JESSAMINE	7-9012.90	

NOTES:

1. ALL WORK IS TO BE DONE WITHIN EXISTING RIGHT OF WAY  
UNLESS DIRECTED BY THE ENGINEER.  
SEE SPECIAL NOTES APPLICABLE TO THE PROJECT.
2. ELEVATIONS ARE APPROXIMATE AND SHOULD BE VERIFIED  
IN THE FIELD. GRADE MEDIANS TO DRAIN.

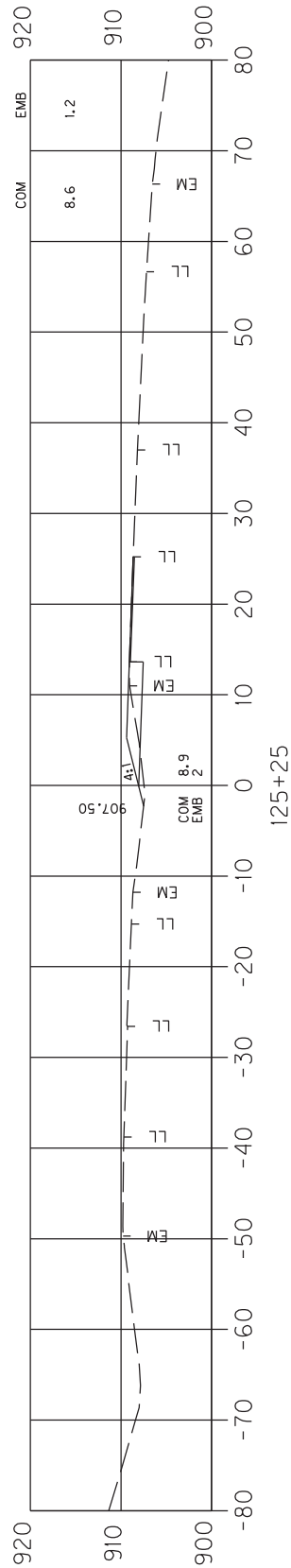
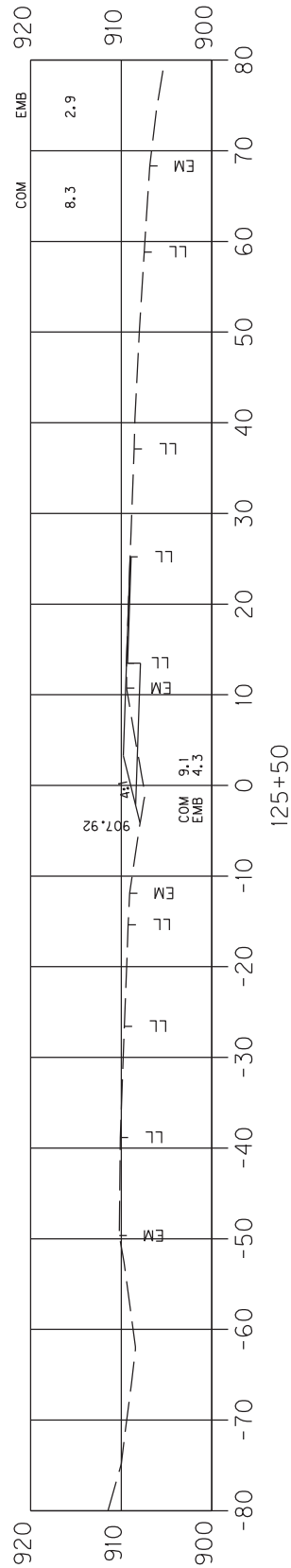
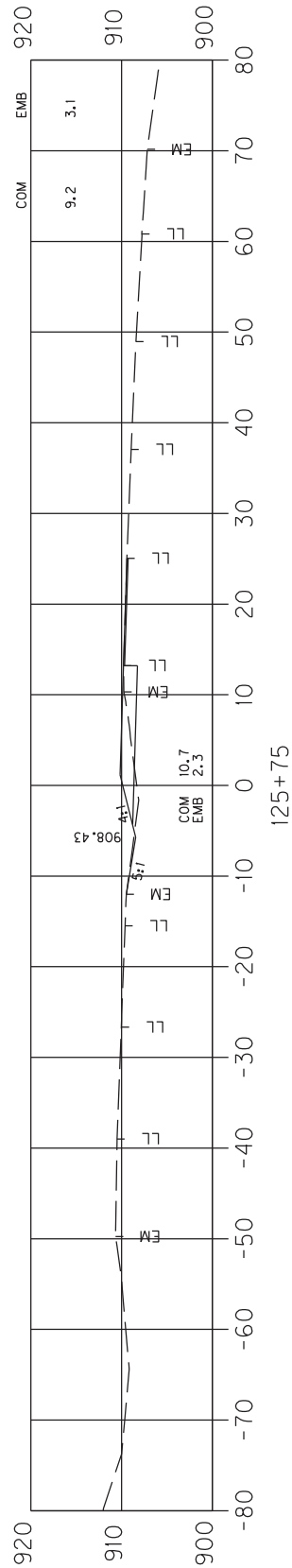


SCALE: 1" = 20' HORIZONTAL  
1" = 20' VERTICAL

BEGIN TURN LANE  
CONSTRUCTION +50

US 27 & EDGEWOOD DR.  
CROSS SECTION  
STA. 124+50 TO STA. 125+00

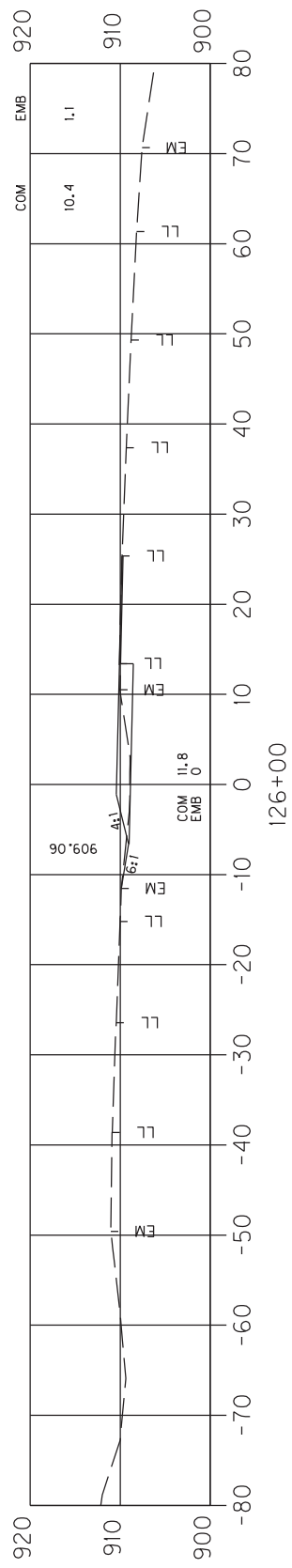
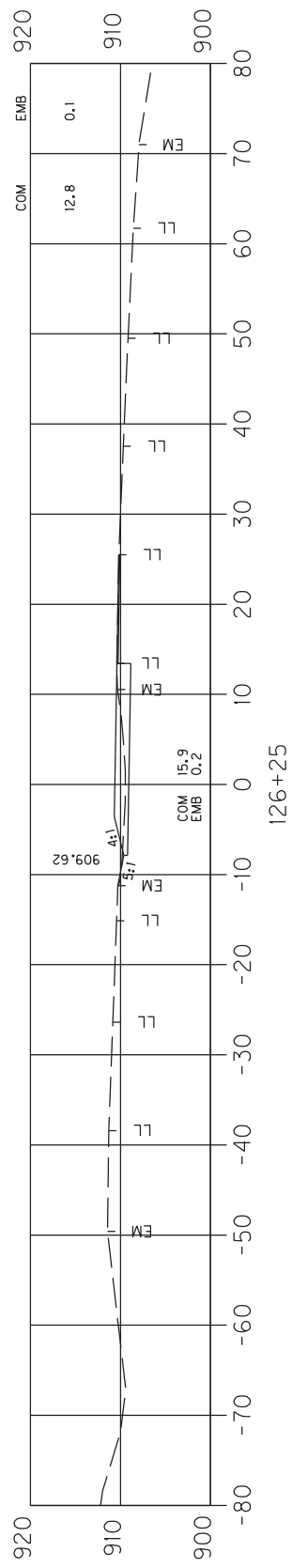
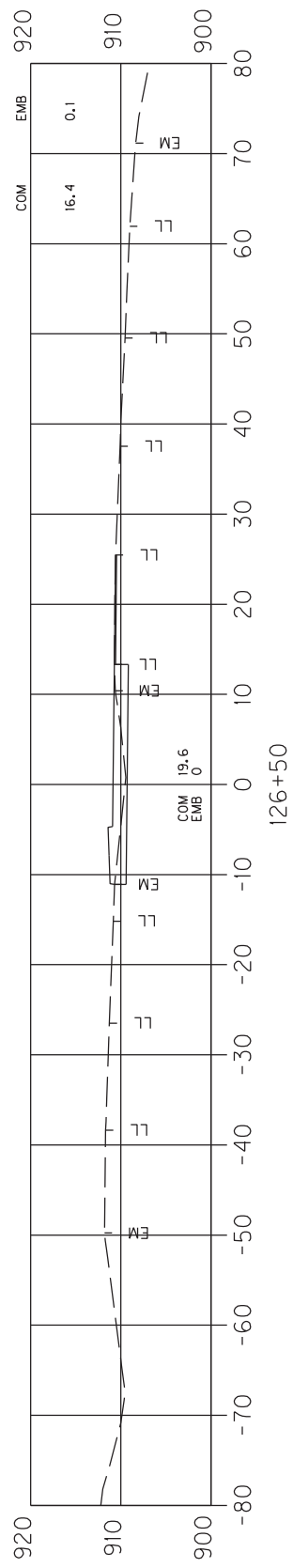
COUNTY OF	ITEM NO.	SHEET NO.
JESSAMINE	7-9012.90	



SCALE: 1" = 20' HORIZONTAL  
1" = 20' VERTICAL

US 27 & EDGEWOOD DR.  
CROSS SECTION  
STA. 125+25 TO STA. 125+75

COUNTY OF	ITEM NO.	SHEET NO.
JESSAMINE	7-9012.90	

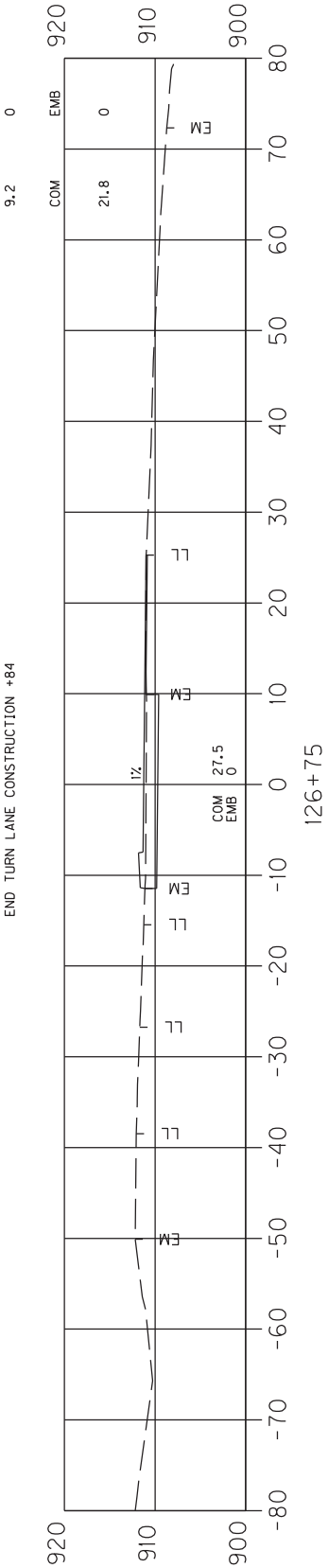


SCALE: 1" = 20' HORIZONTAL  
1" = 20' VERTICAL

US 27 & EDGEWOOD DR.  
CROSS SECTION  
STA. 126+00 TO STA. 126+50



COUNTY OF	ITEM NO.	SHEET NO.
JESSAMINE	7-9012.90	

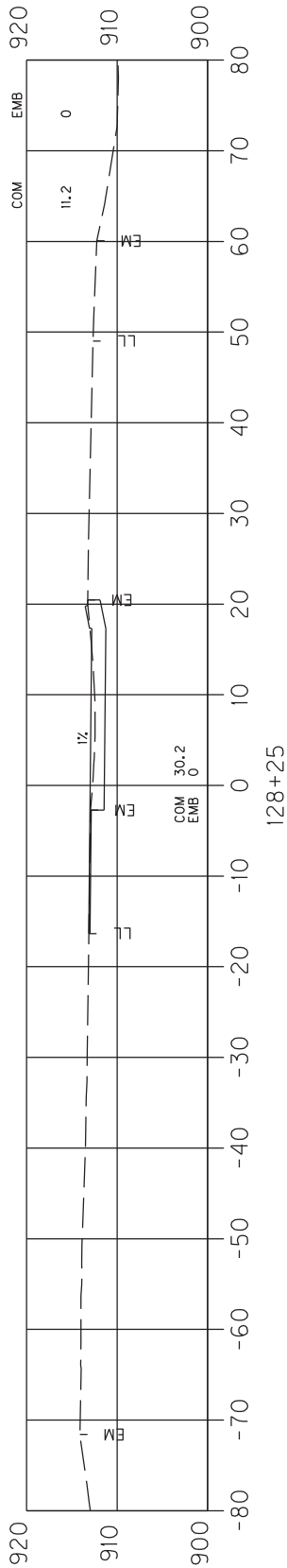
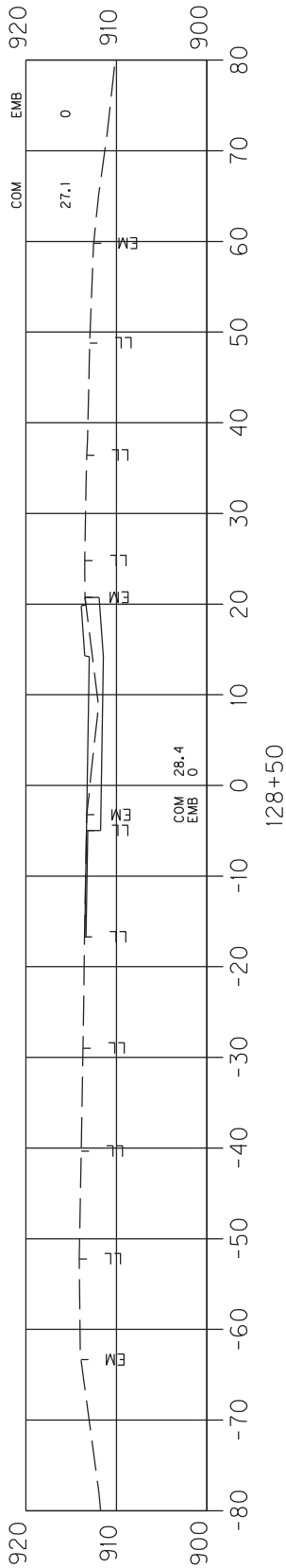
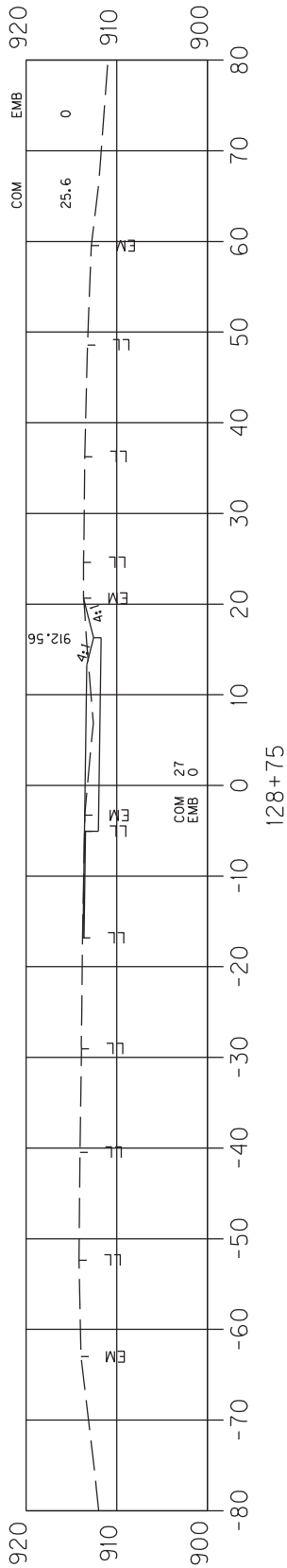


SCALE: 1" = 20' HORIZONTAL  
1" = 20' VERTICAL

US 27 & EDGEWOOD DR.  
CROSS SECTION  
STA. 126+75

121GR23T024-HSIP

COUNTY OF	ITEM NO.	SHEET NO.
JESSAMINE	7-9012.90	



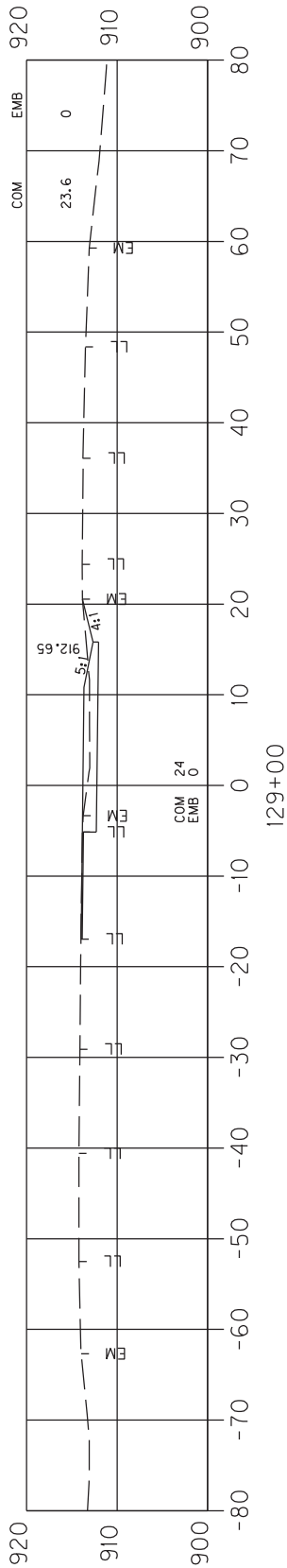
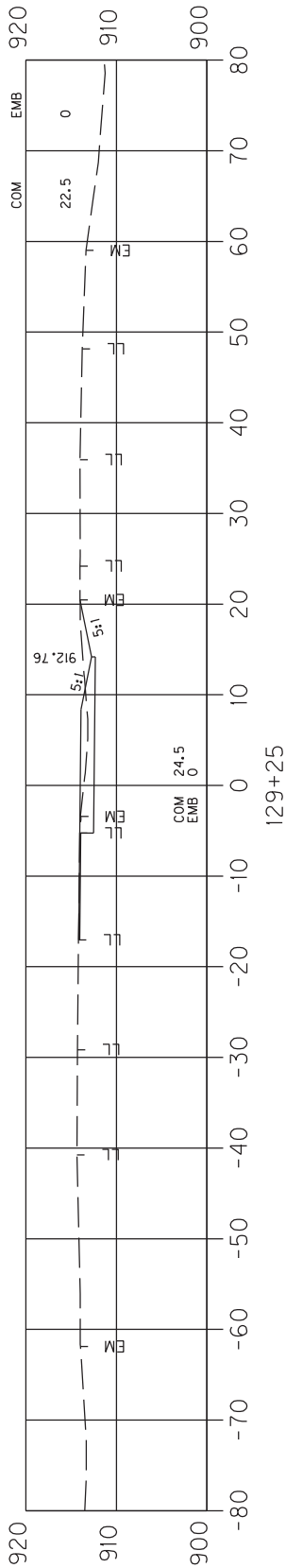
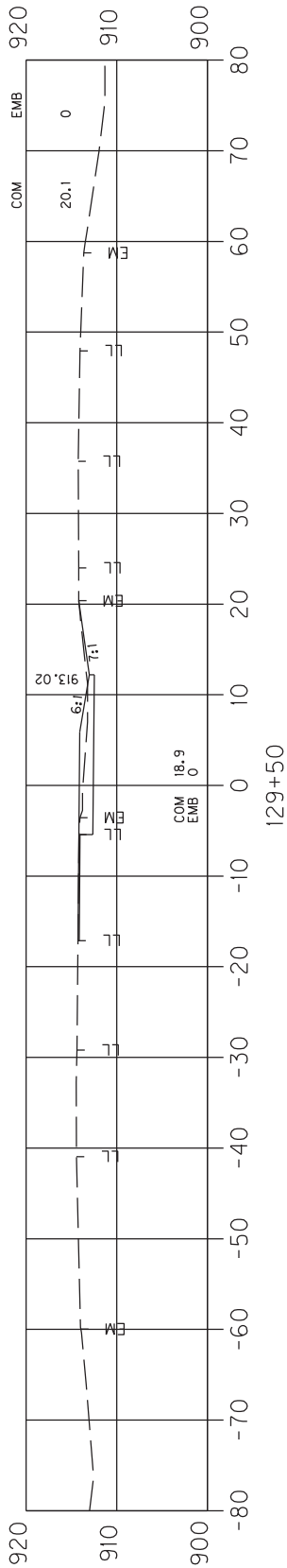
SCALE: 1" = 20' HORIZONTAL  
1" = 20' VERTICAL

BEGIN TURN LANE  
CONSTRUCTION +15

US 27 & EDGEWOOD DR.  
CROSS SECTION  
STA. 128+25 TO STA. 128+75

121GR23T024-HSIP

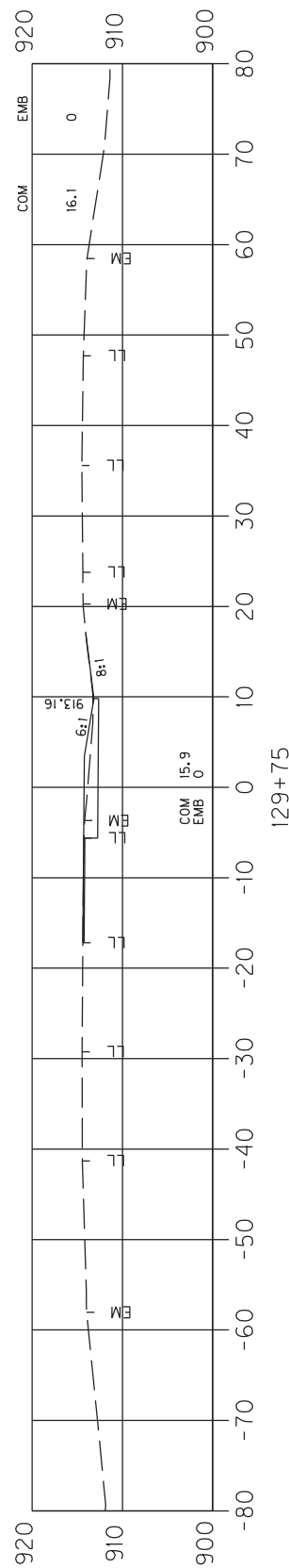
COUNTY OF	ITEM NO.	SHEET NO.
JESSAMINE	7-9012.90	



SCALE: 1" = 20' HORIZONTAL  
1" = 20' VERTICAL

US 27 & EDGEWOOD DR.  
CROSS SECTION  
STA. 129+00 TO STA. 129+50

Microsoft Word 8.11.9.832	USER: AWSHCOT DATE PLOTTED: July 20, 2020	FILE NAME: C:\PWORKING\EASTO\ID\413752\INT9-CROSS SECTIONS.DGN
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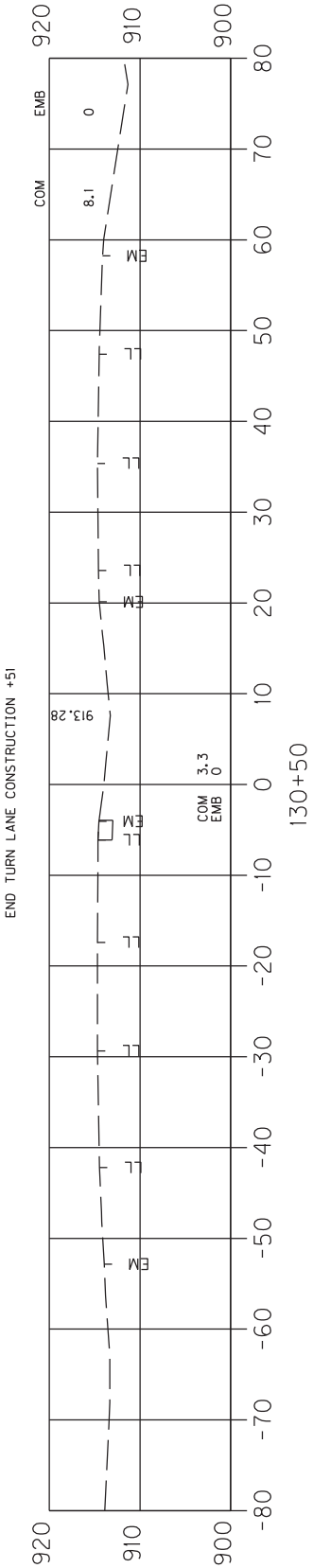


SCALE: 1" = 20' HORIZONTAL  
1" = 20' VERTICAL

US 27 & EDGEWOOD DR.  
CROSS SECTION  
STA. 129+75 TO STA. 130+25

COUNTY OF	ITEM NO.	SHEET NO.
JESSAMINE	7-9012.90	

ROADWAY EXCAVATION TOTAL = 297 CU YD



PROJECT MATERIALS RELEASE FORM  
FOR SIGNAL AND LIGHTING

Noted: Electrical contractor will submit KYTC's work schedule at least two days prior to arrival on site. Ensure contractor's delivery driver as a contractor will not reschedule delivery if it is in the delivery schedule materials are not available.

Item Number7 9012 90

Countyessaline

DescriptionS 27 & Edwards Dr

Categories	Master code	
1	T-01-0105	ATC Controller
1	T-01-0106	1C w Maxtime (this should go with item ATC controller)
4	T-01-0600	Loop Detector Model 222

Signals		
8	T-02-0009	Siemens 3 Section Signal
8	T-02-0032	Siemen 3 section backplate
2	T-02-0033	Siemen 4 section 12" signal (poly)
2	T-02-0043	Siemen 4-sec. straight signal backplate
2	T-02-0300	LED Module 12" red arrow
4	T-02-0310	LED Module 12" yellow arrow
2	T-02-0320	LED Module 12" green arrow
8	T-02-0330	LED Module 12" red ball
8	T-02-0340	LED Module 12" yellow ball
8	T-02-0350	LED Module 12" green ball

Special items		
2	T-02-0661	Post Top for Pedestal (each)
2	T-02-0670	Pedestal
2	T-06-0710	Ped Detector Pole Mount FSA Box
2	T-06-0730	Ped Button w/o Plunger
2	T-17-0015	9" 15 Countdown Ped Sign DBL Sided

REQUIRED

Electrical Contractor Name

Electrical Contractor Supervisor

Project Engineer

Project Engineer attests that the mentioned contractor is the actual electrical contractor on this project

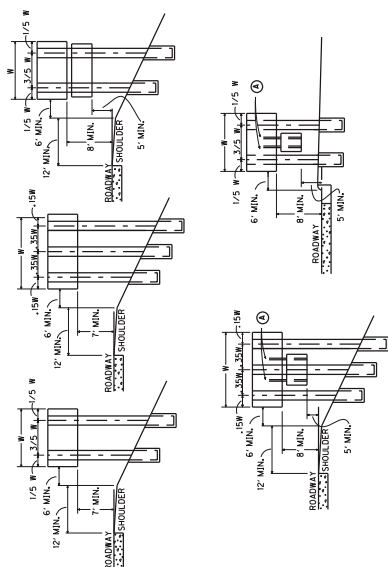
Signature of Project Engineer or Designee

Contact number for Supervisor

Contact number for Project Engineer

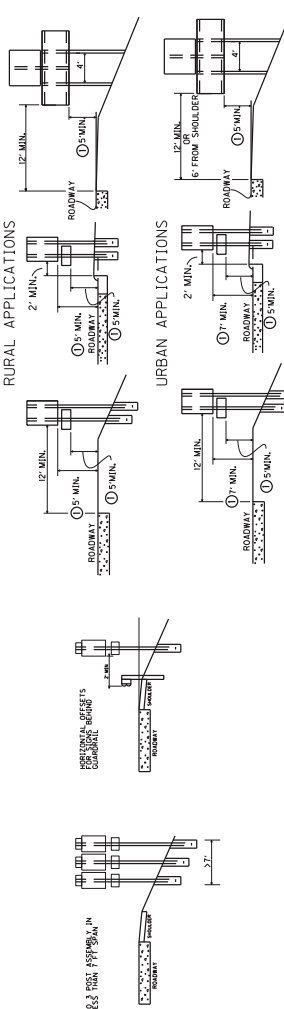


## PANEL SIGNS



⑤ ATTACHMENT OF SECONDARY SIGN TO MAJOR SIGN IS TO BE MADE WITH TWO (2) 3" X 3" X  $\frac{3}{4}$ " ANGLES OF SUFFICIENT LENGTH TO EXTEND FROM THE LOWER EDGE OF THE SECONDARY SIGN TO AT LEAST THREE FEET UP THE BACK OF THE MAJOR SIGN. A MINIMUM OF ONE POST CUP PER FOOT SHALL BE USED IN ATTACHING EXTRUSIONS TO EACH ANGLE.

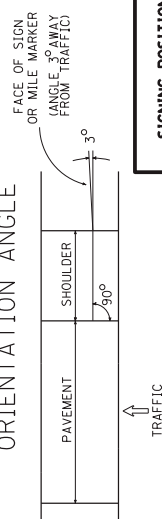
## SHEETING SIGNS



NOTE: SHOULD A SIGN BE LOCATED AT A POINT WHERE GUARDRAIL IS CALLED FOR OR EXISTING, ALL SIGN SUPPORTS SHALL BE PLACED BEHIND THE GUARDRAIL AND LATERAL OFFSET SHALL BE MEASURED FROM THE GUARDRAIL.

① NOT TO EXCEED 8' IN URBAN AREAS AND 6' IN RURAL AREAS UNLESS SPECIFIED BY THE ENGINEER

## ORIENTATION ANGLE



NOTE: STATION NUMBERS ARE GIVEN FOR NOTED DIRECTION OF TRAVEL ONLY. CORRESPONDING MILEPOST MARKERS FOR OTHER DIRECTION SHOULD BE PLACED DIRECTLY OPPOSITE THOSE FOR WHICH STATION NUMBERS ARE GIVEN.

IN JEFFERSON COUNTY, FINAL LOCATION OF MILEPOST MARKERS SHALL BE VERIFIED BY TRIMARC. NOTIFY TRIMARC AT LEAST TWO WEEKS PRIOR TO BEGINNING WORK ON THIS ITEM:

901 WEST MAIN STREET  
LOUISVILLE, KY 40202  
502-587-6624  
270-307-7456

### SIGNING POSITIONING DETAIL SHEET

COUNTY OF	ITEM NO.	SHEET NO.



SQUARE TUBING POST  
WITH TYPE "D" SUPPORT

### TYPE I

SQUARE TUBING POST  
WITH SOIL STABILIZER

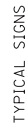
TYPE II

CHANNEL POST  
WITH SOIL STABILIZER

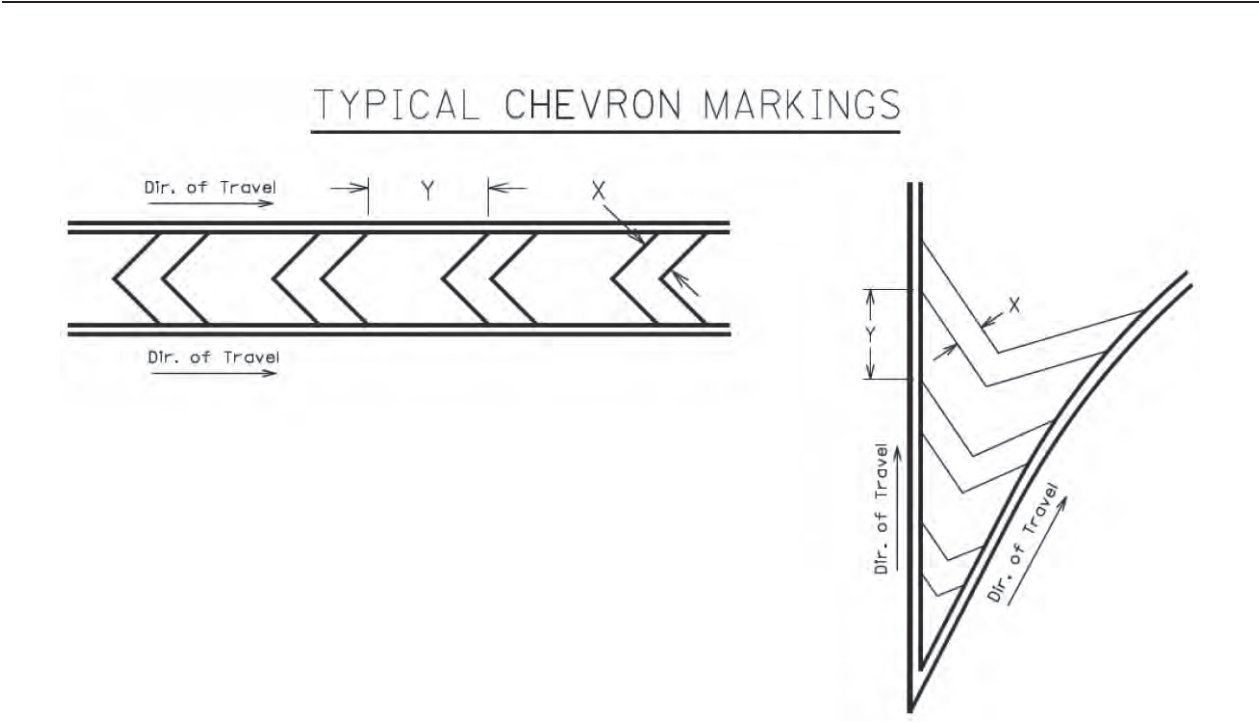
**SHEETING SIGN DETAIL**  
**SHEET 1 OF 2**

**NOT TO SCALE**

**NOT TO SCALE**



CHEVRON PAVEMENT MARKINGS DETAIL



The chevron pavement marking width (X) and spacing (Y) will usually be specified in the plans. The width to spacing values usually have a ratio of 1:10. If the plans do not specify the width (X) and spacing (Y) the Engineer will provide the contractor with the X and Y values for each chevron installation. If necessary, the Engineer may obtain guidance from the District Traffic Engineer and/or the Division of Traffic Operations.

NOTE: Adjust the width and spacing of the chevron pavement markings as necessary so that a minimum of three (3) chevron markings are placed within the area being marked. The 1:10 ratio between width and spacing values should be maintained as much as possible.

Refer to Section 717 of the Standard Specifications for Road and Bridge Construction, current edition, for more information concerning Material and Construction specifications.

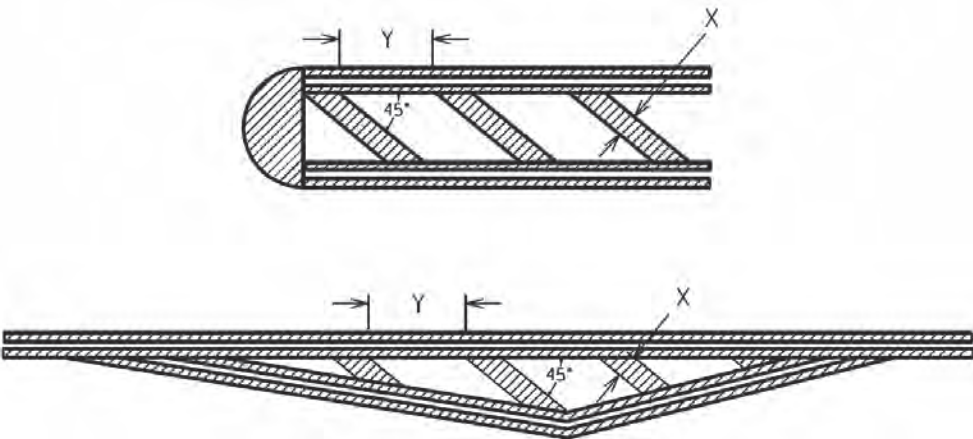
The Department will measure the finished in-place area of Chevron Pavement Markings in Square Feet. The Department will NOT measure overlaps or the void space between the chevrons. See Section 717.04 for additional measurement information.

When listed as a bid item, the Department will make payment for the completed and accepted quantities of Chevron Pavement Markings under the following:

Code	Pay Item	Pay Unit
24679ED	Pave Mark Thermo Chevron	Square Foot
26166ES717	Pave Mark TY 1 Tape Chevron	Square Foot

CROSS-HATCH PAVEMENT MARKINGS DETAIL

TYPICAL CROSS-HATCH MARKINGS



The cross-hatch pavement marking width (X) and spacing (Y) will usually be specified in the plans. The width to spacing values usually have a ratio of 1:10. If the plans do not specify the width (X) and spacing (Y) the Engineer will provide the contractor with the X and Y values for each cross-hatch installation. If necessary, the Engineer may obtain guidance from the District Traffic Engineer and/or the Division of Traffic Operations.

NOTE: Adjust the width and spacing of the cross-hatch pavement markings as necessary so that a minimum of three (3) cross-hatch markings are placed within the area being marked. The 1:10 ratio between width and spacing values should be maintained as much as possible.

Refer to Section 717 of the Standard Specifications for Road and Bridge Construction, current edition, for more information concerning Material and Construction specifications.

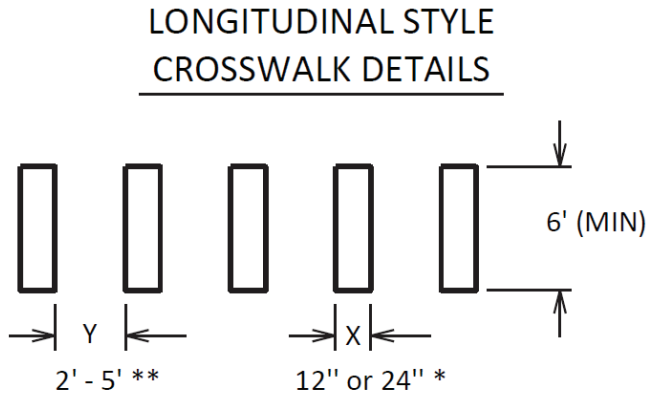
The Department will measure the finished in-place area of Cross-Hatch Pavement Markings in Square Feet. The Department will NOT measure overlaps or the void space between cross-hatching. See Section 717.04 for additional measurement information.

When listed in the bid items, the Department will make payment for the completed and accepted quantities of Cross-Hatch Pavement Markings under the following:

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
06569	Pave Marking-Thermo Cross-Hatch	Square Foot
23253ES717	Pave Mark TY 1 Tape Cross Hatch	Square Foot



LONGITUDINAL STYLE CROSSWALK DETAIL



\*BARS WILL BE SPECIFIED AS 12" OR 24"

\*THE SPACE BETWEEN BARS IS TYPICALLY TWICE THE WIDTH OF THE BAR. ADJUST LAYOUT OF BARS AND/OR SPACING SO AS TO AVOID THE WHEEL PATHS OF APPROACHING VEHICLES.

The longitudinal crosswalk bar width (X) will be specified in the bid item descriptions, summary sheets, and/or plans. The spacing (Y) between the longitudinal cross walk bars should be twice the bar width, unless otherwise specified, or otherwise directed by the Engineer:

Refer to Section 717 of the Standard Specifications for Road and Bridge Construction, current edition, for more information concerning Material and Construction specifications.

The Department will measure the sum of the lengths of all the longitudinal crosswalk bars in Linear Feet. See Section 717.04 for additional measurement information.

When listed in the bid items, the Department will make payment for the completed and accepted quantities of longitudinal style crosswalks under the following:

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
06566	Pave Marking-Thermo X-Walk-12 Inch	Linear Foot
23261EC	Pave Mark-Thermo-X-Walk-24 Inch	Linear Foot
23264ES717	Pave Mark TY 1 Tape X-Walk-12 Inch	Linear Foot
26164ES717	Pave Mark TY 1 Tape X-Walk-24 Inch	Linear Foot

## **PART II**

### **SPECIFICATIONS AND STANDARD DRAWINGS**

### **STANDARD SPECIFICATIONS**

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

### **SUPPLEMENTAL SPECIFICATIONS**

The contractor shall use the Supplemental Specifications that are effective at the time of letting. The Supplemental Specifications can be found at the following link:  
<http://transportation.ky.gov/Construction/Pages/Kentucky-Standard-Specifications.aspx>

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

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

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

## **2.0 MATERIALS.**

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

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

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

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

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

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

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

2.3 Power.

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

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

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

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

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

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

11  
the actual number of individual signs acceptably furnished and operated during the project. The Department will not measure signs replaced due to damage or rejection.

**5.0 PAYMENT.** The Department will pay for the Variable Message Signs at the unit price each. The Department will not pay for signs replaced due to damage or rejection. Payment is full compensation for furnishing all materials, labor, equipment, and service necessary to, operate, move, repair, and maintain or replace the variable message signs. The Department will make payment for the completed and accepted quantities under the following:

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
02671	Portable Changeable Message Sign	Each

Effective June 15, 2012



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).

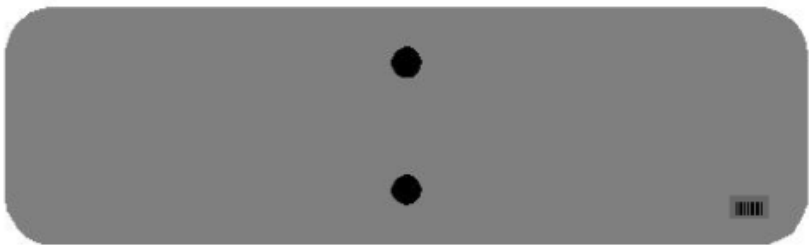
The installation of the permanent sign will be measured in accordance to Section 715.

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

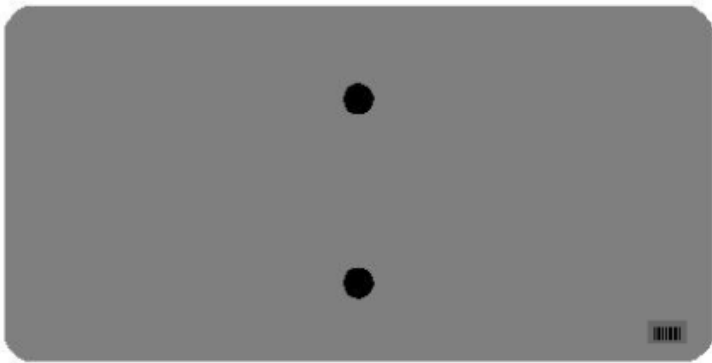
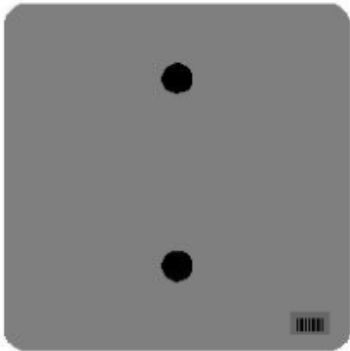
<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
24631EC	Barcode Sign Inventory	Each

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.

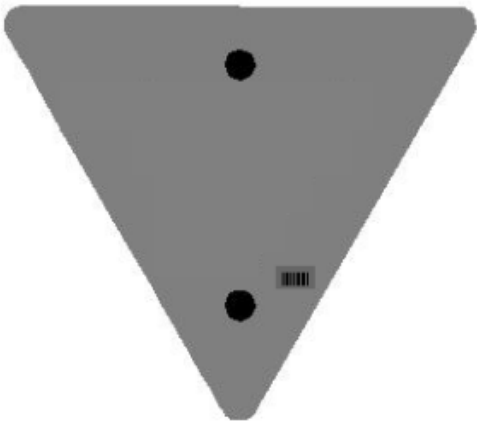
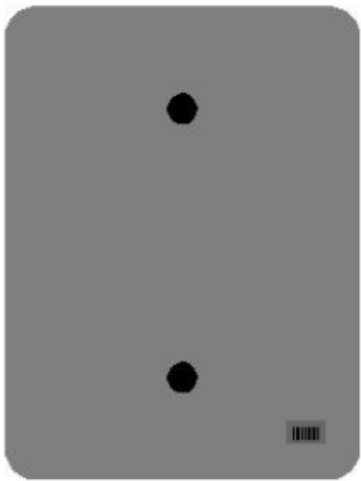
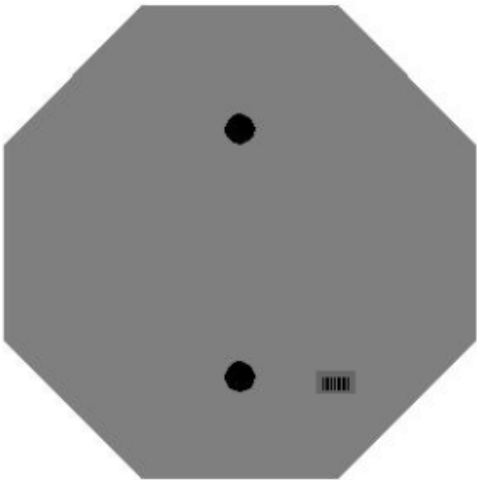
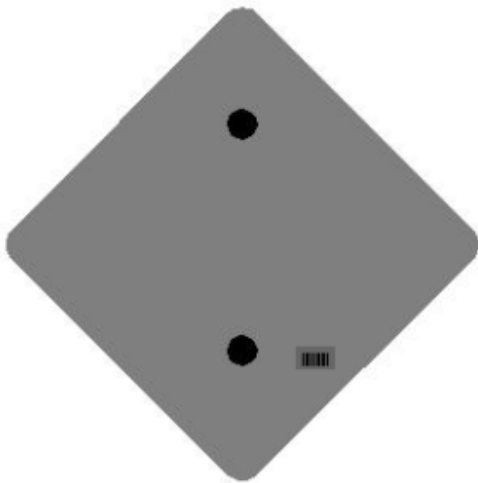
One Sign Post



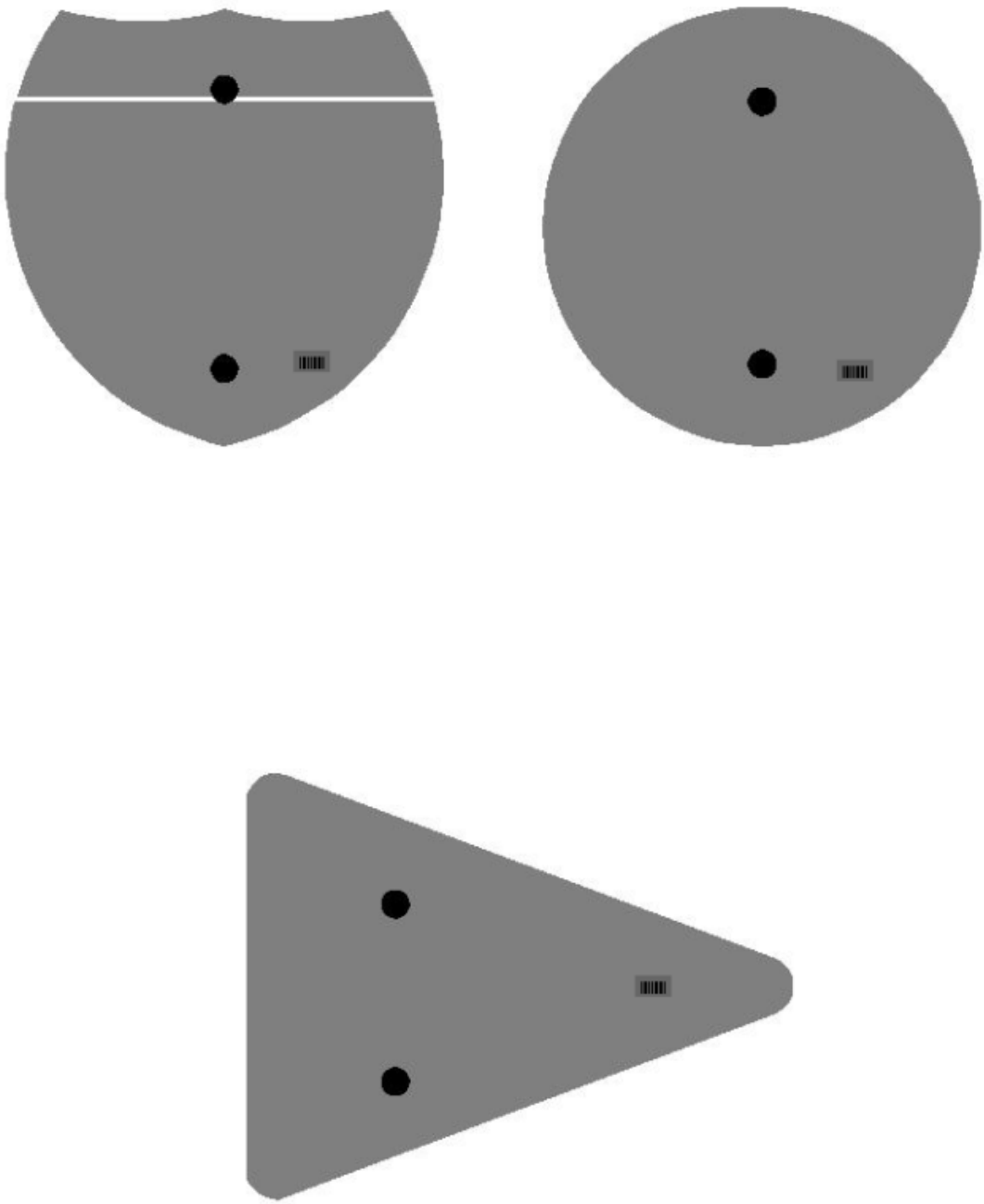
↑  
2" Wide Post



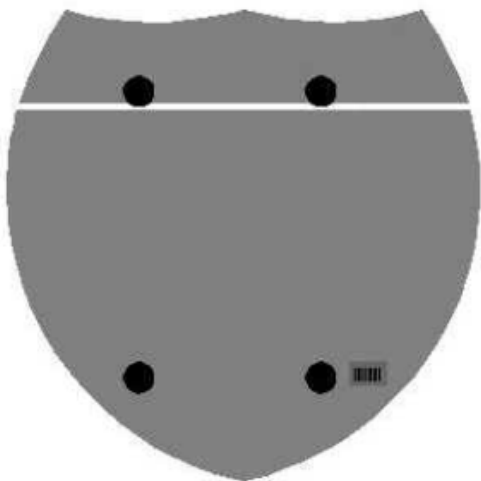
One Sign Post



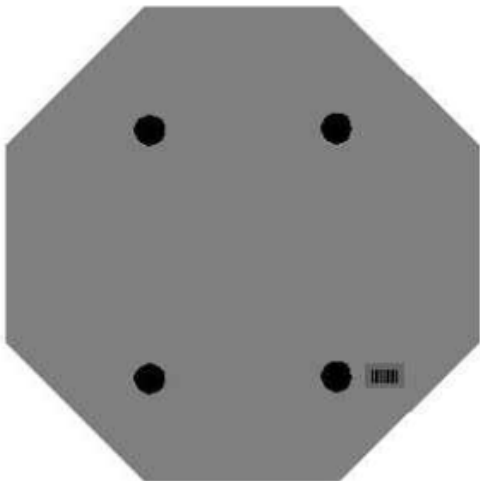
One Sign Post



Double Sign Post

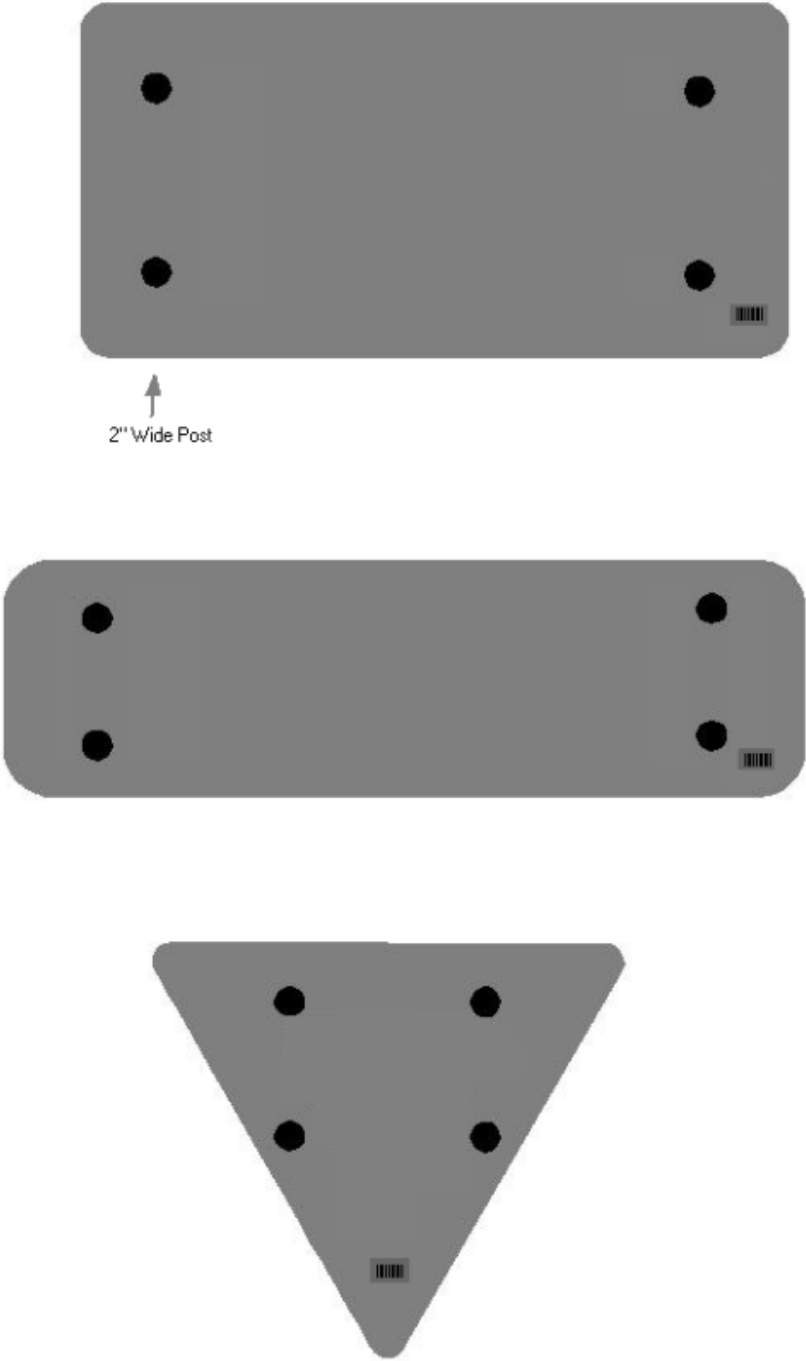


Interstate  
Shield



48" Stop

2 Post Signs





2020 STANDARD DRAWINGS THAT APPLY

~ DRAINAGE ~

BOX INLETS AND OUTLETS

DROP BOXES

DROP BOX INLET TYPE 5A-5B-5C-5D-5E & 5F .....	RDB-005-09
DROP BOX INLET TYPE 12 OR 12A .....	RDB-012-10
DROP BOX INLET TYPE 13 (DETAIL SHEET) .....	RDB-013-07
DROP BOX INLET TYPE 13 AND TYPE 16 (FRAME & GRATE DETAILS).....	RDB-014-06
DROP BOX INLET TYPE 13 (DETAIL & BAR CHART FOR LID).....	RDB-015-04

TYPICAL DRAINAGE INSTALLATIONS

CULVERT, ENTRANCE & STORM SEWER PIPE TYPES & COVER HEIGHTS (12" – 24" PIPE) .....	RDI-001-10
PIPE BEDDING FOR CULVERTS, ENTRANCE, AND STORM SEWER PIPE .....	RDI-020-10
PIPE BEDDING FOR CULVERTS, ENTRANCE, AND STORM SEWER, REINFORCED CONC. PIPE .....	RDI-021-01
PIPE BEDDING, TRENCH CONDITION .....	RDI-025-06
PIPE BEDDING, TRENCH CONDITION, REINFORCED CONC. PIPE .....	RDI-026-01
COATINGS, LININGS AND PAVINGS FOR NON-STRUCTURAL PLATE PIPE .....	RDI-035-02
EROSION CONTROL BLANKET SLOPE INSTALLATION.....	RDI-040-01
EROSION CONTROL BLANKET CHANNEL INSTALLATION .....	RDI-041-01

MANHOLES

FRAME AND LID TYPE 1 .....	RDM-100-03
FRAME AND LID TYPE 2 .....	RDM-105-03

PERFORATED PIPE

PERFORATED PIPE TYPES AND COVER HEIGHTS.....	RDP-001-06
PERFORATED PIPE FOR SUBGRADE DRAINAGE ON TWO-LANE (CLASS 2) AND MULTI-LANE ROADS .....	RDP-005-05
PERFORATED PIPE UNDERDRAINS (LONGITUDINAL AND TRANSVERSE) .....	RDP-006-04
PERFORATED PIPE DETAILS (SOLID ROCK).....	RDP-007-04
PERFORATED PIPE HEADWALLS .....	RDP-010-09

MISCELLANEOUS DRAINAGE

JUNCTION BOX .....	RDX-001-06
JUNCTION BOX (DIMENSIONS AND QUANTITIES) .....	RDX-002-04
JUNCTION BOX TYPE B.....	RDX-005-03
INTERMEDIATE AND END ANCHORS FOR CIRCULAR PIPE.....	RDX-060-04
TEMPORARY SILT FENCE.....	RDX-210-03
SILT TRAP - TYPE A .....	RDX-220-05
SILT TRAP - TYPE B .....	RDX-225-01
SILT TRAP - TYPE C .....	RDX-230-01

~ GENERAL ~

CURVE WIDENING AND SUPERELEVATION

CURVE WIDENING AND SUPERELEVATION TRANSITIONS.....	RGS-001-07
SUPERELEVATION FOR MULTILANE PAVEMENTS .....	RGS-002-06

Standard Drawings That Apply  
Page 2 of 2

<u>MISCELLANEOUS STANDARDS</u>	
MISCELLANEOUS STANDARDS.....	RGX-001-06
DETECTABLE WARNINGS .....	RGX-040-03
TYPE D BREAKAWAY SIGN SUPPORT .....	RGX-065-02
ONE POINT PROCTER FAMILY OF CURVES.....	RGX-200-01

<b>~ PAVEMENT ~</b>	
<u>MEDIANS, CURBS, APPROACHES, ENTRANCES, ETC.</u>	
STANDARD BARRIER MEDIAN.....	RPM-010-06
CURB AND GUTTER, CURBS AND VALLEY GUTTER .....	RPM-100-11
APPROACHES, ENTRANCES, AND MAIL BOX TURNOUT .....	RPM-110-07
ISLAND CURB CONSTRUCTION DETAILS (RIGID & FLEXIBLE PAVEMENT) .....	RPM-120-07
CONCRETE ENTRANCE PAVEMENT AND SIDEWALK.....	RPM-150-08
CONCRETE ENTRANCE PAVEMENT AND SIDEWALK.....	RPM-152-08
SIDEWALK RAMPS .....	RPM-170-09

<b>TRAFFIC</b>	
<b>~ PERMANENT ~</b>	
<u>MARKERS</u>	
TYPICAL MARKINGS AT SIGNALIZED INTERSECTIONS .....	TPM-203
TYPICAL MARKINGS FOR ISLANDS AND MEDIANS .....	TPM-205
TYPICAL MARKINGS FOR TURN LANES PAGE 1.....	TPM-206
TYPICAL MARKINGS FOR TURN LANES PAGE 2.....	TPM-207

<b>~ TEMPORARY ~</b>	
<u>TRAFFIC CONTROL</u>	
LANE CLOSURE TWO-LANE HIGHWAY.....	TTC-100-05
LANE CLOSURE MULTI-LANE HIGHWAY CASE I .....	TTC-115-04
LANE CLOSURE MULTI-LANE HIGHWAY CASE II .....	TTC-120-04
SHOULDER CLOSURE .....	TTC-135-03
TEMPORARY PAVEMENT MARKER ARRANGEMENTS FOR CONSTRUCTION ZONES .....	TTC-155-02
TEMPORARY PAVEMENT MARKER ARRANGEMENTS FOR LANE CLOSURES.....	TTC-160-02

<u>DEVICES</u>	
DOUBLE FINES ZONE SIGNS.....	TTD-120-03
PAVEMENT CONDITION WARNING SIGNS .....	TTD-125-03
SPEED ZONE SIGNING FOR WORK ZONES .....	TTD-130

<u>STRIPING OPERATIONS</u>	
MOBILE OPERATION FOR PAINT STRIPING CASE IV .....	TTS-115-02

## **PART III**

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

REQUIRED CONTRACT PROVISIONS  
FEDERAL-AID CONSTRUCTION CONTRACTS

- I. General
- II. Nondiscrimination
- III. Non-segregated Facilities
- IV. Davis-Bacon and Related Act Provisions
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- X. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion
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ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under title 23, United States Code, as required in 23 CFR 633.102(b) (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services). 23 CFR 633.102(e).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider. 23 CFR 633.102(e).

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services) in accordance with 23 CFR 633.102. The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in solicitation-for-bids or request-for-proposals documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract). 23 CFR 633.102(b).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work

performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract. 23 CFR 633.102(d).

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. 23 U.S.C. 114(b). The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors. 23 U.S.C. 101(a).

II. NONDISCRIMINATION (23 CFR 230.107(a); 23 CFR Part 230, Subpart A, Appendix A; EO 11246)

The provisions of this section related to 23 CFR Part 230, Subpart A, Appendix A are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR Part 60, 29 CFR Parts 1625-1627, 23 U.S.C. 140, Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d et seq.), and related regulations including 49 CFR Parts 21, 26, and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR Part 60, and 29 CFR Parts 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with 23 U.S.C. 140, Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), and Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d et seq.), and related regulations including 49 CFR Parts 21, 26, and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR Part 230, Subpart A, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

**1. Equal Employment Opportunity:** Equal Employment Opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (see 28 CFR Part 35, 29 CFR Part 1630, 29 CFR Parts 1625-1627, 41 CFR Part 60 and 49 CFR Part 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140, shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR Part 35 and 29 CFR Part 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract. 23 CFR 230.409 (g)(4) & (5).

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, sexual orientation, gender identity, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

**2. EEO Officer:** The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

**3. Dissemination of Policy:** All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action or are substantially involved in such action, will be made fully cognizant of and will implement the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer or other knowledgeable company official.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

**4. Recruitment:** When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

**5. Personnel Actions:** Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to ensure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action

within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

#### 6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs (i.e., apprenticeship and on-the-job training programs for the geographical area of contract performance). In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

**7. Unions:** If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. 23 CFR 230.409. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide

sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

**8. Reasonable Accommodation for Applicants / Employees with Disabilities:** The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established thereunder. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

**9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment:** The contractor shall not discriminate on the grounds of race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors, suppliers, and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

#### 10. Assurances Required:

a. The requirements of 49 CFR Part 26 and the State DOT's FHWA-approved Disadvantaged Business Enterprise (DBE) program are incorporated by reference.

b. The contractor, subrecipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate, which may include, but is not limited to:

- (1) Withholding monthly progress payments;
- (2) Assessing sanctions;
- (3) Liquidated damages; and/or
- (4) Disqualifying the contractor from future bidding as non-responsible.

c. The Title VI and nondiscrimination provisions of U.S. DOT Order 1050.2A at Appendixes A and E are incorporated by reference. 49 CFR Part 21.

**11. Records and Reports:** The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:



(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women.

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on [Form FHWA-1391](#). The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

### III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of more than \$10,000. 41 CFR 60-1.5.

As prescribed by 41 CFR 60-1.8, the contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, sexual orientation, gender identity, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location under the contractor's control where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

### IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size), in accordance with 29 CFR 5.5. The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. 23 U.S.C. 113. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. 23 U.S.C. 101. Where applicable law requires that projects be treated as a project on a Federal-aid highway, the provisions of this subpart will apply regardless of the location of the project. Examples include: Surface Transportation Block Grant Program projects funded under 23 U.S.C. 133 [excluding recreational trails projects], the Nationally Significant Freight and Highway

Projects funded under 23 U.S.C. 117, and National Highway Freight Program projects funded under 23 U.S.C. 167.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

#### 1. Minimum wages (29 CFR 5.5)

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b.(1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program. Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

## 2. Withholding (29 CFR 5.5)

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics,

including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

## 3. Payrolls and basic records (29 CFR 5.5)

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b.(1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency.

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or

subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under 29 CFR 5.5(a)(3)(ii), the appropriate information is being maintained under 29 CFR 5.5(a)(3)(i), and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under 18 U.S.C. 1001 and 31 U.S.C. 231.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

#### 4. Apprentices and trainees (29 CFR 5.5)

##### a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State

Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

##### b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the

corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. 23 CFR 230.111(e)(2). The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

**5. Compliance with Copeland Act requirements.** The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract as provided in 29 CFR 5.5.

**6. Subcontracts.** The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

**7. Contract termination: debarment.** A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

**8. Compliance with Davis-Bacon and Related Act requirements.** All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract as provided in 29 CFR 5.5.

**9. Disputes concerning labor standards.** As provided in 29 CFR 5.5, disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor

set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

**10. Certification of eligibility (29 CFR 5.5)**

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

**V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT**

Pursuant to 29 CFR 5.5(b), the following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

**1. Overtime requirements.** No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek. 29 CFR 5.5.

**2. Violation; liability for unpaid wages; liquidated damages.** In the event of any violation of the clause set forth in paragraph 1 of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph 1 of this section, in the sum currently provided in 29 CFR 5.5(b)(2)\* for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph 1 of this section. 29 CFR 5.5.

\* \$27 as of January 23, 2019 (See 84 FR 213-01, 218) as may be adjusted annually by the Department of Labor; pursuant to the Federal Civil Penalties Inflation Adjustment Act of 1990).

**3. Withholding for unpaid wages and liquidated damages.**

The FHWA or the contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph 2 of this section. 29 CFR 5.5.

**4. Subcontracts.** The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraphs 1 through 4 of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs 1 through 4 of this section. 29 CFR 5.5.

**VI. SUBLETTING OR ASSIGNING THE CONTRACT**

This provision is applicable to all Federal-aid construction contracts on the National Highway System pursuant to 23 CFR 635.116.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" in paragraph 1 of Section VI refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions: (based on longstanding interpretation)

- (1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
- (2) the prime contractor remains responsible for the quality of the work of the leased employees;
- (3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and
- (4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or

equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract. 23 CFR 635.102.

2. Pursuant to 23 CFR 635.116(a), the contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. Pursuant to 23 CFR 635.116(c), the contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract. (based on long-standing interpretation of 23 CFR 635.116).

5. The 30-percent self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements. 23 CFR 635.116(d).

**VII. SAFETY: ACCIDENT PREVENTION**

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR Part 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract. 23 CFR 635.108.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR Part 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704). 29 CFR 1926.10.

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance

with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

### **VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS**

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR Part 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 11, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

### **IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT (42 U.S.C. 7606; 2 CFR 200.88; EO 11738)**

This provision is applicable to all Federal-aid construction contracts in excess of \$150,000 and to all related subcontracts. 48 CFR 2.101; 2 CFR 200.326.

By submission of this bid/proposal or the execution of this contract or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, subcontractor, supplier, or vendor agrees to comply with all applicable standards, orders

or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal Highway Administration and the Regional Office of the Environmental Protection Agency. 2 CFR Part 200, Appendix II.

The contractor agrees to include or cause to be included the requirements of this Section in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements. 2 CFR 200.326.

### **X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION**

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200. 2 CFR 180.220 and 1200.220.

#### **1. Instructions for Certification – First Tier Participants:**

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction. 2 CFR 180.320.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default. 2 CFR 180.325.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances. 2 CFR 180.345 and 180.350.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180, Subpart I, 180.900-180.1020, and 1200. "First Tier Covered Transactions" refers to any covered transaction between a recipient or subrecipient of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant



who has entered into a covered transaction with a recipient or subrecipient of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction. 2 CFR 180.330.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold. 2 CFR 180.220 and 180.300.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. 2 CFR 180.300; 180.320, and 180.325. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. 2 CFR 180.335. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the System for Award Management website (<https://www.sam.gov/>). 2 CFR 180.300, 180.320, and 180.325.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default. 2 CFR 180.325.

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## **2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:**

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.335;.

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property, 2 CFR 180.800;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification, 2 CFR 180.700 and 180.800; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default. 2 CFR 180.335(d).

(5) Are not a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and

(6) Are not a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability (USDOT Order 4200.6 implementing appropriations act requirements).

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal. 2 CFR 180.335 and 180.340.

## **3. Instructions for Certification - Lower Tier Participants:**

(Applicable to all subcontracts, purchase orders, and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200). 2 CFR 180.220 and 1200.220.

a. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances. 2 CFR 180.365.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180, Subpart I, 180.900 – 180.1020, and 1200. You may contact the person to which this proposal is

submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a recipient or subrecipient of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a recipient or subrecipient of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated. 2 CFR 1200.220 and 1200.332.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold. 2 CFR 180.220 and 1200.220.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the System for Award Management website (<https://www.sam.gov/>), which is compiled by the General Services Administration. 2 CFR 180.300, 180.320, 180.330, and 180.335.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment. 2 CFR 180.325.

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**Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:**

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals:

(a) is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.355;

(b) is a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and

(c) is a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability. (USDOT Order 4200.6 implementing appropriations act requirements)

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal.

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**XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING**

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000. 49 CFR Part 20, App. A.

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier

subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

## **XII. USE OF UNITED STATES-FLAG VESSELS:**

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, or any other covered transaction. 46 CFR Part 381.

This requirement applies to material or equipment that is acquired for a specific Federal-aid highway project. 46 CFR 381.7. It is not applicable to goods or materials that come into inventories independent of an FHWA funded-contract.

When oceanic shipments (or shipments across the Great Lakes) are necessary for materials or equipment acquired for a specific Federal-aid construction project, the bidder, proposer, contractor, subcontractor, or vendor agrees:

1. To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels. 46 CFR 381.7.

2. To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (b)(1) of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Office of Cargo and Commercial Sealift (MAR-620), Maritime Administration, Washington, DC 20590. (MARAD requires copies of the ocean carrier's (master) bills of lading, certified onboard, dated, with rates and charges. These bills of lading may contain business sensitive information and therefore may be submitted directly to MARAD by the Ocean Transportation Intermediary on behalf of the contractor). 46 CFR 381.7.

**ATTACHMENT A - EMPLOYMENT AND MATERIALS  
PREFERENCE FOR APPALACHIAN DEVELOPMENT  
HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS  
ROAD CONTRACTS (23 CFR 633, Subpart B, Appendix B)**

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

**KENTUCKY TRANSPORTATION CABINET  
DEPARTMENT OF HIGHWAYS**

**EMPLOYMENT REQUIREMENTS  
RELATING TO  
NONDISCRIMINATION OF EMPLOYEES  
(APPLICABLE TO FEDERAL-AID SYSTEM CONTRACTS)**

**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 administering agency may direct as a means of enforcing such provisions, including sanctions for non-compliance.

Revised: January 25, 2017

### Standard Title VI/Non-Discrimination Assurances

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

1. **Compliance with Regulations:** The contractor (hereinafter includes consultants) will comply with the Acts and the Regulations relative to Non-discrimination in Federally-assisted programs of the U.S. Department of Transportation, **Federal Highway Administration**, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.
2. **Non-discrimination:** The contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor will not participate directly or indirectly in the discrimination prohibited by the Acts and the Regulations, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR Part 21.
3. **Solicitations for Subcontracts, Including Procurements of Materials and Equipment:** In all solicitations, either by competitive bidding, or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the contractor of the contractor's obligations under this contract and the Acts and the Regulations relative to Non-discrimination on the grounds of race, color, or national origin.
4. **Information and Reports:** The contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Recipient or the **Federal Highway Administration** to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the contractor will so certify to the Recipient or the **Federal Highway Administration**, as appropriate, and will set forth what efforts it has made to obtain the information.
5. **Sanctions for Noncompliance:** In the event of a contractor's noncompliance with the Non-discrimination provisions of this contract, the Recipient will impose such contract sanctions as it or the **Federal Highway Administration** may determine to be appropriate, including, but not limited to:
  - a. withholding payments to the contractor under the contract until the contractor complies; and/or
  - b. cancelling, terminating, or suspending a contract, in whole or in part.
6. **Incorporation of Provisions:** The contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The contractor will take action with respect to any subcontract or procurement as the Recipient or the **Federal Highway Administration** may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the contractor may request the Recipient to enter into any litigation to protect the interests of the Recipient. In addition, the contractor may request the United States to enter into the litigation to protect the interests of the United States.



### **Standard Title VI/Non-Discrimination Statutes and Authorities**

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the “contractor”) agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d *et seq.*, 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21;
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 *et seq.*), (prohibits discrimination on the basis of sex);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 *et seq.*), as amended, (prohibits discrimination on the basis of disability); and 49 CFR Part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 *et seq.*), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms “programs or activities” to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131 -- 12189) as implemented by Department of Transportation regulations at 49 C.F.R. parts 37 and 38;
- The Federal Aviation Administration’s Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures non-discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 *et seq.*).

## 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

"General Decision Number: KY20230038 07/21/2023

Superseded General Decision Number: KY20220038

State: Kentucky

Construction Type: Highway

Counties: Anderson, Bath, Bourbon, Boyd, Boyle, Bracken, Breckinridge, Bullitt, Carroll, Carter, Clark, Elliott, Fayette, Fleming, Franklin, Gallatin, Grant, Grayson, Greenup, Hardin, Harrison, Henry, Jefferson, Jessamine, Larue, Lewis, Madison, Marion, Mason, Meade, Mercer, Montgomery, Nelson, Nicholas, Oldham, Owen, Robertson, Rowan, Scott, Shelby, Spencer, Trimble, Washington and Woodford Counties in Kentucky.

HIGHWAY CONSTRUCTION PROJECTS (excluding tunnels, building structures in rest area projects & railroad construction; bascule, suspension & spandrel arch bridges designed for commercial navigation, bridges involving marine construction; and other major bridges).

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	<div><div>. Executive Order 14026 generally applies to the contract.</div><div>. The contractor must pay all covered workers at least \$16.20 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2023.</div></div>
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	<div><div>. Executive Order 13658 generally applies to the contract.</div><div>. The contractor must pay all covered workers at least \$12.15 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2023.</div></div>

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a

conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <http://www.dol.gov/whd/govcontracts>.

Modification Number	Publication Date
0	01/06/2023
1	02/10/2023
2	02/24/2023
3	06/09/2023
4	07/14/2023
5	07/21/2023

BRIN0004-003 06/01/2022

BRECKENRIDGE COUNTY

	Rates	Fringes
BRICKLAYER.....	\$ 33.00	19.46
-----		
BRKY0001-005 06/01/2022		

BULLITT, CARROLL, GRAYSON, HARDIN, HENRY, JEFFERSON, LARUE, MARION, MEADE, NELSON, OLDHAM, SHELBY, SPENCER, & TRIMBLE COUNTIES:

	Rates	Fringes
BRICKLAYER.....	\$ 31.87	16.39
-----		
BRKY0002-006 06/01/2022		

BRACKEN, GALLATIN, GRANT, MASON & ROBERTSON COUNTIES:

	Rates	Fringes
BRICKLAYER.....	\$ 31.87	16.39
-----		
BRKY0007-004 06/01/2022		

BOYD, CARTER, ELLIOT, FLEMING, GREENUP, LEWIS & ROWAN COUNTIES:

	Rates	Fringes
BRICKLAYER.....	\$ 32.94	20.28
-----		
BRKY0017-004 06/01/2022		

ANDERSON, BATH, BOURBON, BOYLE, CLARK, FAYETTE, FRANKLIN, HARRISON, JESSAMINE, MADISON, MERCER, MONTGOMERY, NICHOLAS, OWEN, SCOTT, WASHINGTON & WOODFORD COUNTIES:

	Rates	Fringes
BRICKLAYER.....	\$ 31.87	16.39
-----		
CARP0064-001 04/01/2023		

	Rates	Fringes
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CARPENTER.....	\$ 31.81	22.86
Diver.....	\$ 48.09	22.86
PILEDRIVERMAN.....	\$ 32.06	22.86
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ELEC0212-008 06/07/2022		

BRACKEN, GALLATIN and GRANT COUNTIES

	Rates	Fringes
ELECTRICIAN.....	\$ 33.29	20.05
-----		
ELEC0212-014 11/28/2022		

BRACKEN, GALLATIN & GRANT COUNTIES:

	Rates	Fringes
Sound & Communication Technician.....	\$ 26.70	13.41
-----		
ELEC0317-012 05/30/2022		

BOYD, CARTER, ELLIOT & ROWAN COUNTIES:

	Rates	Fringes
ELECTRICIAN (Wiremen).....	\$ 35.85	28.25
-----		
ELEC0369-007 06/01/2022		

ANDERSON, BATH, BOURBON, BOYLE, BRECKINRIDGE, BULLITT, CARROLL,  
CLARK, FAYETTE, FRAONKLIN, GRAYSON, HARDIN, HARRISON, HENRY,  
JEFFERSON, JESSAMINE, LARUE, MADISON, MARION, MEADE, MERCER,  
MONTGOMERY, NELSON, NICHOLAS, OLDHAM, OWEN, ROBERTSON, SCOTT,  
SHELBY, SPENCER, TRIMBLE, WASHINGTON, & WOODFORD COUNTIES:

	Rates	Fringes
ELECTRICIAN.....	\$ 34.60	19.57
-----		
ELEC0575-002 11/21/2022		

FLEMING, GREENUP, LEWIS & MASON COUNTIES:

	Rates	Fringes
ELECTRICIAN.....	\$ 36.00	21.14
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ENGI0181-018 07/01/2021		

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 1.....	\$ 34.80	17.85
GROUP 2.....	\$ 31.94	17.85
GROUP 3.....	\$ 32.39	17.85
GROUP 4.....	\$ 31.62	17.85

OPERATING ENGINEER CLASSIFICATIONS

GROUP 1 - A-Frame Winch Truck; Auto Patrol; Backfiller;  
Batcher Plant; Bituminous Paver; Bituminous Transfer  
Machine; Boom Cat; Bulldozer; Mechanic; Cableway; Carry-All

Scoop; Carry Deck Crane; Central Compressor Plant; Cherry Picker; Clamshell; Concrete Mixer (21 cu. ft. or Over); Concrete Paver; Truck-Mounted Concrete Pump; Core Drill; Crane; Crusher Plant; Derrick; Derrick Boat; Ditching & Trenching Machine; Dragline; Dredge Operator; Dredge Engineer; Elevating Grader & Loaders; Grade-All; Gurries; Heavy Equipment Robotics Operator/Mechanic; High Lift; Hoe-Type Machine; Hoist (Two or More Drums); Hoisting Engine (Two or More Drums); Horizontal Directional Drill Operator; Hydrocrane; Hyster; KeCal Loader; LeTourneau; Locomotive; Mechanic; Mechanically Operated Laser Screed; Mechanic Welder; Mucking Machine; Motor Scraper; Orangepeel Bucket; Overhead Crane; Piledriver; Power Blade; Pumpcrete; Push Dozer; Rock Spreader, attached to equipment; Rotary Drill; Roller (Bituminous); Rough Terrain Crane; Scarifier; Scoopmobile; Shovel; Side Boom; Subgrader; Tailboom; Telescoping Type Forklift; Tow or Push Boat; Tower Crane (French, German & other types); Tractor Shovel; Truck Crane; Tunnel Mining Machines, including Moles, Shields or similar types of Tunnel Mining Equipment

GROUP 2 - Air Compressor (Over 900 cu. ft. per min.); Bituminous Mixer; Boom Type Tamping Machine; Bull Float; Concrete Mixer (Under 21 cu. ft.); Dredge Engineer; Electric Vibrator; Compactor/Self-Propelled Compactor; Elevator (One Drum or Buck Hoist); Elevator (When used to Hoist Building Material); Finish Machine; Firemen & Hoist (One Drum); Flexplane; Forklift (Regardless of Lift Height); Form Grader; Joint Sealing Machine; Outboard Motor Boat; Power Sweeper (Riding Type); Roller (Rock); Ross Carrier; Skid Mounted or Trailer Mounted Concrete Pump; Skid Steer Machine with all Attachments; Switchman or Brakeman; Throttle Valve Person; Tractair & Road Widening Trencher; Tractor (50 H.P. or Over); Truck Crane Oiler; Tugger; Welding Machine; Well Points; & Whirley Oiler

GROUP 3 - All Off Road Material Handling Equipment, including Articulating Dump Trucks; Greaser on Grease Facilities servicing Heavy Equipment

GROUP 4 - Bituminous Distributor; Burlap & Curing Machine; Cement Gun; Concrete Saw; Conveyor; Deckhand Oiler; Grout Pump; Hydraulic Post Driver; Hydro Seeder; Mud Jack; Oiler; Paving Joint Machine; Power Form Handling Equipment; Pump; Roller (Earth); Steerman; Tamping Machine; Tractor (Under 50 H.P.); & Vibrator

CRANES - with booms 150 ft. & Over (Including JIB), and where the length of the boom in combination with the length of the piling leads equals or exceeds 150 ft. - \$1.00 over Group 1 rate

EMPLOYEES ASSIGNED TO WORK BELOW GROUND LEVEL ARE TO BE PAID 10%

ABOVE BASIC WAGE RATE. THIS DOES NOT APPLY TO OPEN CUT WORK.

IRON0044-009 06/01/2023

BRACKEN, GALLATIN, GRANT, HARRISON, ROBERTSON,  
BOURBON (Northern third, including Townships of Jackson, Millersburg, Ruddel Mills & Shawhan);  
CARROLL (Eastern third, including the Township of Ghent);  
FLEMING (Western part, excluding Townships of Beechburg, Colfax, Elizaville, Flemingsburg, Flemingsburg Junction, Foxport,



Grange City, Hillsboro, Hilltop, Mount Carmel, Muses Mills, Nepton, Pecksridge, Plummers Landing, Plummers Mill, Poplar Plains, Ringos Mills, Tilton & Wallingford);  
MASON (Western two-thirds, including Townships of Dover, Lewisburg, Mays Lick, Maysville, Minerva, Moranburg, Murphysville, Ripley, Sardis, Shannon, South Ripley & Washington);  
NICHOLAS (Townships of Barefoot, Barterville, Carlisle, Ellisville, Headquarters, Henryville, Morningglory, Myers & Oakland Mills);  
OWEN (Townships of Beechwood, Bromley, Fairbanks, Holbrook, Jonesville, Long Ridge, Lusby's Mill, New, New Columbus, New Liberty, Owenton, Poplar Grove, Rockdale, Sanders, Teresita & Wheatley);  
SCOTT (Northern two-thirds, including Townships of Biddle, Davis, Delaplain, Elmville, Longlick, Muddy Ford, Oxford, Rogers Gap, Sadieville, Skinnersburg & Stonewall)

	Rates	Fringes
IRONWORKER		
Fence Erector.....	\$ 30.75	22.70
Structural.....	\$ 32.37	22.70

IRON0070-006 06/01/2023

ANDERSON, BOYLE, BRECKINRIDGE, BULLITT, FAYETTE, FRANKLIN, GRAYSON, HARDIN, HENRY, JEFFERSON, JESSAMINE, LARUE, MADISON, MARION, MEADE, MERCER, NELSON, OLDHAM, SHELBY, SPENCER, TRIMBLE, WASHINGTON & WOODFORD  
BOURBON (Southern two-thirds, including Townships of Austerlity, Centerville, Clintonville, Elizabeth, Hutchison, Littlerock, North Middletown & Paris);  
CARROLL (Western two-thirds, including Townships of Carrollton, Easterday, English, Locust, Louis, Prestonville & Worthville);  
CLARK (Western two-thirds, including Townships of Becknerville, Flanagan, Ford, Pine Grove, Winchester & Wyandotte);  
OWEN (Eastern eighth, including Townships of Glenmary, Gratz, Monterey, Perry Park & Tacketts Mill);  
SCOTT (Southern third, including Townships of Georgetown, Great Crossing, Newtown, Stampling Ground & Woodlake);

	Rates	Fringes
IRONWORKER.....	\$ 32.59	24.50

IRON0769-007 06/01/2023

BATH, BOYD, CARTER, ELLIOTT, GREENUP, LEWIS, MONTGOMERY & ROWAN  
CLARK (Eastern third, including townships of Bloomingdale, Hunt, Indian Fields, Kiddville, Loglick, Rightangele & Thomson);  
FLEMING (Townships of Beechburg, Colfax, Elizaville, Flemingsburg, Flemingsburg Junction, Foxport, Grange City, Hillsboro, Hilltop, Mount Carmel, Muses Mills, Nepton, Pecksridge, Plummers Landing, Plummers Mill, Poplar Plains, Ringos Mills, Tilton & Wallingford);  
MASON (Eastern third, including Townships of Helena, Marshall, Orangeburg, Plumville & Springdale);  
NICHOLAS (Eastern eighth, including the Township of Moorefield Sprout)

IRONWORKER		
ZONE 1.....	\$ 36.16	28.34
ZONE 2.....	\$ 36.56	28.34
ZONE 3.....	\$ 38.16	28.34

ZONE 1 - (no base rate increase) Up to 10 mile radius of Union Hall, 1643 Greenup Ave, Ashland, KY.

ZONE 2 - (add \$0.40 per hour to base rate) 10 to 50 mile radius of Union Hall, 1643 Greenup Ave, Ashland, KY.

ZONE 3 - (add \$2.00 per hour to base rate) 50 mile radius & over of Union Hall, 1643 Greenup Ave, Ashland, KY.

LABO0189-003 07/01/2022

BATH, BOURBON, BOYD, BOYLE, BRACKEN, CARTER, CLARK, ELLIOTT, FAYETTE, FLEMING, FRANKLIN, GALLATIN, GRANT, GREENUP, HARRISON, JESSAMINE, LEWIS, MADISON, MASON, MERCER, MONTGOMERY, NICHOLAS, OWEN, ROBERTSON, ROWAN, SCOTT, & WOOLFORD COUNTIES

	Rates	Fringes
Laborers:		
GROUP 1.....	\$ 23.76	17.12
GROUP 2.....	\$ 24.01	17.12
GROUP 3.....	\$ 24.06	17.12
GROUP 4.....	\$ 24.66	17.12

LABORERS CLASSIFICATIONS

GROUP 1 - Aging & Curing of Concrete; Asbestos Abatement Worker; Asphalt Plant; Asphalt; Batch Truck Dump; Carpenter Tender; Cement Mason Tender; Cleaning of Machines; Concrete; Demolition; Dredging; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level D; Flagperson; Grade Checker; Hand Digging & Hand Back Filling; Highway Marker Placer; Landscaping, Mesh Handler & Placer; Puddler; Railroad; Rip-rap & Grouter; Right-of-Way; Sign, Guard Rail & Fence Installer; Signal Person; Sound Barrier Installer; Storm & Sanitary Sewer; Swamper; Truck Spotter & Dumper; Wrecking of Concrete Forms; General Cleanup

GROUP 2 - Batter Board Man (Sanitary & Storm Sewer); Brickmason Tender; Mortar Mixer Operator; Scaffold Builder; Burner & Welder; Bushhammer; Chain Saw Operator; Concrete Saw Operator; Deckhand Scow Man; Dry Cement Handler; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level C; Forklift Operator for Masonary; Form Setter; Green Concrete Cutting; Hand Operated Grouter & Grinder Machine Operator; Jackhammer; Pavement Breaker; Paving Joint Machine; Pipelayer; Plastic Pipe Fusion; Power Driven Georgia Buggy & Wheel Barrow; Power Post Hole Digger; Precast Manhole Setter; Walk-Behind Tamper; Walk-Behind Trencher; Sand Blaster; Concrete Chipper; Surface Grinder; Vibrator Operator; Wagon Driller

GROUP 3 - Asphalt Luteman & Raker; Gunnite Nozzleman; Gunnite Operator & Mixer; Grout Pump Operator; Side Rail Setter; Rail Paved Ditches; Screw Operator; Tunnel (Free Air); Water Blaster

GROUP 4 - Caisson Worker (Free Air); Cement Finisher;  
Environmental - Nuclear, Radiation, Toxic & Hazardous Waste  
- Levels A & B; Miner & Driller (Free Air); Tunnel Blaster;  
& Tunnel Mucker (Free Air); Directional & Horizontal  
Boring; Air Track Drillers (All Types); Powdermen &  
Blasters; Troxler & Concrete Tester if Laborer is Utilized

LAB00189-008 07/01/2022

ANDERSON, BULLITT, CARROLL, HARDIN, HENRY, JEFFERSON, LARUE,  
MARION, MEADE, NELSON, OLDHAM, SHELBY, SPENCER, TRIMBLE &  
WASHINGTON COUNTIES

	Rates	Fringes
Laborers:		
GROUP 1.....	\$ 23.76	17.12
GROUP 2.....	\$ 24.01	17.12
GROUP 3.....	\$ 24.06	17.12
GROUP 4.....	\$ 24.66	17.12

LABORERS CLASSIFICATIONS

GROUP 1 - Aging & Curing of Concrete; Asbestos Abatement  
Worker; Asphalt Plant; Asphalt; Batch Truck Dump; Carpenter  
Tender; Cement Mason Tender; Cleaning of Machines;  
Concrete; Demolition; Dredging; Environmental - Nuclear,  
Radiation, Toxic & Hazardous Waste - Level D; Flagperson;  
Grade Checker; Hand Digging & Hand Back Filling; Highway  
Marker Placer; Landscaping, Mesh Handler & Placer; Puddler;  
Railroad; Rip-rap & Grouter; Right-of-Way; Sign, Guard Rail  
& Fence Installer; Signal Person; Sound Barrier Installer;  
Storm & Sanitary Sewer; Swamper; Truck Spotter & Dumper;  
Wrecking of Concrete Forms; General Cleanup

GROUP 2 - Batter Board Man (Sanitary & Storm Sewer);  
Brickmason Tender; Mortar Mixer Operator; Scaffold Builder;  
Burner & Welder; Bushhammer; Chain Saw Operator; Concrete  
Saw Operator; Deckhand Scow Man; Dry Cement Handler;  
Environmental - Nuclear, Radiation, Toxic & Hazardous Waste  
- Level C; Forklift Operator for Masonary; Form Setter;  
Green Concrete Cutting; Hand Operated Grouter & Grinder  
Machine Operator; Jackhammer; Pavement Breaker; Paving  
Joint Machine; Pipelayer; Plastic Pipe Fusion; Power Driven  
Georgia Buggy & Wheel Barrow; Power Post Hole Digger;  
Precast Manhole Setter; Walk-Behind Tamper; Walk-Behind  
Trencher; Sand Blaster; Concrete Chipper; Surface Grinder;  
Vibrator Operator; Wagon Driller

GROUP 3 - Asphalt Luteman & Raker; Gunnite Nozzleman;  
Gunnite Operator & Mixer; Grout Pump Operator; Side Rail  
Setter; Rail Paved Ditches; Screw Operator; Tunnel (Free  
Air); Water Blaster

GROUP 4 - Caisson Worker (Free Air); Cement Finisher;  
Environmental - Nuclear, Radiation, Toxic & Hazardous Waste  
- Levels A & B; Miner & Driller (Free Air); Tunnel Blaster;  
& Tunnel Mucker (Free Air); Directional & Horizontal  
Boring; Air Track Drillers (All Types); Powdermen &  
Blasters; Troxler & Concrete Tester if Laborer is Utilized

LAB00189-009 07/01/2022

BRECKINRIDGE & GRAYSON COUNTIES

	Rates	Fringes
Laborers:		
GROUP 1.....	\$ 23.76	17.12
GROUP 2.....	\$ 24.01	17.12
GROUP 3.....	\$ 24.06	17.12
GROUP 4.....	\$ 24.66	17.12

LABORERS CLASSIFICATIONS

- GROUP 1 - Aging & Curing of Concrete; Asbestos Abatement Worker; Asphalt Plant; Asphalt; Batch Truck Dump; Carpenter Tender; Cement Mason Tender; Cleaning of Machines; Concrete; Demolition; Dredging; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level D; Flagperson; Grade Checker; Hand Digging & Hand Back Filling; Highway Marker Placer; Landscaping, Mesh Handler & Placer; Puddler; Railroad; Rip-rap & Grouter; Right-of-Way; Sign, Guard Rail & Fence Installer; Signal Person; Sound Barrier Installer; Storm & Sanitary Sewer; Swamper; Truck Spotter & Dumper; Wrecking of Concrete Forms; General Cleanup
- GROUP 2 - Batter Board Man (Sanitary & Storm Sewer); Brickmason Tender; Mortar Mixer Operator; Scaffold Builder; Burner & Welder; Bushhammer; Chain Saw Operator; Concrete Saw Operator; Deckhand Scow Man; Dry Cement Handler; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level C; Forklift Operator for Masonary; Form Setter; Green Concrete Cutting; Hand Operated Grouter & Grinder Machine Operator; Jackhammer; Pavement Breaker; Paving Joint Machine; Pipelayer; Plastic Pipe Fusion; Power Driven Georgia Buggy & Wheel Barrow; Power Post Hole Digger; Precast Manhole Setter; Walk-Behind Tamper; Walk-Behind Trencher; Sand Blaster; Concrete Chipper; Surface Grinder; Vibrator Operator; Wagon Driller
- GROUP 3 - Asphalt Luteman & Raker; Gunnite Nozzleman; Gunnite Operator & Mixer; Grout Pump Operator; Side Rail Setter; Rail Paved Ditches; Screw Operator; Tunnel (Free Air); Water Blaster
- GROUP 4 - Caisson Worker (Free Air); Cement Finisher; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Levels A & B; Miner & Driller (Free Air); Tunnel Blaster; & Tunnel Mucker (Free Air); Directional & Horizontal Boring; Air Track Drillers (All Types); Powdermen & Blasters; Troxler & Concrete Tester if Laborer is Utilized

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PAIN0012-005 06/11/2005

BATH, BOURBON, BOYLE, CLARK, FAYETTE, FLEMING, FRANKLIN, HARRISON, JESSAMINE, MADISON, MERCER, MONTGOMERY, NICHOLAS, ROBERTSON, SCOTT & WOODFORD COUNTIES:

	Rates	Fringes
PAINTER		
Bridge/Equipment Tender and/or Containment Builder..	\$ 18.90	5.90
Brush & Roller.....	\$ 21.30	5.90

Elevated Tanks; Steeplejack Work; Bridge & Lead Abatement.....	\$ 22.30	5.90
Sandblasting & Waterblasting.....	\$ 22.05	5.90
Spray.....	\$ 21.80	5.90

PAIN0012-017 05/01/2015

BRACKEN, GALLATIN, GRANT, MASON & OWEN COUNTIES:

	Rates	Fringes
PAINTER (Heavy & Highway Bridges - Guardrails - Lightpoles - Striping) Bridge Equipment Tender and Containment Builder.....	\$ 20.73	9.06
Brush & Roller.....	\$ 23.39	9.06
Elevated Tanks; Steeplejack Work; Bridge & Lead Abatement.....	\$ 24.39	9.06
Sandblasting & Water Blasting.....	\$ 24.14	9.06
Spray.....	\$ 23.89	9.06

PAIN0118-004 06/01/2018

ANDERSON, BRECKINRIDGE, BULLITT, CARROLL, GRAYSON, HARDIN,  
HENRY, JEFFERSON, LARUE, MARION, MEADE, NELSON, OLDHAM, SHELBY,  
SPENCER, TRIMBLE & WASHINGTON COUNTIES:

	Rates	Fringes
PAINTER Brush & Roller.....	\$ 22.00	12.52
Spray, Sandblast, Power Tools, Waterblast & Steam Cleaning.....	\$ 23.00	12.52

PAIN1072-003 12/01/2022

BOYD, CARTER, ELLIOTT, GREENUP, LEWIS and ROWAN COUNTIES

	Rates	Fringes
Painters: Bridges; Locks; Dams; Tension Towers & Energized Substations.....	\$ 35.06	23.35
Power Generating Facilities..	\$ 31.82	23.35

PLUM0248-003 06/01/2023

BOYD, CARTER, ELLIOTT, GREENUP, LEWIS & ROWAN COUNTIES:

	Rates	Fringes
Plumber and Steamfitter.....	\$ 41.00	22.95

PLUM0392-007 06/01/2023

BRACKEN, CARROLL (Eastern Half), GALLATIN, GRANT, MASON, OWEN &  
ROBERTSON COUNTIES:

	Rates	Fringes
Plumbers and Pipefitters.....	\$ 38.62	25.73
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PLUM0502-003 08/01/2021		

BRECKINRIDGE, BULLITT, CARROLL (Western Half), FRANKLIN  
(Western three-fourths), GRAYSON, HARDIN, HENRY, JEFFERSON,  
LARUE, MARION, MEADE, NELSON, OLDHAM, SHELBY, SPENCER, TRIMBLE &  
WASHINGTON COUNTIES

	Rates	Fringes
PLUMBER.....	\$ 38.07	20.78
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SUKY2010-160 10/08/2001		

	Rates	Fringes
Truck drivers:		
GROUP 1.....	\$ 16.57	7.34
GROUP 2.....	\$ 16.68	7.34
GROUP 3.....	\$ 16.86	7.34
GROUP 4.....	\$ 16.96	7.34

TRUCK DRIVER CLASSIFICATIONS

- GROUP 1 - Mobile Batch Truck Tender
- GROUP 2 - Greaser; Tire Changer; & Mechanic Tender
- GROUP 3 - Single Axle Dump; Flatbed; Semi-trailer or Pole Trailer when used to pull building materials and equipment; Tandem Axle Dump; Distributor; Mixer; & Truck Mechanic
- GROUP 4 - Euclid & Other Heavy Earthmoving Equipment & Lowboy; Articulator Cat; 5-Axle Vehicle; Winch & A-Frame when used in transporting materials; Ross Carrier; Forklift when used to transport building materials; & Pavement Breaker

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WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic



violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

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The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

#### Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

#### Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

#### Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

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WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations  
Wage and Hour Division  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISIO"

Fringe benefit amounts are applicable for all hours worked except when otherwise noted.

No laborer, workman or mechanic shall be paid at a rate less than that of a Journeyman except those classified as bona fide apprentices.

Apprentices or trainees shall be permitted to work as such subject to Administrative Regulations adopted by the Commissioner of Workplace Standards. Copies of these regulations will be furnished upon request from any interested person.

Before using apprentices on the job the contractor shall present to the Contracting Officer written evidence of registration of such employees in a program of a State apprenticeship and training agency approved and recognized by the U. S. Bureau of Apprenticeship and Training. In the absence of such a State agency, the contractor shall submit evidence of approval and registration by the U. S. Bureau of Apprenticeship and Training.

The contractor shall submit to the Contracting Officer, written evidence of the established apprenticeship-journeyman ratios and wage rates in the project area, which will be the basis for establishing such ratios and rates for the project under the applicable contract provisions.

**TO: EMPLOYERS/EMPLOYEES**

**PREVAILING WAGE SCHEDULE:**

**The wages indicated on this wage schedule are the least permitted to be paid for the occupations indicated. When an employee works in more than one classification, the employer must record the number of hours worked in each classification at the prescribed hourly base rate.**

**OVERTIME:**

**Overtime is to be paid to an employee at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty (40) hours in such workweek. Wage violations or questions should be directed to the designated Engineer or the undersigned.**

Director  
Division of Construction Procurement  
Frankfort, Kentucky 40622  
502-564-3500

**NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION  
TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY  
(Executive Order 11246)**

1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Specifications" set forth herein.
2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate work force in each trade on all construction work in the covered area, are as follows:

GOALS FOR MINORITY PARTICIPATION IN EACH TRADE	GOALS FOR FEMALE PARTICIPATION IN EACH TRADE
10.8%	6.9%

These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally-assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and non-federally involved construction.

The Contractor's compliance with the Executive Order and the regulations in CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4, 3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Notification of Construction Contract Award Portal (NCAP) is OFCCP’s preferred method for receiving construction contract award notifications. The NCAP can be found on OFCCP’s website at <https://www.dol.gov/agencies/ofccp/ncap>. Users who prefer not to use the portal maintain the option to send their notifications via mail, email and facsimile to the OFCCP Regional office in which the work will be performed. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within ten (10) working days of award of any construction subcontract in excess of \$10,000.00 at any tier for construction work under the contract resulting from this solicitation. The notification must include: Prime Contract Number (issued by the federal agency or applicant); Name of Awarding Federal Agency, Applicant or Contractor; Contracting Officer, Applicant Representative or Contractor Representative Submitting Notification with name, phone number, email address; Contractor Awarded Contract or Subcontract with name, address, phone number, email address, EIN, dollar amount of the contract, estimated start date of the contract, estimated completion date of the contract, geographical area in which the contract is to be performed (state, county’s city (if applicable)).
- The notification shall be mailed to:

**Regional Director  
Office of Federal Contract Compliance Programs  
61 Forsyth Street, SW, Suite 7B75  
Atlanta, Georgia 30303-8931  
Main Number: 404-893-4545 Fax: 404-893-4546  
Regional Director Contact: [OFCCP-SE@dol.gov](mailto:OFCCP-SE@dol.gov)  
Construction Award Email: [OFCCP-SE-ConstructionAward@dol.gov](mailto:OFCCP-SE-ConstructionAward@dol.gov)**

4. As used in this Notice, and in the contract resulting from this solicitation, the "covered area" is Fayette County.
- (Revised: 1/1/2023)

**NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION  
TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY  
(Executive Order 11246)**

1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Specifications" set forth herein.
2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate work force in each trade on all construction work in the covered area, are as follows:

GOALS FOR MINORITY PARTICIPATION IN EACH TRADE	GOALS FOR FEMALE PARTICIPATION IN EACH TRADE
10.8%	6.9%

These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally-assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and non-federally involved construction.

The Contractor's compliance with the Executive Order and the regulations in CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4, 3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Notification of Construction Contract Award Portal (NCAP) is OFCCP’s preferred method for receiving construction contract award notifications. The NCAP can be found on OFCCP’s website at <https://www.dol.gov/agencies/ofccp/ncap>. Users who prefer not to use the portal maintain the option to send their notifications via mail, email and facsimile to the OFCCP Regional office in which the work will be performed. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within ten (10) working days of award of any construction subcontract in excess of \$10,000.00 at any tier for construction work under the contract resulting from this solicitation. The notification must include: Prime Contract Number (issued by the federal agency or applicant); Name of Awarding Federal Agency, Applicant or Contractor; Contracting Officer, Applicant Representative or Contractor Representative Submitting Notification with name, phone number, email address; Contractor Awarded Contract or Subcontract with name, address, phone number, email address, EIN, dollar amount of the contract, estimated start date of the contract, estimated completion date of the contract, geographical area in which the contract is to be performed (state, county’s city (if applicable)).
- The notification shall be mailed to:

**Regional Director  
Office of Federal Contract Compliance Programs  
61 Forsyth Street, SW, Suite 7B75  
Atlanta, Georgia 30303-8931  
Main Number: 404-893-4545 Fax: 404-893-4546  
Regional Director Contact: [OFCCP-SE@dol.gov](mailto:OFCCP-SE@dol.gov)  
Construction Award Email: [OFCCP-SE-ConstructionAward@dol.gov](mailto:OFCCP-SE-ConstructionAward@dol.gov)**

4. As used in this Notice, and in the contract resulting from this solicitation, the "**covered area**" is Jessamine County.
- (Revised: 1/1/2023)



## **PART IV**

## **INSURANCE**

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

**PART V**

**BID ITEMS**

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00001		DGA BASE	86.00	TON		\$	
0020	00003		CRUSHED STONE BASE	3.00	TON		\$	
0030	00071		CRUSHED AGGREGATE SIZE NO 57	168.00	TON		\$	
0040	00078		CRUSHED AGGREGATE SIZE NO 2	1.00	TON		\$	
0050	00100		ASPHALT SEAL AGGREGATE	1.80	TON		\$	
0060	00103		ASPHALT SEAL COAT	.40	TON		\$	
0070	00190		LEVELING & WEDGING PG64-22	4.00	TON		\$	
0080	00212		CL2 ASPH BASE 1.00D PG64-22	377.00	TON		\$	
0090	00214		CL3 ASPH BASE 1.00D PG64-22	532.00	TON		\$	
0100	00216		CL3 ASPH BASE 1.00D PG76-22	350.00	TON		\$	
0110	00307		CL2 ASPH SURF 0.38B PG64-22	481.00	TON		\$	
0120	00336		CL3 ASPH SURF 0.38A PG76-22	160.00	TON		\$	
0130	00388		CL3 ASPH SURF 0.38B PG64-22	157.10	TON		\$	
0140	01812		REMOVE CURB AND GUTTER	362.00	LF		\$	
0150	02101		CEM CONC ENT PAVEMENT-8 IN	72.00	SQYD		\$	
0160	02676		MOBILIZATION FOR MILL & TEXT (7-9012.70)	1.00	LS		\$	
0170	02676		MOBILIZATION FOR MILL & TEXT (FAYETTE CS 4009 @ TRAILWOOD LN)	1.00	LS		\$	
0180	02676		MOBILIZATION FOR MILL & TEXT (FAYETTE US 27 @ W LOUDON AVE)	1.00	LS		\$	
0190	02676		MOBILIZATION FOR MILL & TEXT (FAYETTE US 68 @ FT HARRODS DR)	1.00	LS		\$	
0200	02676		MOBILIZATION FOR MILL & TEXT (FAYETTE US 68 @ RED MILE ROAD)	1.00	LS		\$	
0210	02676		MOBILIZATION FOR MILL & TEXT (JESSAMINE US 27 @ EDGEWOOD DR)	1.00	LS		\$	
0220	02677		ASPHALT PAVE MILLING & TEXTURING	825.00	TON		\$	
0230	02719		SIDEWALK-4 1/2 INCH CONCRETE	67.00	SQYD		\$	
0240	02721		REMOVE CONCRETE SIDEWALK	91.00	SQYD		\$	
0250	20550ND		SAWCUT PAVEMENT	753.00	LF		\$	
0260	22906ES403		CL3 ASPH SURF 0.38A PG64-22	121.00	TON		\$	
0270	24576EN		LFUCG CURB AND GUTTER TYPE I (MOD)	362.00	LF		\$	
0280	24785EC		FIBER REINFORCEMENT FOR HMA	435.00	TON		\$	
0290	24970EC		ASPHALT MATERIAL FOR TACK NON- TRACKING	7.17	TON		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0300	00001		DGA BASE	645.00	TON		\$	
0310	00078		CRUSHED AGGREGATE SIZE NO 2	230.00	TON		\$	
0320	01000		PERFORATED PIPE-4 IN	1,110.00	LF		\$	
0330	01010		NON-PERFORATED PIPE-4 IN	35.00	LF		\$	
0340	01020		PERF PIPE HEADWALL TY 1-4 IN	3.00	EACH		\$	
0350	01810		STANDARD CURB AND GUTTER	236.00	LF		\$	
0360	01811		STANDARD CURB AND GUTTER MOD	265.00	LF		\$	

Report Date 7/26/23

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0370	01811		STANDARD CURB AND GUTTER MOD LFUCG CURB AND GUTTER TYPE 1	261.00	LF		\$	
0380	01812		REMOVE CURB AND GUTTER	542.00	LF		\$	
0390	01825		ISLAND CURB AND GUTTER	150.00	LF		\$	
0400	01875		STANDARD HEADER CURB	30.00	LF		\$	
0410	01917		STANDARD BARRIER MEDIAN TYPE 2	37.00	SQYD		\$	
0420	01921		STANDARD BARRIER MEDIAN TYPE 4	124.00	SQYD		\$	
0430	02159		TEMP DITCH	1,275.00	LF		\$	
0440	02160		CLEAN TEMP DITCH	638.00	LF		\$	
0450	02200		ROADWAY EXCAVATION	1,231.00	CUYD		\$	
0460	02562		TEMPORARY SIGNS	870.00	SQFT		\$	
0470	02602		FABRIC-GEOTEXTILE CLASS 1	710.00	SQYD		\$	
0480	02603		FABRIC-GEOTEXTILE CLASS 2	312.00	SQYD		\$	
0490	02604		FABRIC-GEOTEXTILE CLASS 1A	571.00	SQYD		\$	
0500	02607		FABRIC-GEOTEXTILE CLASS 2 FOR PIPE	180.00	SQYD	\$2.00	\$	\$360.00
0510	02650		MAINTAIN & CONTROL TRAFFIC (7-9012.70)	1.00	LS		\$	
0520	02650		MAINTAIN & CONTROL TRAFFIC (FAYETTE CS 4009 @ TRAILWOOD LN)	1.00	LS		\$	
0530	02650		MAINTAIN & CONTROL TRAFFIC (FAYETTE KY 4 @ RUSSELL CAVE RD)	1.00	LS		\$	
0540	02650		MAINTAIN & CONTROL TRAFFIC (FAYETTE MAN O' WAR BLVD @ PARKERS MILL RD)	1.00	LS		\$	
0550	02650		MAINTAIN & CONTROL TRAFFIC (FAYETTE US 25 @ CITATION BLVD)	1.00	LS		\$	
0560	02650		MAINTAIN & CONTROL TRAFFIC (FAYETTE US 27 @ W LOUDON AVE)	1.00	LS		\$	
0570	02650		MAINTAIN & CONTROL TRAFFIC (FAYETTE US 68 @ FT HARRODS DR)	1.00	LS		\$	
0580	02650		MAINTAIN & CONTROL TRAFFIC (FAYETTE US 68 @ RED MILE ROAD)	1.00	LS		\$	
0590	02650		MAINTAIN & CONTROL TRAFFIC (JESSAMINE US 27 @ EDGEWOOD DR)	1.00	LS		\$	
0600	02671		PORTABLE CHANGEABLE MESSAGE SIGN	16.00	EACH		\$	
0610	02696		SHOULDER RUMBLE STRIPS	225.00	LF		\$	
0620	02701		TEMP SILT FENCE	1,520.00	LF		\$	
0630	02703		SILT TRAP TYPE A	3.00	EACH		\$	
0640	02704		SILT TRAP TYPE B	9.00	EACH		\$	
0650	02705		SILT TRAP TYPE C	22.00	EACH		\$	
0660	02706		CLEAN SILT TRAP TYPE A	3.00	EACH		\$	
0670	02707		CLEAN SILT TRAP TYPE B	9.00	EACH		\$	
0680	02708		CLEAN SILT TRAP TYPE C	22.00	EACH		\$	
0690	02720		SIDEWALK-4 IN CONCRETE	452.00	SQYD		\$	
0700	02721		REMOVE CONCRETE SIDEWALK	180.00	SQYD		\$	
0710	02726		STAKING (7-9012.70)	1.00	LS		\$	
0720	02726		STAKING (FAYETTE CS 4009 @ TRAILWOOD LN)	1.00	LS		\$	
0730	02726		STAKING (FAYETTE KY 4 @ RUSSELL CAVE RD)	1.00	LS		\$	
0740	02726		STAKING (FAYETTE MAN O' WAR BLVD @ PARKERS MILL RD)	1.00	LS		\$	

Report Date 7/26/23

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0750	02726		STAKING (FAYETTE US 25 @ CITATION BLVD)	1.00	LS		\$	
0760	02726		STAKING (FAYETTE US 27 @ W LOUDON AVE)	1.00	LS		\$	
0770	02726		STAKING (FAYETTE US 68 @ FT HARRODS DR)	1.00	LS		\$	
0780	02726		STAKING (FAYETTE US 68 @ RED MILE ROAD)	1.00	LS		\$	
0790	02726		STAKING (JESSAMINE US 27 @ EDGEWOOD DR)	1.00	LS		\$	
0800	02775		ARROW PANEL	3.00	EACH		\$	
0810	03225		TUBULAR MARKERS (PEXCO CITY POST EMBEDDED ANCHOR CUP)	15.00	EACH		\$	
0820	05950		EROSION CONTROL BLANKET	1,806.00	SQYD		\$	
0830	05952		TEMP MULCH	3,525.00	SQYD		\$	
0840	05953		TEMP SEEDING AND PROTECTION	2,703.00	SQYD		\$	
0850	05963		INITIAL FERTILIZER	.28	TON		\$	
0860	05964		MAINTENANCE FERTILIZER	.31	TON		\$	
0870	05985		SEEDING AND PROTECTION	4,586.00	SQYD		\$	
0880	05990		SODDING	736.00	SQYD		\$	
0890	05992		AGRICULTURAL LIMESTONE	2.07	TON		\$	
0900	06406		SBM ALUM SHEET SIGNS .080 IN	75.50	SQFT		\$	
0910	06407		SBM ALUM SHEET SIGNS .125 IN	10.00	SQFT		\$	
0920	06410		STEEL POST TYPE 1	149.00	LF		\$	
0930	06510		PAVE STRIPING-TEMP PAINT-4 IN	10,700.00	LF		\$	
0940	06514		PAVE STRIPING-PERM PAINT-4 IN	550.00	LF		\$	
0950	06540		PAVE STRIPING-THERMO-4 IN W	1,862.00	LF		\$	
0960	06541		PAVE STRIPING-THERMO-4 IN Y	3,058.00	LF		\$	
0970	06542		PAVE STRIPING-THERMO-6 IN W	3,345.25	LF		\$	
0980	06543		PAVE STRIPING-THERMO-6 IN Y	4,045.00	LF		\$	
0990	06547		PAVE STRIPING-THERMO-12 IN Y	16.00	LF		\$	
1000	06566		PAVE MARKING-THERMO X-WALK-12 IN	623.00	LF		\$	
1010	06568		PAVE MARKING-THERMO STOP BAR-24IN	566.00	LF		\$	
1020	06569		PAVE MARKING-THERMO CROSS-HATCH	695.00	SQFT		\$	
1030	06574		PAVE MARKING-THERMO CURV ARROW	40.00	EACH		\$	
1040	06575		PAVE MARKING-THERMO COMB ARROW	10.00	EACH		\$	
1050	06598		PAVEMENT MARKING REMOVAL	720.00	SQFT		\$	
1060	20550ND		SAWCUT PAVEMENT	1,524.00	LF		\$	
1070	21289ED		LONGITUDINAL EDGE KEY	821.00	LF		\$	
1080	21373ND		REMOVE SIGN	2.00	EACH		\$	
1090	21417ES717		PAVE MARK THERMO CONE CAP-SOLID YELLOW	147.00	SQFT		\$	
1100	21596ND		GMSS TYPE D SURFACE MOUNT	2.00	EACH		\$	
1110	21597EN		REMOVE PERF PIPE HEADWALL	1.00	EACH		\$	
1120	22400NN		REMOVE AND RELOCATE SIGN ASSEMBLY	1.00	EACH		\$	
1130	22664EN		WATER BLASTING EXISTING STRIPE	449.00	LF		\$	
1140	22680EN		QWICK CURB MEDIAN SEPARATOR	103.00	LF		\$	
1150	23055N		REMOVE BRICK MAILBOX (7-9006.30)	1.00	LS		\$	
1160	23158ES505		DETECTABLE WARNINGS	195.00	SQFT		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1170	23261EC		PAVE MARK-THERMO-X-WALK-24 IN	228.00	LF		\$	
1180	23608EC		YELLOW PAINT FOR MEDIAN SAFETY NOSE	6.00	SQFT		\$	
1190	23875NC		REMOVE THERMOPLASTIC ARROWS	2.00	EACH		\$	
1200	24189ER		DURABLE WATERBORNE MARKING-6 IN W	1,908.00	LF		\$	
1210	24190ER		DURABLE WATERBORNE MARKING-6 IN Y	1,422.00	LF		\$	
1220	24489EC		INLAID PAVEMENT MARKER	71.00	EACH		\$	
1230	24631EC		BARCODE SIGN INVENTORY	7.00	EACH		\$	
1240	24679ED		PAVE MARK THERMO CHEVRON	1,100.00	SQFT		\$	
1250	24683ED		PAVE MARKING-THERMO DOTTED LANE EXTEN	58.00	LF		\$	
1260	24683ED		PAVE MARKING-THERMO DOTTED LANE EXTEN (6 INCH WIDTH)	71.00	LF		\$	

Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1270	00439		ENTRANCE PIPE-12 IN	58.00	LF		\$	
1280	00462		CULVERT PIPE-18 IN	128.00	LF		\$	
1290	00522		STORM SEWER PIPE-18 IN	28.00	LF		\$	
1300	00524		STORM SEWER PIPE-24 IN	111.00	LF		\$	
1310	01310		REMOVE PIPE	71.00	LF		\$	
1320	01511		DROP BOX INLET TYPE 5D	1.00	EACH		\$	
1330	01514		DROP BOX INLET TYPE 5E	1.00	EACH		\$	
1340	01550		DROP BOX INLET TYPE 12A	35.00	LF		\$	
1350	01571		DROP BOX INLET TYPE 13ST (TOP PHASE)	1.00	EACH		\$	
1360	01584		CAP DROP BOX INLET	3.00	EACH		\$	
1370	01642		JUNCTION BOX-18 IN	1.00	EACH		\$	
1380	01718		REMOVE INLET (TOP PHASE ONLY)	1.00	EACH		\$	
1390	02625		REMOVE HEADWALL	1.00	EACH		\$	
1400	08100		CONCRETE-CLASS A	1.13	CUYD		\$	
1410	21541NN		CORED HOLE DRAINAGE BOX CON- 18 IN	1.00	EACH		\$	
1420	23610NC		CORED HOLE DRAINAGE BOX CON (24 INCH)	1.00	EACH		\$	
1430	23610NC		CORED HOLE DRAINAGE BOX CON (4 INCH)	1.00	EACH		\$	
1440	23952EC		DRAINAGE JUNCTION BOX TY B	1.00	EACH		\$	

Section: 0004 - UTILITY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1450	01650		JUNCTION BOX	1.00	EACH		\$	
1460	14020		W FIRE HYDRANT RELOCATE	1.00	EACH		\$	

Section: 0005 - SIGNING



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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1470	20194ED		REMOVE & RESET TRAFFIC SIGN	1.00	EACH		\$	
1480	21134ND		REMOVE-STORE AND REINSTALL SIGN	2.00	EACH		\$	
1490	22400NN		REMOVE AND RELOCATE SIGN ASSEMBLY	3.00	EACH		\$	

Section: 0006 - SIGNALIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1500	02701		TEMP SILT FENCE	300.00	LF		\$	
1510	02705		SILT TRAP TYPE C	2.00	EACH		\$	
1520	02708		CLEAN SILT TRAP TYPE C	2.00	EACH		\$	
1530	04792		CONDUIT-1 IN	40.00	LF		\$	
1540	04792		CONDUIT-1 IN (RIGID STEEL)	60.00	LF		\$	
1550	04793		CONDUIT-1 1/4 IN	38.00	LF		\$	
1560	04811		ELECTRICAL JUNCTION BOX TYPE B	4.00	EACH		\$	
1570	04830		LOOP WIRE	3,955.00	LF		\$	
1580	04844		CABLE-NO. 14/5C	3,920.00	LF		\$	
1590	04850		CABLE-NO. 14/1 PAIR	1,800.00	LF		\$	
1600	04886		MESSENGER-15400 LB	36.00	LF		\$	
1610	04895		LOOP SAW SLOT AND FILL	1,587.00	LF		\$	
1620	06472		INSTALL SPAN MOUNTED SIGN	1.00	EACH		\$	
1630	20093NS835		INSTALL PEDESTRIAN HEAD-LED	6.00	EACH		\$	
1640	20188NS835		INSTALL LED SIGNAL-3 SECTION	36.00	EACH		\$	
1650	20189NS835		INSTALL LED SIGNAL-5 SECTION	1.00	EACH		\$	
1660	20266ES835		INSTALL LED SIGNAL- 4 SECTION	7.00	EACH		\$	
1670	21659NN		RELOCATE SIGNAL HEAD	2.00	EACH		\$	
1680	21743NN		INSTALL PEDESTRIAN DETECTOR	8.00	EACH		\$	
1690	23222EC		INSTALL SIGNAL PEDESTAL	2.00	EACH		\$	
1700	23235EC		INSTALL PEDESTAL POST	2.00	EACH		\$	
1710	23556NC		ADJUST LIGHTING JUNCTION BOX	1.00	EACH		\$	
1720	24900EC		PVC CONDUIT-1 1/4 IN-SCHEDULE 80	60.00	LF		\$	
1730	24901EC		PVC CONDUIT-2 IN-SCHEDULE 80	12.00	LF		\$	
1740	24955ED		REMOVE SIGNAL EQUIPMENT (7-9006.30 US 68 AT FT HARRODS)	1.00	EACH		\$	
1750	24955ED		REMOVE SIGNAL EQUIPMENT (7-9012.70 US 27 AT HAGGARD LN)	1.00	EACH		\$	
1760	24955ED		REMOVE SIGNAL EQUIPMENT (7-9012.70 US 27 AT I-75 SB RAMP ON RAMP)	1.00	EACH		\$	
1770	24955ED		REMOVE SIGNAL EQUIPMENT (7-9012.90 US 27 AT EDGEWOOD DRIVE)	1.00	EACH		\$	
1780	24955ED		REMOVE SIGNAL EQUIPMENT (FAYETTE MAN O' WAR BLVD @ PARKERS MILL RD)	1.00	EACH		\$	
1790	24963ED		LOOP TEST	6.00	EACH		\$	
1800	26119EC		INSTALL RADAR PRESENCE DETECTOR TYPE A	4.00	EACH		\$	

Section: 0007 - LIGHTING

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1810	04792		CONDUIT-1 IN	400.00	LF		\$	
1820	04820		TRENCHING AND BACKFILLING	400.00	LF		\$	

Section: 0008 - DEMOBILIZATION &/OR MOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1830	02568		MOBILIZATION	1.00	LS		\$	
1840	02569		DEMOBILIZATION	1.00	LS		\$	