



CALL NO. 200

CONTRACT ID. 194101

JEFFERSON COUNTY

FED/STATE PROJECT NUMBER 121GR19T002-HSIP

DESCRIPTION VARIOUS INTERSECTION IMPROVEMENTS IN JEFFERSON COUNTY

WORK TYPE ASPHALT SURFACE WITH GRADE & DRAIN

PRIMARY COMPLETION DATE 10/1/2019

LETTING DATE: February 22,2019

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN STANDARD TIME February 22,2019. Bids will be publicly announced at 10:00 AM EASTERN STANDARD TIME.

NO PLANS ASSOCIATED WITH THIS PROJECT.

DBE CERTIFICATION REQUIRED - 7%

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

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PART I
SCOPE OF WORK

ADMINISTRATIVE DISTRICT - 05

CONTRACT ID - 194101

121GR19T002-HSIP

COUNTY - JEFFERSON

PCN - 050560031W1901

HSIP 0311 (041)

DIXIE HIGHWAY (US 31W) (MP 5.216) IMPROVEMENTS AT THE INTERSECTION OF US 31W AND PENDELTON RD (MP 5.366)SIDEWALK CONSTRUCTION SYP NO. 05-09010.50.

GEOGRAPHIC COORDINATES LATITUDE 38:03:44.22 LONGITUDE -85:53:11.49

PCN - 0505600611901

HSIP 8738 (033)

PRESTON HIGHWAY (KY 61) (MP 7.245) IMPROVEMENTS AT THE INTERSECTION OF PRESTON HIGHWAY (KY 61) AND GRADE LANE

(CR 1001G) (MP 7.445)JPC PAVEMENT WITH GRADE & DRAIN SYP NO. 05-09010.10.

GEOGRAPHIC COORDINATES LATITUDE 38:10:48.59 LONGITUDE -85:43:06.71

PCN - 0505610651901

HSIP 8732 (017)

OUTER LOOP (KY 1065) (MP .936) IMPROVEMENTS AT THE INTERSECTION OF OUTER LOOP (KY 1065) AND NEW CUT RD (KY 1865) (MP 1.121)ASPHALT SURFACE WITH GRADE & DRAIN SYP NO. 05-09010.30.

GEOGRAPHIC COORDINATES LATITUDE 38:07:35.03 LONGITUDE -85:46:34.03

COMPLETION DATE(S):

COMPLETED BY 10/01/2019

APPLIES TO ENTIRE PROJECT

APPLIES TO INTERSECTION OF
GRADE LN AND PRESTON HWY (KY
61)

COMPLETED BY 08/01/2019

CONTRACT NOTES

PROPOSAL ADDENDA

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

BID SUBMITTAL

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

JOINT VENTURE BIDDING

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

UNDERGROUND FACILITY DAMAGE PROTECTION

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

REGISTRATION WITH THE SECRETARY OF STATE BY A FOREIGN ENTITY

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

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

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

SPECIAL NOTE FOR PROJECT QUESTIONS DURING ADVERTISEMENT

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

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

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

HARDWOOD REMOVAL RESTRICTIONS

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

INSTRUCTIONS FOR EXCESS MATERIAL SITES AND BORROW SITES

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

ACCESS TO RECORDS

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

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

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

April 30, 2018

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 Capacity Rating 102.10 Delivery of Proposals
102.8 Irregular Proposals 102.14 Disqualification of Bidders
102.9 Proposal Guaranty

CIVIL RIGHTS ACT OF 1964

The Kentucky Department of Highways, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252) and the Regulations of the Federal Department of Transportation (49 C.F.R., Part 21), issued pursuant to such Act, hereby notifies all bidders that it will affirmatively insure that the contract entered into pursuant to this advertisement will be awarded to the lowest responsible bidder without discrimination on the ground of race, color, or national origin.

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 on federally assisted projects shall be permitted. However, in the case of DBE's, second tier subcontracts will only be permitted where the other subcontractor is also a DBE. All second tier subcontracts shall have the consent of both the Contractor and the Engineer.

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

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 Project Code Number (PCN), 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.

UPON AWARD AND BEFORE A WORK ORDER WILL BE ISSUED

Contractors must submit the signed subcontract between the contractor and the DBE contractor, the DBE's certificate of insurance, and an affidavit for bidders, offerors, and contractors from the DBE to the Division of Construction Procurement. The affidavit can be found on the Construction Procurement website. If the DBE is a supplier of materials for the project, a signed purchase order and an affidavit for bidders, offerors, and contractors must be submitted to the Division of Construction Procurement.

Changes to 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 and nine (9) copies of this information must be received in the office of 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 DBE Liaison in the Office of Minority Affairs 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:

- 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 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 (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 submitted within 10 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.

The Prime Contractor should supply the payment information at the time the DBE is compensated for their work. Form to use is located at:

<http://transportation.ky.gov/Construction/Pages/Subcontracts.aspx>

The prime contractor should notify the KYTC Office of Civil Rights and Small Business Development seven (7) days prior to DBE contractors commencing work on the project. The contact is Melvin Bynes and the telephone number is (502) 564-3601.

Photocopied payments and completed, signed and notarized affidavit must be submitted by the Prime Contractor to: Office of Civil Rights and Small Business Development
6th Floor West 200 Mero Street
Frankfort, KY 40622

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.

1/27/2017

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.

ASPHALT MIXTURE

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

DGA BASE

Unless otherwise noted, the Department estimates the rate of application for DGA Base to be 115 lbs/sy per inch of depth.

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 & Description of Work

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.

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 established the limits of the Right-of-Way. Unless a consent and release form is obtained from the adjoining property owner, limit work activities to the 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.

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

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. Furnish all materials, labor, equipment, and incidentals for the following work:

5-9010.10 - Grade Lane and Preston Highway. The intent of the intersection improvement is to widen the right turn lane on Grade Lane onto Preston Highway through the use of an offset radii. This is designed to keep WB-62 trucks in their lane instead of encroaching on both lanes as well as the sidewalk. Other improvements include converting the existing signal configuration to a u-shaped

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signal configuration (locations of proposed signal poles noted in the plans), and adding pavement markings and span wire signing to improve lane choice on Grade Lane prior to the intersection. The lane designation on Grade Lane is being converted to dual right turn onto South KY 61 and a single left turn lane onto North KY 61.

Existing Sidewalk Ramps to be Removed and Replaced with Concrete Sidewalk-4 IN. There are three locations noted on the plans as well as in the Paving Summary where the existing sidewalk ramps are to be removed and concrete sidewalk is to be installed. The cross walk north of the intersection across Preston Highway is where two of the existing sidewalk ramps are to be removed. The third sidewalk ramp to be removed is located on west side of Grade Lane. See Demolition Plan.

Pedestrian Refuge Island. There are three pedestrian refuge islands to be constructed. The islands shall have standard header curb with dowel rods, 2" DGA Base, and 4" Concrete-Class A. Refer to the Typical Sections, Plan Sheets, and Summary Sheets for more information. See Pedestrian Refuge Island Detail.

Remove Signal Equipment. The existing signal configuration is to be removed. This includes removal of existing pedestrian pedestals. Refer to the Signal Design Plan Set for more information.

Striping and Pavement Marking. Install the proposed Striping and Pavement Markings as detailed on the Striping Plan for each intersection.

Elongated Thermo Route Shield Pavement Markings. At the intersection of Grade Lane & Preston Highway, Elongated Thermo Route Shield pavement markings are to be installed at the location(s) indicated on the Striping Plan Sheet and according to the Elongated Thermo Route Shield Detail Sheet. This work will be paid under the bid item "Pave Marking-Thermo Elong Route Shield" and will consist of all materials, equipment, labor, and incidentals necessary to install each complete symbol (route shield and number). Elongated Thermo Route Shields are to be installed similar to other thermoplastic intersection markings and conform to the requirements of Section 717.

Signing. Install the proposed Signing as detailed on the Signing Plan for Grade Lane and Preston Highway Intersection. The Contractor shall coordinate with the District Traffic Engineer to ensure that the District Traffic Engineer approves of the final sign locations. For some signs bracing as noted in the plan sheets will be required. See signing sheet detail 2 of 2 for more information on bracing.

Lighting. Install lighting according to lighting plan sheets.

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5-9010.30 - Outer Loop and New Cut Road. The intent of the intersection improvement is to add right turn lanes on Outer Loop for both sides of the intersection to reduce congestion. Other improvements include adding pedestrian crossing pedestals on each corner and refresh striping throughout the improved intersection.

Entrance Sta. 52+03 to Sta. 52+58 (LT) – AMKO Properties. Extend concrete pavement out to the existing expansion joint approximately 21 feet measured from the existing Drop Box Inlet Type 12A at approximate station 52+03 to station 52+58. Notify owner and tenant one week prior to closure of entrance. Refer to the Communication All Promises for contact information. The entrance shall be closed for a maximum of one week. Refer to the Plan Set for the drainage modification that is to occur at this entrance. Refer to the Flume Inlet Type 1 (MODIFIED) for more information on the flume that is to be constructed as shown in the Plans.

Signing. Install the proposed Signing as detailed on the Signing Plan for Outer Loop and New Cut Intersections. The Contractor shall coordinate with the District Traffic Engineer to ensure that the District Traffic Engineer approves of the final sign locations.

Striping and Pavement Marking. Install the proposed Striping and Pavement Markings as detailed on the Striping Plan for each intersection.

Guardrail Replacement. At the intersection of Outer Loop and New Cut Road, there is one location where a string of Guardrail is being replaced. Refer to the Plan Sheet for the approximate location for guardrail replacement. The work will include removal of the existing guardrail. See the Special Note for Guardrail for more information on this work.

5-9010.50 - US 31W and Pendleton Road. The intent of the intersection improvement is to add sidewalks on both sides of Pendleton Road at the intersection to provide connectivity. Other improvements include the addition of signing and pavement markings on Pendleton Road to reduce vehicles blocking the frontage road intersection.

Pipe Replacements & Extensions. At the intersection of US 31W and Pendleton Road, there is one location where a culvert pipe is being extended. The location is noted on the Plan Sheet and Pipe Drainage Sheet. Items associated with the pipe extension include: **Culvert Pipe-18 IN, Fittings,** etc. Refer to the Special Note for Pipe Replacements / Extensions and the Pipe Extension Adapter Fitting Detail Sheet for more information on this item of work.

Erosion Control Blanket. A quantity of 666 square yards of Erosion Control Blanket (49 square yards for Grade Lane and Preston Highway and 617 square yards for Outer Loop and New Cut) 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.

SPECIAL NOTE FOR STAKING

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 1-3 usually performed by the Engineer.
2. Verify intersection lane profiles and alignments associated with the improvements and prepare a Drainage Development Worksheet to provide for positive drainage upon completion of construction.
3. 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.
4. 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 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. 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. Provide the District Traffic Engineer with 2 weeks' notice of when the project will be ready for a review of the staked locations. Sign installation shall not begin until approval of the final staked locations is given by the District Traffic Engineer.
5. Produce and furnish to the Engineer "As Built" information for the improvements. 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.
6. 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, 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 District Traffic Engineer prior to installing the striping and/or pavement markings.
7. Prior to incorporating into the work, obtain the Engineers approval of all revisions determined by the Contractor.

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8. Perform any and all other staking operations required to control and construct the work.

SPECIAL NOTE FOR EROSION CONTROL

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.

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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 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

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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.

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.

SPECIAL NOTES FOR PIPE REPLACEMENTS / EXTENSIONS

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 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.

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- D. Removing Headwalls, Pipe, and Excavation.** Remove existing headwalls and lengths of culvert 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 removing pipe, or 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, backfill culvert pipes with flowable fill for the width of the roadway and as shown on the Pipe Replacement Detail. 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.
- 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.

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- 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 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.

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- 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 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, 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

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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 SIGNAGE

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

The following signs and sign components shall be fabricated using Type IX sheeting:

- White sign legends on panel signs
- STOP (R1-1) signs
- ALL WAY (R1-3P) signs
- YIELD (R1-2) signs
- DO NOT ENTER (R5-1) signs
- WRONG WAY (R5-1a) signs

The following signs and sign components shall be fabricated using Type IX 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 IX 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 point arrow (W16-7P) plaques that supplement Bicycle 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

All other permanent signs shall be fabricated using Type III or Type IV sheeting.

SPECIAL NOTE FOR SIGNING

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

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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 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., Type I steel posts shall be mounted on a Type D surface mount. For Type D surface mounts there are two permissible alternatives: Kleen Break Model 425 for Surface Mount Concrete Installations by Xcessories Squared of Auburn, IL or Snap n Safe Model S200s for 2" Sign Post by Designovations Inc. of Stilman Valley, IL. 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.

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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 IX Sheeting)
- White and yellow (Type III and/or IV 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.

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 there are 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

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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 shown on the plans and the type of work listed herein are approximate only and are not to be taken as an accurate evaluation of the materials and conditions to be encountered during construction; the bidder must draw their own conclusions. The Department does not give any guarantee as to the accuracy of the data and no claim for money or time extension will be considered if the conditions encountered are not in accordance with the information shown.

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 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.

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- 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.
- 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

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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: There are two permissible Type D Surface Mount alternatives: Kleen Break Model 425 for Surface Mount Concrete Installations by Xcessories Squared of Auburn, IL or Snap n Safe Model S200s for 2" Sign Post by Designovations Inc. of Stilman, Valley, 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 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.

SPECIAL NOTES FOR COMPLETION DATES & LIQUIDATED DAMAGES

The ultimate fixed completion date for this project shall be October 1, 2019. In addition to the ultimate fixed completion date, there will be a fixed milestone date. The proposed work at the intersection of Grade Lane and Preston Highway shall be completed by the fixed milestone date of August 1, 2019. The proposed work for the intersection of New Cut Rd and Outer Loop, Pendelton Rd and Dixie Highway shall be completed by the ultimate fixed completion date of October 1, 2019. Liquidated Damages for failure to complete the project or any portion, by the Specified Milestone or Completion Date, shall be assessed following Section 108.09.

In addition to the requirements of Section 108.09, the Department shall assess Liquidated Damages in the amount of **\$1,000** for the first hour for each hour, or fraction of an hour and **\$5,000** for any additional hour, or fraction of an hour, for any full or partial lane or road closures that are in place beyond the time frame(s) noted in the Traffic Control Plan or approved by the Engineer.

Contrary to Section 108.09, Liquidated Damages shall be assessed for the months of December through March.

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

All liquidated damages shall 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 NOTES FOR GUARDRAIL

I. DESCRIPTION

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

Furnish all equipment, labor, materials, and incidentals for the following work items:

(1) Site preparation; (2) Remove existing guardrail systems; (3) Construct Guardrail, End Treatments, Bridge End Connectors, and Terminal Sections, as applicable; (4) Delineators for guardrail; (5) Maintain and Control Traffic; and (6) all other work specified as part of this contract.

II. MATERIALS

Except as specified herein, provide for all materials to be sampled and tested in accordance with the Department's Sampling Manual and 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.

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Guardrail.** Furnish guardrail system components according to Section 814 and the Standard and Sepia Drawings; except use steel posts only, no alternates.
- C. Delineators for Guardrail.** Furnish white and/or yellow Delineators for Guardrail according to Standard Drawing RBR-055 – Delineators for Guardrail, current edition.
- D. Erosion Control.** See the Special Note for Erosion Control.

III. CONSTRUCTION METHODS

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Site Preparation.** Remove existing guardrail system, including the guardrail end treatments, Bridge End connectors and all other elements of the existing guardrail system as per Section 719, except that the Contractor will take possession of all concrete posts and all concrete associated with the existing bridge and/or guardrail end treatments. Locate all disposal areas off the Right of Way. Be responsible for all site preparation, including but not limited to, clearing and grubbing, excavation, embankment, and removal of all obstructions or any other items; regrading, reshaping, adding and compacting of suitable materials on the existing shoulders to provide proper template or foundation for the guardrail;

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filling voids left as the result of removing existing guardrail and guard posts with dry sand; temporary pollution and erosion control; disposal of excess, waste materials, and debris; and final dressing, cleanup, and seeding and protection. Perform all site preparation as approved or directed by the engineer.

- C. Guardrail.** Except as specified herein, construct guardrail system according to Section 719 and the Standard and Sepia Drawings, current editions. Locations listed on the summary and/or shown on the drawings are approximate only. The Engineer will determine the exact termini for individual guardrail installations at the time of construction. Unless directed otherwise by the Engineer, provide a minimum two (2) foot shoulder width. Construct radii at entrances and road intersections as directed by the Engineer.

Erect guardrail to the lines and grades shown on the current Standard and Sepia Drawings, or as directed by the Engineer by any method approved by the Engineer which allows construction of the guardrail to the true grade without apparent sags.

When removing existing guardrail and installing new guardrail, do not leave the blunt end exposed where it would be hazardous to the public. When it is not practical to complete the construction of the guardrail and the permanent end treatments and terminal sections first, provide a temporary end by connecting at least 25 feet of rail to the last post, and by slightly flaring, and burying the end of the rail completely into the existing shoulder. If left overnight, place a drum with bridge panel in advance of the guardrail end and maintain during use.

- D. Delineators for Guardrail.** Construct Delineators for Guardrail according to Standard Drawing RBR-055 – Delineators for Guardrail, current edition.
- E. Property Damage.** Be responsible for all damage to public and/or private property resulting from the work. Restore damaged roadway features and private property 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 utilities to 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 guardrail operations at no additional cost to the Department.
- G. Right of Way Limits.** The Department has not established the exact limits of the Right-of-Way. Limit work activities to obvious Right-of-Way, permanent or temporary easements, and work areas secured by the Department through consent and release of the adjacent property owners. Be responsible for all encroachments onto private lands.

Guardrail
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- H. Clean Up, Disposal of Waste.** Dispose of all removed concrete, debris, and other waste and debris off the Right-of-Way at sites obtained by the Contractor at no additional cost to the Department. See the Special Provision for Waste and Borrow Sites.
- I. Final Dressing, Seeding and Protection.** 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.
- J. Erosion Control.** See the 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 separate payment but shall be incidental to the Guardrail, End Treatments, Bridge End Connectors, and Terminal Sections, as applicable.
- C. Guardrail, End Treatments, Bridge End Connectors, Terminal Sections, and Remove Guardrail.** The Department will measure according to Section 719.04.
- D. Delineators for Guardrail.** See Standard Drawing RBR-055 – Delineators for Guardrail.
- E. Clean Up, Disposal of Waste, Final Dressing, and Seeding and Protection.** The Department will NOT measure for payment the operations of: Clean Up, Disposal of Waste, and Final Dressing. These activities shall be incidental. Seeding and Protection will be measured according to Section 212.
- F. Erosion Control.** See the Special Note for Erosion Control.

V. BASIS OF PAYMENT

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Guardrail, End Treatments, Bridge End Connectors, Terminal Sections, and Remove Guardrail.** The Department will make payment according to Section 719.05.
- C. Delineators for Guardrail.** See Standard Drawing RBR-055 – Delineators for Guardrail.
- D. Erosion Control.** See the Special Note for Erosion Control.

SPECIAL NOTE FOR SIDEWALK RAMPS & DETECTABLE WARNINGS

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
JEFFERSON COUNTY
VARIOUS INTERSECTIONS
ITEM NO. 5-9010.10, 5.9010.30, & 5.9010.50**

TRAFFIC CONTROL GENERAL

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” as set forth in the Standard and Supplemental Specifications and the Standard and Sepia Drawings, current editions, unless otherwise provided in these notes. The lump sum bid price to “Maintain and Control Traffic” shall also include, but is not limited to, the following items and operations:

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

Contrary to Section 106.01, furnish new, or used in like new condition, traffic control devices at the beginning of the work and maintain 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 when no longer needed. Traffic control devices will conform to current MUTCD.

PROJECT PHASING & CONSTRUCTION PROCEDURES

Do NOT erect lane closures or partial lane closures during the following days and/or hours:

Normal Workday Rush Hours

Monday-Friday 6:00 am – 9:00 am, and 3:00 pm – 6:00 pm, daily

No lane closures will be allowed on the following dates:

Thunder over Louisville	6 am Saturday, April 13, 2019 – 9 am Sunday, April 14, 2019
Easter Weekend	6 am Friday, April 19, 2019 – 9 am Monday, April 22, 2019
KY Derby Weekend	6 am Thursday May 2, 2019 – 9 am Monday May 6, 2019
Memorial Day Weekend	6 am Friday, May 24, 2019 – 9 am Tuesday, May 28, 2019
Independence Day Weekend	3 pm Wednesday, July 3, 2019 – 6 pm Sunday, July 7, 2019
Labor Day Weekend	6 am Friday, August 30, 2019 – 9 am Tuesday, September 3, 2019

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

On routes 4 lanes or greater, The Contractor shall maintain a two-lane traveled way in each direction, with a minimum lane width of 10 feet. However, during working hours, one lane traffic in either direction may be allowed at the discretion of the Engineer.

On routes with 3 lanes or less, The Contractor shall maintain a two-lane traveled way with a minimum lane width of 10 feet. However, during working hours, alternating one-way traffic may be allowed at the discretion of the Engineer, provided adequate signing and flag persons are in place. When maintaining alternating one-way traffic provide a minimum clear lane width of 10 feet;

however, provide for the 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 the scene, make provisions for the passage of the school bus or emergency vehicle as quickly as possible.

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

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

The Contractor shall 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 residential or farm entrance is blocked to the minimum length of time required for actual operations, do not extend the time for the Contractor's convenience, and in no case allow the blockage to exceed six (6) hours. Notify all residents twenty-four hours in advance of any driveway or entrance closings and make any accommodations necessary to meet the access needs of disabled residents. SEE NOTE BELOW FOR 5-9010.30 ENTRANCE ON OUTER LOOP.

5-9010.30 – STA. 52+03 TO STA. 52+58 (LT) – AMKO PROPERTIES

This entrance shall have a maximum closure of one (1) week. The Owner and Tenant will be notified one (1) week prior to closure of entrance. Refer to the Communicating All Promises for name and contact information.

LANE AND SHOULDER CLOSURES

When the road is open to through traffic, do not leave lane closures in place during non-working hours. Maintain lane closures only during hours of actual operations. Reduce lane closures to a shoulder closure, or remove as appropriate, when active operations do not require a lane closure. The Engineer will permit shoulder closures during non-working hours; however do not park equipment or store materials on a closed shoulder during non-working hours. The Engineer may designate days and hours when lane and/or shoulder closures will not be allowed.

Contrary to Section 112.04.17, lane closures, whether long term or short term, will not be measured for payment and will be incidental to the bid item "Maintain and Control Traffic".

SIGNS

The Engineer and the Contractor, or their authorized representative, shall review the signing before traffic is allowed to use any lane closures, crossovers, or detours. All signing shall be approved by the Engineer before work can be started by the Contractor.

Contrary to section 112.04.02, only long term signs (signs intended to be continuously in place for more than 3 days) will be measured for payment; short term signs (signs intended to be left in place for 3 days or less) will not be measured for payment but shall be incidental to Maintain and Control Traffic. Individual signs will be measured only once for payment, regardless of how many times they are set, reset, relocated, and removed during the duration of the project. Replacements for damaged signs directed by the Engineer to be replaced due to poor condition or reflectivity will not be measured for payment.

PORTABLE CHANGEABLE MESSAGE SIGNS

Provide portable changeable message signs (PCMS) at least two weeks prior to construction at the locations approved by the Engineer. The messages required to be provided will be designated by the

Engineer. The PCMS will be in operation at all times. In the event of damage or mechanical/electrical failure, the contractor will repair or replace the PCMS immediately. The Department will not take possession of the signs upon completion of the work. The Department will measure for payment the maximum number of PCMS in concurrent use at the same time on a single day on all sections of the contract. PCMS will be paid for once, no matter how many times they are set, reset, removed, and relocated during the duration of the project. Replacements for damaged changeable message signs directed by the Engineer to be replaced due to poor condition or readability will not be measured for payment.

BARRICADES

The Department will not measure barricades used in lieu of barrels and cones for channelization or delineation, nor for any lane, shoulder, or road closures but shall be incidental to Maintain and Control Traffic according to Section 112.04.01.

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 final surface course. Removal of pavement markings will be by water blasting process to the satisfaction of the Engineer. Place temporary and permanent striping in accordance with Section 112 with following exception for Temporary Striping:

If the Contractor's operations or phasing requires temporary markings that must subsequently be removed from the final surface course or existing surface to remain in place, 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.

PAVEMENT EDGE DROP-OFFS

Do not allow a pavement edge between opposing directions of traffic or lanes that is expected to cross in a lane change situation with an elevation difference greater than 1 ½". 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 unsurfaced areas which traffic may cross with asphalt mixture for leveling and wedging. Remove the wedges prior to placement of the final surface course.

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

Less than 2" – Not protection required. Warning signs should be placed in advance and throughout the drop-off area.

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. Spacing of devices on tapered sections shall be in accordance with MUTCD, current edition. When work is not active in the drop-off area, wedge the drop-off with DGA or asphalt mixture for leveling and wedging with 1:1 or flatter slope in daylight hours, or 3:1 or flatter slope during nighttime hours.

Greater than 4" – Positive separation or wedge with a 3:1 or flatter slope. If there is five feet or more distance between the edge of pavement and drop-off, then drums, panels, or barricades may be used. If the drop-off is greater than 12 inches, positive separation is strongly encouraged. If concrete barriers are used, special reflective devices or steady burn lights should be used for overnight installations. Barricades may be used if the drop-off is greater than 12 inches.

TRAFFIC COORDINATOR

Designate an employee to be traffic coordinator. The designated Traffic Coordinator must be certified by the American Traffic Safety Services Association (ATSSA). The Traffic Coordinator will inspect the project maintenance of traffic once every two hours during the Contractor's operations and at any time a lane closure is in place. The Traffic Coordinator will report all incidents throughout the work zone to the Engineer on the project. The Contractor will furnish the name and telephone number where the Traffic Coordinator can be contacted at all times.

The Traffic Coordinator will be responsible for giving their contact information to local law enforcement and emergency personnel.

During any period when a lane closure is in place, the Traffic Coordinator will arrange for personnel to be present on the project at all times to inspect the traffic control, maintain the signing and devices, and relocate portable changeable message boards as needed. The personnel will have access on the project to a radio or telephone to be used in case of emergencies or accidents.

COORDINATION OF WORK

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

USE AND PLACEMENT OF CHANGEABLE MESSAGE SIGNS

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

Application

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

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

CMS should not be used for:

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

Messages

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

- Visible for at least ½ mile under ideal daytime and nighttime conditions
- Legible from all lanes a minimum of 650 feet
- Entire message readable twice while traveling at the posted speed
- 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:

<u>Word</u>	<u>Abbrev</u>	<u>Example</u>
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

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 NOTES FOR TRAFFIC SIGNAL LOOP DETECTORS CITY OF LOUISVILLE

Be advised, existing traffic signal loop detectors are within the construction limits of this project. Notify the Engineer in writing, (2) weeks prior to beginning any work on the project. Install and test the new signal loops according to the Special Notes for Traffic Signal Loop Replacement.

The Engineer will contact and maintain liaison with the District Traffic Engineer and the City of Louisville to coordinate any necessary work.

On projects that include milling of roadways with existing traffic signal loops and if after milling the remnant contents of the existing saw slot (grout, loop wires, backer rod, and/or loop sealant) are not intact and flush with or below the top of the milled portion of the asphalt and with the saw slot completely filled with fines from the milling operation, clear the saw slot of loose remnant contents and refill the saw slot with natural sand. Obtain the Engineer's approval of the stabilized saw slot prior to resurfacing. The Department will not measure for separate payment clearing the saw slot and refilling with natural sand, but shall be incidental to Asphalt Pavement Milling and Texturing.

1-3893 Louisville Traffic Signal Loops
01/02/2012

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

<input checked="" type="checkbox"/> Original	<input type="checkbox"/> Re-Certification	RIGHT OF WAY CERTIFICATION	
ITEM #	COUNTY	PROJECT # (STATE)	PROJECT # (FEDERAL)
05-9010.10	Jefferson	12FO FD 52 056 9158801R	HSIP 8738 (032)

PROJECT DESCRIPTION
Intersection Improvement KY 61 & Grade Lane

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.

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.

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


Condition # 3 (Additional Right of Way Required with Exception)

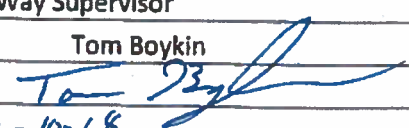
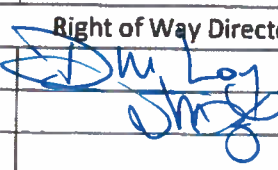
The acquisition or right of occupancy and use of a few remaining parcels are not complete and/or some parcels still have occupants. All remaining occupants have had replacement housing made available to them in accordance with 49 CFR 24.204. KYTC is hereby requesting authorization to advertise this project 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	1	EXCEPTION (S) Parcel #	ANTICIPATED DATE OF POSSESSION WITH EXPLANATION
Number of Parcels That Have Been Acquired			
Signed Deed	1		
Condemnation	0		
Signed ROE	0		

Notes/ Comments (Use Additional Sheet if necessary)

LPA RW Project Manager		Right of Way Supervisor	
Printed Name		Printed Name	Tom Boykin
Signature		Signature	
Date		Date	09/14/2018
Right of Way Director		FHWA	
Printed Name	Digitally signed by DM Loy	Printed Name	No Signature Required
Signature		Signature	as per FHWA-KYTC
Date	Date: 2018.09.17 07:45:27 -04'00'	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
RIGHT OF WAY CERTIFICATION		

<input checked="" type="checkbox"/> Original	<input type="checkbox"/> Re-Certification	RIGHT OF WAY CERTIFICATION	
ITEM #	COUNTY	PROJECT # (STATE)	PROJECT # (FEDERAL)
05-9010.30	Jefferson	12FO FD52 056 9158803R	HSIP 8732 (016)
PROJECT DESCRIPTION			
KY 1065 and KY 1865 intersection			
<input 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 checked="" 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	1	EXCEPTION (S) Parcel #	ANTICIPATED DATE OF POSSESSION WITH EXPLANATION
Number of Parcels That Have Been Acquired			
Signed Deed	1		
Condemnation			
Signed ROE			
Notes/ Comments (Use Additional Sheet if necessary)			
LPA RW Project Manager		Right of Way Supervisor	
Printed Name		Printed Name	Tom Boykin
Signature		Signature	
Date		Date	12-10-18
Right of Way Director		FHWA	
Printed Name		Printed Name	
Signature		Signature	No Signature Required as per FHWA-KYTC Current Stewardship Agreement
Date	10 DEC 18	Date	

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

<input checked="" type="checkbox"/> Original	<input type="checkbox"/> Re-Certification	RIGHT OF WAY CERTIFICATION	
ITEM #	COUNTY	PROJECT # (STATE)	PROJECT # (FEDERAL)
05-9010.50	Jefferson	12FO FD52 056 9158805R	HSIP 0311 (41)
PROJECT DESCRIPTION			

US 31W and Pendleton Road intersection

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.


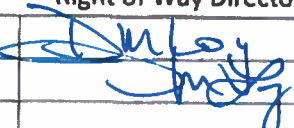
Condition # 1 (Additional Right of Way Required and Cleared)
 All necessary right of way, including control of access rights when applicable, have been acquired including legal and physical possession. Trial or appeal of cases may be pending in court but legal possession has been obtained. There may 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.

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

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	1	EXCEPTION (S) Parcel #	ANTICIPATED DATE OF POSSESSION WITH EXPLANATION
Number of Parcels That Have Been Acquired			
Signed Deed	1		
Condemnation			
Signed ROE			

Notes/ Comments (Use Additional Sheet if necessary)

LPA RW Project Manager		Right of Way Supervisor	
Printed Name		Printed Name	Tom Boykin
Signature		Signature	
Date		Date	12-10-18
Right of Way Director		FHWA	
Printed Name		Printed Name	
Signature		Signature	No Signature Required as per FHWA-KYTC Current Stewardship Agreement
Date	10DEC18	Date	

SYP8161

KENTUCKY TRANSPORTATION CABINET
COMMUNICATING ALL PROMISES (CAP)

Page: 1

15 JAN 2019

Item No. 5 - 9010.3 **Project Mgr.** KYTC\MIKE.VAUGHN

County JEFFERSON

Route KY-1065

CAP #	Date of Promise	Promise made to:	Location of Promise
1	15-JAN-19	District 5 Right-of-Way	Parcel 2

CAP Description

The entrance will be all new concrete.

Extend concrete pavement out to the existing expansion joint at approximate 21 feet from approximate station 52+03 to 52+58 work to be done in area provided by owner per consent and release.

Owner and tenant will be notified 1 week prior to closure of entrance (Name and Contact information will be placed in C.A.P. Communicating All Promises)

Owner info - Eun Hee Kim's husband Mike McGonagle Home # - 502-479-8127, Cell # - 502-565-8393

Tenant info - Circle K - Jeff Erdman Office #812-314-3268, Cell # 317-721-4506

Consent and Release Notes 5-9010.30 Outer Loop at New Cut

Property Owner:

AMKO Properties, LLC

Description & Location of Work:

Reconstruct entrance with concrete to the existing expansion joint at approximate 21 feet, from approximate station 52+03 to 52+58. The contractor shall coordinate with the owner and tenant prior to closure of the entrance. The owner and tenant shall be notified at least 1 week prior to closure of entrance. The owner and tenant's contact is:

Owner

Mike McGonagle

Home Phone Number: 502-479-8127

Cell Phone Number: 502-565-8393

Tenant

Circle K – Jeff Erdman

Office Phone Number: 812-314-3268

Cell Phone Number: 317-721-4506

UTILITIES AND RAIL CERTIFICATION NOTE

Jefferson County - HSIP 8738 (033)
FD52 056 0061 007-008
Improvements at the Intersection of KY 61 (Preston Hwy) & Grade Lane
Item No. 5-9010.10

GENERAL PROJECT NOTE ON UTILITY PROTECTION

Utility coordination efforts conducted by the project sponsor have 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

LG&E-gas, Louisville Water Company, Metropolitan Sewer District (MSD), AT&T, Spectrum, and Lighttower/Fibertech all have underground and overhead facilities in the project area.

LG&E-gas – has an existing 12” gas main and 8” gas main. The 12” gas main runs parallel to Preston Hwy at approximately 8 ft LT of existing edge of pavement. The 8” gas main runs along Grade Lane, crossing under the proposed curb near Station 10+30

These existing facilities are not to be disturbed and are to remain in place.

Louisville Water Company has an existing water main running under and parallel to Grade Lane. There is one water service crossing under the proposed project at approximately Sta. 10+40. **The Contractor will be responsible for adjusting this service line, as needed, to accommodate the project. The remaining existing facilities are not to be disturbed and are to remain in place.**

MSD has an existing 8” gravity sanitary sewer main crossing the project area. The main runs from an existing manhole at outside the disturbed area along Grade Lane to a manhole at approximately Sta. 10+94 26ft LT. The sanitary sewer then runs parallel to Preston Hwy to a manhole outside of the disturbed limits.

These existing facilities are not to be disturbed and are to remain in place.

Spectrum Communication has underground and aerial facilities in the project area. Aerial facilities are located on AT&T’s pole route. There is a telephone manhole located at approximately Sta. 10+94 34ft LT. From this manhole underground communication facilities run parallel to both Grade Lane and Preston Hwy.

These existing facilities are not to be disturbed and are to remain in place.

Lighttower/Fibertech has an existing aerial facility which is located on AT&T’s pole route.

These existing facilities are not to be disturbed and are to remain in place.

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

AT&T has a pole route along the west side of Preston Hwy. The pole located at approximately Sta. 11+73 2ft RT is to be relocated by AT&T before the project is awarded to construction.

This work is anticipated to be complete by August 31, 2018.

UTILITIES AND RAIL CERTIFICATION NOTE

**Jefferson County - HSIP 8738 (033)
FD52 056 0061 007-008
Improvements at the Intersection of KY 61 (Preston Hwy) & Grade Lane
Item No. 5-9010.10**

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

None

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

None

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)

UTILITIES AND RAIL CERTIFICATION NOTE

Jefferson County - HSIP 8738 (033)
FD52 056 0061 007-008
Improvements at the Intersection of KY 61 (Preston Hwy) & Grade Lane
Item No. 5-9010.10

UNDERGROUND FACILITY DAMAGE PROTECTION – BEFORE YOU DIG

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

Jefferson County - HSIP 8738 (033)
FD52 056 0061 007-008
Improvements at the Intersection of KY 61 (Preston Hwy) & Grade Lane
Item No. 5-9010.10

AREA UTILITIES CONTACT LIST

<u>Utility Company/Agency</u>	<u>Contact Name & Contact Information</u>
1. LG&E KU (Electric) 820 West Broadway Louisville, KY 40202 LG&E Emergency Number (502) 589-1444 LG&E and KU Emergency Number 1-800-331-7370	Caroline Justice work: (502) 627-3708 caroline.justice@lge-ku.com
2. LG&E KU (Electric) 820 West Broadway Louisville, KY 40202 LG&E Emergency Number (502) 589-1444 LG&E and KU Emergency Number 1-800-331-7370	Caroline Justice work: (502) 627-3708 caroline.justice@lge-ku.com
3. Louisville Water Company 550 South Third Street Louisville, KY 40202	Daniel Tegene, PE (502) 569-3649 DTegene@LWCKy.com
4. AT&T KY 1340 E. John Rowan Blvd Bardstown, KY 40004	Scott Roche sr8832@att.com Office - (502) 348-4528 Cell - (502) 827-4703
5. Metropolitan Sewer District 700 West Liberty Street Louisville, KY 40203-1911	Brandon Flaherty Brandon.Flaherty@LouisvilleMSD.org Office: (502) 540-6632 Cell: (502) 381-0804 Greg Powell Greg.Powell@LouisvilleMSD.org
6. Charter Communications 10168 Linn Station Road Suite 120 Louisville, KY 40223	Deno Barbour (502) 664-7395 – Cell (502) 357-4376 – Office Dwight.Barbour@charter.com Kevin Mercer (502) 817-5055 – Cell (502) 357-4724 - Office kevin.mercer@charter.com

UTILITIES AND RAIL CERTIFICATION NOTE

Jefferson County - HSIP 8738 (033)
FD52 056 0061 007-008
Improvements at the Intersection of KY 61 (Preston Hwy) & Grade Lane
Item No. 5-9010.10

- | | | |
|----|---|--|
| | | |
| 7. | Texas Gas Transmission, LLC
2332 Hwy 60 West
Hardinsburg, KY 40143

610 W 2 nd Street
PO Box 20008
Owensboro, KY 42301

10327 Gaslight Way
Louisville, KY 40299 | Richard Bast
(502) 817-0734 – Cell
(502) 357-4118 - Office
richard.bast@charter.com

Kevin Carman
Kevin.Carman@bwpmlp.com
Cell: (270) 779-3893

Amanda Isom
Amanda.Isom@bwpmlp.com
(270) 688-5854
(270) 231-7629

Thomas Spargo
trey.spargo@bwpmlp.com
502-438-2408 |
| 8. | Marathon Pipeline, LLC
539 South Main Street, Room X-05-018
Findlay, OH 45840
OR
20-C Industrial Drive
Lexington, OH 44904 | Dennis Durnal
Office – (502) 448-8311
Cell – (419) 581-0038
ddurnal@marathonpetroleum.com
Greg Newman
gcneman@marathonpetroleum.com
Office - (419) 884-0800x236
Cell – (419) 564-8826
Send to both contacts above

Aron Velasquez
Office – (419) 421-3704
advelasquez@marathonpetroleum.com |
| 9. | Indiana Gas Company Inc
d.b.a. Vectren Energy Delivery of Indiana, Inc
or
Ohio River Pipeline Corporation
2520 Lincoln Drive
Clarksville, Indiana 47129
Line Maintained By
Texas Gas Transmission, LLC
3800 Frederica Street | Mary Barber
MBarber@Vectren.com
(812) 948-4952 |

UTILITIES AND RAIL CERTIFICATION NOTE

Jefferson County - HSIP 8738 (033)
FD52 056 0061 007-008
Improvements at the Intersection of KY 61 (Preston Hwy) & Grade Lane
Item No. 5-9010.10

Owensboro, Kentucky 42302
Cell: (270) 485-1152

- | | |
|---|--|
| 10. Indiana Utilities Corporation
123 West Chestnut Street
Corydon, Indiana 47112
(812) 738-3235 | Scott Schmitt
Office (812) 738-3235
Cell (812) 972-0539
scotts@indianautilitiescorp.com
Corey Thatcher, Field Technician
Office (812) 738-3235
Cell (812) 267-6936
coreyt@indianautilitiescorp.com
Kevin Kinney
Ron Timberlake |
| 11. Sprint - Fiber Optics
11370 Enterprise Park Dr.
Sharonville, OH 45241 | Steven T. Hughes
Steven.Hughes@sprint.com
Office (513) 459-5796
Cell (513) 462-7221 |
| 12. Mid - Valley Pipeline Company
4910 Limaburg Road
Burlington, KY 41005
FAX (866) 699-1185 | Richard (Todd) Calfee
(859) 371-4469x14
Cell: 859-630-8271
RTCalfee@SunocoLogistics.com |
| 14. Jefferson County Public Schools (JCPS)
C B Young
Building 7
3001 Crittenden Dr.
Louisville, KY 40209 | Jeff Hardy
Jeff.Hardy@Jefferson.kyschools.us
(502) 379-9315
Scott McMahan (Team Fishel)
cell: (502) 664-9312
office: (502) 456-2900 |
| 15. Kentucky Data Link (KDL now Windstream)
111 S. Main St.
Elizabethtown, KY 42071 | James Galvin
Office: 270-765-1818
Mobile: 270-748-9249
James.Galvin@windstream.com
Mark Ware
Mark.Ware@windstream.com
Send to both contacts
Timothy Gibson
Timothy.Gibson@Windstream.com
Emergency contact ONLY |

UTILITIES AND RAIL CERTIFICATION NOTE

Jefferson County - HSIP 8738 (033)
FD52 056 0061 007-008
Improvements at the Intersection of KY 61 (Preston Hwy) & Grade Lane
Item No. 5-9010.10

- 16.** AT&T Legacy
7555 E. Pleasant Valley Rd. – Suite 140
Independence, OH 44131
- Mike Diederich
MD4145@att.com
Phone - (216) 750-0135
Cell - (216) 212-8556
Don Garr
DRGarr@Hughes.net
Cell - (502) 741-8374
Send to both contacts
- 17.** City of Taylorsville Sewer & Water
70 Taylorsville Rd., P O Box 279
Taylorsville, KY 40071
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220 Reynolds Rd
Lexington, KY 40517
- Harold Compton
HCompton@TaylorsvilleWater.org
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Fax: (502) 477-1310
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- Chad Kirkland
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Cell (770) 328-2449
- 19.** Shelby Energy Cooperative
P.O. Box 311, 620 Old Finchville Road
Shelbyville, KY 40065
(502) 633-4420
- Jason Ginn
Jason@ShelbyEnergy.com
cell: 502-643-2778
- 20.** Atmos Energy
105 Hudson Blvd
Shelbyville, KY 40065
- Jake Basham
cell: (270) 779-7381
Jake.Basham@AtmosEnergy.com
Silas Bohlen
Silas.Bohlen@atmosenergy.com
Cell: (270) 570-0445
Send to both contacts

UTILITIES AND RAIL CERTIFICATION NOTE

Jefferson County - HSIP 8738 (033)
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Indianapolis, IN 46256 | Ryan Burns
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Office: (317) 296-6048
Cell: (812) 589-9314 |
| 23. MCI/Verizon(Owns WUTEL)
MCI/Verizon
730 West Henry Street
Indianapolis, IN 46225 | Dean Boyers
dean.boyers@verizon.com
Office: (615) 777-7855
Cell: (615) 507-5287

Moeed Ahmed
moeed.ahmed2@verizonwireless.com
502-663-3219
2421 Holloway Rd
Louisville, KY 40299

Dave Wiley (Field)
(502) 439-8783
dave.wiley@verizon.com |
| 24. TRIMARC
Public Safety & Transportation Systems
901 West Main Street
Louisville, KY 40202 | Todd Hood
Todd.Hood@ngc.com
Office: (502) 290-7201
Cell: (270) 307-7456 |
| 25. Lighttower/Fibertech
3310 Ruckreigel Parkway
Jeffersontown, KY 40299 | Mike Prather
Office- (585) 445-5823
Cell: (502) 612-3102
mprather@lighttower.com |
| 26. Google Fiber
101 N. 7th Street, Ste 400
Louisville, KY 40202 | Lewis Roberts
423-430-9853
lewisrobertsjr@google.com |

UTILITIES AND RAIL CERTIFICATION NOTE

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27. Kentucky Wired
209 St. Clair Street, 4th Floor
Frankfort, KY 40601

Jesse Quirion
650-214-3032
iquirion@google.com

Mike Hayden, Chief Operating Officer
Office 502-782-2535
Mike.Hayden@ky.gov

Harold Waters
Lead Engineering Specialist, Black&Veatch
Office (913) 458-1584
Cell (502) 612-8495
watershw@bv.com

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.

UTILITIES AND RAIL CERTIFICATION NOTE

Jefferson County - HSIP 8732 (017)
FD52 056 1065 000-002
Improvements at the Intersection of KY 1065 (Outer Loop) & KY 1865 (New Cut Rd)
Item No. 5-9010.30

GENERAL PROJECT NOTE ON UTILITY PROTECTION

Utility coordination efforts conducted by the project sponsor have 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

LG&E-electric, LG&E-gas, Louisville Water Company, AT&T, Spectrum, and Lighttower/Fibertech all have underground and overhead facilities in the project area.

LG&E-electric – has a pole route that runs parallel to Outer Loop outside of disturb limits.
These existing facilities are not to be disturbed and are to remain in place.

LG&E-gas – has an existing gas main that runs parallel to Outer Loop at approximately 25 ft LT of existing edge of pavement. The existing main is out of disturb limits.
These existing facilities are not to be disturbed and are to remain in place.

Louisville Water Company has an existing 8” water main running parallel to Outer Loop.
The existing facilities are not to be disturbed and are to remain in place.

AT&T has an existing underground route along the north side of Outer Loop.
The existing facilities are not to be disturbed and are to remain in place.

Spectrum Communication has aerial facilities in the project area.
These existing facilities are not to be disturbed and are to remain in place.

Lighttower/Fibertech has an existing aerial facility in the project area.
These existing facilities are not to be disturbed and are to remain in place.

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

None

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

None

UTILITIES AND RAIL CERTIFICATION NOTE

Jefferson County - HSIP 8732 (017)
FD52 056 1065 000-002
Improvements at the Intersection of KY 1065 (Outer Loop) & KY 1865 (New Cut Rd)
Item No. 5-9010.30

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

None

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

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

Jefferson County - HSIP 8732 (017)
FD52 056 1065 000-002
Improvements at the Intersection of KY 1065 (Outer Loop) & KY 1865 (New Cut Rd)
Item No. 5-9010.30

AREA UTILITIES CONTACT LIST

<u>Utility Company/Agency</u>	<u>Contact Name & Contact Information</u>
1. LG&E KU (Electric) 820 West Broadway Louisville, KY 40202 LG&E Emergency Number (502) 589-1444 LG&E and KU Emergency Number 1-800-331-7370	Caroline Justice work: (502) 627-3708 caroline.justice@lge-ku.com
2. LG&E KU (Electric) 820 West Broadway Louisville, KY 40202 LG&E Emergency Number (502) 589-1444 LG&E and KU Emergency Number 1-800-331-7370	Caroline Justice work: (502) 627-3708 caroline.justice@lge-ku.com
3. Louisville Water Company 550 South Third Street Louisville, KY 40202	Daniel Tegene, PE (502) 569-3649 DTegene@LWCky.com
4. AT&T KY 1340 E. John Rowan Blvd Bardstown, KY 40004	Scott Roche sr8832@att.com Office - (502) 348-4528 Cell – (502) 827-4703
5. Metropolitan Sewer District 700 West Liberty Street Louisville, KY 40203-1911	Brandon Flaherty Brandon.Flaherty@LouisvilleMSD.org Office: (502) 540-6632 Cell: (502) 381-0804 Greg Powell Greg.Powell@LouisvilleMSD.org
6. Charter Communications 10168 Linn Station Road Suite 120 Louisville, KY 40223	Deno Barbour (502) 664-7395 – Cell (502) 357-4376 – Office Dwight.Barbour@charter.com Kevin Mercer (502) 817-5055 – Cell (502) 357-4724 - Office kevin.mercer@charter.com

UTILITIES AND RAIL CERTIFICATION NOTE

Jefferson County - HSIP 8732 (017)

FD52 056 1065 000-002

Improvements at the Intersection of KY 1065 (Outer Loop) & KY 1865 (New Cut Rd)

Item No. 5-9010.30

- Richard Bast
(502) 817-0734 – Cell
(502) 357-4118 - Office
richard.bast@charter.com
7. Texas Gas Transmission, LLC
2332 Hwy 60 West
Hardinsburg, KY 40143
- 610 W 2nd Street
PO Box 20008
Owensboro, KY 42301
- 10327 Gaslight Way
Louisville, KY 40299
8. Marathon Pipeline, LLC
539 South Main Street, Room X-05-018
Findlay, OH 45840
OR
20-C Industrial Drive
Lexington, OH 44904
- Dennis Durnal
Office – (502) 448-8311
Cell – (419) 581-0038
ddurnal@marathonpetroleum.com
- Greg Newman
gcneman@marathonpetroleum.com
Office - (419) 884-0800x236
Cell – (419) 564-8826
Send to both contacts above
- Aron Velasquez
Office – (419) 421-3704
advelasquez@marathonpetroleum.com
9. Indiana Gas Company Inc
d.b.a. Vectren Energy Delivery of Indiana, Inc
or
Ohio River Pipeline Corporation
2520 Lincoln Drive
Clarksville, Indiana 47129
Line Maintained By
Texas Gas Transmission, LLC
3800 Frederica Street
- Mary Barber
MBarber@Vectren.com
(812) 948-4952

UTILITIES AND RAIL CERTIFICATION NOTE

Jefferson County - HSIP 8732 (017)
FD52 056 1065 000-002
Improvements at the Intersection of KY 1065 (Outer Loop) & KY 1865 (New Cut Rd)
Item No. 5-9010.30

Owensboro, Kentucky 42302
Cell: (270) 485-1152

- | | |
|--|--|
| <p>10. Indiana Utilities Corporation
123 West Chestnut Street
Corydon, Indiana 47112
(812) 738-3235</p> | <p>Scott Schmitt
Office (812) 738-3235
Cell (812) 972-0539
scotts@indianautilitiescorp.com
Corey Thatcher, Field Technician
Office (812) 738-3235
Cell (812) 267-6936
coreyt@indianautilitiescorp.com
Kevin Kinney
Ron Timberlake</p> |
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RTCalfee@SunocoLogistics.com</p> |
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Jeff.Hardy@Jefferson.kyschools.us
(502) 379-9315
Scott McMahan (Team Fishel)
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office: (502) 456-2900</p> |
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111 S. Main St.
Elizabethtown, KY 42071</p> | <p>James Galvin
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Mobile: 270-748-9249
James.Galvin@windstream.com
Mark Ware
Mark.Ware@windstream.com
Send to both contacts
Timothy Gibson
Timothy.Gibson@Windstream.com
Emergency contact ONLY</p> |

UTILITIES AND RAIL CERTIFICATION NOTE

Jefferson County - HSIP 8732 (017)
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Improvements at the Intersection of KY 1065 (Outer Loop) & KY 1865 (New Cut Rd)
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Phone - (216) 750-0135
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- Harold Compton
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UTILITIES AND RAIL CERTIFICATION NOTE

Jefferson County - HSIP 0311 (041)
FD52 056 031W 005-006
Improvements at the Intersection of US 31W (Dixie Hwy) & Pendleton Road
Item No. 5-9010.50

GENERAL PROJECT NOTE ON UTILITY PROTECTION

Utility coordination efforts conducted by the project sponsor have 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

LG&E-gas, Louisville Water Company, Metropolitan Sewer District (MSD), and AT&T all have underground facilities in the project area.

These existing facilities are not to be disturbed and are to remain in place.

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

None

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

None

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

None

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)**

UTILITIES AND RAIL CERTIFICATION NOTE

Jefferson County - HSIP 0311 (041)
FD52 056 031W 005-006
Improvements at the Intersection of US 31W (Dixie Hwy) & Pendleton Road
Item No. 5-9010.50

UNDERGROUND FACILITY DAMAGE PROTECTION – BEFORE YOU DIG

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SPECIAL CAUTION NOTE – PROTECTION OF UTILITIES

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UTILITIES AND RAIL CERTIFICATION NOTE

Jefferson County - HSIP 0311 (041)
FD52 056 031W 005-006
Improvements at the Intersection of US 31W (Dixie Hwy) & Pendleton Road
Item No. 5-9010.50

AREA UTILITIES CONTACT LIST

<u>Utility Company/Agency</u>	<u>Contact Name & Contact Information</u>
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5. Metropolitan Sewer District 700 West Liberty Street Louisville, KY 40203-1911	Brandon Flaherty Brandon.Flaherty@LouisvilleMSD.org Office: (502) 540-6632 Cell: (502) 381-0804 Greg Powell Greg.Powell@LouisvilleMSD.org
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8. Marathon Pipeline, LLC
539 South Main Street, Room X-05-018
Findlay, OH 45840
OR
20-C Industrial Drive
Lexington, OH 44904
9. Indiana Gas Company Inc
d.b.a. Vectren Energy Delivery of Indiana, Inc
or
Ohio River Pipeline Corporation
2520 Lincoln Drive
Clarksville, Indiana 47129
Line Maintained By
Texas Gas Transmission, LLC
3800 Frederica Street
- Kevin Carman
Kevin.Carman@bwpmlp.com
Cell: (270) 779-3893
- Amanda Isom
Amanda.Isom@bwpmlp.com
(270) 688-5854
(270) 231-7629
- Thomas Spargo
trey.spargo@bwpmlp.com
502-438-2408
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ddurnal@marathonpetroleum.com
- Greg Newman
gcneman@marathonpetroleum.com
Office - (419) 884-0800x236
Cell – (419) 564-8826
Send to both contacts above
- Aron Velasquez
Office – (419) 421-3704
advelasquez@marathonpetroleum.com
- Mary Barber
MBarber@Vectren.com
(812) 948-4952

UTILITIES AND RAIL CERTIFICATION NOTE

Jefferson County - HSIP 0311 (041)
FD52 056 031W 005-006
Improvements at the Intersection of US 31W (Dixie Hwy) & Pendleton Road
Item No. 5-9010.50

Owensboro, Kentucky 42302
Cell: (270) 485-1152

- | | |
|---|--|
| 10. Indiana Utilities Corporation
123 West Chestnut Street
Corydon, Indiana 47112
(812) 738-3235 | Scott Schmitt
Office (812) 738-3235
Cell (812) 972-0539
scotts@indianautilitiescorp.com
Corey Thatcher, Field Technician
Office (812) 738-3235
Cell (812) 267-6936
coreyt@indianautilitiescorp.com
Kevin Kinney
Ron Timberlake |
| 11. Sprint - Fiber Optics
11370 Enterprise Park Dr.
Sharonville, OH 45241 | Steven T. Hughes
Steven.Hughes@sprint.com
Office (513) 459-5796
Cell (513) 462-7221 |
| 12. Mid - Valley Pipeline Company
4910 Limaburg Road
Burlington, KY 41005
FAX (866) 699-1185 | Richard (Todd) Calfee
(859) 371-4469x14
Cell: 859-630-8271
RTCalfee@SunocoLogistics.com |
| 14. Jefferson County Public Schools (JCPS)
C B Young
Building 7
3001 Crittenden Dr.
Louisville, KY 40209 | Jeff Hardy
Jeff.Hardy@Jefferson.kyschools.us
(502) 379-9315
Scott McMahan (Team Fishel)
cell: (502) 664-9312
office: (502) 456-2900 |
| 15. Kentucky Data Link (KDL now Windstream)
111 S. Main St.
Elizabethtown, KY 42071 | James Galvin
Office: 270-765-1818
Mobile: 270-748-9249
James.Galvin@windstream.com
Mark Ware
Mark.Ware@windstream.com
Send to both contacts
Timothy Gibson
Timothy.Gibson@Windstream.com
Emergency contact ONLY |

UTILITIES AND RAIL CERTIFICATION NOTE

Jefferson County - HSIP 0311 (041)
FD52 056 031W 005-006
Improvements at the Intersection of US 31W (Dixie Hwy) & Pendleton Road
Item No. 5-9010.50

- 16.** AT&T Legacy
7555 E. Pleasant Valley Rd. – Suite 140
Independence, OH 44131
- Mike Diederich
MD4145@att.com
Phone - (216) 750-0135
Cell - (216) 212-8556
Don Garr
DRGarr@Hughes.net
Cell - (502) 741-8374
Send to both contacts
- 17.** City of Taylorsville Sewer & Water
70 Taylorsville Rd., P O Box 279
Taylorsville, KY 40071
Consultant: Kevin Sisler
220 Reynolds Rd
Lexington, KY 40517
- Harold Compton
HCompton@TaylorsvilleWater.org
(502) 477-3235
Fax: (502) 477-1310
Kevin.@SislerMaggard.com
(859) 271-2978 (859) 509-3799
Steve Biven-City Clerk
SBiven@taylorsvillewater.org
(502) 477-3235 ext. 106
- 18.** CenturyLink
260 Winn Ave
Winchester, KY 40391
- CenturyLink National Network Construction
3625 Brookside Parkway Suite 400
Alpharetta, GA 30022
- Jim Trapnell
jim.trapnell@centurylink.com
Cell (859) 806-5833
- Chad Kirkland
Chadrick.kirkland@centurylink.com
Cell (770) 328-2449
- 19.** Shelby Energy Cooperative
P.O. Box 311, 620 Old Finchville Road
Shelbyville, KY 40065
(502) 633-4420
- Jason Ginn
Jason@ShelbyEnergy.com
cell: 502-643-2778
- 20.** Atmos Energy
105 Hudson Blvd
Shelbyville, KY 40065
- Jake Basham
cell: (270) 779-7381
Jake.Basham@AtmosEnergy.com
Silas Bohlen
Silas.Bohlen@atmosenergy.com
Cell: (270) 570-0445
Send to both contacts

UTILITIES AND RAIL CERTIFICATION NOTE

Jefferson County - HSIP 0311 (041)
FD52 056 031W 005-006
Improvements at the Intersection of US 31W (Dixie Hwy) & Pendleton Road
Item No. 5-9010.50

- | | |
|--|--|
| 21. Crown Castle Network Operations
10300 Ormsby Park Place
Suite 501
Louisville, KY 40223 | Rebecca Gray
rebecca.gray@CrownCastle.com
(502)318-1313
Chris Gladstone
Chris.Gladstone@CrownCastle.com
(502) 689-2162 |
| 22. Zayo
9209 Castlegate Dr
Indianapolis, IN 46256 | Ryan Burns
ryan.burns@zayo.com
Office: (317) 296-6048
Cell: (812) 589-9314 |
| 23. MCI/Verizon(Owns WUTEL)
MCI/Verizon
730 West Henry Street
Indianapolis, IN 46225 | Dean Boyers
dean.boyers@verizon.com
Office: (615) 777-7855
Cell: (615) 507-5287

Moeed Ahmed
moeed.ahmed2@verizonwireless.com
502-663-3219
2421 Holloway Rd
Louisville, KY 40299

Dave Wiley (Field)
(502) 439-8783
dave.wiley@verizon.com |
| 24. TRIMARC
Public Safety & Transportation Systems
901 West Main Street
Louisville, KY 40202 | Todd Hood
Todd.Hood@ngc.com
Office: (502) 290-7201
Cell: (270) 307-7456 |
| 25. Lighttower/Fibertech
3310 Ruckreigel Parkway
Jeffersontown, KY 40299 | Mike Prather
Office- (585) 445-5823
Cell: (502) 612-3102
mprather@lighttower.com |
| 26. Google Fiber
101 N. 7th Street, Ste 400
Louisville, KY 40202 | Lewis Roberts
423-430-9853
lewisrobertsjr@google.com |

UTILITIES AND RAIL CERTIFICATION NOTE

Jefferson County - HSIP 0311 (041)
FD52 056 031W 005-006
Improvements at the Intersection of US 31W (Dixie Hwy) & Pendleton Road
Item No. 5-9010.50

27. Kentucky Wired
209 St. Clair Street, 4th Floor
Frankfort, KY 40601

Jesse Quirion
650-214-3032
iquirion@google.com

Mike Hayden, Chief Operating Officer
Office 502-782-2535
Mike.Hayden@ky.gov

Harold Waters
Lead Engineering Specialist, Black&Veatch
Office (913) 458-1584
Cell (502) 612-8495
watershw@bv.com

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.

MATERIAL SUMMARY

CONTRACT ID: 194101

121GR19T002-HSIP

050560031W1901

DIXIE HIGHWAY (US 31W) IMPROVEMENTS AT THE INTERSECTION OF US 31W AND PENDELTON RD
SIDEWALK CONSTRUCTION.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0750	01812	REMOVE CURB AND GUTTER	32.00	LF
0755	02200	ROADWAY EXCAVATION	8.00	CUYD
0760	02650	MAINTAIN & CONTROL TRAFFIC - (JEFFERSON CO-US 31W @ PENDELTON RD)	1.00	LS
0765	02701	TEMP SILT FENCE	44.00	LF
0770	02720	SIDEWALK-4 IN CONCRETE	37.00	SQYD
0775	02726	STAKING - (JEFFERSON CO - US 31W @ PENDELTON RD)	1.00	LS
0780	05952	TEMP MULCH	74.00	SQYD
0785	05953	TEMP SEEDING AND PROTECTION	56.00	SQYD
0790	05985	SEEDING AND PROTECTION	66.00	SQYD
0795	06540	PAVE STRIPING-THERMO-4 IN W	118.00	LF
0800	06544	PAVE STRIPING-THERMO-8 IN W	86.00	LF
0805	06565	PAVE MARKING-THERMO X-WALK-6 IN	394.00	LF
0810	06568	PAVE MARKING-THERMO STOP BAR-24IN	40.00	LF
0815	06598	PAVEMENT MARKING REMOVAL	80.00	SQFT
0820	23158ES505	DETECTABLE WARNINGS	79.00	SQFT
0825	00462	CULVERT PIPE-18 IN	24.00	LF
0830	01310	REMOVE PIPE	2.00	LF
0835	21819NN	FITTINGS	1.00	EACH
0840	02569	DEMOBILIZATION	1.00	LS

CONTRACT ID: 194101

121GR19T002-HSIP

0505600611901

PRESTON HIGHWAY (KY 61) IMPROVEMENTS AT THE INTERSECTION OF PRESTON HIGHWAY (KY 61) AND
GRADE LANE
(CR 1001G) JPC PAVEMENT WITH GRADE & DRAIN.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0005	00001	DGA BASE	51.00	TON
0010	02073	JPC PAVEMENT-9 IN	118.00	SQYD
0015	20550ND	SAWCUT PAVEMENT	207.00	LF
0020	01811	STANDARD CURB AND GUTTER MOD - (9 INCH)	207.00	LF
0025	01875	STANDARD HEADER CURB	135.00	LF
0030	02200	ROADWAY EXCAVATION	125.00	CUYD
0035	02562	TEMPORARY SIGNS	183.00	SQFT
0040	02650	MAINTAIN & CONTROL TRAFFIC - (JEFFERSON CO - KY 61 @ GRADE LANE)	1.00	LS
0045	02671	PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH
0050	02701	TEMP SILT FENCE	106.00	LF
0055	02720	SIDEWALK-4 IN CONCRETE	192.00	SQYD

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0060	02721	REMOVE CONCRETE SIDEWALK	76.00	SQYD
0065	02726	STAKING - (JEFFERSON CO - KY 61 @ GRADE LANE)	1.00	LS
0070	05950	EROSION CONTROL BLANKET	49.00	SQYD
0075	05952	TEMP MULCH	296.00	SQYD
0080	05953	TEMP SEEDING AND PROTECTION	222.00	SQYD
0085	05964	MAINTENANCE FERTILIZER	.01	TON
0090	05990	SODDING	49.00	SQYD
0095	05992	AGRICULTURAL LIMESTONE	.06	TON
0100	06514	PAVE STRIPING-PERM PAINT-4 IN	2,242.00	LF
0105	06516	PAVE STRIPING-PERM PAINT-8 IN	462.00	LF
0110	06544	PAVE STRIPING-THERMO-8 IN W	226.00	LF
0115	06565	PAVE MARKING-THERMO X-WALK-6 IN	355.00	LF
0120	06568	PAVE MARKING-THERMO STOP BAR-24IN	80.00	LF
0125	06569	PAVE MARKING-THERMO CROSS-HATCH	1,545.00	SQFT
0130	06574	PAVE MARKING-THERMO CURV ARROW	9.00	EACH
0135	06576	PAVE MARKING-THERMO ONLY	6.00	EACH
0140	06598	PAVEMENT MARKING REMOVAL	549.00	SQFT
0145	08100	CONCRETE-CLASS A	5.00	CUYD
0150	22664EN	WATER BLASTING EXISTING STRIPE	261.00	LF
0155	22692NS714	PAVEMENT MARKING-THERMO LETTERS	14.00	EACH
0160	23158ES505	DETECTABLE WARNINGS	98.00	SQFT
0165	24899EC	PAVE MARKING-THERMO ELONG ROUTE SHIELD	2.00	EACH
0170	06406	SBM ALUM SHEET SIGNS .080 IN	172.00	SQFT
0175	06407	SBM ALUM SHEET SIGNS .125 IN	145.00	SQFT
0180	06410	STEEL POST TYPE 1	318.00	LF
0185	06490	CLASS A CONCRETE FOR SIGNS	3.00	CUYD
0190	21373ND	REMOVE SIGN	16.00	EACH
0195	21596ND	GMSS TYPE D	12.00	EACH
0200	21596ND	GMSS TYPE D - SURFACE MOUNT	3.00	EACH
0205	24631EC	BARCODE SIGN INVENTORY	68.00	EACH
0210	14081	W SERVICE RELOCATE	1.00	EACH
0215	04792	CONDUIT-1 IN	30.00	LF
0220	04795	CONDUIT-2 IN	690.00	LF
0225	04811	ELECTRICAL JUNCTION BOX TYPE B	5.00	EACH
0230	20391NS835	ELECTRICAL JUNCTION BOX TYPE A	2.00	EACH
0235	04820	TRENCHING AND BACKFILLING	500.00	LF
0240	04830	LOOP WIRE	1,450.00	LF
0245	04844	CABLE-NO. 14/5C	3,000.00	LF
0250	04850	CABLE-NO. 14/1 PAIR	750.00	LF
0255	04885	MESSENGER-10800 LB	726.00	LF
0260	04895	LOOP SAW SLOT AND FILL	1,200.00	LF
0265	04931	INSTALL CONTROLLER TYPE 170	1.00	EACH
0270	04932	INSTALL STEEL STRAIN POLE	6.00	EACH
0275	24955ED	REMOVE SIGNAL EQUIPMENT	1.00	EACH
0280	06472	INSTALL SPAN MOUNTED SIGN	4.00	EACH
0285	20093NS835	INSTALL PEDESTRIAN HEAD-LED	6.00	EACH
0290	20094ES835	TEMP RELOCATION OF SIGNAL HEAD	9.00	EACH
0295	20188NS835	INSTALL LED SIGNAL-3 SECTION	12.00	EACH
0300	20266ES835	INSTALL LED SIGNAL- 4 SECTION	1.00	EACH
0305	20390NS835	INSTALL COORDINATING UNIT	1.00	EACH

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0310	21543EN	BORE AND JACK CONDUIT	380.00	LF
0315	21743NN	INSTALL PEDESTRIAN DETECTOR	6.00	EACH
0320	23157EN	TRAFFIC SIGNAL POLE BASE	25.40	CUYD
0325	24900EC	PVC CONDUIT-1 1/4 IN-SCHEDULE 80	110.00	LF
0330	24901EC	PVC CONDUIT-2 IN-SCHEDULE 80	110.00	LF
0335	23222EC	INSTALL SIGNAL PEDESTAL	4.00	EACH
0340	02569	DEMOBILIZATION	1.00	LS
0345	24683ED	PAVE MARKING-THERMO DOTTED LANE EXTEN - (6 INCH)	27.00	LF
0350	04701	POLE 40 FT MTG HT	1.00	EACH
0355	04723	BRACKET 10 FT	1.00	EACH
0360	04740	POLE BASE	1.00	EACH
0365	04750	TRANSFORMER BASE	1.00	EACH
0370	04780	FUSED CONNECTOR KIT	8.00	EACH
0375	04832	WIRE-NO. 12	800.00	LF
0380	04833	WIRE-NO. 8	2,000.00	LF
0385	04940	REMOVE LIGHTING	1.00	LS
0390	24589ED	LED LUMINAIRE	4.00	EACH

CONTRACT ID: 194101

121GR19T002-HSIP

0505610651901

OUTER LOOP (KY 1065) IMPROVEMENTS AT THE INTERSECTION OF OUTER LOOP (KY 1065) AND NEW CUT RD (KY 1865) ASPHALT SURFACE WITH GRADE & DRAIN.

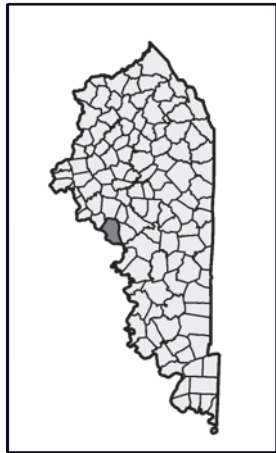
Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0395	00001	DGA BASE	237.00	TON
0400	00212	CL2 ASPH BASE 1.00D PG64-22	503.00	TON
0405	00356	ASPHALT MATERIAL FOR TACK	1.50	TON
0410	02101	CEM CONC ENT PAVEMENT-8 IN	203.00	SQYD
0415	20550ND	SAWCUT PAVEMENT	795.00	LF
0420	21289ED	LONGITUDINAL EDGE KEY	795.00	LF
0425	24685EC	CL2 ASPH SURF 0.38A PG64-22	59.00	TON
0430	01811	STANDARD CURB AND GUTTER MOD	428.00	LF
0435	01812	REMOVE CURB AND GUTTER	472.00	LF
0440	01830	STANDARD INTEGRAL CURB	17.00	LF
0445	01987	DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	5.00	EACH
0450	02159	TEMP DITCH	396.00	LF
0455	02160	CLEAN TEMP DITCH	198.00	LF
0460	02200	ROADWAY EXCAVATION	383.00	CUYD
0465	02351	GUARDRAIL-STEEL W BEAM-S FACE	87.50	LF
0470	02363	GUARDRAIL CONNECTOR TO BRIDGE END TY A	1.00	EACH
0475	02367	GUARDRAIL END TREATMENT TYPE 1	1.00	EACH
0480	02381	REMOVE GUARDRAIL	144.00	LF
0485	02562	TEMPORARY SIGNS	144.00	SQFT
0490	02650	MAINTAIN & CONTROL TRAFFIC - (JEFFERSON CO - KY 1065 @ KY 1865)	1.00	LS
0495	02671	PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0500	02701	TEMP SILT FENCE	396.00	LF
0505	02720	SIDEWALK-4 IN CONCRETE	72.00	SQYD
0510	02721	REMOVE CONCRETE SIDEWALK	90.00	SQYD
0515	02726	STAKING - (JEFFERSON CO - KY 1065 @ KY 1865)	1.00	LS
0520	05950	EROSION CONTROL BLANKET	617.00	SQYD
0525	05952	TEMP MULCH	1,156.00	SQYD
0530	05953	TEMP SEEDING AND PROTECTION	867.00	SQYD
0535	05963	INITIAL FERTILIZER	.04	TON
0540	05964	MAINTENANCE FERTILIZER	.06	TON
0545	05985	SEEDING AND PROTECTION	602.00	SQYD
0550	05992	AGRICULTURAL LIMESTONE	.74	TON
0555	06514	PAVE STRIPING-PERM PAINT-4 IN	4,266.00	LF
0560	06565	PAVE MARKING-THERMO X-WALK-6 IN	680.00	LF
0565	06568	PAVE MARKING-THERMO STOP BAR-24IN	160.00	LF
0570	06574	PAVE MARKING-THERMO CURV ARROW	12.00	EACH
0575	06598	PAVEMENT MARKING REMOVAL	319.00	SQFT
0580	08100	CONCRETE-CLASS A	1.00	CUYD
0585	08104	CONCRETE-CLASS AA	4.00	CUYD
0590	08150	STEEL REINFORCEMENT	55.00	LB
0595	23158ES505	DETECTABLE WARNINGS	77.00	SQFT
0600	00524	STORM SEWER PIPE-24 IN	8.00	LF
0605	01490	DROP BOX INLET TYPE 1	1.00	EACH
0610	01550	DROP BOX INLET TYPE 12A	39.00	LF
0615	01585	REMOVE DROP BOX INLET	1.00	EACH
0620	06406	SBM ALUM SHEET SIGNS .080 IN	16.00	SQFT
0625	06407	SBM ALUM SHEET SIGNS .125 IN	10.00	SQFT
0630	06410	STEEL POST TYPE 1	58.00	LF
0635	21134ND	REMOVE-STORE AND REINSTALL SIGN	2.00	EACH
0640	21373ND	REMOVE SIGN	5.00	EACH
0645	24631EC	BARCODE SIGN INVENTORY	6.00	EACH
0650	04792	CONDUIT-1 IN	30.00	LF
0655	04811	ELECTRICAL JUNCTION BOX TYPE B	2.00	EACH
0660	04820	TRENCHING AND BACKFILLING	120.00	LF
0665	04830	LOOP WIRE	1,500.00	LF
0670	04844	CABLE-NO. 14/5C	3,300.00	LF
0675	04850	CABLE-NO. 14/1 PAIR	1,000.00	LF
0680	04885	MESSENGER-10800 LB	250.00	LF
0685	04895	LOOP SAW SLOT AND FILL	600.00	LF
0690	04932	INSTALL STEEL STRAIN POLE	1.00	EACH
0695	20093NS835	INSTALL PEDESTRIAN HEAD-LED	2.00	EACH
0700	20094ES835	TEMP RELOCATION OF SIGNAL HEAD	6.00	EACH
0705	20188NS835	INSTALL LED SIGNAL-3 SECTION	8.00	EACH
0710	20266ES835	INSTALL LED SIGNAL- 4 SECTION	2.00	EACH
0715	21743NN	INSTALL PEDESTRIAN DETECTOR	4.00	EACH
0720	23157EN	TRAFFIC SIGNAL POLE BASE	5.50	CUYD
0725	23235EC	INSTALL PEDESTAL POST	1.00	EACH
0730	24900EC	PVC CONDUIT-1 1/4 IN-SCHEDULE 80	110.00	LF
0735	23222EC	INSTALL SIGNAL PEDESTAL	1.00	EACH
0740	04884	ANCHOR	4.00	EACH
0745	02569	DEMOBILIZATION	1.00	LS

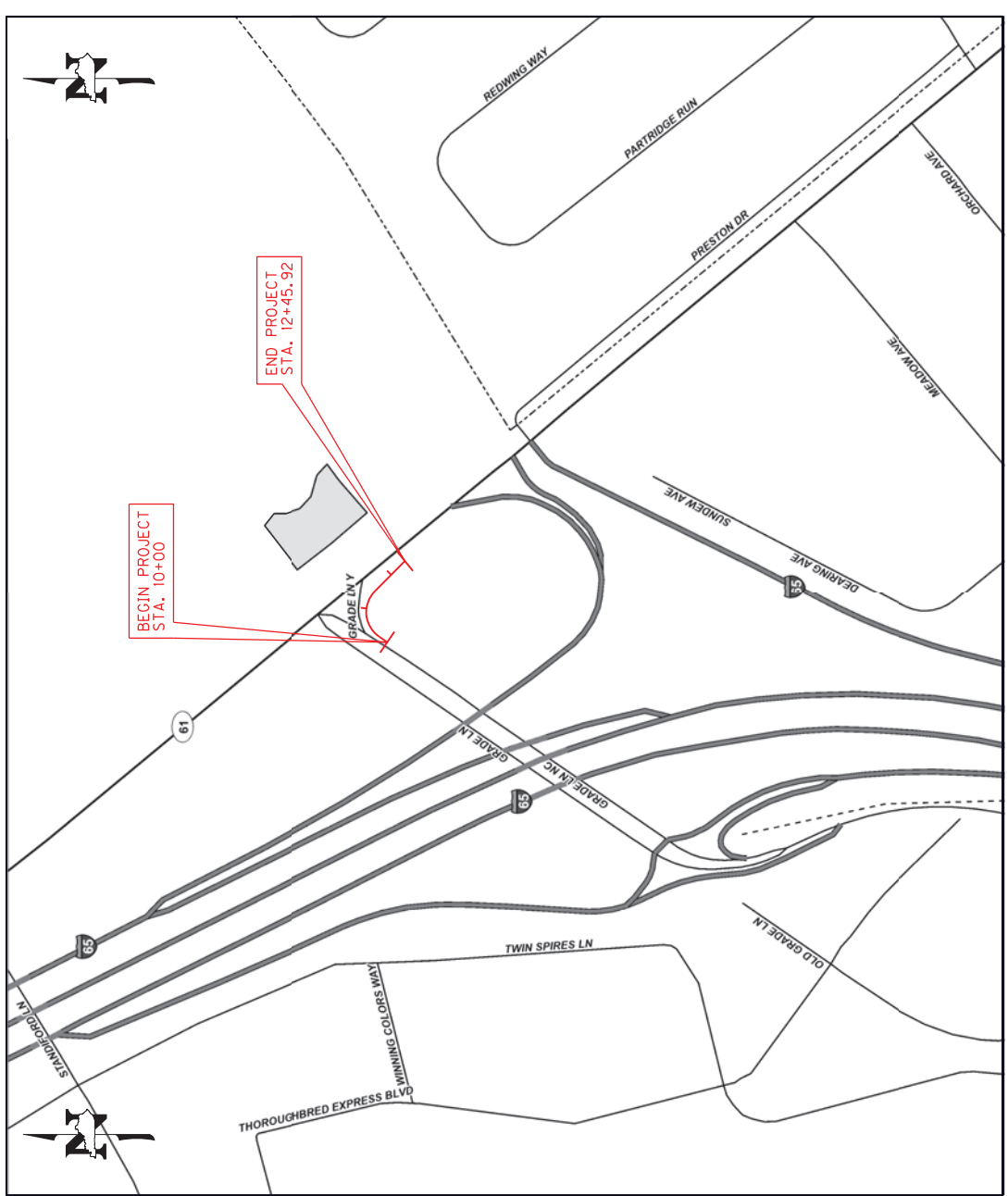
COUNTY OF	ITEM NO.
JEFFERSON	5-9010.10

JEFFERSON COUNTY
Intersection Improvement at
Grade Lane and Preston Highway



Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS

PLANS OF
PROPOSED PROJECT
JEFFERSON COUNTY
GRADE LANE / PRESTON HIGHWAY



JEFFERSON COUNTY				
KY 61 (PRESTON HWY) @ GRADE LN				
ITEM NO. 5-9010.10				
GENERAL SUMMARY				
ITEM NUMBER	ITEM		UNIT	QUANTITY
1	DGA BASE	(1)	TON	51
1811	STANDARD CURB AND GUTTER MOD (9 INCH)	(1)	LF	207
1875	STANDARD HEADER CURB	(1)	LF	135
2073	JPC PAVEMENT-9 IN	(1)	SQYD	118
2200	ROADWAY EXCAVATION	(1) (2)	CUYD	125
2562	TEMPORARY SIGNS		SQFT	183
2569	DEMOBILIZATION		LS	1
2650	MAINTAIN & CONTROL TRAFFIC (JEFFERSON CO - KY 61 @ GRADE LANE)		LS	1
2671	PORTABLE CHANGEABLE MESSAGE SIGN		EACH	2
2701	TEMP SILT FENCE		LF	106
2720	SIDEWALK-4 IN CONCRETE	(1)	SQYD	192
2721	REMOVE CONCRETE SIDEWALK	(1)	SQYD	76
2726	STAKING (JEFFERSON CO - KY 61 @ GRADE LANE)		LS	1
4885	MESSENGER-10800 LB	(4)	LF	176
4932	INSTALL STEEL STRAIN POLE	(4)	EACH	2
5950	EROSION CONTROL BLANKET		SQYD	49
5952	TEMP MULCH		SQYD	296
5953	TEMP SEEDING AND PROTECTION		SQYD	222
5964	MAINTENANCE FERTILIZER		TON	0.01
5990	SODDING		SQYD	49
5992	AGRICULTURAL LIMESTONE		TON	0.06
6406	SBM ALUM SHEET SIGNS .080 IN	(3)	SQFT	172
6407	SBM ALUM SHEET SIGNS .125 IN	(3)	SQFT	145
6410	STEEL POST TYPE 1	(3)	LF	318
6472	INSTALL SPAN MOUNTED SIGN	(3) (4)	EACH	3
6490	CLASS A CONCRETE FOR SIGNS	(3)	CUYD	3
6514	PAVE STRIPING-PERM PAINT-4 IN		LF	2,242
6516	PAVE STRIPING-PERM PAINT-8 IN		LF	435
6544	PAVE STRIPING-THERMO-8 IN W		LF	226
6565	PAVE MARKING-THERMO X-WALK-6 IN		LF	355
6568	PAVE MARKING-THERMO STOP BAR-24 IN		LF	80
6569	PAVE MARKING-THERMO CROSS-HATCH		SQFT	1,545
6574	PAVE MARKING-THERMO CURVE ARROW		EACH	9
6576	PAVE MARKING-THERMO ONLY		EACH	6
6598	PAVMENT MARKING REMOVAL		SQFT	549
8100	CONCRETE-CLASS A	(1)	CUYD	5
14081	W SERVICE RELOCATE		EACH	1
20550ND	SAWCUT PAVEMENT	(1)	LF	207
21373ND	REMOVE SIGN	(3)	EACH	16
21596ND	GMSS TYPE D	(3)	EACH	12
21596ND	GMSS TYPE D SURFACE MOUNT	(3)	EACH	3
22664EN	WATER BLASTING EXISTING STRIPE		LF	261
22692NS714	PAVEMENT MARKING-THERMO LETTERS		EACH	14
23157EN	TRAFFIC SIGNAL POLE BASE	(4)	CUYD	6.6
23158ES505	DETECTABLE WARNINGS	(1)	SQFT	98
24631EC	BARCODE SIGN INVENTORY	(3)	EACH	68
24683ED	PAVE MARKING-THERMO DOTTED LANE EXTEN (6 IN)		LF	27
24899EC	PAVE MARKING-THERMO ELONG ROUTE SHIELD		EACH	2
<p>(1) CARRIED OVER FROM THE PAVING SUMMARY</p> <p>(2) ESTIMATES OF EARTHWORK QUANTITIES ARE FOR DESIGN ONLY. THE CONTRACTOR IS ADVISED THAT THE EARTHWORK CALCULATIONS ARE FOR INFORMATIONAL PURPOSES ONLY. ASSUMPTIONS FOR SHRINKAGE AND SWELL FACTORS ARE THE CONTRACTOR'S RESPONSIBILITY.</p> <p>(3) CARRIED OVER FROM THE SIGNING SUMMARY</p> <p>(4) BID ITEMS FOR THE INSTALL OF OVERHEAD SIGNS OVER GRADE LANE. REFER TO THE SIGNING SUMMARY, PLAN SHEETS, AND DETAIL SHEETS FOR MORE INFORMATION.</p>				

JEFFERSON COUNTY KY 61 (PRESTON HWY) @ GRADE LN ITEM NO. 5-9010.10 PAVING SUMMARY			
PAVING AREAS		PAVING QUANTITIES	
ITEM	TOTAL	ITEM	TOTAL
RECONSTRUCT RIGHT TURN RADIUS		RECONSTRUCT RIGHT TURN RADIUS	
4" DGA BASE	200	DGA BASE	46
9" JPC PAVEMENT-9 IN	118		
	LF		
SAWCUT PAVEMENT	207		
SIDEWALK ALONG GRADE LANE RIGHT TURN		SIDEWALK ALONG GRADE LANE RIGHT TURN	
CONSTRUCT STANDARD CURB AND GUTTER	207		
	CY	(INCLUDES REMOVAL OF EXISTING CURB & GUTTER AND EXISTING SIDEWALK)	
ROADWAY EXCAVATION	125		
	SY		
SIDEWALK 4-IN CONCRETE	116		
	SF		
DETECTABLE WARNINGS	23		
PROPOSED PEDESTRIAN REFUGE ISLANDS		PROPOSED PEDESTRIAN REFUGE ISLANDS	
STANDARD HEADER CURB	135		
	SY		TON
2" DGA BASE	38	DGA BASE	5
	CY		
4" CONCRETE-CLASS A	5		
	SF		
DETECTABLE WARNINGS	42		
PROPOSED SIDEWALK RAMPS		PROPOSED SIDEWALK RAMPS	
REMOVE CONCRETE SIDEWALK	23		
SIDEWALK 4-IN CONCRETE	23		
	SF		
DETECTABLE WARNINGS	33		
EXISTING SIDEWALK RAMPS TO BE REMOVED		EXISTING SIDEWALK RAMPS TO BE REMOVED	
REMOVE CONCRETE SIDEWALK	53		
SIDEWALK 4-IN CONCRETE	53		
PAVING SUMMARY			
CODE	ITEM	UNITS	PROJECT TOTAL
1	DGA BASE	TON	51
1811	STANDARD CURB AND GUTTER MOD (9 INCH)	LF	207
1875	STANDARD HEADER CURB	LF	135
2073	JPC PAVEMENT-9IN	SQYD	118
2200	ROADWAY EXCAVATION	CUYD	125
2720	SIDEWALK-4 IN CONCRETE	SQYD	192
2721	REMOVE CONCRETE SIDEWALK	SQYD	76
8100	CONCRETE-CLASS A	CUYD	5
20550ND	SAWCUT PAVEMENT	LF	207
23158ES505	DETECTABLE WARNINGS	SQFT	98
NOTES:			
DGA Base estimated at 115 lbs. per SQ. YD. per inch of depth			

**JEFFERSON COUNTY
KY 61 (PRESTON HWY) @ GRADE LANE
ITEM NO. 5-9010.10
SIGNING SUMMARY (1 OF 2)**

SIGN ASSEMBLY NUMBER	STATION	SIGN SPECIFICATION	SIGN LOCATION		SIGN SIZE			NORTHING	EASTING	INSTALLATION TYPE	COMMENTS
			SIDE OF ROAD	FACING TRAFFIC TRAVELING	HORIZ. X VERT.	.080 ALUM AREA	.125 ALUM AREA				
S1	2+90	M4-5	RT (GRADE LANE)	NB	24" X 12"	2		3952537.294	4929835.299	MOUNT TO POLE	MOUNT TO EXISTING LUMINAIRE POLE
		M3-1			24" X 12"	2					
		M1-1			24" X 24"	4					
		M5-6			24" X 18"	3					
S2	5+40	M2-1	RT (GRADE LANE)	NB	21" X 15"	2.2		3952744.552	4929978.572	Stnd w/ Soil Plate	
		M1-5			24" X 24"	4					
---	8+25	---	RT (GRADE LANE)	NB	---			3952975.705	4930142.226		REMOVE EXISTING SIGNS (2)
S3	8+85	R5-1a	RT (GRADE LANE)	SB	42" X 30"		8.8	3953028.352	4930175.801	MOUNT TO POLE	REMOVE EXISTING SIGN (1) MOUNT TO PROPOSED POLE
S4	8+85	M3-1	WIRE (GRADE LANE)	NB	24" X 12"	2		---	---	OVERHEAD WIRE	INSTALL OVERSIZED SIGNS ON OVERHEAD WIRE OVER CENTER OF LEFT LANE
		M1-5			24" X 24"	4					
		M5-4			24" X 18"	3					
S5	8+85	M3-3	WIRE (GRADE LANE)	NB	24" X 12"	2		---	---	OVERHEAD WIRE	INSTALL OVERSIZED SIGNS ON OVERHEAD WIRE OVER CENTER OF CENTER LANE
		M1-5			24" X 24"	4					
		M5-5			24" X 18"	3					
S6	8+85	M4-5	WIRE (GRADE LANE)	NB	24" X 12"	2		---	---	OVERHEAD WIRE	INSTALL OVERSIZED SIGNS ON OVERHEAD WIRE OVER CENTER OF RIGHT LANE
		M3-1			24" X 12"	2					
		M1-1			24" X 24"	4					
		M5-6			24" X 18"	3					
S7	10+35	M4-5	RT (GRADE LANE)	NB	24" X 12"	2		3953149.874	4930262.657	Stnd w/ Soil Plate	REMOVE EXISTING SIGNS (3)
		M3-1			24" X 12"	2					
		M1-1			24" X 24"	4					
		M6-1			21" X 15"	2.2					
S8	10+70	M1-5	MED (GRADE LANE)	NB	24" X 24"	4		3953220.721	4930269.588	TYPE D SURFACE MOUNT	INSTALL ON ISLAND USING TY D SURFACE MOUNT
		M6-4			21" X 15"	2.2					
S9	11+41	R10-17a	WIRE (KY 61)	NB	---			---	---	OVERHEAD WIRE	SIGN TO BE INSTALLED ON SIGNAL WIRE NEXT TO SIGNAL FOR RIGHT TURN LANE. SEE SIGNAL PLAN.
S10	SIGN NOT USED										
S11	9+60	Custom	LT (GRADE LANE)	SB	72" X 48"		24	3953140.887	4930141.462	TYPE D	INSTALL USING TYPE D BREAKAWAY SIGN SUPPORT
S12	2+75	Custom	LT (GRADE LANE)	SB	72" X 48"		24	3953140.887	4930141.462	TYPE D	REMOVE EXISTING SIGN (1) INSTALL USING TYPE D BREAKAWAY SIGN SUPPORT
S13	12+25	M4-5	LT (KY 61)	SB	24" X 12"	2		3953093.112	4930403.502	TYPE D	REMOVE EXISTING SIGN (1) INSTALL USING TYPE D BREAKAWAY SIGN SUPPORT.
		M1-1			30" X 24"	5					
		M3-1			24" X 12"	2					
		M1-1			24" X 24"	4					
		M5-6			24" X 18"	3					
S14	12+25	I-5	LT (KY 61)	SB	24" X 24"	4		3953093.112	4930403.502	Stnd w/ Soil Plate	
		M5-6			24" X 18"	3					
S15	---	Custom	LT (KY 61)	SB	72" X 48"		24	3952950.648	4930523.312	TYPE D	INSTALL USING TYPE D BREAKAWAY SIGN SUPPORT
S16	---	M3-1	MED (KY 61)	SB	24" X 12"	2		3952859.528	4930587.712	TYPE D SURFACE MOUNT	INSTALL ON ISLAND USING TY D SURFACE MOUNT
		M1-1			24" X 24"	4					
		M6-2			21" X 15"	2.2					
S16A	---	M3-1	MED (KY 61)	NB	24" X 12"	2		3952825.537	4930617.529	TYPE D SURFACE MOUNT	INSTALL ON ISLAND USING TY D SURFACE MOUNT. BRACING REQUIRED.
		M1-1			24" X 24"	4					
		M6-2a			21" X 15"	2.2					
S16B	---	M4-5	MED (KY 61)	NB	24" X 12"	2		3952825.537	4930617.529	TYPE D SURFACE MOUNT	INSTALL ON ISLAND USING TY D SURFACE MOUNT. BRACING REQUIRED.
		M1-1			24" X 24"	4					
		M6-2a			21" X 15"	2.2					
S17	---	M4-5	RT (KY 61)	NB	24" X 12"	2		3952881.317	4930694.329	TYPE D	REMOVE EXISTING SIGN (2) INSTALL USING TYPE D BREAKAWAY SIGN SUPPORT. REQUIRES BRACING. REQUIRES 2-1/2" POST WITH 2-1/4" STIFFENER.
		M1-1			24" X 24"	4					
		M3-1			24" X 12"	2					
		M1-1			30" X 24"	5					
		M6-1			21" X 15"	2.2					
S18	---	M3-3	RT (KY 61)	NB	24" X 12"	2		3953107.248	4930504.986	Stnd w/ Soil Plate	REMOVE EXISTING SIGNS (2)
		M1-1			24" X 24"	4					
		M6-3			21" X 15"	2.2					
S19	---	D3-2	RT (KY 61)	NB	54" X 30"		11.3	3953107.248	4930504.986	Stnd w/ Soil Plate	REMOVE EXISTING SIGNS (2)
S20	---	Custom	RT (KY 61)	NB	72" X 48"		24	3953282.669	4930364.250	TYPE D	INSTALL USING TYPE D BREAKAWAY SIGN SUPPORT

**JEFFERSON COUNTY
KY 61 (PRESTON HWY) @ GRADE LANE
ITEM NO. 5-9010.10
SIGNING SUMMARY (2 OF 2)**

SIGN ASSEMBLY NUMBER	STATION	SIGN SPECIFICATION	SIGN LOCATION		SIGN SIZE			NORTHING	EASTING	INSTALLATION TYPE	COMMENTS
			SIDE OF ROAD	FACING TRAFFIC TRAVELING	HORIZ. X VERT.	.080 ALUM AREA	.125 ALUM AREA				
S21	---	D3-2	LT (KY 61)	SB	54" X 30"		11.3	3953531.493	4930038.342	Stnd w/ Soil Plate	REMOVE EXISTING SIGN (1)
S22	---	D1-3	LT (KY 61)	SB	60" X 42"		17.5	3953464.843	4930093.261	Stnd w/ Soil Plate	
S23	---	M3-3	LT (KY 61)	SB	24" X 12"	2	3953385.456	4930161.015	Stnd w/ Soil Plate		
		M1-1			24" X 24"	4					
		M5-1			21" X 15"	2.2					
S24	---	M3-3	LT (KY 61)	SB	24" X 12"	2	3953320.523	4930214.715	TYPE D	REMOVE EXISTING SIGN (3) INSTALL USING TYPE D BREAKAWAY SIGN SUPPORT. REQUIRES BRACING. REQUIRES 2-1/2" POST WITH 2-1/4" STIFFENER.	
		M1-1			24" X 24"	4					
		M6-1			21" X 15"	2.2					
S25	---	M4-5	LT (KY 61)	SB	24" X 12"	2	3953320.523	4930214.715	TYPE D	REMOVE EXISTING SIGN (3) INSTALL USING TYPE D BREAKAWAY SIGN SUPPORT. REQUIRES BRACING. REQUIRES 2-1/2" POST WITH 2-1/4" STIFFENER.	
		M1-1			30" X 24"	5					
		M3-1			24" X 12"	2					
		M1-1			24" X 24"	4					
S26	---	I-5	LT (KY 61)	SB	24" X 24"	4	3953320.523	4930214.715	TYPE D	REMOVE EXISTING SIGN (3) INSTALL USING TYPE D BREAKAWAY SIGN SUPPORT. REQUIRES BRACING. REQUIRES 2-1/2" POST WITH 2-1/4" STIFFENER.	
		M6-3			21" X 15"	2.2					

BID ITEM	ITEM DESCRIPTION	UNITS	QUANTITY
6406	SBM ALUM SHEET SIGNS .080 IN	SQFT	172
6407	SBM ALUM SHEET SIGNS .125 IN	SQFT	145
6410	STEEL POST TYPE 1	LF	318
6475	INSTALL SPAN MOUNTED SIGN	EACH	3
6490	CLASS A CONCRETE FOR SIGNS	CUYD	3
21373ND	REMOVE SIGN ①	EACH	16
21596ND	GMSS TYPE D	EACH	12
21596ND	GMSS TYPE D SURFACE MOUNT	EACH	3
24631EC	BARCODE SIGN INVENTORY	EACH	68

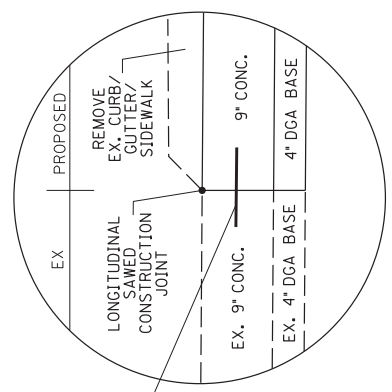
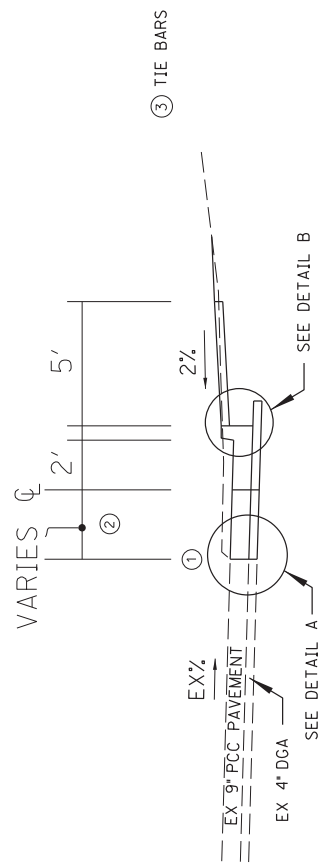
① SEE PLAN SHEET FOR LOCATIONS OF EXISTING SIGNS TO BE REMOV
② SEE SIGNING DETAIL SHEETS FOR MORE INFORMATION.

COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-9000.10	R2

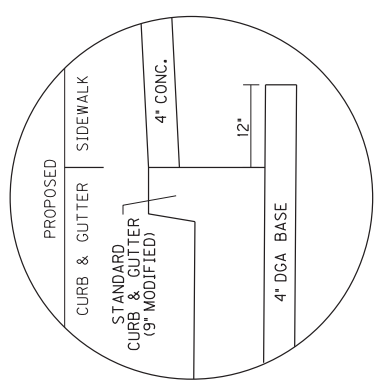
TYPICAL SECTIONS

PAVEMENT AND SIDEWALK DESIGN

- PAVEMENT — [9" JPC PAVEMENT
4" DGA BASE]
- SIDEWALK — [4" CONCRETE]



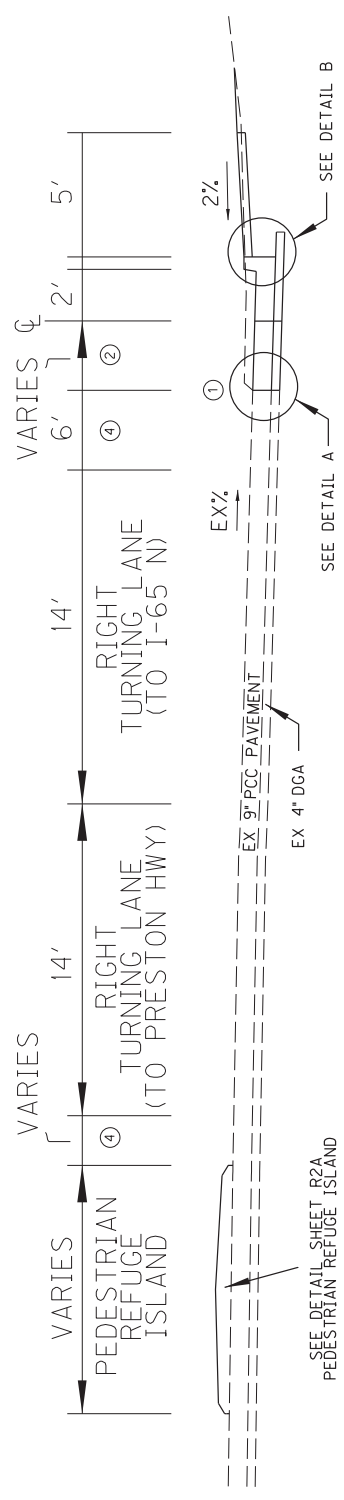
DETAIL A



DETAIL B

CURB AND GUTTER AND SIDEWALK

STA. 10+27 TO STA. 10+73
STA. 11+01 TO STA. 12+39



CONCRETE ISLAND CURB SECTION (WITH CURB AND GUTTER AND SIDEWALK)

STA. 10+73 TO STA. 11+01

- ① LONGITUDINAL SAWED CONSTRUCTION JOINT
- ② DISTANCE IS FROM THE EXISTING EDGE OF CONCRETE TO THE CENTERLINE. (THE CENTERLINE IS THE PROPOSED EDGE OF CONCRETE AND WHERE THE CURB AND GUTTER BEGINS.)
- ③ NO. 5 DEFORMED TIE BAR 2'-6" LONG PLACED 1'-8" ON CENTER AND PLACED MINIMUM FROM ANY TRANSVERSE JOINT. SEE STANDARD DRAWING RPS-010-11
- ④ THIS AREA IS FOR WB-62 OR LIKE SIZE SEMI-TRUCKS TO BE ABLE TO MAKE THE TURN ONTO PRESTON HWY. THIS AREA IS TO BE CROSS HATCHED. SEE STRIPING PLAN FOR MORE DETAILS.

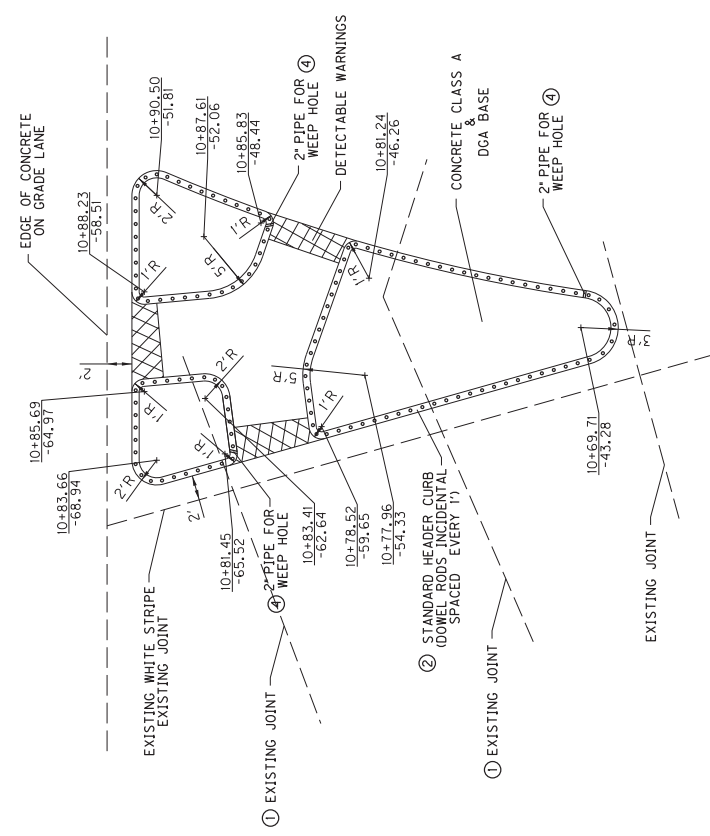
NOT TO SCALE

HIGHWAY SAFETY IMPROVEMENT PROJECT
GRADE LANE - TURN LANE OFFSET
TYPICAL SECTION

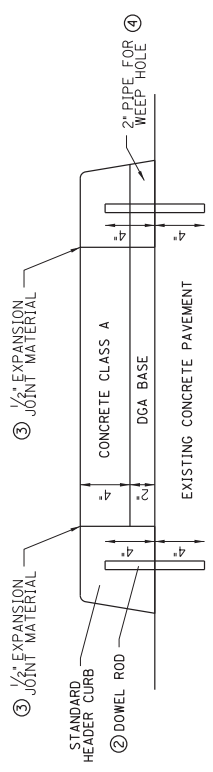
COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-9000.10	R2A

PEDESTRIAN REFUGE ISLAND DETAIL

- ① SAW CUT THE STANDARD HEADER CURB AT EXISTING JOINTS. SAW CUT IS INCIDENTAL TO THE INSTALLATION OF THE STANDARD HEADER CURB.
- ② DOWEL RODS ARE TO BE INSTALLED SPACED 1' ON CENTER IN THE STANDARD HEADER CURB. DOWEL RODS ARE INCIDENTAL TO THE INSTALLATION OF THE STANDARD HEADER CURB.
- ③ 1/2" EXPANSION JOINT MATERIAL TO BE INSTALLED BETWEEN CONCRETE CLASS A AND STANDARD HEADER CURB. EXPANSION JOINT MATERIAL IS INCIDENTAL TO THE INSTALLATION OF THE STANDARD HEADER CURB.
- ④ INSTALL 2" PIPE WITH FABRIC WRAPPED INLET FOR WEEP HOLE AT LOWEST ELEVATION POINT FOR EACH ISLAND. INSTALLATION OF WEEP HOLES IS INCIDENTAL TO INSTALLATION OF STANDARD HEADER CURB.



PLAN VIEW



SECTION VIEW

NOT TO SCALE

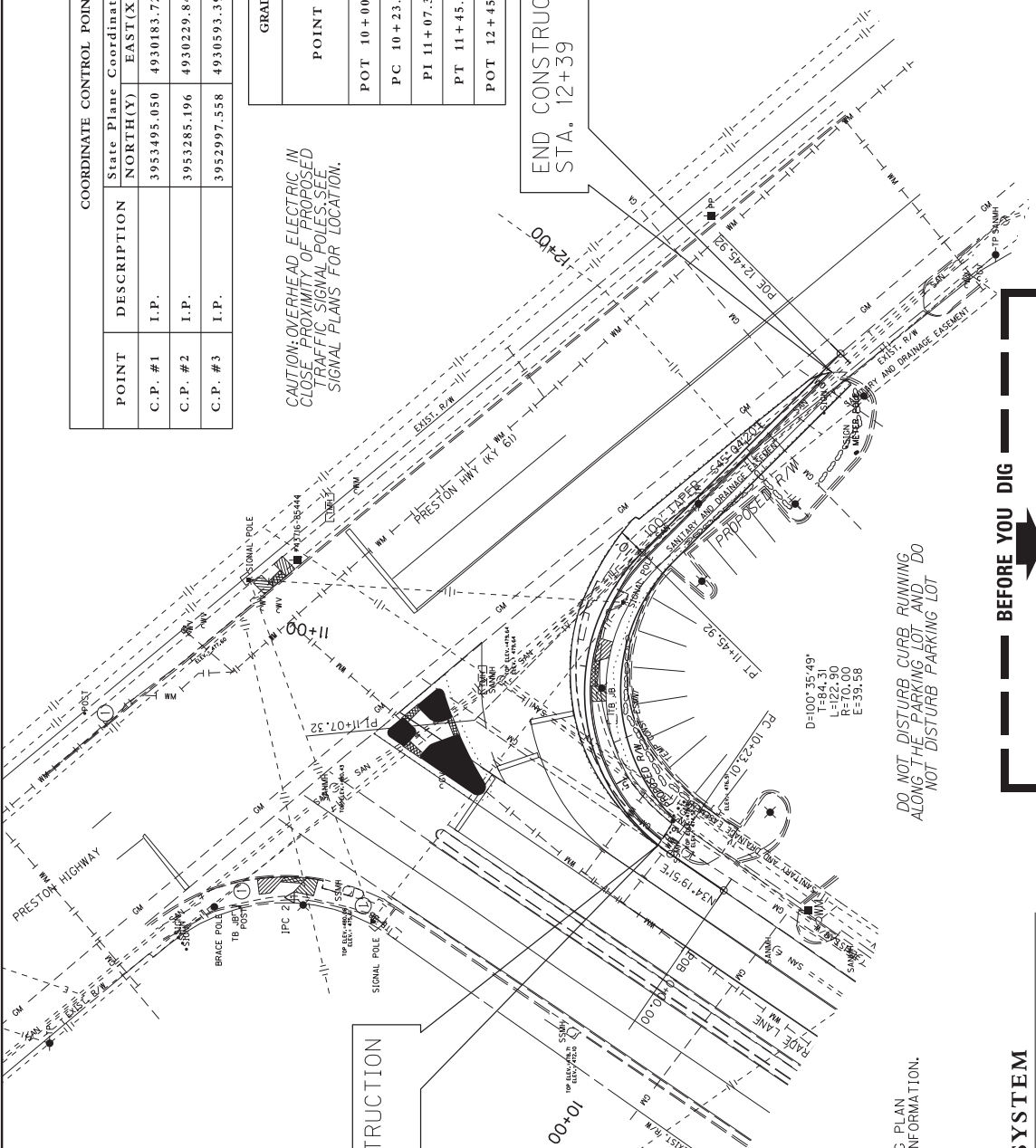
HIGHWAY SAFETY IMPROVEMENT PROJECT
GRADE LANE - TURN LANE OFFSET
PEDESTRIAN REFUGE ISLAND DETAIL

COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-9000.10	R3

POINT	DESCRIPTION	State Plane Coordinates		STATION and OFFSET
		NORTH(Y)	EAST(X)	
C.P. #1	I.P.	3953495.050	4930183.728	
C.P. #2	I.P.	3953285.196	4930229.848	10 + 63.19, 119.03 Left
C.P. #3	I.P.	3952997.558	4930593.395	

POINT	State Plane Coordinates	
	NORTH(Y)	EAST(X)
POT 10 + 00.00	3953131.385	4930232.268
PC 10 + 23.01	3953150.389	4930245.246
PI 11 + 07.32	3953220.013	4930292.795
PT 11 + 45.92	3953160.471	4930352.487
POT 12 + 45.92	3953089.844	4930423.293

CAUTION: OVERHEAD ELECTRIC IN CLOSE PROXIMITY OF PROPOSED TRAFFIC SIGNAL POLES. SEE SIGNAL PLANS FOR LOCATION.



ROADWAY EXCAVATION
 STA. 10+28 TO STA. 12+39 (125 CY)
 INCLUDES REMOVAL OF EXISTING CURB & GUTTER
 INCLUDES REMOVAL OF EXISTING SIDEWALK

RECONSTRUCT RIGHT TURN RADIUS
 4" DGA BASE (46 TONS)
 9" JPC PAVEMENT (118 SY)

REMOVE CONCRETE SIDEWALK
 LT STA. 10+64 TO STA. 10+67 (13 SY)
 LT STA. 11+04 TO STA. 11+08 (10 SY)

CONSTRUCT SIDEWALK-4 IN CONCRETE
 RT STA. 10+28 TO STA. 10+87 (33 SY)
 RT STA. 10+87 TO STA. 11+11 (13 SY) - RAMP TY 3)
 RT STA. 11+11 TO STA. 12+39 (70 SY)
 LT STA. 10+64 TO STA. 10+67 (13 SY) - RAMP TY 3)
 LT STA. 11+04 TO STA. 11+08 (10 SY) - RAMP TY 3)

CONSTRUCT DETECTABLE WARNINGS
 RT STA. 10+97 (23 SQ FT)
 LT STA. 10+65 (16 SQ FT)
 LT STA. 10+83 (13 SQ FT)
 LT STA. 10+86 (14 SQ FT)
 LT STA. 11+06 (17 SQ FT)

**BEGIN CONSTRUCTION
STA. 10+28**

EXISTING SIDEWALK RAMPS TO BE REMOVED AND REPLACED WITH SIDEWALK

REMOVE CONCRETE SIDEWALK
 STA. 10+55 TO STA. 10+62 (15 SY)
 STA. 10+67 TO STA. 10+69 (17 SY)
 STA. 10+84 TO STA. 10+90 (21 SY)

CONSTRUCT SIDEWALK-4 IN CONCRETE
 STA. 10+55 TO STA. 10+62 (15 SY)
 STA. 10+67 TO STA. 10+69 (17 SY)
 STA. 10+84 TO STA. 10+90 (21 SY)

STA. 10+28 TO 12+39
 SAWCUT 207 LF EXIST. PAVEMENT

CONSTRUCT STANDARD CURB AND GUTTER
 STA. 10+28 TO STA. 12+39 (207 LF)

CONSTRUCT PEDESTRIAN REFUGE ISLANDS
 STANDARD HEADER CURB (135 LF)
 2" DGA BASE (5 TON)
 4" CONCRETE-CLASS A (5 CY)

WATER SERVICE RELOCATE
 3/4" AT STA. 10+43

INSTALL STEEL STRAIN POLES
 FOR OVERHEAD LANE DESIGNATION SIGNS. SEE SIGNING PLAN SHEET AND OVERHEAD SIGN SPAN DETAIL FOR MORE INFORMATION.

POLE LT GRADE LANE:
 NORTHING = 3953077.984
 EASTING = 4930103.367

POLE RT GRADE LANE:
 NORTHING = 3953028.352
 EASTING = 4930175.801

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

DO NOT DISTURB CURB, RUNNING ALONG THE PARKING LOT AND DO NOT DISTURB PARKING LOT

The contractor is instructed to call 1.800.759.6007 for each KY 811, the one-call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call Before-Dig (BD) service. The contractor must coordinate with the utility owners to determine what underground utilities are in the area. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area.

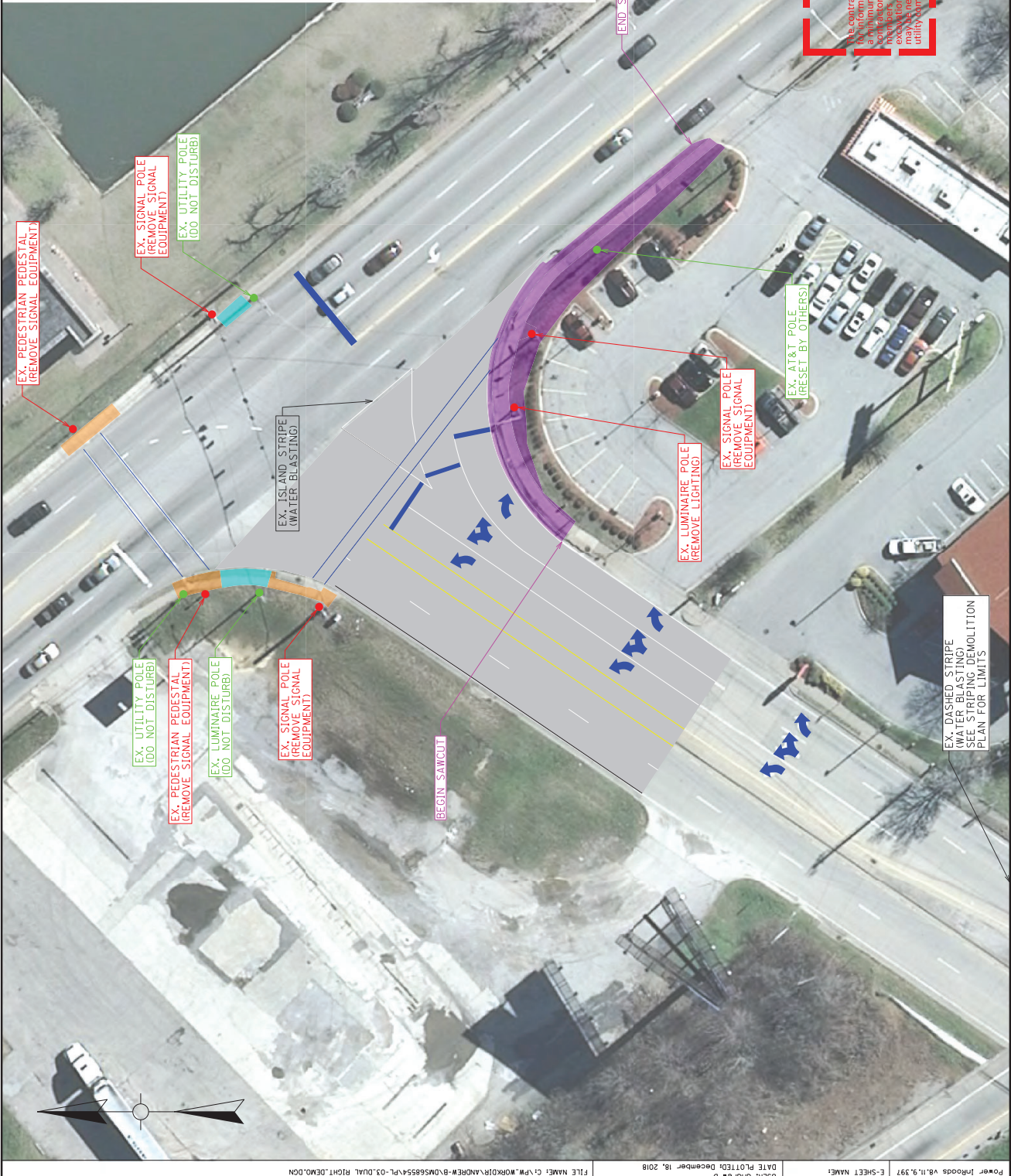
SCALE: 1"=20'

HIGHWAY SAFETY IMPROVEMENT PROJECT
 GRADE LANE AND KY 61
 INTERSECTION IMPROVEMENTS

Δ/PC 3

SHEET	ITEM NO.	COUNTY OF
R3A	5-9000.10	JEFFERSON

- ROADWAY EXCAVATION
STA. 10+28 TO STA. 12+39 (125 CY)
INCLUDES REMOVAL OF EXISTING CURB &
GUTTER AND EXISTING SIDEWALK
- SAWCUT EXIST. PAVEMENT
STA. 10+28 TO 12+39 (207 LF)
- REMOVE CONCRETE SIDEWALK FOR
CONST. OF PROPOSED SIDEWALK RAMP
LT STA. 10+64 TO STA. 10+67 (13 SY)
LT STA. 11+04 TO STA. 11+08 (10 SY)
- EXISTING SIDEWALK RAMPS TO BE
REMOVED AND REPLACED WITH SIDEWALK
REMOVE CONCRETE SIDEWALK
LT STA. 10+55 TO STA. 10+62 (15 SY)
LT STA. 10+67 TO STA. 10+69 (17 SY)
LT STA. 10+84 TO STA. 10+90 (21 SY)
- PAVEMENT MARKING REMOVAL
REMOVE EXISTING CROSS WALK (191 SF)
REMOVE EXISTING STOP BARS (184 SF)
REMOVE EXISTING THERMO ARROWS (174 SF)
- WATER BLASTING EXISTING STRIPE.
REMOVE EXISTING ISLAND STRIPE (136 LF)
REMOVE EXISTING DASHED STRIPING THAT
IS TO BE RE-STRIPED (125 LF)



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 a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that owners of underground facilities are not required to be excavated with the utility owners, including those who do not subscribe to KY 811. It may be necessary for the contractor to contact the County Council to determine what utility companies have facilities in the area.

HIGHWAY SAFETY IMPROVEMENT PROJECT
GRADE LANE AND KY 61
DEMOLITION PLAN

SCALE: 1"=20'

SHEET	ITEM NO.	COUNTY OF
R3B	5-9000.10	JEFFERSON

CONSTRUCT SIDEWALK-4 IN CONCRETE
 RT STA. 10+28 TO STA. 10+87 (33 SY) (RAMP TY 3)
 RT STA. 10+87 TO STA. 11+11 (13 SY) (RAMP TY 3)
 RT STA. 11+11 TO STA. 12+39 (70 SY) (RAMP TY 3)
 LT STA. 10+64 TO STA. 10+67 (13 SY) (RAMP TY 3)
 LT STA. 11+04 TO STA. 11+08 (10 SY) (RAMP TY 3)

CONSTRUCT DETECTABLE WARNINGS
 RT STA. 10+97 (23 SO FT)
 LT STA. 10+65 (16 SO FT)
 LT STA. 10+80 (15 SO FT)
 LT STA. 10+83 (13 SO FT)
 LT STA. 10+86 (14 SO FT)
 LT STA. 11+06 (17 SO FT)

EXISTING SIDEWALK RAMPS TO BE REMOVED AND REPLACED WITH SIDEWALK

CONSTRUCT SIDEWALK-4 IN CONCRETE
 STA. 10+55 TO STA. 10+62 (15 SY)
 STA. 10+67 TO STA. 10+69 (17 SY)
 STA. 10+84 TO STA. 10+90 (12 SY)

RECONSTRUCT RIGHT TURN RADIUS
 4" DGA BASE (46 TONS)
 9" JPC PAVEMENT (118 SY)

CONSTRUCT STANDARD CURB AND GUTTER
 STA. 10+28 TO STA. 12+39 (207 LF)

PEDESTRIAN REFUGE ISLAND
 ISLAND 1: STANDARD HEADER CURB (68 LF)
 ISLAND 2: STANDARD HEADER CURB (97 LF)
 ISLAND 3: STANDARD HEADER CURB (30 LF)

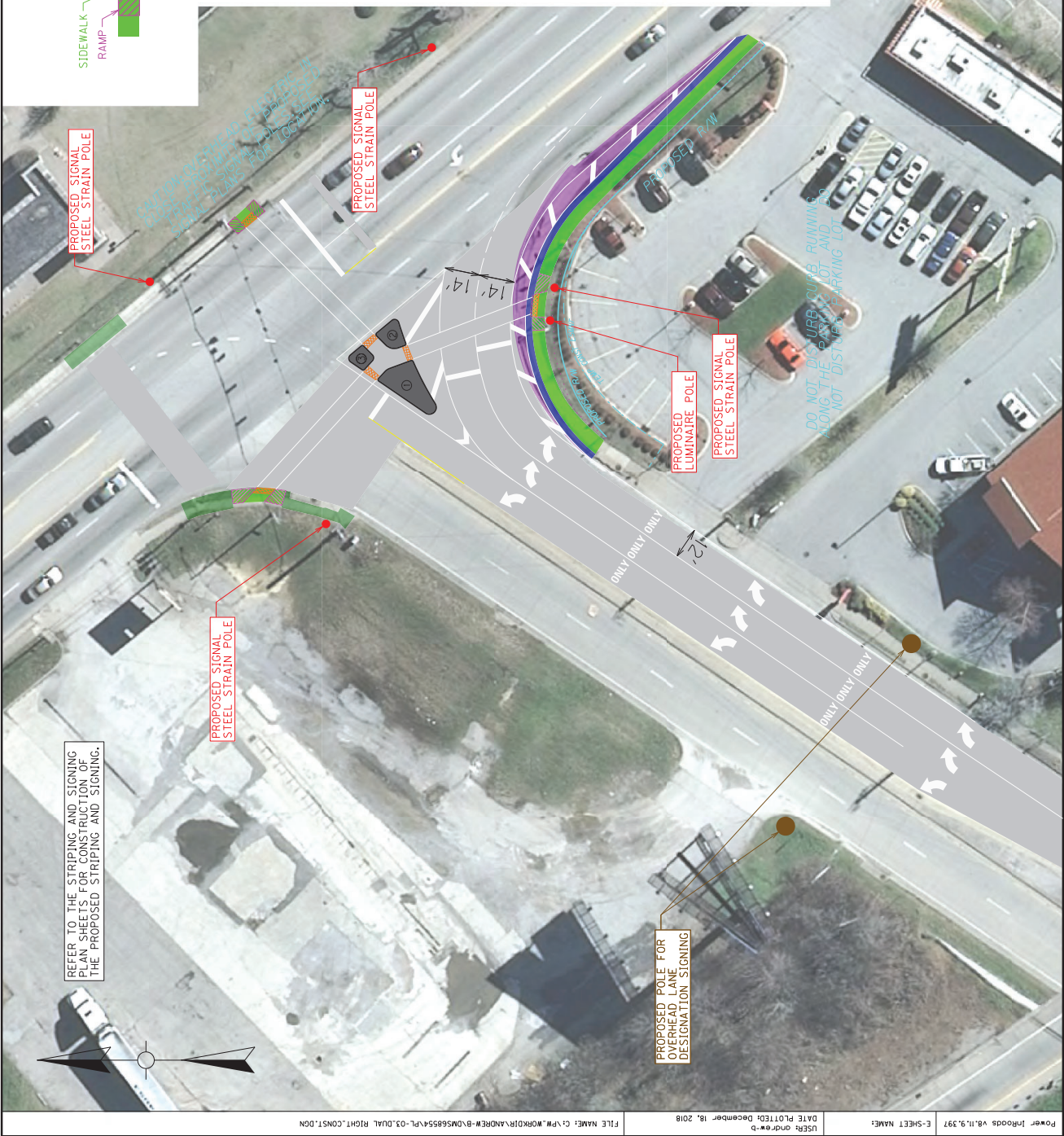
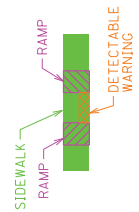
ISLAND 1: 2" DGA BASE (5 TONS)
ISLAND 2: 4" CONCRETE-CLASS A (5 CY)
ISLAND 3:

PROPOSED SIGNAL AND LIGHTING

REFER TO THE SIGNAL PLANS AND LIGHTING PLANS FOR MORE INFORMATION. THE SIGNAL STEEL STRAIN POLES ARE SHOWN ON THIS PLAN FOR REFERENCE ONLY. REFER TO THE SIGNAL DESIGN FOR FURTHER WORK TO BE COMPLETED INCLUDING INSTALL OF PEDESTRIAN PEDESTALS.

INSTALL STEEL STRAIN POLES FOR OVERHEAD LANE DESIGNATION SIGNS. SEE SIGNING PLAN SHEET AND OVERHEAD SIGN SPAN DETAIL FOR MORE INFORMATION.

POLE RT GRADE LANE: NORTHING = 3953028.352 EASTING = 4930175.801
 POLE LT GRADE LANE: NORTHING = 3953077.984 EASTING = 4930103.367



REFER TO THE STRIPING AND SIGNING PLAN SHEETS FOR CONSTRUCTION OF THE PROPOSED STRIPING AND SIGNING.



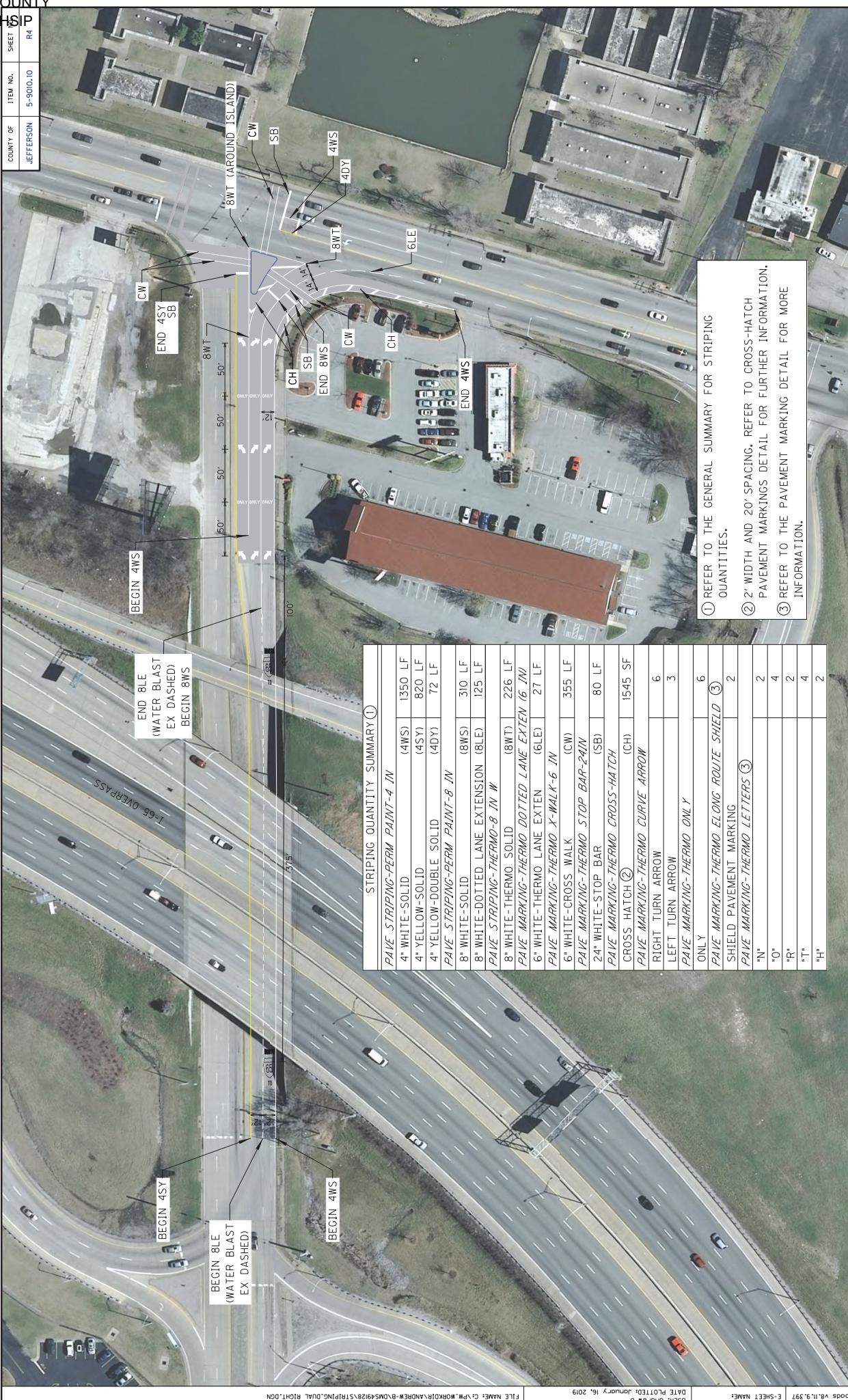
BEFORE YOU DIG

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 a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor shall be responsible for obtaining all necessary permits and for coordinating with the utility owners, including those whom do not subscribe to KY 811. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in this area.

HIGHWAY SAFETY IMPROVEMENT PROJECT
 GRADE LANE AND KY 61
 CONSTRUCTION PLAN

SCALE: 1"=20'

COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-9000.10	B4



STRIPING QUANTITY SUMMARY ①

PAVE STRIPING-PERM PAINT-4 IN	(4WS)	1350 LF
4" WHITE-SOLID	(4WS)	820 LF
4" YELLOW-SOLID	(4DY)	72 LF
PAVE STRIPING-PERM PAINT-8 IN	(8WS)	310 LF
8" WHITE-SOLID	(8WS)	125 LF
8" WHITE-DOTTED LANE EXTENSION	(8LE)	226 LF
PAVE STRIPING-THERMO-8 IN W	(8WT)	27 LF
PAVE MARKING-THERMO DOTTED LANE EXTEN (6 IN)	(6LE)	355 LF
PAVE MARKING-THERMO X-WALK-6 IN	(CW)	80 LF
6" WHITE-CROSS WALK	(SB)	1545 SF
PAVE MARKING-THERMO STOP BAR-24IN	(CH)	6
24" WHITE-STOP BAR	(SB)	3
PAVE MARKING-THERMO CROSS-HATCH	(CH)	6
CROSS HATCH ②		3
PAVE MARKING-THERMO CURVE ARROW		6
RIGHT TURN ARROW		3
LEFT TURN ARROW		6
PAVE MARKING-THERMO ONLY		2
ONLY		4
PAVE MARKING-THERMO ELONG ROUTE SHIELD ③		2
SHIELD PAVEMENT MARKING		2
PAVE MARKING-THERMO LETTERS ⑤		2
"N"		4
"O"		2
"R"		4
"T"		2
"H"		2

- ① REFER TO THE GENERAL SUMMARY FOR STRIPING QUANTITIES.
- ② 2' WIDTH AND 20' SPACING. REFER TO CROSS-HATCH PAVEMENT MARKINGS DETAIL FOR FURTHER INFORMATION.
- ③ REFER TO THE PAVEMENT MARKING DETAIL FOR MORE INFORMATION.

HIGHWAY SAFETY IMPROVEMENT PROJECT
GRADE LANE AND KY 61
STRIPING PLAN

SCALE: 1"=40'

COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-9000.10	R44



STRIPING DEMOLITION QUANTITY SUMMARY ①

PAVEMENT MARKING REMOVAL	QUANTITY
LEFT TURN ARROW (3 @ 15.5 SF)	46.5 SF
RIGHT TURN ARROW (3 @ 15.5 SF)	46.5 SF
SHARED TURN ARROW (3 @ 27.0 SF)	81.0 SF
STOP BARS (92 LF @ 24" WIDE)	184.0 SF
CROSS WALKS (382 LF @ 6" WIDE)	191.0 SF
WATER BLASTING EXISTING STRIPE	
4-IN DASHED (RESTRIPE 8-IN LANE EXT)	125 LF
4-IN SOLID (EXISTING ISLAND)	136 LF

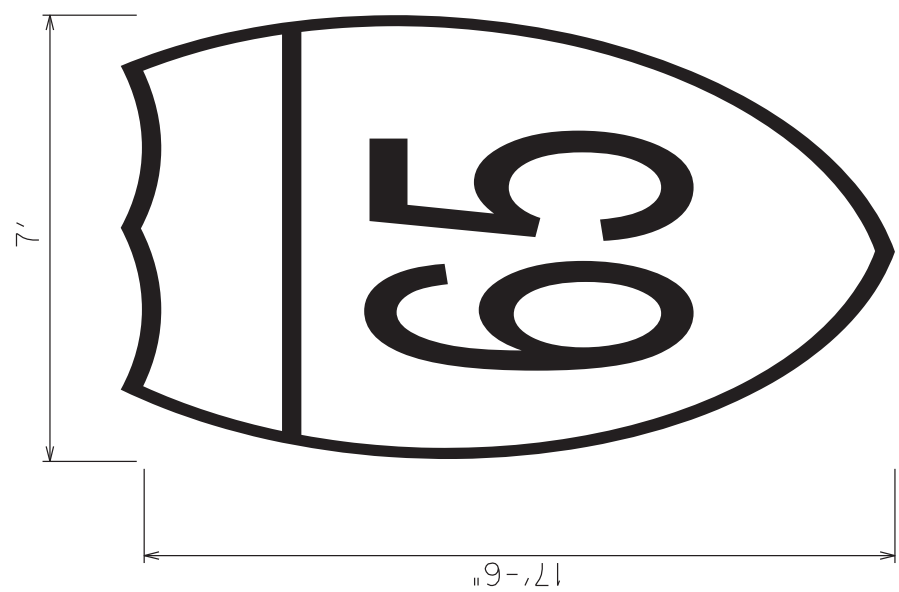
① REFER TO THE GENERAL SUMMARY FOR STRIPING QUANTITIES.

HIGHWAY SAFETY IMPROVEMENT PROJECT
GRADE LANE AND KY 61
STRIPING DEMOLITION PLAN

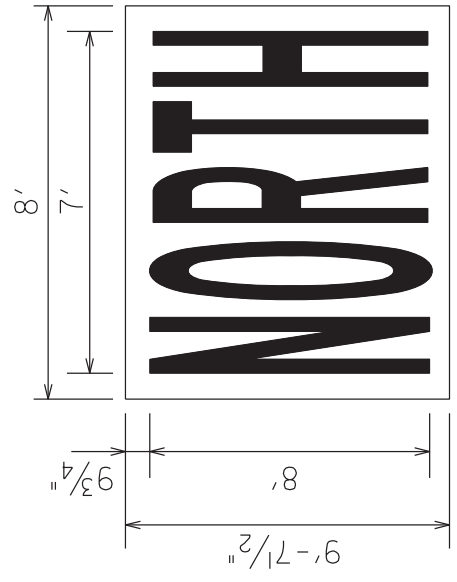
Scale: 1"=40'

COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-9000.10	RS

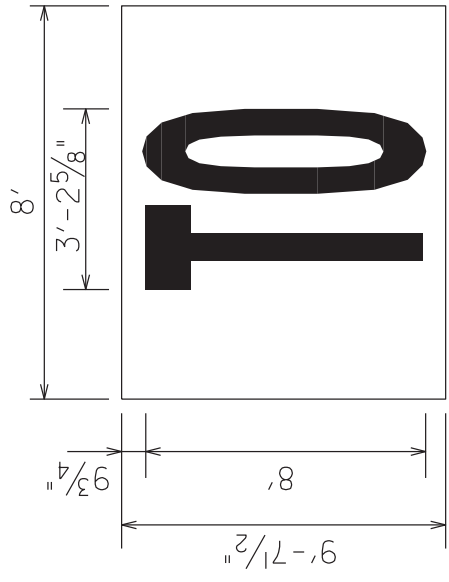
ELONGATED THERMO ROUTE SHIELD PAVEMENT MARKINGS



ELONGATED THERMO "NORTH" PAVEMENT MARKINGS



ELONGATED THERMO "TO" PAVEMENT MARKINGS



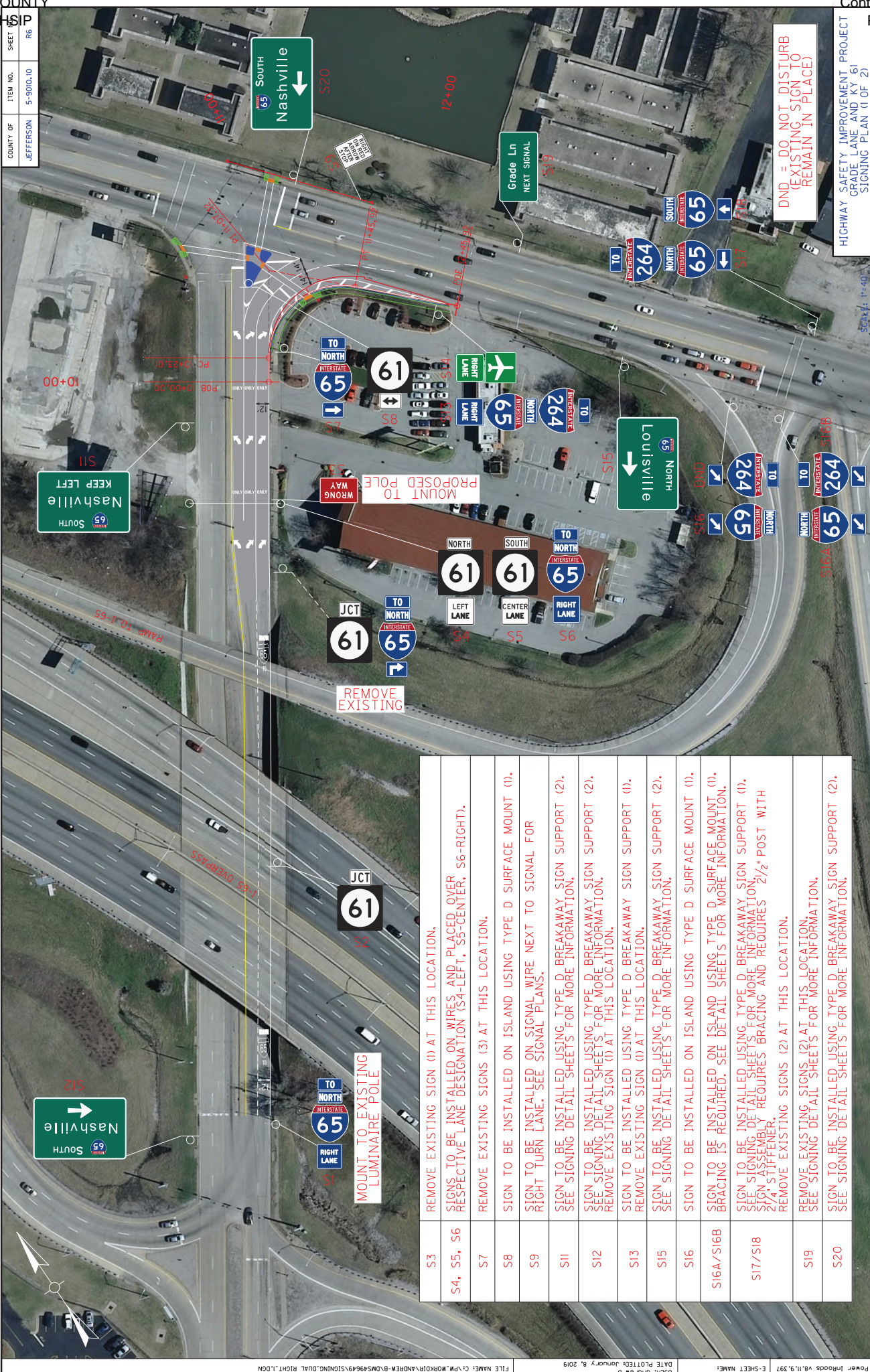
NOTES:

ALL LETTERS AND NUMBERS SHALL BE WHITE.

THE INTERSTATE SHIELD SHALL HAVE A BLUE BACKGROUND BEHIND "65" AND A RED BACKGROUND IN THE AREA ABOVE "65".

THE "NORTH" AND "TO" PAVEMENT MARKINGS SHALL HAVE A BLUE BACKGROUND BEHIND THE WHITE LETTERS.

COUNTY OF JEFFERSON
ITEM NO. 5-90010.10
SHEET 86



DND = DO NOT DISTURB
(EXISTING SIGN TO
REMAIN IN PLACE)

HIGHWAY SAFETY IMPROVEMENT PROJECT
GRADE LANE AND KY 61
SIGNING PLAN (1 OF 2)

S3	REMOVE EXISTING SIGN (1) AT THIS LOCATION.
S4, S5, S6	SIGNS TO BE INSTALLED ON WIRES AND PLACED OVER RESPECTIVE LANE DESIGNATION (S4-LEFT, S5-CENTER, S6-RIGHT).
S7	REMOVE EXISTING SIGNS (3) AT THIS LOCATION.
S8	SIGN TO BE INSTALLED ON ISLAND USING TYPE D SURFACE MOUNT (1).
S9	SIGN TO BE INSTALLED ON SIGNAL WIRE NEXT TO SIGNAL FOR RIGHT TURN LANE. SEE SIGNAL PLANS.
S11	SIGN TO BE INSTALLED USING TYPE D BREAKAWAY SIGN SUPPORT (2). SEE SIGNING DETAIL SHEETS FOR MORE INFORMATION.
S12	SIGN TO BE INSTALLED USING TYPE D BREAKAWAY SIGN SUPPORT (2). SEE SIGNING DETAIL SHEETS FOR MORE INFORMATION. REMOVE EXISTING SIGN (1) AT THIS LOCATION.
S13	SIGN TO BE INSTALLED USING TYPE D BREAKAWAY SIGN SUPPORT (1). REMOVE EXISTING SIGN (1) AT THIS LOCATION.
S15	SIGN TO BE INSTALLED USING TYPE D BREAKAWAY SIGN SUPPORT (2). SEE SIGNING DETAIL SHEETS FOR MORE INFORMATION.
S16	SIGN TO BE INSTALLED ON ISLAND USING TYPE D SURFACE MOUNT (1).
S16A/S16B	SIGN TO BE INSTALLED ON ISLAND USING TYPE D SURFACE MOUNT (1). BRACING IS REQUIRED. SEE DETAIL SHEETS FOR MORE INFORMATION.
S17/S18	SIGN TO BE INSTALLED USING TYPE D BREAKAWAY SIGN SUPPORT (1). SEE SIGNING DETAIL SHEETS FOR MORE INFORMATION. SIGN ASSEMBLY REQUIRES BRACING AND REQUIRES 2 1/2" POST WITH 2/4" STIFFENER. REMOVE EXISTING SIGNS (2) AT THIS LOCATION.
S19	REMOVE EXISTING SIGNS (2) AT THIS LOCATION. SEE SIGNING DETAIL SHEETS FOR MORE INFORMATION.
S20	SIGN TO BE INSTALLED USING TYPE D BREAKAWAY SIGN SUPPORT (2). SEE SIGNING DETAIL SHEETS FOR MORE INFORMATION.

COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-9000.10	R6A



S21	REMOVE EXISTING SIGN (1) AT THIS LOCATION. SEE SIGNING DETAIL SHEETS FOR MORE INFORMATION.
S22	SEE SIGNING DETAIL SHEETS FOR MORE INFORMATION.
S24/S25/S26	SIGN TO BE INSTALLED USING TYPE D BREAKAWAY SIGN SUPPORT (2). SEE SIGNING DETAIL SHEETS FOR MORE INFORMATION. SIGN ASSEMBLY REQUIRES BRACING AND REQUIRES 2 1/2" POST WITH 2 1/4" STIFFENER. REMOVE EXISTING SIGNS (3) AT THIS LOCATION.

HIGHWAY SAFETY IMPROVEMENT PROJECT
GRADE LANE AND KY 61
SIGNING PLAN (2 OF 2)

COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-3000.10	R66

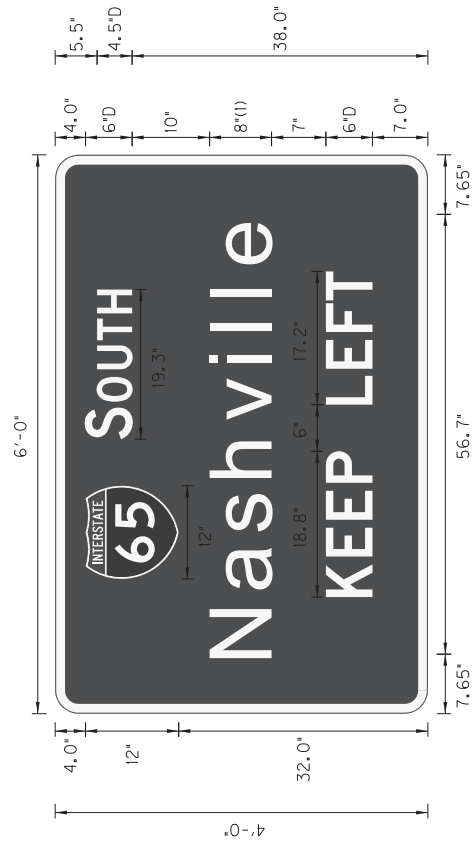
GENERAL NOTES

BRACING IS REQUIRED FOR
SIGNS S11 AND S12

HIGHWAY SAFETY IMPROVEMENT
GRADE LANE AND KY 61
SIGNING PLAN DETAIL (1 OF 4)

SIGN INFORMATION		SIGN LOCATION / SUPPORT	
SIGN NUMBER	S11	ROAD & MILE POINT	GRADE LANE
QUANTITY	1	TRAFFIC DIRECTION	SOUTH
WIDTH	6'-0"	SIDE OF ROAD	LT
HEIGHT	4'-0"	MOUNTING STYLE	TYPE 1 POSTS
AREA (Sq. Ft.)	24.0 SQ. FT.	BEAM MATERIAL	
BORDER WIDTH	0.5"	BEAM SIZE	
BORDER RADIUS	3"	BEAM/POST LENGTH	1. = 12'-0"
PANEL COLOR	GREEN	BEAM/POST LENGTH	2. = 12'-0"
LEGEND/BORDER COLOR	WHITE	BEAM/POST LENGTH	3. =
STATIONS(S)	**	BEAM/POST LENGTH	4. =
PANEL MATERIAL	REFLECTIVE	CONC 'a' =	1'-6"
LEGEND MATERIAL	REFLECTIVE	CONC 'b' =	3'-6"
			0.5 Cu. Yds.

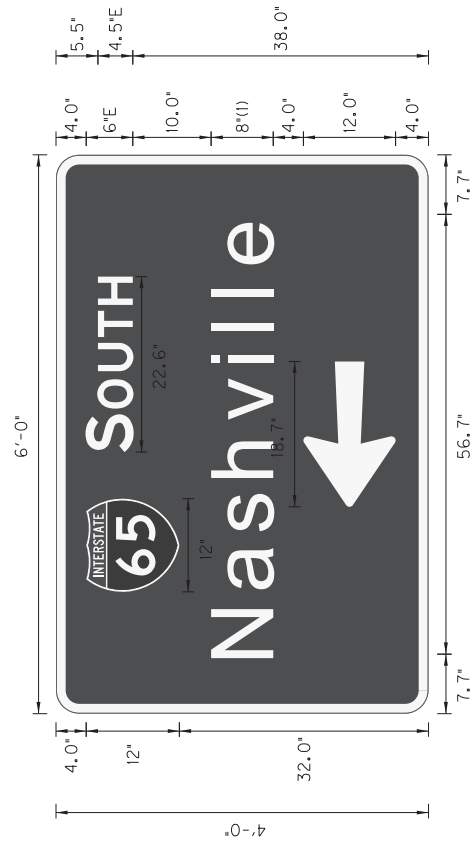
SUPPORT TYPE	TYPE D
SUPPORT TYPE	TYPE D



FONT:
(1) ClearviewHwy-5-W-R

SIGN INFORMATION		SIGN LOCATION / SUPPORT	
SIGN NUMBER	S12	ROAD & MILE POINT	GRADE LANE
QUANTITY	1	TRAFFIC DIRECTION	SOUTH
WIDTH	6'-0"	SIDE OF ROAD	LT
HEIGHT	4'-0"	MOUNTING STYLE	TYPE 1 POSTS
AREA (Sq. Ft.)	24.0 SQ. FT.	BEAM MATERIAL	
BORDER WIDTH	0.5"	BEAM SIZE	
BORDER RADIUS	3"	BEAM/POST LENGTH	1. = 12'-0"
PANEL COLOR	GREEN	BEAM/POST LENGTH	2. = 12'-0"
LEGEND/BORDER COLOR	WHITE	BEAM/POST LENGTH	3. =
STATIONS(S)	**	BEAM/POST LENGTH	4. =
PANEL MATERIAL	REFLECTIVE	CONC 'a' =	1'-6"
LEGEND MATERIAL	REFLECTIVE	CONC 'b' =	3'-6"
			0.5 Cu. Yds.

SUPPORT TYPE	TYPE D
SUPPORT TYPE	TYPE D



FONT:
(1) ClearviewHwy-5-W-R

COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-3000.10	16
		R/C

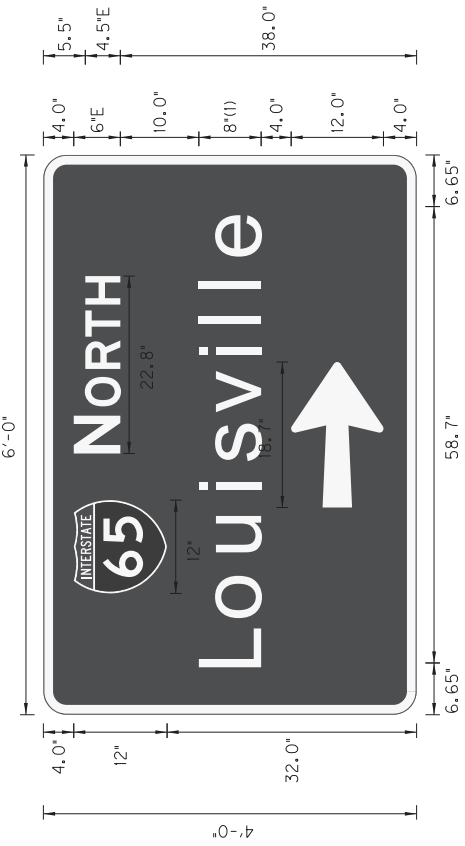
GENERAL NOTES

BRACING IS REQUIRED FOR SIGN S15.

HIGHWAY SAFETY IMPROVEMENT
GRADE LANE AND KY 61
SIGNING PLAN DETAIL (2 OF 4)

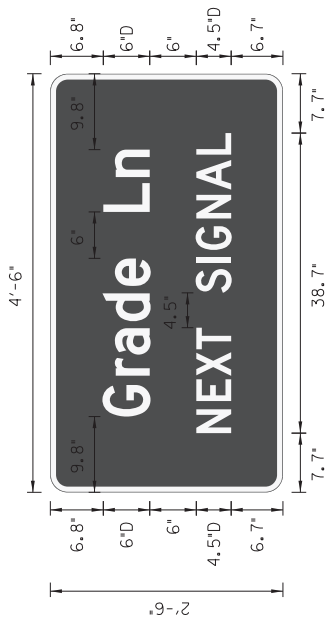
SIGN INFORMATION		SIGN LOCATION / SUPPORT	
SIGN NUMBER	S15	ROAD & MILE POINT	KY 61
QUANTITY	1	TRAFFIC DIRECTION	SOUTH
WIDTH	6'-0"	SIDE OF ROAD	LT
HEIGHT	4'-0"	MOUNTING STYLE	TYPE 1 POSTS
AREA (Sq. Ft.)	24.0 SQ. FT.	BEAM MATERIAL	
BORDER WIDTH	0.5"	BEAM SIZE	
BORDER RADIUS	3"	BEAM/POST LENGTH 1.	12'-0"
PANEL COLOR	GREEN	BEAM/POST LENGTH 2.	12'-0"
LEGEND/BORDER COLOR	WHITE	BEAM/POST LENGTH 3.	
STATION(S)	##	BEAM/POST LENGTH 4.	
PANEL MATERIAL	REFLECTIVE	CONC 'a' =	1'-6"
LEGEND MATERIAL	REFLECTIVE	CONC 'b' =	3'-6"
			0.5 Cu. Yds.

SUPPORT TYPE	TYPE D



FONT:
(1) ClearViewHwy-5-W-R

SIGN INFORMATION		SIGN LOCATION / SUPPORT	
SIGN NUMBER	S19	ROAD & MILE POINT	KY 61
QUANTITY	1	TRAFFIC DIRECTION	NORTH
WIDTH	4'-6"	SIDE OF ROAD	RT
HEIGHT	2'-6"	MOUNTING STYLE	TYPE 1 POSTS
AREA (Sq. Ft.)	11.3 SQ. FT.	BEAM MATERIAL	
BORDER WIDTH	0.5"	BEAM SIZE	
BORDER RADIUS	3"	BEAM/POST LENGTH 1.	13'-6"
PANEL COLOR	GREEN	BEAM/POST LENGTH 2.	13'-6"
LEGEND/BORDER COLOR	WHITE	BEAM/POST LENGTH 3.	
STATION(S)	##	BEAM/POST LENGTH 4.	
PANEL MATERIAL	REFLECTIVE	CONC 'a' =	
LEGEND MATERIAL	REFLECTIVE	CONC 'b' =	
			0.5 Cu. Yds.



COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-3000.10	R60

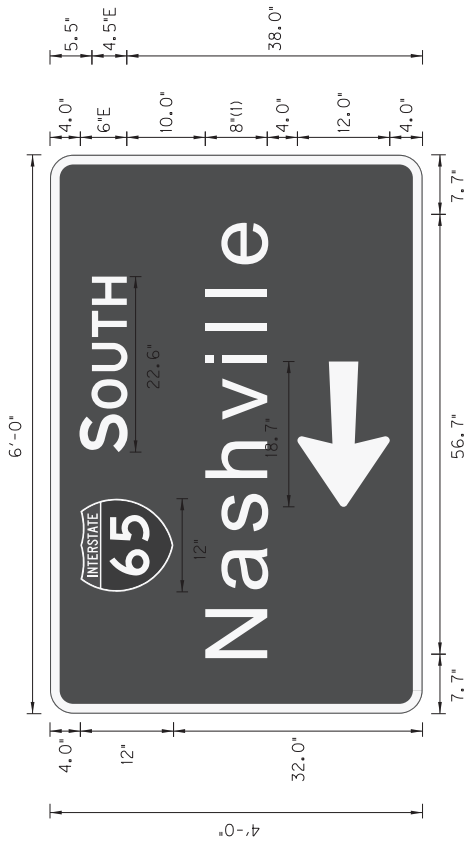
GENERAL NOTES

BRACING IS REQUIRED FOR SIGN S20.

HIGHWAY SAFETY IMPROVEMENT
GRADE LANE AND KY 61
SIGNING PLAN DETAIL (3 OF 4)

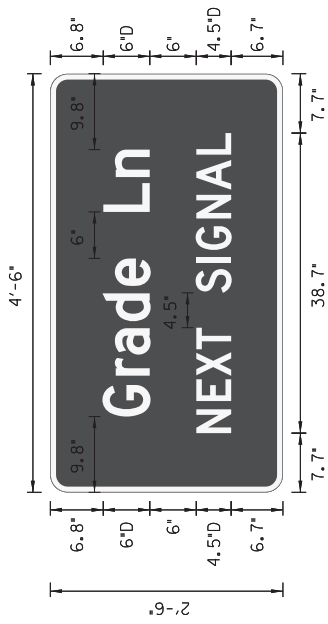
SIGN INFORMATION		SIGN LOCATION / SUPPORT	
SIGN NUMBER	S20	ROAD & MILE POINT	KY 61
QUANTITY	1	TRAFFIC DIRECTION	NORTH
WIDTH	6'-0"	SIDE OF ROAD	RT
HEIGHT	4'-0"	MOUNTING STYLE	TYPE I POSTS
AREA (Sq. Ft.)	24.0 SQ. FT.	BEAM MATERIAL	
BORDER WIDTH	0.5"	BEAM SIZE	
BORDER RADIUS	3"	BEAM/POST LENGTH	1. = 12'-0"
PANEL COLOR	GREEN	BEAM/POST LENGTH	2. = 12'-0"
LEGEND/BORDER COLOR	WHITE	BEAM/POST LENGTH	3. =
STATIONS(S)	##	BEAM/POST LENGTH	4. =
PANEL MATERIAL	REFLECTIVE	CONC 'a' =	1'-6"
LEGEND MATERIAL	REFLECTIVE	CONC 'b' =	3'-6"
			0.5 Cu. Yds.

SUPPORT TYPE	
SUPPORT TYPE	TYPE D



FONT:
(1) ClearViewHwy-5-W-R

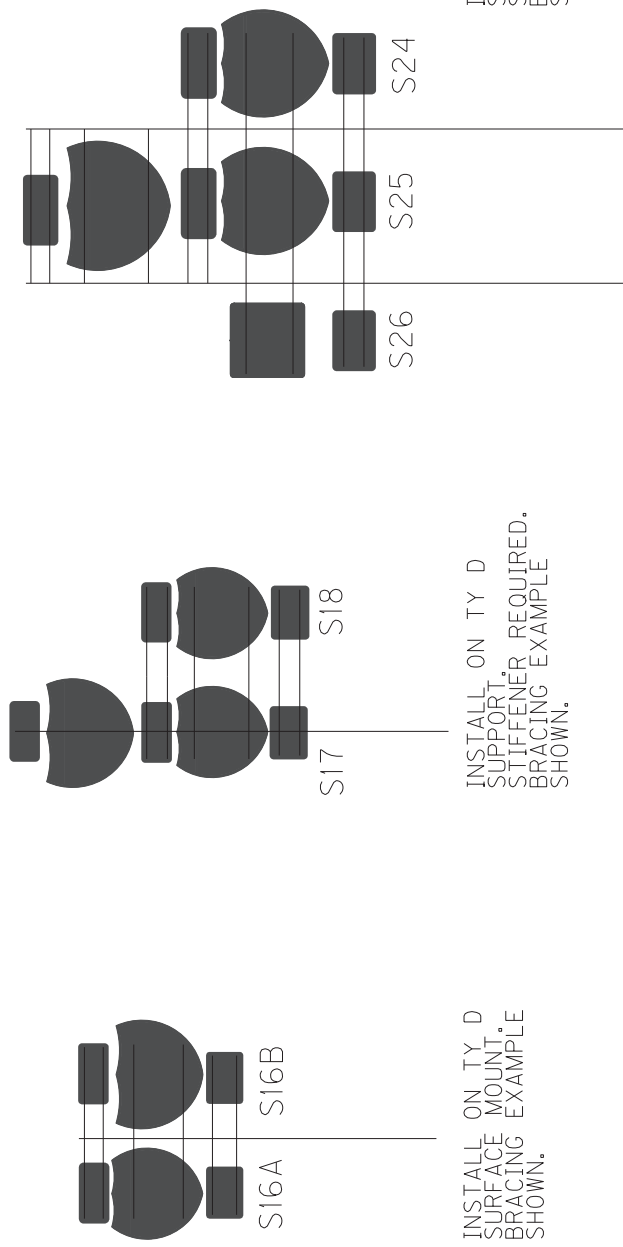
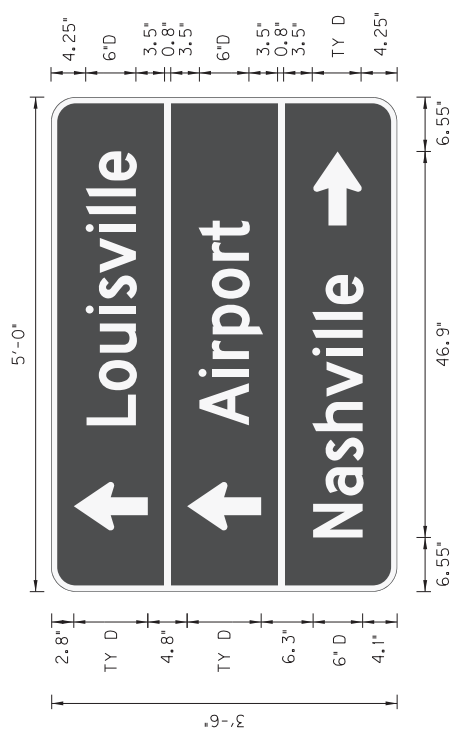
SIGN INFORMATION		SIGN LOCATION / SUPPORT	
SIGN NUMBER	S21	ROAD & MILE POINT	KY 61
QUANTITY	1	TRAFFIC DIRECTION	SOUTH
WIDTH	4'-6"	SIDE OF ROAD	LT
HEIGHT	2'-6"	MOUNTING STYLE	TYPE I POSTS
AREA (Sq. Ft.)	11.3 SQ. FT.	BEAM MATERIAL	
BORDER WIDTH	0.5"	BEAM SIZE	
BORDER RADIUS	3"	BEAM/POST LENGTH	1. = 13'-6"
PANEL COLOR	GREEN	BEAM/POST LENGTH	2. = 13'-6"
LEGEND/BORDER COLOR	WHITE	BEAM/POST LENGTH	3. =
STATIONS(S)	##	BEAM/POST LENGTH	4. =
PANEL MATERIAL	REFLECTIVE	CONC 'a' =	
LEGEND MATERIAL	REFLECTIVE	CONC 'b' =	
			0.5 Cu. Yds.



COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-3000.10	R06

GENERAL NOTES

SIGN INFORMATION		SIGN LOCATION / SUPPORT	
SIGN NUMBER	S22	ROAD & MILE POINT	KY 61
QUANTITY	1	TRAFFIC DIRECTION	SOUTH
WIDTH	5'-0"	SIDE OF ROAD	LT
HEIGHT	3'-6"	MOUNTING STYLE	TYPE I POSTS
AREA (Sq. Ft.)	17.5 SQ. FT.	BEAM MATERIAL	
BORDER WIDTH	0.5"	BEAM SIZE	
BORDER RADIUS	3"	BEAM/POST LENGTH	1. = 14'-6"
PANEL COLOR	GREEN	BEAM/POST LENGTH	2. = 14'-6"
LEGEND/BORDER COLOR	WHITE	BEAM/POST LENGTH	3. =
STATIONS(S)	##	BEAM/POST LENGTH	4. =
PANEL MATERIAL	REFLECTIVE	CONC "a" =	Cu.
LEGEND MATERIAL	REFLECTIVE	CONC "b" =	Yds.



INSTALL ON TY D
SURFACE MOUNT.
BRACING EXAMPLE
SHOWN.

INSTALL ON TY D
SUPPORT.
STIFFENER REQUIRED.
BRACING EXAMPLE
SHOWN.

INSTALL ON TY D
SUPPORT.
STIFFENER REQUIRED.
BRACING EXAMPLE
SHOWN.

HIGHWAY SAFETY IMPROVEMENT
GRAD LANE AND KY 61
SIGNING PLAN DETAIL (4 OF 4)

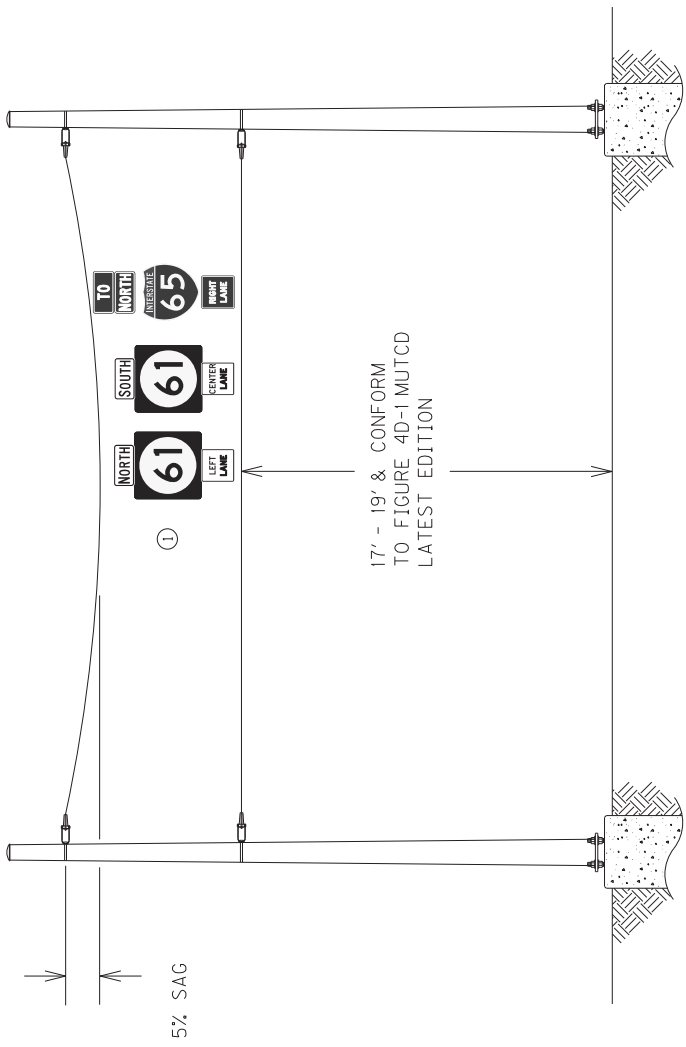
COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-5900.00	15
		REF

STEEL STRAIN POLES FOR OVERHEAD SIGN SPAN

POLE	HEIGHT	ATT. HT.	CALC. SERV. MOMENT	SAG	LEATHER ATT. HT.	MAX. LEATHER TENSION
A	28'	27.0'	76.45 k-ft	5%	19'	2800 lbs
B	28'	27.0'	76.45 k-ft	5%	19'	2800 lbs

REFER TO THE PLAN SHEET FOR LOCATION OF STEEL STRAIN POLES.

① SIGNS ARE TO BE HUNG OVER THE CENTER OF ITS CORRESPONDING LANE (LEFT LANE, CENTER LANE, AND RIGHT LANE RESPECTIVELY).



OVERHEAD SIGN SPAN DETAIL

THE CABINET SHALL SUPPLY CLAMP ASSEMBLIES FOR MESSENGER CABLE ATTACHMENTS BASED ON THE PRELIMINARY DESIGN OF THE POLES. IF THE ATTACHMENT LOCATIONS FOR CLAMP ASSEMBLIES ARE MORE THAN 2 FEET FROM THE TOP OF THE POLE, THE CONTRACTOR SHALL PROVIDE REFLECTOR LIGHTS TO BE MOUNTED ON THE CLAMP ASSEMBLIES. AT INSTALLATION, CONTRACTOR SUPPLIED CLAMP ASSEMBLIES SHALL BE INCIDENTAL TO THE INSTALLATION OF THE STEEL STRAIN POLE. CONTRACTOR SUPPLIED CLAMP ASSEMBLIES SHALL CONFORM TO THE SPECIFICATIONS STATED ON THE POLE BASE/SIGNAL HEAD DETAILS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE REPLACEMENT ASSEMBLIES TO THE DIVISION OF TRAFFIC OPERATIONS FOR APPROVAL.

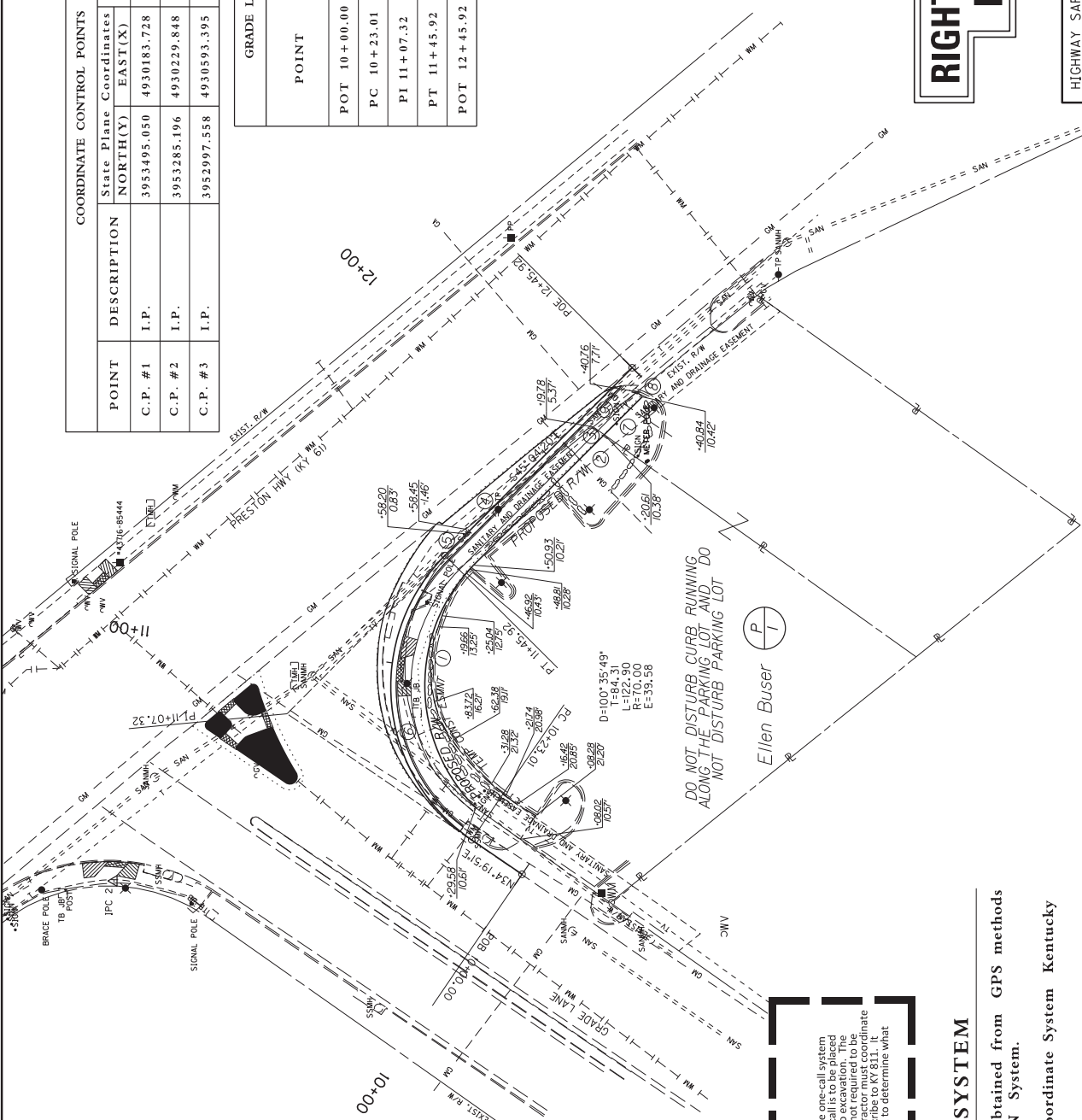
1/4/2019

OVERHEAD SIGN SPAN DETAIL

COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-3000.10	R7

COORDINATE CONTROL POINTS			
POINT	State Plane Coordinates		STATION and OFFSET
	NORTH(Y)	EAST(X)	
C.P.#1	3953495.050	4930183.728	
C.P.#2	3953285.196	4930229.848	10 + 63.19, 119.03 Left
C.P.#3	3952997.558	4930593.395	

GRADE LANE COORDINATES		
POINT	State Plane Coordinates	
	NORTH(Y)	EAST(X)
POT 10 + 00.00	3953131.385	4930232.268
PC 10 + 23.01	3953150.389	4930245.246
PI 11 + 07.32	3953220.013	4930292.795
PT 11 + 45.92	3953160.471	4930352.487
POT 12 + 45.92	3953089.844	4930423.293



RIGHT OF WAY PLANS

HIGHWAY SAFETY IMPROVEMENT PROJECT
GRADE LANE - TURN LANE OFFSET
ROW PLAN SHEET

SCALE: 1"=20'

- ① N 89°28'06" E
CH = 91.47'
R = 65.00'
ARC = 101°46'
- ② S 44°56'2" E
69.68'
- ③ N 35°27'05" E
5.01'
- ④ N 38°43'05" W
61.11'
- ⑤ S 51°16'55" W
2.50'
- ⑥ S 88°41'25" W
CH = 103.26'
R = 65.26'
ARC = 119.33'
- ⑦ S 44°56'2" E
20.22'
- ⑧ N 43°09'4" E
2.71'
- ⑨ N 38°43'05" W
21.10'

BEFORE YOU DIG

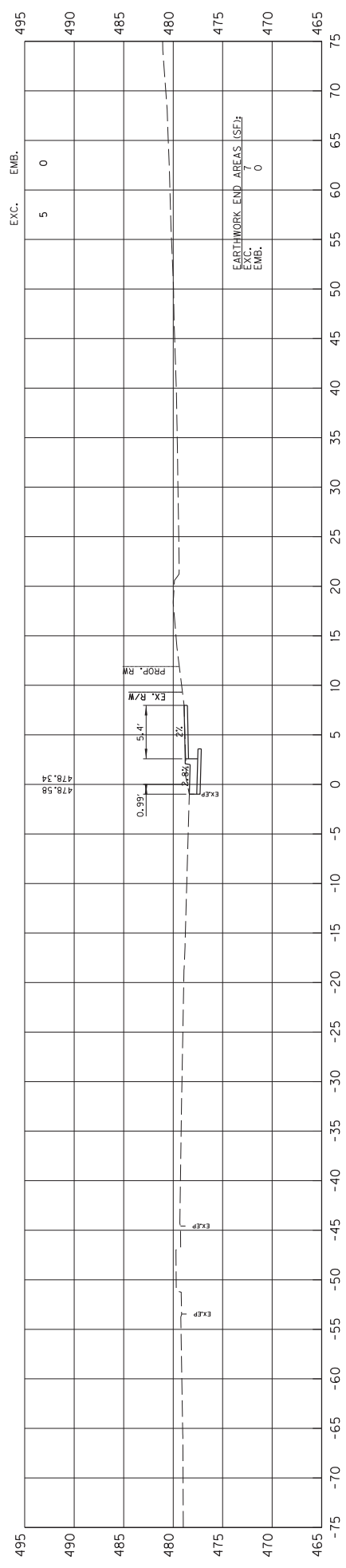
The contractor is instructed to call 1-800-752-6007 to reach KY 811, the one-call system for utility owners, at least 10 business days prior to excavation. The contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call Before-You-Dig (BYD) service. The contractor must coordinate excavation with the utility owners, including those who do not subscribe to KY 811. Just before the start of excavation, the contractor must contact the County Clerk to determine what utility companies have facilities in the area.

COORDINATE SYSTEM

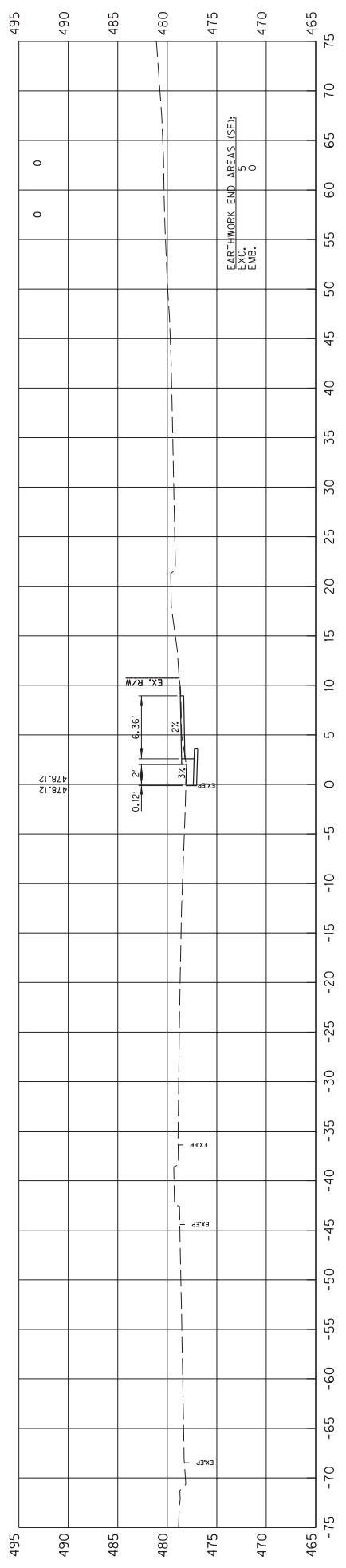
Coordinates for horizontal control were obtained from GPS methods and adjusted to the National NAD83/FBN System.
Coordinates are based on State Plane Coordinate System Kentucky Single Zone and in U.S. Survey Feet.

COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-9000.10	XI

EARTHWORK VOLUMES (CY):



10+50



10+27

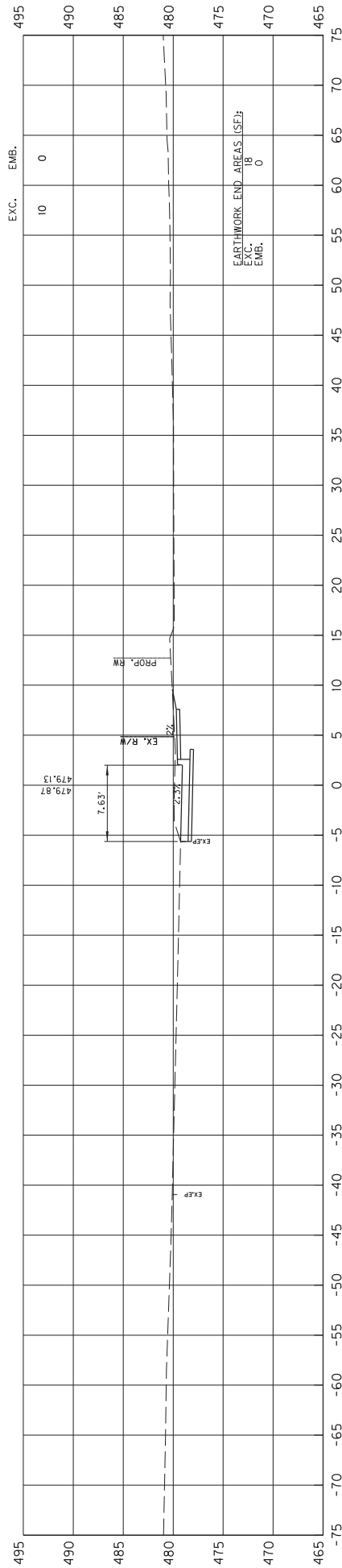
SCALE: HORIZONTAL
1" = 5'

VERTICAL
1" = 5'

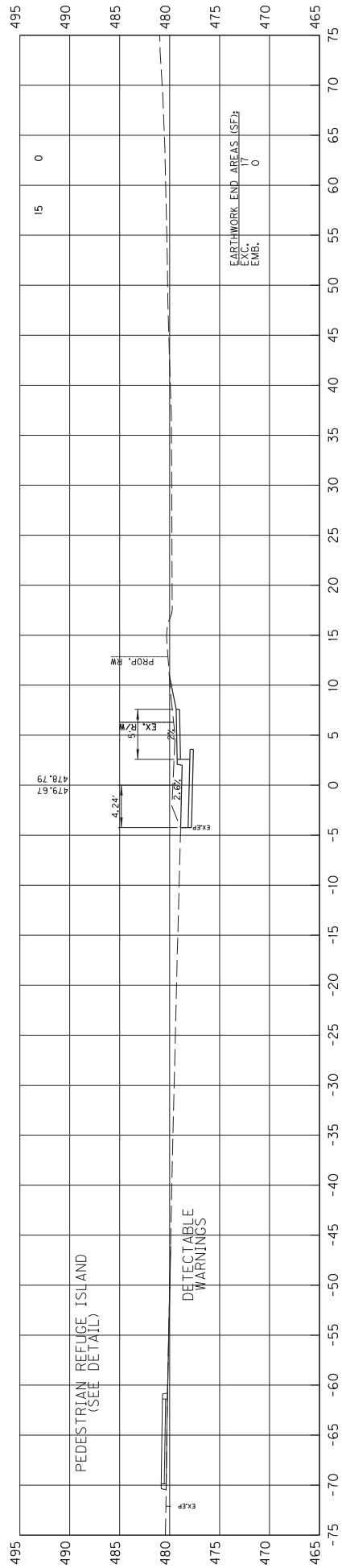
HIGHWAY SAFETY IMPROVEMENT PROJECT
STA. 10+27 TO STA. 10+50
GRADE LANE TURN LANE WIDENING

COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-9000.10	X2

EARTHWORK VOLUMES (CY):



11+00



10+83

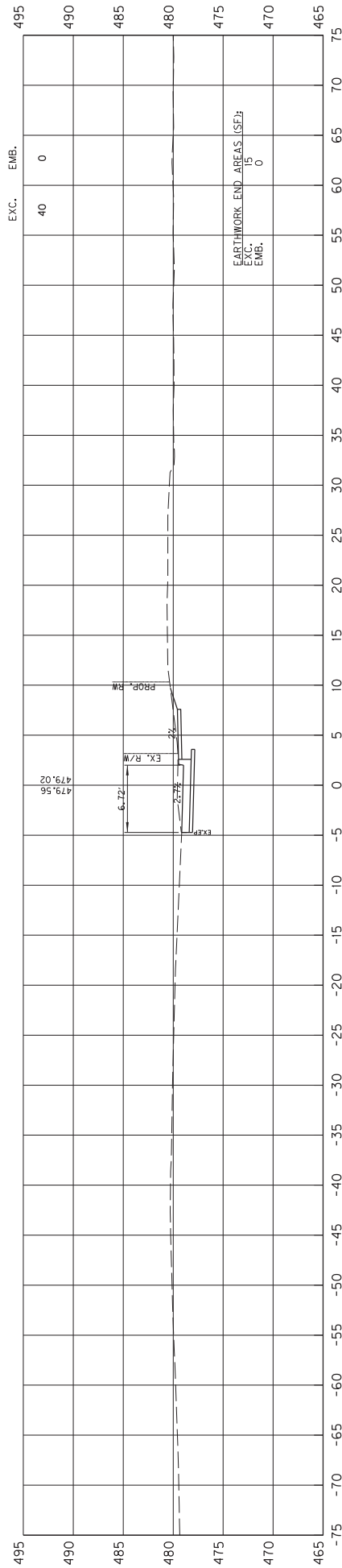
SCALE: HORIZONTAL
1" = 5'

VERTICAL
1" = 5'

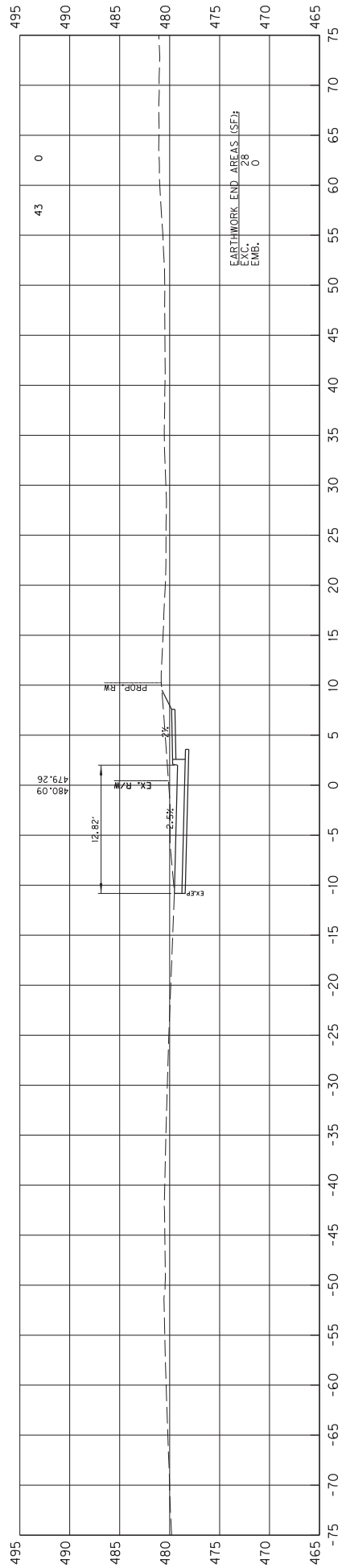
HIGHWAY SAFETY IMPROVEMENT PROJECT
STA. 10+85 TO STA. 11+00
GRADE LANE TURN LANE WIDENING

COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-9000.10	X3

EARTHWORK VOLUMES (CY):



12+00



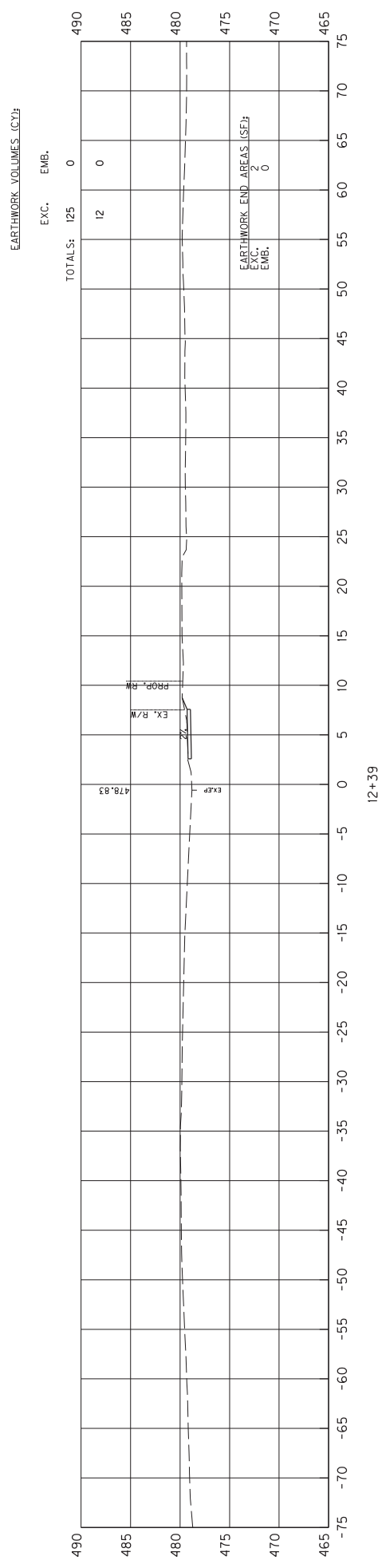
11+50

SCALE: H: 1" = 5' HORIZONTAL
V: 1" = 5' VERTICAL

HIGHWAY SAFETY IMPROVEMENT PROJECT
STA. 11+50 TO STA. 12+00
GRADE LANE TURN LANE WIDENING

COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-9000.10	X4

Power InRoads v8.11.5.397 E-SHEET NAME: DATE PLOTTED: November 8, 2018 USR: gndr*
 FILE NAME: C:\PW\WORKDIR\ANDREW-B\MS56402\SECTIONS\04L RIGHT.DGN



HIGHWAY SAFETY IMPROVEMENT PROJECT
STA. 12+39
GRADE LANE TURN LANE WIDENING

12+39

COUNTY OF	JEFFERSON
ITEM NO.	5-9000.00
SHEET NO.	11

OUTER LOOP/ NEW CUT	GRADE LN/ PRESTON HWY	TOTAL	UNITS	CODE	ITEM DESCRIPTION	TRAFFIC SIGNAL ESTIMATE OF QUANTITIES
30	30	60	LIN FT	4792	CONDUIT 1 INCH	
	70	70	LIN FT	4795	CONDUIT 2 INCH	
2	1	3	EACH	4811	ELECTRICAL JUNCTION BOX TYPE B	
1500	1450	2950	LIN FT	4820	TRENCHING AND BACKFILLING	
3300	3000	6300	LIN FT	4844	LOOP WIRE	
1000	750	1750	LIN FT	4850	CABLE-NO. 14/5C	
250	550	800	LIN FT	4885	MESSANGER-10800 LB	
600	1200	1800	LIN FT	4895	LOOP SAW SLOT AND FILL	
	1	1	EACH	4931	INSTALL SIG CONTROLLER-TYPE T10	
	4	5	EACH	4932	INSTALL STEEL STRAIN POLE	
	1	1	EACH	24955ed	REMOVE SIGNAL EQUIPMENT	
	1	1	EACH	6472	INSTALL SPAN MOUNTED SIGN	
2	6	8	EACH	20093NS835	INSTALL PEDESTRIAN HEAD LED	
6	9	15	EACH	20094ES835	TEMPORARY RELOCATION OF SIGNAL HEAD	
8	12	20	EACH	20188NS835	INSTALL SIGNAL-3 SECTION LED	
2	1	3	EACH	20266ES835	INSTALL SIGNAL-4 SECTION LED	
	1	1	EACH	20390NS835	INSTALL COORDINATING UNIT	
4	80	80	LIN FT	21543EN	BOPE AND JACK CONDUIT	
5.5	18.8	24.3	CU YD	23157EN	INSTALL PEDESTRIAN DETECTOR	
1		1	EACH	23235EC	TRAFFIC SIGNAL POLE BASE	
110	110	220	LIN FT	24900EC	INSTALL PEDESTAL POST	
1	110	110	LIN FT	24901EC	PVC CONDUIT - 1 1/4 INCH - SCHEDULE 80	
1	4	5	EACH	23222EC	PVC CONDUIT - 2 INCH - SCHEDULE 80	
4		4	EACH	4884	ANCHOR	
	2	2	EACH	2039NS835	ELECTRICAL JUNCTION BOX TYPE A	

CONSTRUCTION AND MEASUREMENT NOTES THAT ARE CONTRARY TO SECTION 723.

SUBSECTION: 04.22 REMOVE SIGNAL EQUIPMENT. (CONSTRUCTION ONLY)
 REPLACE THE PARAGRAPH WITH THE FOLLOWING:
 THE DEPARTMENT WILL MEASURE THE QUANTITY OF EACH OF THE DEPARTMENT WILL
 THE DEPARTMENT WILL MEASURE THE QUANTITY OF EACH OF THE DEPARTMENT WILL
 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.

THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT
 EDITION, AND OTHER SPECIAL NOTES, AND SPECIFICATIONS WILL APPLY ON THIS
 PROJECT. SEE SECTION 706, 723, AND 112 FOR MEASUREMENT AND OTHER DETAILS.
 SEE SECTION 602 FOR SPIRAL REINFORCEMENT SPlicing.

THE CONTRACTOR SHALL MAKE AN INSPECTION OF THE PROJECT SITE PRIOR TO
 SUBMITTING A BID AND SHALL BE THOROUGHLY FAMILIARIZED WITH EXISTING
 CONDITIONS. SUBMISSIONS OF A BID WILL BE CONSIDERED AN AFFIRMATION OF THIS
 INSPECTION HAVING BEEN COMPLETED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PICKING UP, INSTALL, ITEMS FROM THE
 FRANKFORT POLE YARD AND DELIVERING THESE ITEMS TO THE SITE. THE
 CONTRACTOR SHALL CONTACT FRANKFORT POLE YARD PERSONNEL (502-782-8994/
 502-330-8153 OR EMAIL KIM.STAMPER@KY.GOV) AND ARRANGE TO PICK UP, INSTALL ITEMS
 A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO ARRIVAL. THE CONTRACTOR SHALL ALSO
 CONTACT THE SIGNAL SYSTEM BRANCH (502-782-5543/502-782-5547 OR EMAIL
 JOE.THOMPSON@KY.GOV/ LARRY.IRISH@KY.GOV) TO ARRANGE PROGRAMMING OF THE
 ROUTER USED FOR COMMUNICATION IN THE TRAFFIC SIGNAL A MINIMUM OF TWO (2)
 WORKING DAYS PRIOR TO ARRIVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR
 SIGNAL SYSTEM BRANCH ADVANCE NOTICE TO PROVIDE POLE YARD PERSONNEL OR
 REFUSAL TO DISTRIBUTE EQUIPMENT UPON ARRIVAL.

ADD SENTENCE TO SECTION 835.15: ALL WIRE SHALL HAVE WORDING ADDED TO THE OUTER
 JACKET THAT STATES : *PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564
 0501*.

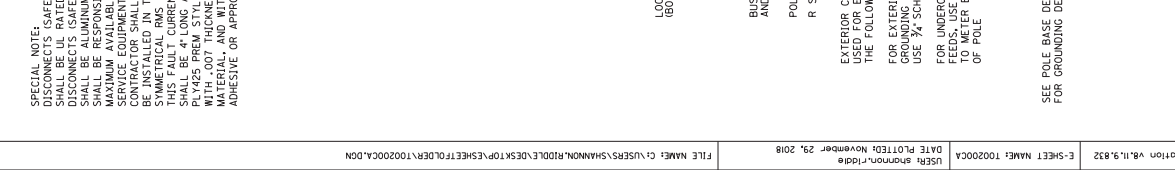
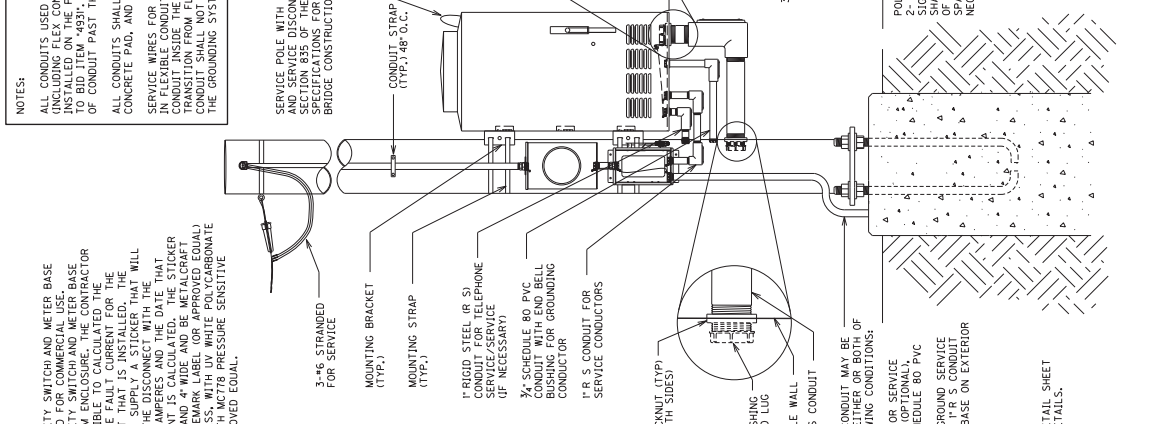
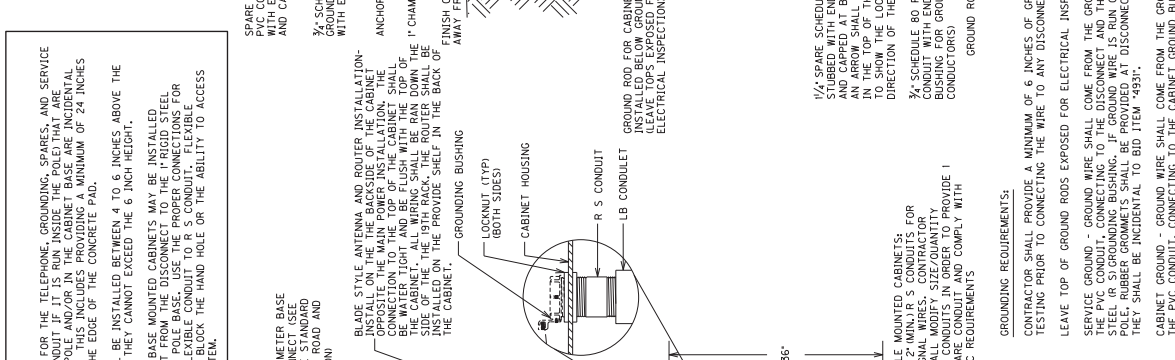
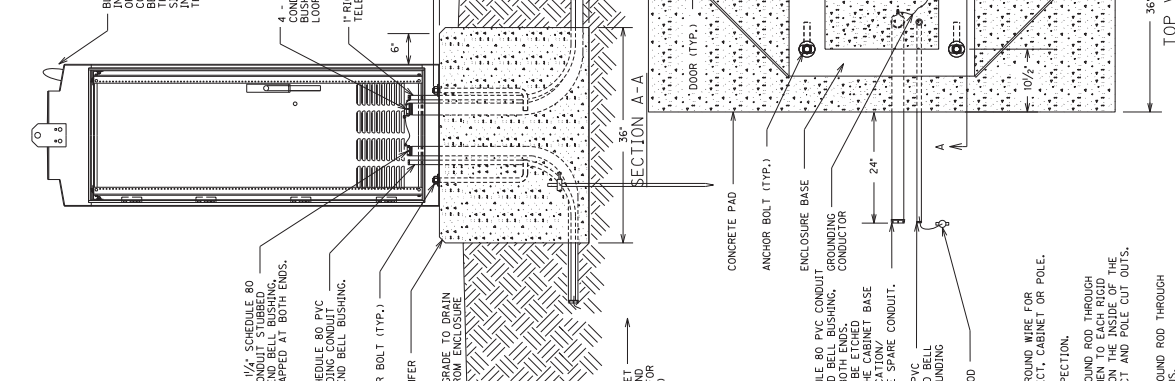
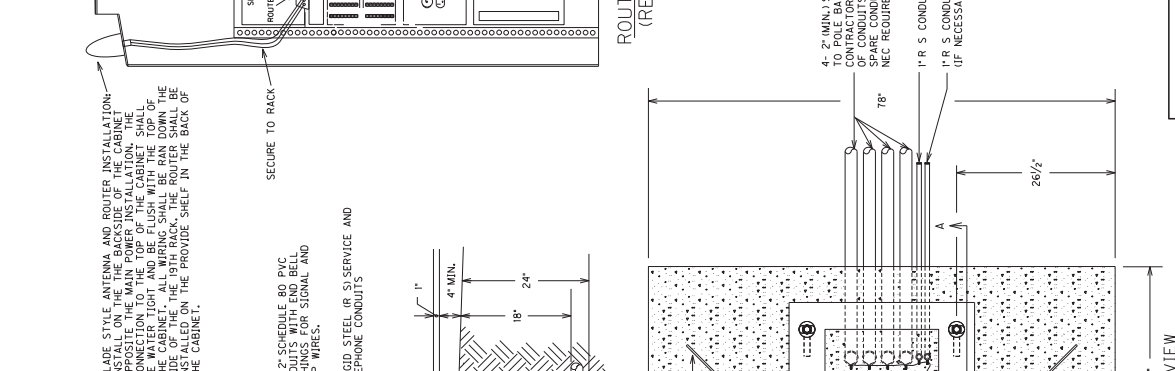
DESIGNED BY: SRIDDLE
 DATE SUBMITTED: 6/12/2018

Commonwealth of Kentucky
 DEPARTMENT OF HIGHWAYS
 COUNTY OF
JEFFERSON

PROJECT NUMBERS:

TRAFFIC SIGNAL
 ESTIMATE OF QUANTITIES
 MEASUREMENT, CONST, AND MISC NOTES

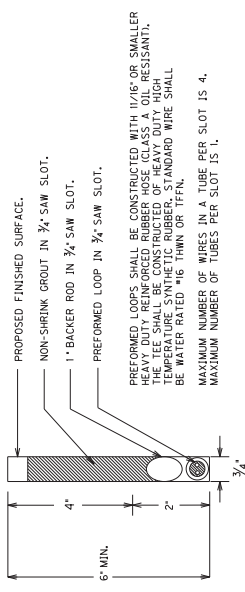
COUNTY OF	JEFFERSON
ITEM NO.	5-9000.00
SHEET NO.	T2



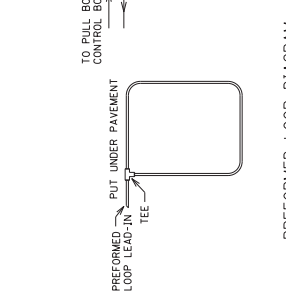
NOTES:

- ALL CONDUITS USED FOR THE TELEPHONE, GROUNDING, SPARES, AND SERVICE (INCLUDING FLEX CONDUIT IF IT IS RUN INSIDE THE POLE) THAT ARE INSTALLED TO THE POLE SHALL BE IDENTIFIED TO THE CONTRACTOR TO BID ITEM #4931. THIS INCLUDES PROVIDING A MINIMUM OF 24 INCHES OF CONDUIT PAST THE EDGE OF THE CONCRETE PAD.
- ALL CONDUITS SHALL BE INSTALLED BETWEEN 4 TO 6 INCHES ABOVE THE CONCRETE PAD, AND THEY CANNOT EXCEED THE 6 INCH HEIGHT.
- SERVICE WIRES FOR BASE MOUNTED CABINETS MAY BE INSTALLED THROUGH THE CONDUIT INSIDE THE POLE BASE. USE THE PROPER CONNECTIONS FOR TRANSMISSION FROM FLEXIBLE CONDUIT TO R/S CONDUIT. FLEXIBLE CONDUIT SHALL NOT BLOCK THE HAND HOLE OR THE ABILITY TO ACCESS THE GROUNDING SYSTEM.
- BLADE STYLE ANTENNA AND ROUTER INSTALLATION - INSTALL ON THE BACKSIDE OF THE CABINET OPPOSITE THE MAIN POWER INSTALLATION. THE CONNECTION TO THE TOP OF THE CABINET SHALL BE MADE THROUGH THE MAIN POWER INSTALLATION SIDE OF THE 19TH RACK. ALL WIRING SHALL BE RAN DOWN THE SIDE OF THE 19TH RACK. THE ROUTER SHALL BE INSTALLED IN THE PROVIDED SHELF IN THE BACK OF THE CABINET.
- GROUNDING BUSHING (BOTH SIDES)
- CABINET HOUSING
- LOCNUT (TYP)
- LB CONDUIT
- GROUND ROD - GROUND WIRE SHALL COME FROM THE GROUND ROD THROUGH THE PVC CONDUIT, CONNECTING TO THE CABINET GROUND BUS.
- GROUNDING REQUIREMENTS: CONTRACTOR SHALL PROVIDE A MINIMUM OF 6 INCHES OF GROUND WIRE FOR TESTING PRIOR TO CONNECTING THE WIRE TO ANY DISCONNECT, CABINET OR POLE. LEAVE TOP OF GROUND RODS EXPOSED FOR ELECTRICAL INSPECTION.
- SERVICE GROUND - GROUND WIRE SHALL COME FROM THE GROUND ROD THROUGH THE PVC CONDUIT, CONNECTING TO THE DISCONNECT AND THEN TO EACH RIGID STEEL (R/S) GROUNDING BUSHING. IF GROUND WIRE IS RUN ON THE INSIDE OF THE CABINET, IT SHALL BE INSTALLED IN THE PROVIDED SHELF IN THE BACK OF THE CABINET. THEY SHALL BE INCIDENTAL TO BID ITEM #4931.
- CABINET GROUND - GROUND WIRE SHALL COME FROM THE GROUND ROD THROUGH THE PVC CONDUIT, CONNECTING TO THE CABINET GROUND BUS.
- EXTERIOR CONDUIT MAY BE USED FOR EITHER OR BOTH OF THE FOLLOWING CONDITIONS: FOR EXTERIOR SERVICE GROUNDING (OPTIONAL), USE 3/4" SCHEDULE 80 PVC FOR UNDERGROUND SERVICE FEEDS, USE 1" R/S CONDUIT FOR BASE ON EXTERIOR OF POLE.
- SEE POLE BASE DETAIL SHEET FOR GROUNDING DETAILS.

SHEET NO.	13
ITEM NO.	5-9000.00
COUNTY OF	JEFFERSON



ASPHALT SAW SLOT DETAIL FOR PREFORMED LOOP
Use detail for concrete application if concrete is 4' or less



PREFORMED LOOP CROSS SECTION



LOOP WIRE PLAN



PREFORMED LOOP DIAGRAM



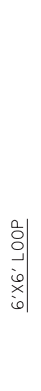
5'x6' PREFORMED LOOP



CONSTRUCTION DETAILS FOR LOOP SAW SLOT AND FILL BID ITEM:
1. CAREFULLY MARK THE SLOT TO BE CUT, PERPENDICULAR TO THE FLOW OF TRAFFIC.
2. MAKE EACH SAW-CUT 3/8\"/>



SAW SLOT EDGE OF PAVEMENT TRANSITION



SECTION A-A (SAW SLOT DETAIL)



LOOP WIRE PLAN



TO PULL BOX OR CONTROL BOX



6'x6' LOOP



SAW CUT PLAN



LOOP WIRE PLAN



TO PULL BOX OR CONTROL BOX



6'x30' QUADRAPOLE LOOP



WIRING PLAN



TO PULL BOX OR CONTROL BOX



SAW CUT PLAN



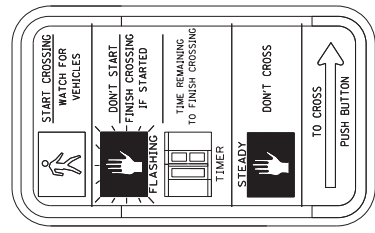
6'x30' QUADRAPOLE LOOP

C-SHEET NAME:	100300P
DATE PLOTTED:	November 29, 2018
USER:	shannon.talbot
FILE NAME:	C:\ISERS\SHANNON.TALBOT\DESKTOP\SHSHEET\TR00300L.DGN

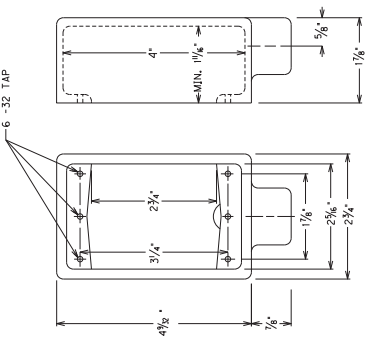
2/13/2016

2/13/2016

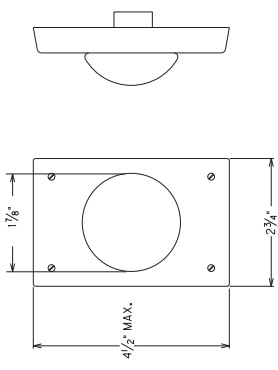
COUNTY OF	ITEM NO.	SHEET NO.
JEFFERSON	5-9000.00	T4



RIO-3e SIGN (9' X 15')
FOR COUNTDOWN ONLY

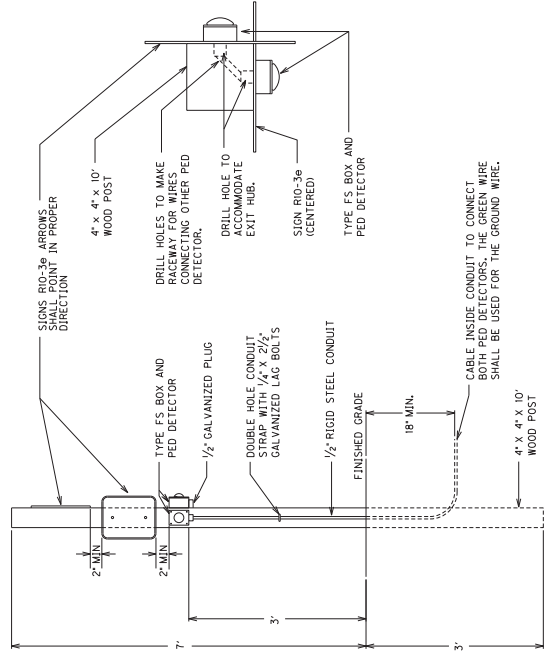


TYPE FS BOX FOR PED DETECTOR FOR USE WITH STEEL STRAIN POLE, WOOD POST, PEDESTAL, AND WOOD POLE

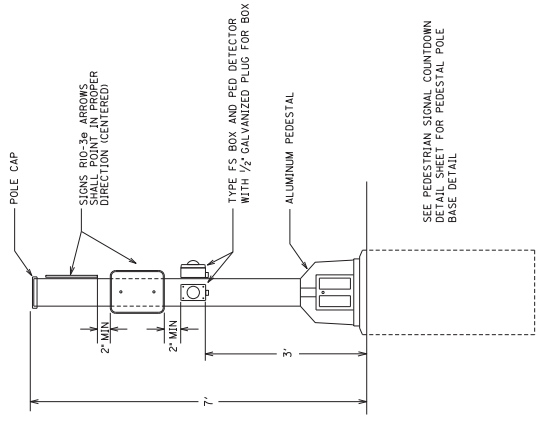


PEDESTAL DETECTOR

#8 X 1/2 PAN HEAD OR ROUND HEAD WOOD SCREWS 1/2" DEEP FOR EACH MOUNTING POINT OF 2 SCREWS FOR EACH BOX. SCREWS SHALL BE INSTALLED DIAGONALLY.



PEDESTAL DETECTOR ON WOOD POST DETAIL

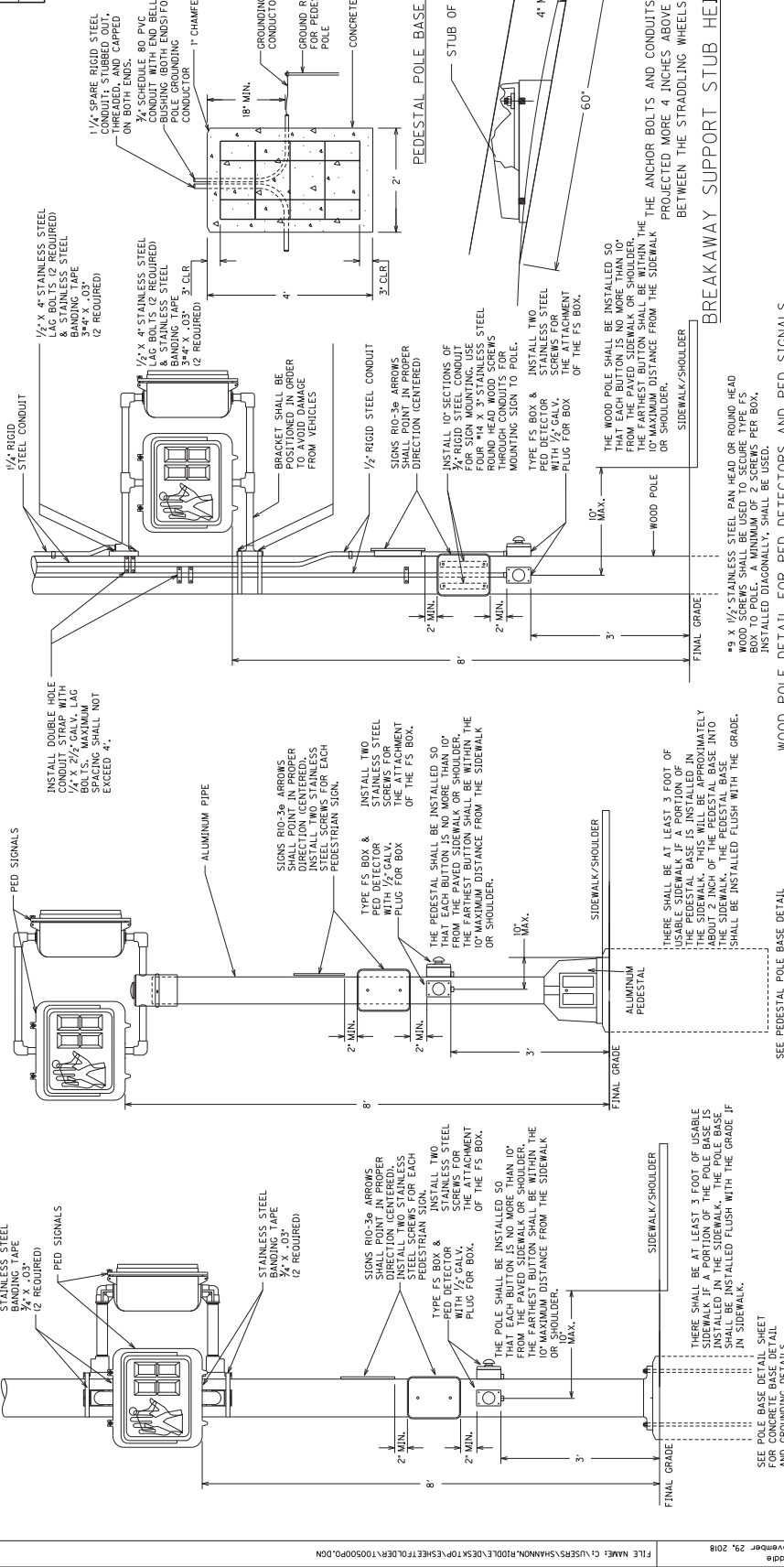


PEDESTAL DETECTOR ON WOOD POST DETAIL

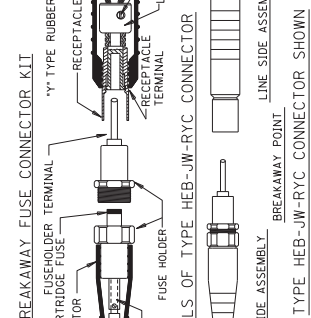
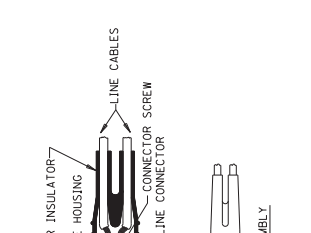
6/22/2012

PEDESTRIAN DETECTOR DETAIL

COUNTY OF	JEFFERSON
ITEM NO.	5-9000.00
SHEET NO.	15



NOTE: PEDESTAL BASE DOOR SHALL HAVE THE EXTERIOR SURFACE FINISHED WITH A FINISH MATCHING THE FINISH OF THE CURB. THE STICKER SHALL BE METALCRAFT PLY695 PREM STYLEMARK LABEL WITH .007 THICKNESS, WITH UV WHITE POLYCARBONATE MATERIAL, AND WITH POLYURETHANE FINISH. THIS SHALL BE INCIDENTAL TO THE PROJECT.



WOOD POLE DETAIL FOR PED DETECTORS AND PED SIGNALS

*9 x 1/2\"/>

PEDESTAL POLE DETAIL FOR PED DETECTORS AND PED SIGNALS

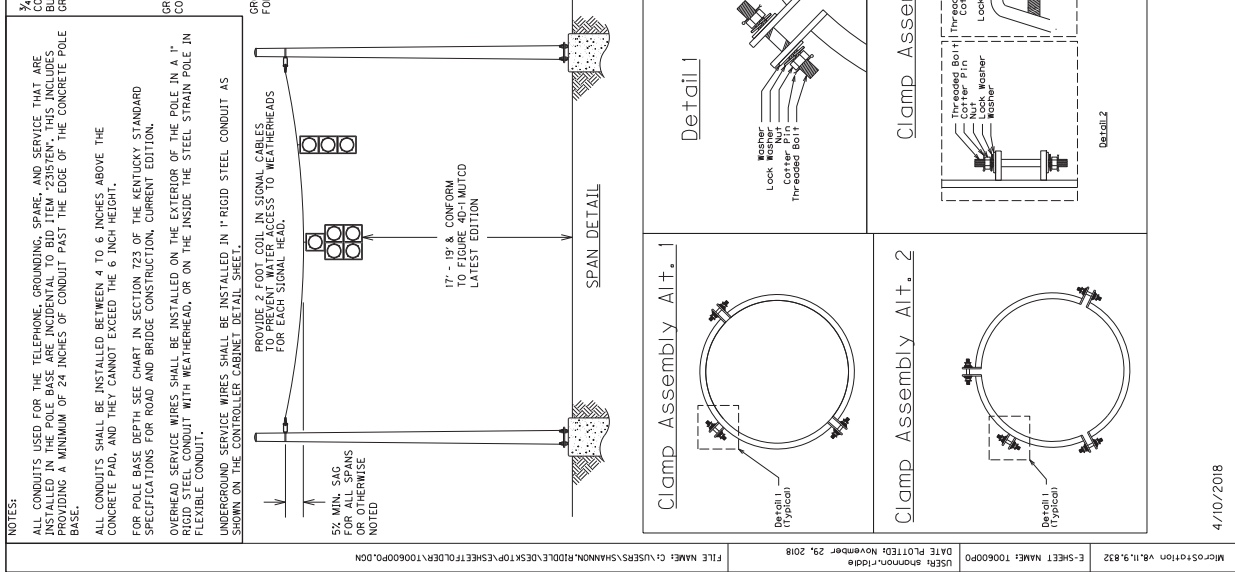
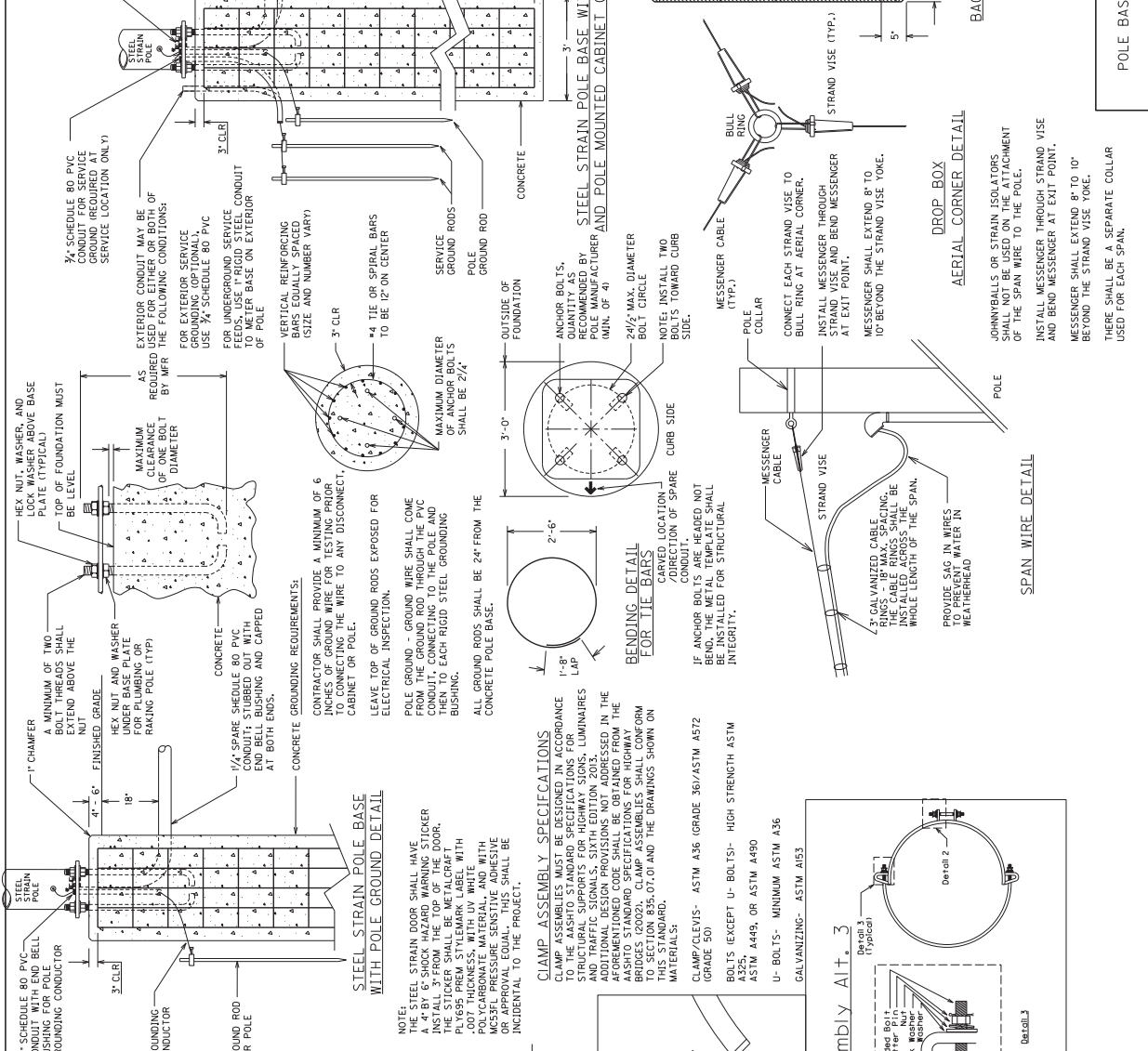
CONTRACTOR SHALL DRILL HOLES IN THE PIPE AND THE PEDESTAL BASE PRIOR TO CONNECTING THE WIRE TO THE PEDESTAL BASE. THIS INCLUDES PROVIDING A MINIMUM OF 24 INCHES OF CONDUIT PAST THE EDGE OF THE CONCRETE BASE. AN ARROW SHALL BE ETCHED INTO THE TOP OF THE PEDESTAL BASE TO SHOW LOCATION AND DIRECTION OF THE SPARE CONDUIT.

STEEL STRAIN POLE DETAIL FOR PED DETECTORS AND PED SIGNALS

CONTRACTOR SHALL DRILL HOLES IN THE STEEL STRAIN POLE AND THE PEDESTAL BASE PRIOR TO CONNECTING THE WIRE TO THE PEDESTAL BASE. THIS INCLUDES PROVIDING A MINIMUM OF 24 INCHES OF CONDUIT PAST THE EDGE OF THE CONCRETE BASE. AN ARROW SHALL BE ETCHED INTO THE TOP OF THE PEDESTAL BASE TO SHOW LOCATION AND DIRECTION OF THE SPARE CONDUIT.

FILE NAME: C:\USERS\SHANNON.RIDDLE\DESKTOP\PROJECTS\121GR19T002\HSP1	DATE PLOTTED: November 29, 2018
USER: shannon.riddle	DATE PLOTTED: November 29, 2018
C-SHEET NAME: 01.9.828	4/10/2018
C-SHEET NUMBER: 01.9.828	

COUNTY OF	JEFFERSON
ITEM NO.	5-9000.00
SHEET NO.	T6

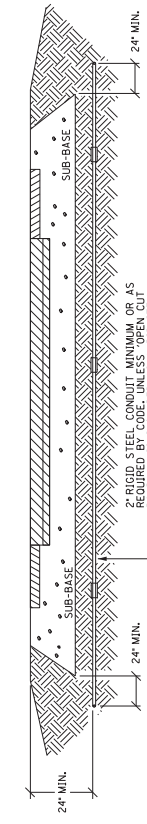
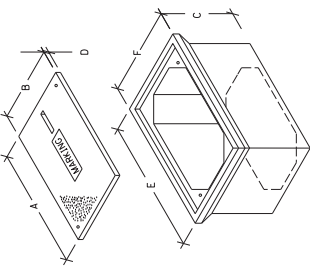


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USER: spannon\tdale DATE PLOTTED: November 29, 2018
E-SHEET NAME: 100600P0
4/10/2018

COUNTY OF	JEFFERSON
ITEM NO.	5-9000.00
SHEET NO.	TT

JUNCTION BOX DIMENSIONS (NOMINAL)						
	A	B	C	D	E	F
TYPE A	23"	14"	27"	2"	25"	15"
TYPE B	18"	11"	12"	1 1/4"	20"	13"
TYPE C	36"	24"	30"	3"	38"	26"

* MINIMUM
NOTES: STACKABLE BOXES ARE PERMITTED
JUNCTION BOX



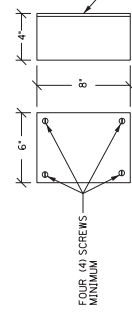
CONDUIT INSTALLATION UNDER EXISTING PAVEMENT DETAIL

DEPTHS SHOWN FOR CONDUIT AND WARNING TAPE SHALL BE AS SHOWN. CONTRACTOR SHALL PLACE AND COMPACT BACKFILL IN 9" MAXIMUM LIFT TO THE SATISFACTION OF THE ENGINEER.

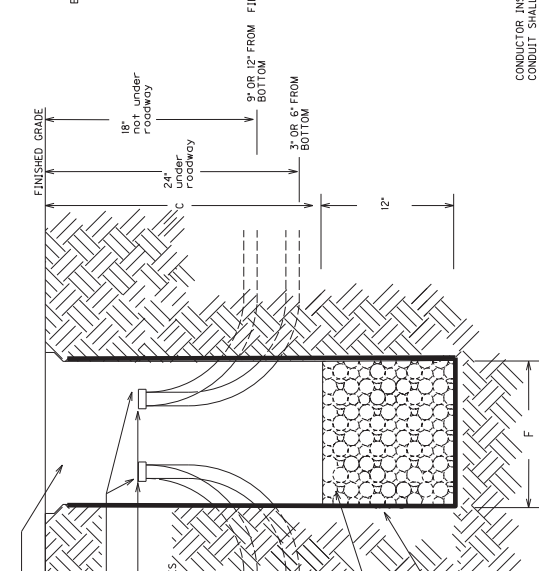
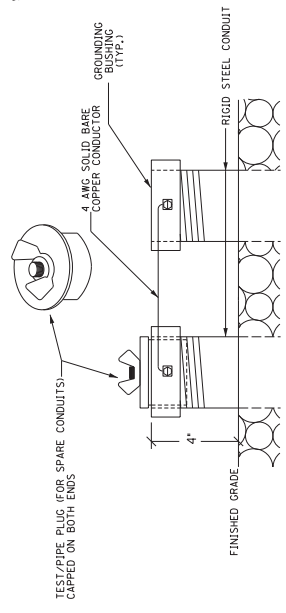


CONDUIT, DUCTED CABLE, AND WARNING TAPE TRENCH

ABOVE GROUND BOX SHALL BE FABRICATED FROM MINIMUM 1/2" GAUGE STEEL AND SHALL HAVE NO ANCKOUTS AND SHALL BE PROVIDED WITH A RESISTANT GASKET AND A MINIMUM OF FOUR SCREWS FOR ATTACHING TO THE SURFACE. CABLE CLAMPS SHALL BE PROVIDED FOR CABLES ENTERING AND EXITING THE BOX.

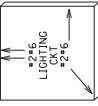


ABOVE GROUND BOX



JUNCTION BOX INSTALLATION FOR CONVENTIONAL LIGHTING

BEFORE THE INSTALLATION OF THE #57 AGGREGATE AND JUNCTION BOX, THE CONTRACTOR SHALL INSTALL AND JUNCTION BOX FABRIC SHALL EXTEND TO THE JUNCTION BOX AND SHALL BE CONTINUOUSLY ADHERED TO THE EXTERIOR OF THE BOX WITH ADHESIVE. ANY FABRIC SHALL BE CUT ONLY AS MUCH AS NECESSARY TO ALLOW PASSAGE OF EACH INDIVIDUAL CONDUIT THROUGH THE FABRIC. THE FABRIC SHALL BE INCIDENTAL TO BID ITEMS 48H, 2039NS835, OR 2039NS835.

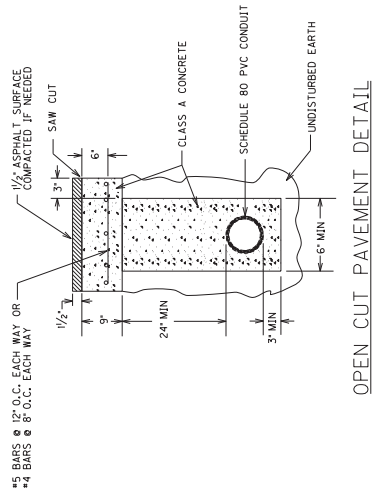


TEST/PIPE PLUG(FOR SPARE CONDUITS) AND GROUNDING DETAIL CONCRETE CABLE MARKERS

3/13/2017

TRAFFIC SIGNAL AND ROADWAY LIGHTING
JUNCTION BOX AND CONDUIT DETAILS

COURTY OF JEFFERSON	ITEM NO. 5-9000.00	SHEET NO. T8
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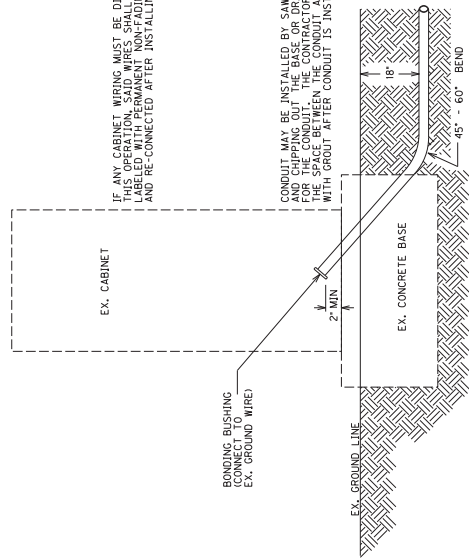


OPEN CUT PAVEMENT DETAIL

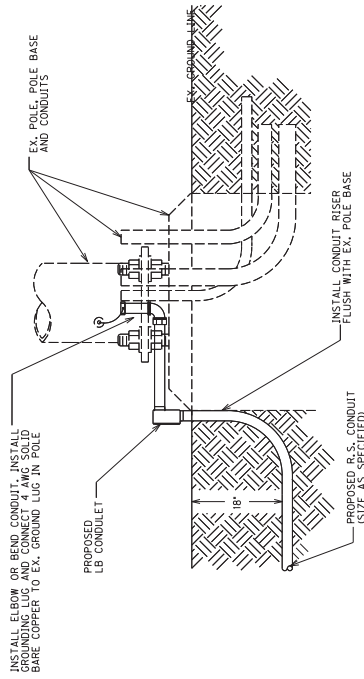
15 BARS @ 12" O.C. EACH WAY OR
4 BARS @ 8" O.C. EACH WAY

IF ANY CABINET WIRING MUST BE DISCONNECTED FOR
REPAIRS, THE CONTRACTOR SHALL REMOVE THE WIRING,
LABEL WITH PERMANENT NON-FADING LABELS,
AND RE-CONNECT AFTER INSTALLING CONDUIT

CONDUIT MAY BE INSTALLED BY SAWING A SLOT
AND CHIPPING OUT THE BASE OR DRILLING A HOLE
FOR THE CONDUIT. THE CONTRACTOR SHALL FILL
THE SLOT OR HOLE WITH GROUT WHEN THE CONDUIT
WITH GROUT AFTER CONDUIT IS INSTALLED



CONDUIT INSTALLATION IN EX. CABINET BASE



CONDUIT INSTALLATION IN EX. POLE BASE

3/10/2017

CONDUIT INSTALLATIONS IN
EXISTING LOCATIONS

SHEET NO. TO	10
ITEM NO.	5-0010.00
COUNTY OF	JEFFERSON

WIRING SCHEDULE

CABLE	ORIGIN	ENDING	CONNECTION
1-1/4" SC	CONTROLLER	SH 2C	CONNECTION
1-1/4" SC	CONTROLLER	SH 5	SH 2A, 2B & 2C
1-1/4" SC	CONTROLLER	SH 6A	SH 5
1-1/4" SC	CONTROLLER	SH 6B	SH 6A, 6B & 6C
1-1/4" SC	CONTROLLER	SH 6C	SH 6A, 6B & 6C
1-1/4" SC	CONTROLLER	OLA-1	SH 6A, 6B & 6C
1-1/4" SC	CONTROLLER	OLA-2	SH 6A, 6B & 6C
1-1/4" SC	CONTROLLER	OLA-3	SH 6A, 6B & 6C
1-1/4" SC	CONTROLLER	PH 4A	PH 8D & PED DETECTOR
1-1/4" SC	CONTROLLER	PH 4B	PH 8E & PED DETECTOR
1-1/4" SC	CONTROLLER	PH 6C	PH 8E & PED DETECTOR
1-1/4" SC	CONTROLLER	PH 6D	PH 8E & PED DETECTOR
1-1/4" SC	CONTROLLER	PH 2D	PH 2D & PED DETECTOR
1-1/4" SC	CONTROLLER	PH 2E	PH 2E & PED DETECTOR
1-1/4" SC	CONTROLLER	PH 2F	PH 2E & PED DETECTOR
1-1/4" SC	CONTROLLER	JB AI	LOOPS OLA-1 & OLA-2
1-1/4" SC	CONTROLLER	JB BI	LOOP 8A
1-1/4" SC	CONTROLLER	JB BI	LOOP 5

STEEL STRAIN POLES

POLE	HEIGHT	SPAN	ATT. HT.	CALC. SERV. MOMENT	S&G
A	36'	A-B	35.5'	129.02	5%
B	36'	B-A	35'	147.11	5%
C	32'	C-B	27.5'	136.29	5%
D	32'	D-A	22.5'	75.46	5%

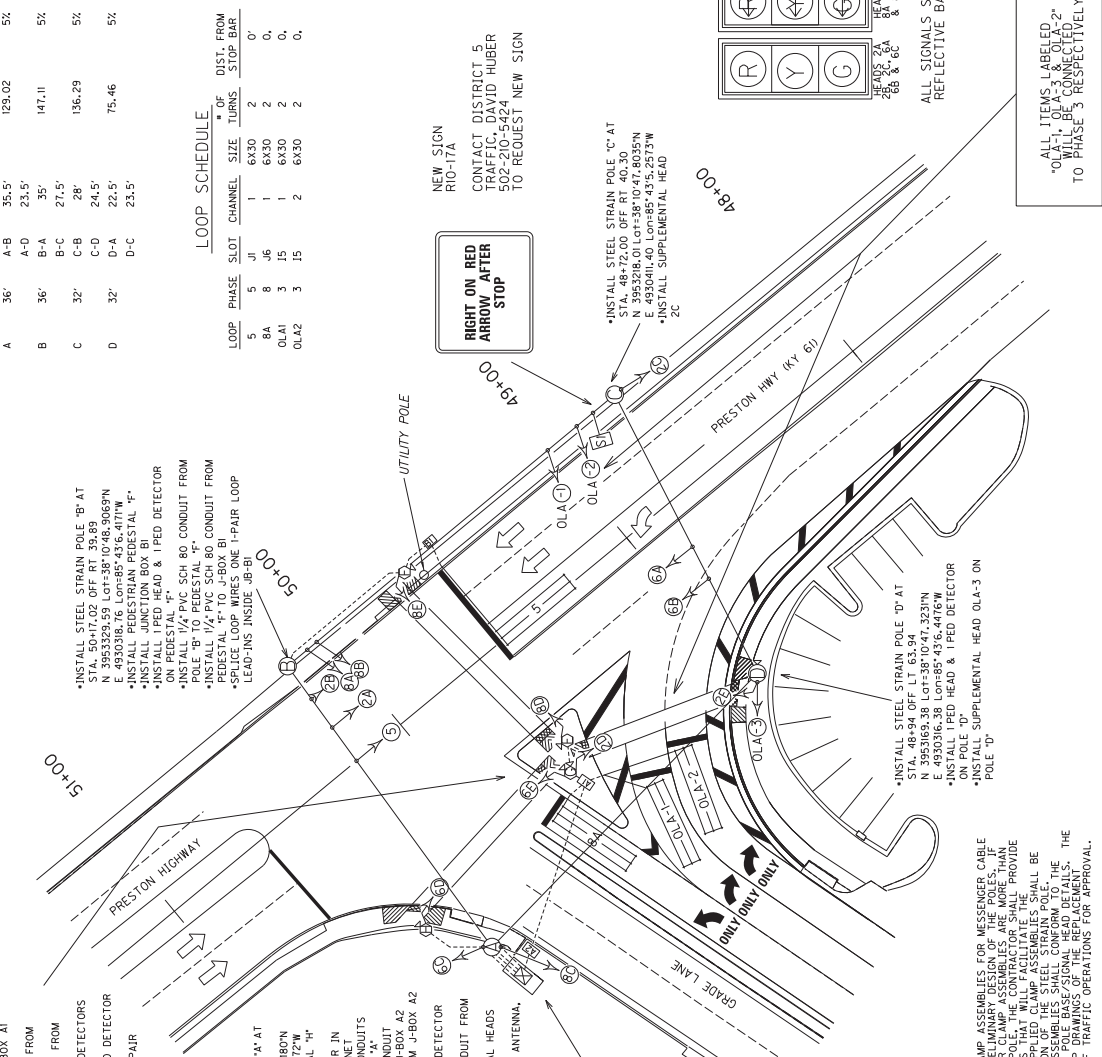
LOOP SCHEDULE

LOOP	PHASE	SLOT	CHANNEL	SIZE	TURNS	DIST. FROM STOP BAR
5	J	J	1	6X30	2	0'
8A	J	J	1	6X30	2	0
OLA1	J	J	1	6X30	2	0
OLA2	J	J	1	6X30	2	0

ALL MESSENGER IS 10.800LB
ALL 6 X 30 FOOT LOOPS SHALL BE QUADRA-POLE

- ISLAND GUARANTY NOTES**
- *INSTALL PEDESTRIAN PEDESTALS 'E' AND 'C'
 - *INSTALL JUNCTION BOX AT EACH END OF CONDUIT FROM J-BOX A1 TO J-BOX A2
 - *INSTALL 2" PVC SCH 80 CONDUIT FROM J-BOX A1 TO PEDESTAL 'C'
 - *INSTALL 1/2" PVC SCH 80 CONDUIT FROM PEDESTAL 'C' TO PEDESTAL 'E'
 - *INSTALL 2 PED HEADS & 2 PED DETECTORS ON PEDESTAL 'C'
 - *INSTALL 1 PED HEAD AND ONE PED DETECTOR ON PEDESTAL 'E'
 - *LEAD-IN WIRES TO THREE I-PAIR LOOP LEAD-INS INSIDE JB A1

- *INSTALL 1/2" PVC SCH 80 CONDUIT FROM STA. 50+17.02 OFF RT 38.89
- *INSTALL 1/2" PVC SCH 80 CONDUIT FROM E 4930338.16 Lon+85°43'6.411"W
- *INSTALL JUNCTION BOX BI
- *INSTALL I PED HEAD & I PED DETECTOR ON PEDESTAL 'F'
- *INSTALL 1/2" PVC SCH 80 CONDUIT FROM STA. 50+24.25 OFF LT 78.36
- *INSTALL 1/2" PVC SCH 80 CONDUIT FROM E 4930222.56 Lon+85°43'7.612"W
- *INSTALL PEDESTRIAN PEDESTAL 'H'
- *INSTALL I PED HEAD & I PED DETECTOR ON PEDESTAL 'H'
- *INSTALL TYPE I TO CONTROLLER IN MODEL 332 BASE MOUNT CABINET
- *INSTALL 4- 2" PVC SCH 80 CONDUITS FROM CONTROLLER TO POLE 'A'
- *INSTALL I PED HEAD & I PED DETECTOR FROM CONTROL CABINET TO J-BOX A2
- *INSTALL I-2" RS CONDUIT FROM J-BOX A2 TO J-BOX A1
- *INSTALL I PED HEAD & I PED DETECTOR ON PEDESTAL 'A'
- *INSTALL 1/2" PVC SCH 80 CONDUIT FROM POLE 'A' TO PEDESTAL 'H'
- *INSTALL SUPPLEMENTAL SIGNAL HEADS 'G' & 'C' ON POLE 'A'
- *INSTALL TYPE I ROUTER, ANTENNA, AND POWER SUPPLY



RIGHT ON RED ARROW AFTER STOP

NEW SIGN RIO-17A
CONTACT DISTRICT 5 TRAFFIC, DAVID HUBER
502-210-5424
TO REQUEST NEW SIGN

*INSTALL STEEL STRAIN POLE 'C' AT STA. 48+72.00 OFF RT 40.30
N 3953218.01 Lon+38°10'47.8035"N
E 4930411.40 Lon+85°43'5.2573"W
*INSTALL SUPPLEMENTAL HEAD 2C

*INSTALL STEEL STRAIN POLE 'D' AT STA. 48+94.04 OFF LT 63.94
N 3953169.38 Lon+38°10'47.3231"N
E 4930316.38 Lon+85°43'6.4416"W
*INSTALL I PED HEAD & I PED DETECTOR ON PEDESTAL 'D'

THE CABINET SHALL SUPPLY CLAMP ASSEMBLIES FOR MESSENGER, CABLE ATTACHMENTS BASED ON THE PRELIMINARY DESIGN OF THE POLES. IF THE ATTACHMENT LOCATIONS FOR CLAMP ASSEMBLIES ARE MORE THAN 1/2" FROM THE TOP OF THE POLES, THE CONTRACTOR SHALL PROVIDE REPLACEMENT CLAMP ASSEMBLIES THAT WILL FACILITATE THE INSTALLATION. CONTRACTOR SUPPLIED CLAMP ASSEMBLIES SHALL BE IDENTIFIED TO THE DIVISION. ALL CLAMP ASSEMBLIES SHALL CONFORM TO THE SPECIFICATIONS STATED ON THE POLE BASE/SIGNAL HEAD DETAILS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY ASSEMBLIES TO THE DIVISION OF TRAFFIC OPERATIONS FOR APPROVAL.

LEGEND

- BASE MOUNTED CONTROLLER
- STEEL STRAIN POLE
- PEDESTAL POLE
- JUNCTION BOXES TYPES A & B
- PEDESTRIAN DETECTOR
- SIGNAL HEAD
- PEDESTRIAN HEAD
- LOOP DETECTOR
- 1/2" PVC SCH 80 CONDUIT (UNLESS OTHERWISE NOTED)
- CONDUIT
- CONDUIT
- SIGN RIO-17A

SCALE: 1" = 20'

ALL INDICATIONS L.E.D.

ALL SIGNALS SHALL HAVE REFLECTIVE BACKPLATES

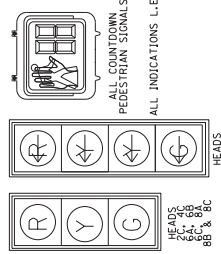
ALL ITEMS LABELED "OLA-1", "OLA-2" & "OLA-3" WILL BE CONNECTED TO PHASE 3 RESPECTIVELY

SIGNAL AT PRESTON HWY (KY 61)
AT GRADE LANE

SHEET NO.	T10
ITEM NO.	5-0010.00
COUNTY OF	JEFFERSON

THE CABINET SHALL SUPPLY CLAMP ASSEMBLIES FOR MESSENGER CABLE ATTACHMENTS BASED ON THE PRELIMINARY DESIGN OF THE POLES. IF THE CONTRACTOR DETERMINES THAT THE CLAMP ASSEMBLIES PROVIDED BY THE CONTRACTOR DO NOT MEET THE REQUIREMENTS OF THE PRELIMINARY DESIGN, THE CONTRACTOR SHALL PROVIDE REPLACEMENT CLAMP ASSEMBLIES THAT WILL FACILITATE THE INSTALLATION OF THE MESSENGER CABLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE STEEL STRAIN POLES. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE REPLACEMENT ASSEMBLIES TO THE DIVISION OF TRAFFIC OPERATIONS FOR APPROVAL.

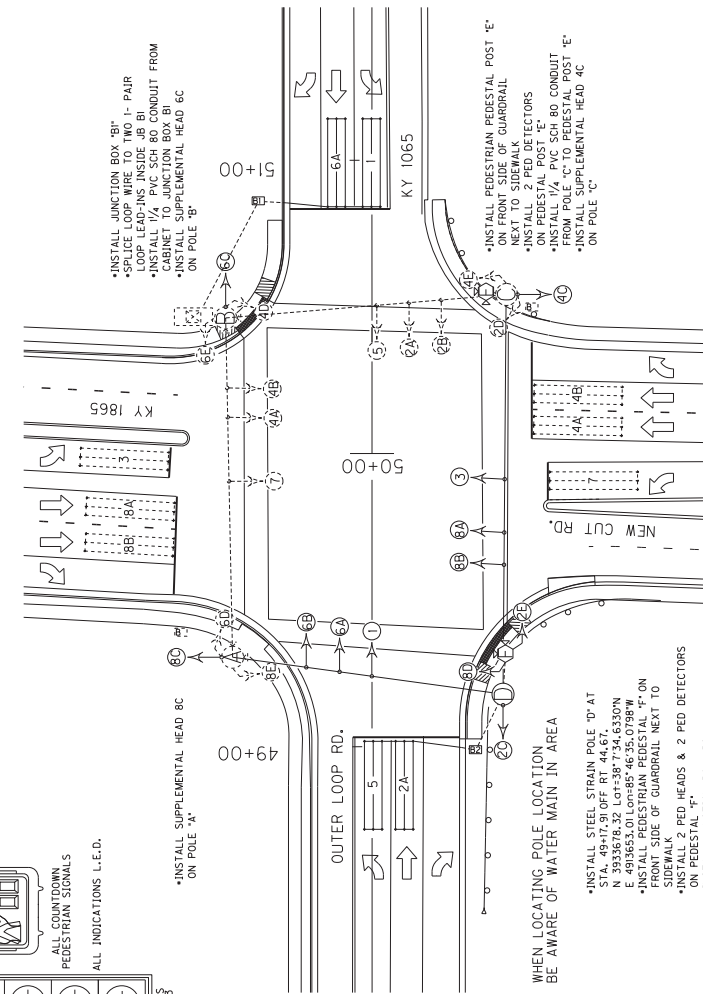
ALL SIGNAL HEADS SHALL HAVE REFLECTIVE BACKPLATES



WIRING SCHEDULE

CABLE	ORIGIN	CONTROLLER	ENDING	CONNECTION
1-14/5C	SH 1	CONTROLLER	SH 1	SH 1
1-14/5C	SH 6A, 6B & 6C	CONTROLLER	SH 6A, 6B & 6C	SH 6A, 6B & 6C
1-14/5C	SH 8A, 8B & 8C	CONTROLLER	SH 8A, 8B & 8C	SH 8A, 8B & 8C
1-14/5C	SH 3	CONTROLLER	SH 3	SH 3
1-14/5C	SH 2C	CONTROLLER	SH 2C	SH 2C
1-14/5C	SH 4C	CONTROLLER	SH 4C	SH 4C
1-14/5C	PH 2C & 4D	CONTROLLER	PH 2C & 4D	PH 2C & 4D
1-14/5C	PH 2D & PED DETECTOR	CONTROLLER	PH 2D & PED DETECTOR	PH 2D & PED DETECTOR
1-14/5C	PH 8C & PED DETECTOR	CONTROLLER	PH 8C & PED DETECTOR	PH 8C & PED DETECTOR
1-14/7PAIR	LOOP 6A	CONTROLLER	LOOP 6A	LOOP 6A
1-14/7PAIR	LOOP 2A	CONTROLLER	LOOP 2A	LOOP 2A
1-14/7PAIR	LOOP 5	CONTROLLER	LOOP 5	LOOP 5

FOR POLES 'A' & 'C' INSTALL 2 ANCHORS PER POLE. REMOVE ANCHORS AFTER EXISTING MESSENGER HAS BEEN REMOVED.



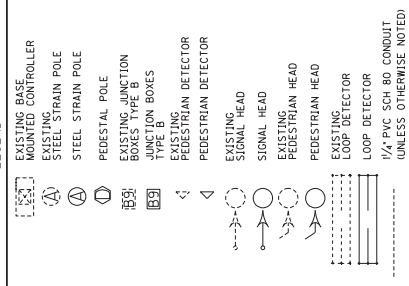
STEEL STRAIN POLES

POLE	HEIGHT	SPAN	ALT. HT.	CALC. SERV. MOMENT	LAG
A	30'	A-B	26.5'	EXISTING	5%
B	30'	B-A	27.5'	EXISTING	5%
C	30'	C-B	27'	EXISTING	5%
D	30'	D-A	26.5'	153.92	5%

LOOP SCHEDULE

LOOP	PHASE	SLOT	CHANNEL	SIZE	TURNS	DIST. FROM STOP BAR
1	1	J1	1	6X30	2	0'
2A	2	J2	1	6X30	2	0'
5	5	J1	1	6X30	2	0'
6A	6	J2	1	6X30	2	0'

LEGEND



ELASHING YELLOW ARROW SIGNAL WIRING AND SPECIAL REQUIREMENTS

CONDUCTOR CONNECTION	OUTPUT FILE CONNECTION FOR FTA ON PHASE	COLOR	OUTPUT FILE CONNECTION FOR FTA ON PHASE
RED ARROW	PHASE 1 RED	RED	PHASE 5 RED
STEADY YELLOW ARROW	PHASE 1 YELLOW	ORANGE	PHASE 5 YELLOW
FLASHING YELLOW ARROW	PHASE 1 GREEN	BLACK	PHASE 5 GREEN
GREEN ARROW	PHASE 1 GREEN	GREEN	PHASE 5 GREEN
NEUTRAL	WHITE	WHITE	WHITE

THE CONTRACTOR SHALL CONNECT THE CONNECTOR LABELED '2PY 4PY 6PY 8PY TO THE CORRESPONDING PHASES IN THE CABINET (SIEMENS) ONLY HAVE 2 CONNECTORS WHICH SIMPLY NEED TO BE CONNECTED TOGETHER.

ELASHING YELLOW ARROW SIGNAL WIRING AND SPECIAL REQUIREMENTS

CONDUCTOR CONNECTION	OUTPUT FILE CONNECTION FOR FTA ON PHASE	COLOR	OUTPUT FILE CONNECTION FOR FTA ON PHASE
RED ARROW	PHASE 3 RED	RED	PHASE 7 RED
STEADY YELLOW ARROW	PHASE 3 YELLOW	ORANGE	PHASE 7 YELLOW
FLASHING YELLOW ARROW	PHASE 3 GREEN	BLACK	PHASE 7 GREEN
GREEN ARROW	PHASE 3 GREEN	GREEN	PHASE 7 GREEN
NEUTRAL	WHITE	WHITE	WHITE

THE CONTRACTOR SHALL CONNECT THE CONNECTOR LABELED '2PY 4PY 6PY 8PY TO THE CORRESPONDING PHASES IN THE CABINET (SIEMENS) ONLY HAVE 2 CONNECTORS WHICH SIMPLY NEED TO BE CONNECTED TOGETHER.

ALL MESSENGER IS 10,800 LB ALL 6 X 30 FOOT LOOPS SHALL BE QUADRA-POLE

NEW POLE PLACEMENT AND SIGNAL CONFIGURATION: OUTER LOOP KY1065 & NEW CUT RD KY1865

COUNTY OF	ITEM NO.	SHEET NO.
JEFFERSON	5-9000.00	11

ROADWAY LIGHTING ESTIMATE OF QUANTITIES

TOTAL	UNITS	CODE	ITEM DESCRIPTION
1	EACH	4701	POLE 40' MTG HT
1	EACH	4723	BRACKET 10'
1	EACH	4740	POLE BASE
1	EACH	4750	TRANSFORMER BASE
8	EACH	4780	FUSED CONNECTOR KIT
620	LN FT	4795	CONDUIT 2 INCH
375	LN FT	4820	TRENCHING AND BACKFILLING
800	LN FT	4832	WIRE-NO. 12
2,000	LN FT	4833	WIRE-NO. 8
1	LP SUM	4940	REMOVE LIGHTING
4	EACH	4811	ELECTRICAL JUNCTION BOX TYPE B
300	LN FT	21543EN	BORE AND JACK CONDUIT
4	EACH	24589ED	LED LUMINAIRE

THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND OTHER SPECIAL NOTES AND SPECIFICATIONS WILL APPLY ON THIS PROJECT. SEE SECTION 716 FOR MEASUREMENT AND OTHER DETAILS. SEE SECTION 602 FOR SPIRAL REINFORCEMENT SPlicing

THE CONTRACTOR SHALL MAKE AN INSPECTION OF THE PROJECT SITE PRIOR TO SUBMITTING A BID AND SHALL BE THOROUGHLY FAMILIARIZED WITH EXISTING CONDITIONS. SUBMISSIONS OF A BID WILL BE CONSIDERED AN AFFIRMATION OF THIS INSPECTION HAVING BEEN COMPLETED.

ADD SENTENCE TO SECTION 834.09; ALL WIRE SHALL HAVE WORDING ADDED TO THE OUTER JACKET THAT STATES: "PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564 0501".

ADD SENTENCE TO SECTION 834.09; ALL WIRE SHALL HAVE WORDING ADDED TO THE OUTER JACKET THAT STATES: "PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564 0501".

CONSTRUCTION AND MEASUREMENT NOTES THAT ARE CONTRARY TO SECTION 716 AND 834

SUBSECTION: 716.03.03 B TRENCHING.
REVISION: REMOVE ENTIRE FOURTH SENTENCE IN FIRST PARAGRAPH: NO PAYMENT FOR ADDITIONAL JUNCTION BOXES FOR GREATER DEPTHS WILL BE ALLOWED.

SUBSECTION: 834.14.02 TRANSFORMER BASES.
REVISION: REMOVE SENTENCE: CONSTRUCT THE DOOR OF A HIGH DENSITY POLYETHYLENE MATERIAL IN COLOR THAT MATCHES THE BASE.

REPLACE THE FOLLOWING SENTENCE WITH THE FOLLOWING:
CONSTRUCT THE DOOR OF AN ALUMINUM MATERIAL IN A COLOR THAT MATCHES THE BASE. THE DOOR SHOULD HAVE A THEFT DETERRENT DEVICE THAT IS EQUAL TO THE LOCKDOWN LIGHTLOCK DOOR ASSEMBLY. THE DOOR LOCK WILL HAVE A LOCKING DEVICE WITH A KYTC CUSTOM KEY THAT WILL BE SENT TO CENTRAL OFFICE TRAFFIC OPERATIONS FROM THE MANUFACTURER, AND BE ISSUED TO THE CONTRACTOR FOR THE INSTALLATION OF THE JACKET. THE DOOR OF THE DOOR SHALL BE BLACK. THE DOOR SHALL BE 6" O.C. TRAFFIC OPERATIONS SHALL BE RESPONSIBLE FOR THE DOOR DESIGN. THE DOOR SHALL BE METALCRAFT PLY695 FRESH WARE STICKER. INSTALLED CENTER TOP OF EACH DOOR. THE STICKER SHALL BE METALCRAFT PLY695 FRESH WARE STICKER. INSTALLED THICKNESS. WITH UV WHITE POLYCARBONATE MATERIAL, AND WITH MC53FL PRESSURE SENSITIVE ADHESIVE. THE STICKER SHALL HAVE TWO COLORS OF BLACK AND CUSTOM COLOR ORANGE. THE WORDING FOR THE ARC FLASH STICKER SHALL BE THE FOLLOWING: "WARNING ARC FLASH HAZARD. APPROPRIATE PPE REQUIRED. FAILURE TO COMPLY CAN RESULT IN DEATH OR INJURY. REFER TO NFPA 70E."

MEASUREMENT NOTE THAT ARE IN ADDITION TO SECTION 716:

WIRE OR CABLE SHALL INCLUDE INSTALLING SPECIFIED WIRE OR CABLE WITHIN CONDUIT AS INDICATED ON THE PLAN SHEETS. INCIDENTAL TO THIS ITEM SHALL BE THE FURNISHING AND INSTALLING OF SPLICE BOOTS OR ANY OTHER HARDWARE REQUIRED FOR INSTALLING CABLE. THE CONTRACTOR SHALL INSTALL ALL CABLE OR WIRE RUNS SPLICE-FREE FROM THE CONTROLLER TO EACH POLE THE CABLE OR WIRE IS FEEDING. EXCEPT WHERE SHOWN OTHERWISE, ALL WIRE SHALL BE INSTALLED ON THE HOUSE SIDE OF THE POLE. THE CONTRACTOR SHALL RETURN ALL EXCESS WIRE TO THE TRAFFIC BARN IN DISTRICT 12. IF THE WIRE SUPPLIED DOES NOT EQUAL ENOUGH SUITABLE TO INSTALL ALL RUNS SPLICE-FREE, THE CONTRACTOR CAN ASK FOR MORE WIRE TO BE SUPPLIED BY THE DIVISION OF TRAFFIC OPERATIONS. THIS REQUEST SHALL GO THROUGH THE RESIDENT ENGINEER TO CENTRAL OFFICE DIVISION OF TRAFFIC OPERATIONS. EACH RUN OF WIRE FROM POLE TO POLE (UP EACH POLE) SHALL BE THE FOLLOWING COLOR CODED: 2-BLACK (HOT) AND GREEN (GROUND). THIS NOTE ONLY APPLIES TO BID CODES 23675EC AND 24474ED.

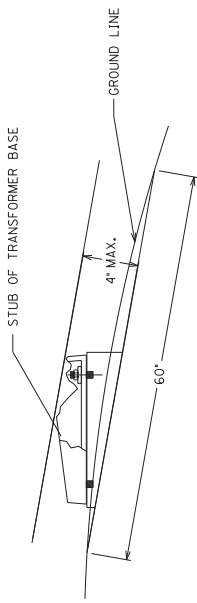
DESIGNED BY: S. RIDDLE
DATE SUBMITTED:

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF
JEFFERSON

PROJECT NUMBERS:

ROADWAY LIGHTING ESTIMATES
OF QUANTITIES

COUNTY OF	JEFFERSON
SHEET NO.	5-0010.00
ITEM NO.	
TO	

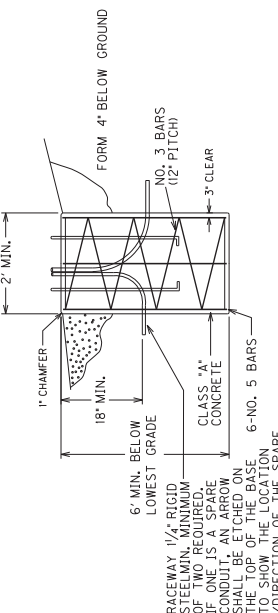


THE ANCHOR BOLTS AND CONDUITS SHALL NOT BE PROJECTED MORE THAN 4 INCHES ABOVE A GROUND LINE BETWEEN THE STRADDLING WHEELS OF A VEHICLE.

BREAKAWAY SUPPORT STUB HEIGHT MEASUREMENT

DUCTED CABLE INSTALLED THROUGH 3" CONDUIT CROSSINGS TO LUMINAIRE POLE BASE: THE DUCT SHOULD BE EXTENDED 1" ABOVE THE CONDUIT. THE CONDUIT SWEEP SHOULD BE INSTALLED ACCORDING TO THE MANUFACTURER OF THE DUCTED CABLE TO PREVENT THE DUCTED CABLE FROM CRIMPING.

IF DUCTED CABLE INSTALLED BETWEEN POLE BASES:
INSTALL RIGID STEEL/DUCTED CABLE COUPLING. USE BONDUIT CONDUIT ADHESIVE OR APPROVED EQUAL TO CONNECT THE RIGID STEEL/DUCTED CABLE. THE DUCTED CABLE SHALL BE THE SAME SIZE TO THE RIGID STEEL CABLE WHICH ATTACHES TO THE RIGID STEEL CONDUIT. ALTERNATELY IF DUCTED CABLE IS USED, THE CONTRACTOR CAN INSTALL RIGID STEEL CONDUIT TWO TIMES THE SIZE OF THE DUCTED CABLE. THIS CONDUIT SHALL BE INCREASED TO THE BENDING RADIUS RECOMMENDED BY THE MANUFACTURER OF THE DUCT.



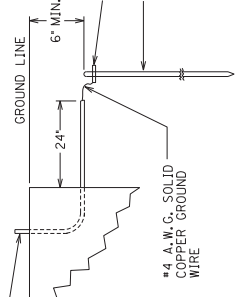
RACEWAY 1/4" RIGID STEEL CONDUIT SHALL BE ETCHED ON THE TOP OF THE BASE TO INDICATE THE DIRECTION OF THE SPARE CONDUIT.
IF ONE IS A SPARE CONDUIT, AN ARROW SHALL BE ETCHED ON THE TOP OF THE BASE TO INDICATE THE DIRECTION OF THE SPARE CONDUIT.
ALL POLE BASES SHALL HAVE A MINIMUM OF TWO CONDUITS (NOT INCLUDING GROUND WIRE) INSTALLED AT AN ANGLE OF 180 DEGREE FROM THE CONDUIT FOR THE CONDUCTORS.

NOTE: PRECAST CONCRETE BASES ARE NOT ACCEPTABLE

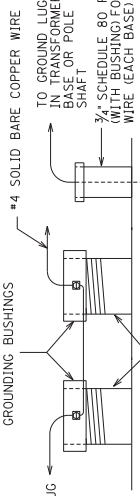
FOUNDATION DETAIL

3/20/2017

3/4" SCHEDULE 80 PVC CONDUIT (WITH BUSHING) FOR GROUND WIRE (EACH BASE) AND SHALL BE A MIN OF 24" FROM THE EDGE OF THE POLE BASE.



GROUNDING DETAIL



TYPICAL GROUNDING DETAIL

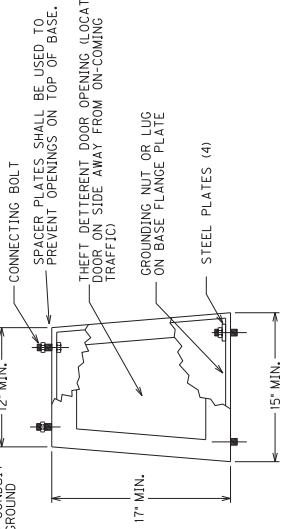
GROUNDING REQUIREMENTS:

CONTRACTOR SHALL PROVIDE A MINIMUM OF 6 INCHES OF GROUND WIRE FOR TESTING PRIOR TO CONNECTING THE WIRE TO TRANSFORMER BASE.

POLE/TRANSFORMER BASE GROUND - GROUND WIRE SHALL COME FROM THE GROUND ROD THROUGH THE PVC CONDUIT, CONNECTING TO THE TRANSFORMER BASE/POLE AND THEN TO EACH RIGID STEEL GROUNDING BUSHING.

NOTES:

ALL CONDUITS USED FOR THE GROUNDING, SPARES AND CONDUCTORS THAT ARE INSTALLED IN THE POLE BASE ARE INCIDENTAL TO BID ITEM 4740. THIS INCLUDES PROVIDING A MINIMUM OF 24 INCHES OF CONDUIT PAST THE EDGE OF THE POLE BASE.



CONCRETE BASES SHALL BE POURED LEVEL. NO MORE THAN A 3/8" GAP SHALL EXIST BETWEEN CONCRETE BASE AND TRANSFORMER BASE WHEN THE POLE IS PLUMBED.

TYPICAL

CAST ALUMINUM TRANSFORMER BASE

NOTE: THE TRANSFORMER BASE DOOR SHALL HAVE A 4" BY 6" ARC FLASH WARNING STICKER AND THE STICKER SHALL BE METAL GRAF. THE STICKER SHALL BE METAL GRAF. PLY 635 PREM STYLE MARK LABEL WITH .007 THICKNESS, WITH UV WHITE POLYCARBONATE MATERIAL, AND WITH PRESSURE SENSITIVE ADHESIVE APPLICATION. THIS SHALL BE INCIDENTAL TO PROJECT.

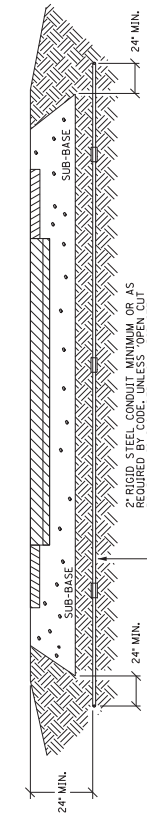
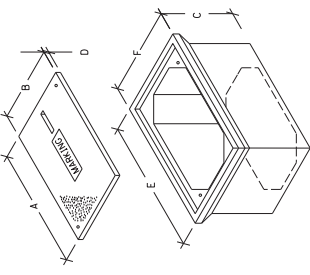
SCALE: 1"=

TRANSFORMER BASE DETAIL

COUNTY OF	JEFFERSON
ITEM NO.	5-9000.00
SHEET NO.	T4

JUNCTION BOX DIMENSIONS (NOMINAL)						
	A	B	C	D	E	F
TYPE A	23"	14"	27"	2"	25"	15"
TYPE B	18"	11"	12"	1 1/4"	20"	13"
TYPE C	36"	24"	30"	3"	38"	26"

* MINIMUM
NOTES: STACKABLE BOXES ARE PERMITTED
JUNCTION BOX



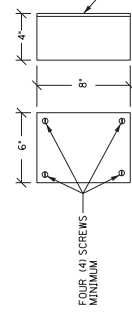
CONDUIT INSTALLATION UNDER EXISTING PAVEMENT DETAIL

DEPTHS SHOWN FOR CONDUIT AND CONDUIT INSTALLATIONS SHALL BE AS SHOWN. CONTRACTOR SHALL PLACE AND COMPACT BACKFILL IN 9" MAXIMUM LIFTS TO THE SATISFACTION OF THE ENGINEER.

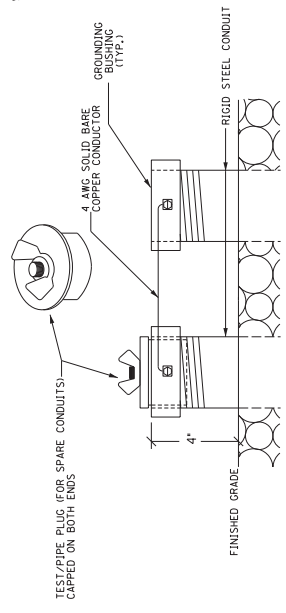


CONDUIT, DUCTED CABLE, AND WARNING TAPE TRENCH

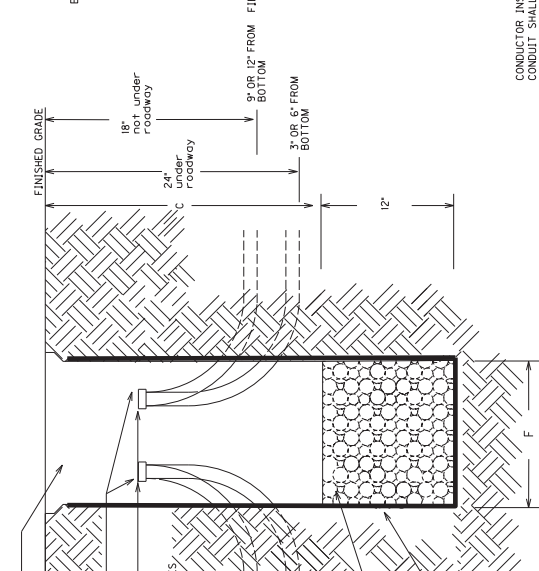
ABOVE GROUND BOX SHALL BE FABRICATED FROM MINIMUM 1/2 GAUGE STEEL AND BOXES SHALL HAVE NO ANCKOUTS AND SHALL BE PROVIDED WITH A RESISTANT GASKET AND A MINIMUM OF FOUR SCREWS FOR ATTACHING TO THE SURFACE. CABLE CLAMPS SHALL BE PROVIDED FOR CABLES ENTERING AND EXITING THE BOX.



ABOVE GROUND BOX

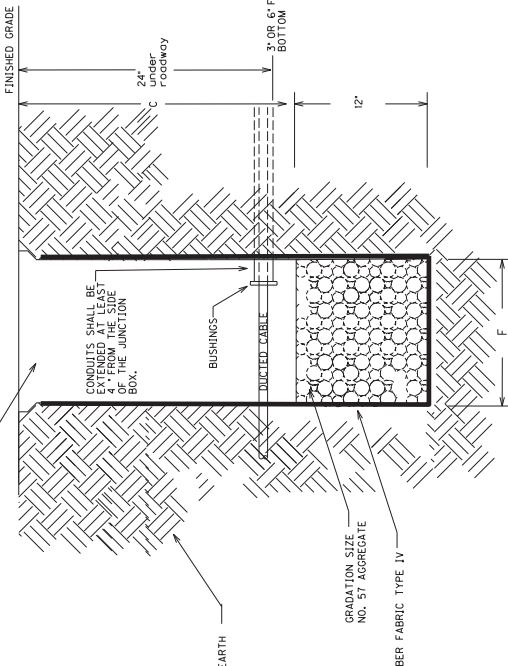
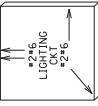


TEST PIPE PLUG (FOR SPARE CONDUITS) CAPPED ON BOTH ENDS

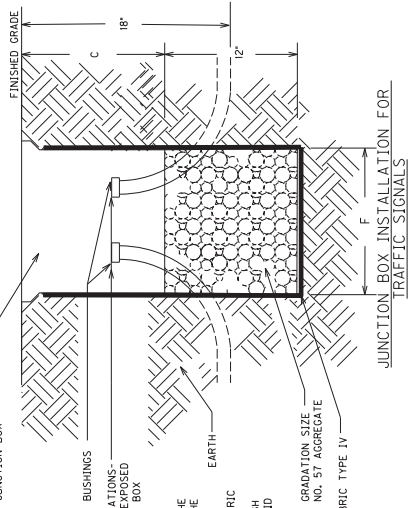


JUNCTION BOX INSTALLATION FOR CONVENTIONAL LIGHTING

BEFORE THE INSTALLATION OF THE #57 AGGREGATE AND JUNCTION BOX, THE CONTRACTOR SHALL INSTALL AND JUNCTION BOX. THE CONTRACTOR SHALL INSTALL THE FABRIC SHALL EXTEND TO JUST BELOW THE LIP OF THE JUNCTION BOX AND SHALL BE CONTINUOUSLY ADHERED TO THE EXTERIOR OF THE BOX WITH ADHESIVE. ANY FABRIC SHALL BE CUT ONLY AS MUCH AS NECESSARY TO ALLOW PASSAGE OF EACH INDIVIDUAL CONDUIT THROUGH THE FABRIC. THE FABRIC SHALL BE INCIDENTAL TO BID ITEMS 48H, 2039NS835, OR 2039NS835.



JUNCTION BOX INSTALLATION FOR HIGHMAST LIGHTING

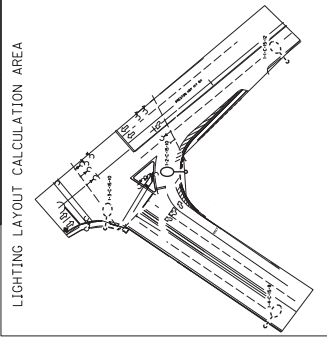


TEST/PIPE PLUG (FOR SPARE CONDUITS) AND GROUNDING DETAIL CONCRETE CABLE MARKERS

3/13/2017

TRAFFIC SIGNAL AND ROADWAY LIGHTING
JUNCTION BOX AND CONDUIT DETAILS

COUNTY OF	JEFFERSON	ITEM NO.	5-9000.00	SHEET NO.	15
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CONVENTIONAL LIGHTING:

ALL POLES SHALL HAVE A #12 AWG GREEN GROUND WIRE RUN FROM BOTTOM OF POLE TO THE LUMINAIRE FOR GROUNDING. ALL POLES SHALL HAVE A GREEN WIRE THE SAME SIZE AS THE CIRCUIT WIRE RUN FROM POLE TO POLE FOR GROUNDING. GROUNDING WIRES SHALL BE CONNECTED TO GROUNDING LUGS ON CONDUITS OR ON THE POLE/TRANSFORMER BASE.

POLE HEIGHTS, ARM LENGTHS AND SETBACKS ARE DENOTED AS STATED ON LUMINAIRE DESIGNATION EXAMPLE ON LUMINAIRE/FUSE CONNECTOR DETAIL SHEET.

POLES SHALL BE PLACED AS CLOSE TO STATIONS AS STATED ON PLANS TO PROVIDE PROPER ILLUMINATION. IF ANY POLE NEEDS TO BE MOVED FROM THE STATION INDICATED, C.O. TRAFFIC SHALL BE CONTACTED AT 502-564-3020.

WIRING SCHEDULE

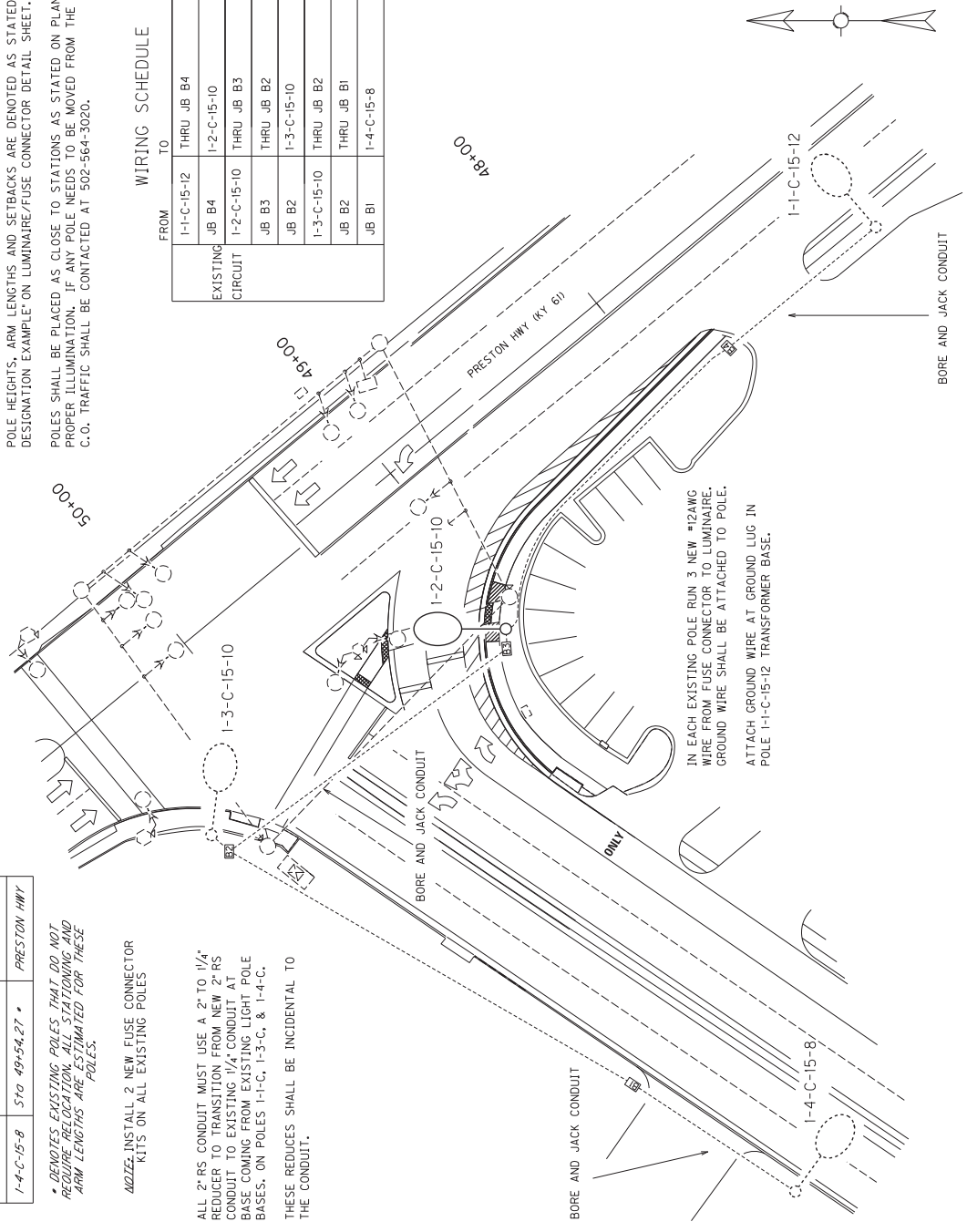
FROM	TO	WIRE SIZE	CONDUIT SIZE
EXISTING CIRCUIT	1-1-C-15-12 THRU JB B4	3-#8 AWG	2" RS
	1-2-C-15-10 THRU JB B3	3-#8 AWG	2" RS
	1-3-C-15-10 THRU JB B2	3-#8 AWG	2" RS
	1-3-C-15-10 THRU JB B2	3-#8 AWG	2" RS
	1-3-C-15-10 THRU JB B2	3-#8 AWG	2" RS
	1-4-C-15-8 THRU JB B1	3-#8 AWG	2" RS
	1-4-C-15-8	3-#8 AWG	2" RS

LUMINAIRES	STATIONS/COORDINATES	ALIGNMENT
1-1-C-15-12	5+0 47+01.29 *	PRESTON HWY
1-2-C-15-10	5+0 49+03.78	PRESTON HWY
1-3-C-15-10	5+0 50+37.81 *	PRESTON HWY
1-4-C-15-8	5+0 49+54.27 *	PRESTON HWY

* DENOTES EXISTING POLES THAT DO NOT REQUIRE RELOCATION. ALL STATIONING AND ARM LENGTHS ARE ESTIMATED FOR THESE POLES.

NOTE: INSTALL 2 NEW FUSE CONNECTOR KITS ON ALL EXISTING POLES

ALL 2" RS CONDUIT MUST USE A 2" TO 1 1/4" REDUCER TO TRANSITION FROM NEW 2" RS CONDUIT TO EXISTING 1 1/4" CONDUIT AT BASES COMING FROM EXISTING LIGHT POLE BASES. ON POLES 1-1-C, 1-3-C, & 1-4-C. THESE REDUCES SHALL BE INCIDENTAL TO THE CONDUIT.



IN EACH EXISTING POLE RUN 3 NEW #12AWG WIRE FROM FUSE CONNECTOR TO LUMINAIRE. GROUND WIRE SHALL BE ATTACHED TO POLE. ATTACH GROUND WIRE AT GROUND LUG IN POLE 1-1-C-15-12 TRANSFORMER BASE.

Scale 1" = 20'

LEGEND

- JUNCTION BOX - TYPE B
- 2 INCH RIGID STEEL CONDUIT (UNLESS OTHERWISE NOTED)
- LUMINAIRE POLE
- EXISTING LUMINAIRE POLE

PROPOSED/EXISTING SIGNAL LEGEND

- BASE MOUNTED CONTROLLER
- STEEL STRAIN POLE
- PEDESTAL POLE
- JUNCTION BOX TYPE B
- PEDESTRIAN DETECTOR
- SIGNAL HEAD
- PEDESTRIAN HEAD
- SIGN R10-17A

**RECOMMENDATION FOR PICKUP OF ITEMS TO BE INSTALLED
 ON TRAFFIC SIGNALS/LIGHTING**

Item Number: 5-9010.10

County: 56

Description: HSIP KY 61 at Grade Ln.

Cabinets	Master code	
1	T-01-0020	Base Mounted 332 Cabinet
1	T-01-0105	ATC Controller
1	T-01-0106	1C w/Maxtime (this should go with item ATC controller)
1	T-01-0501	Conflict Monitor, Model 2018
1	T-01-0510	Isolator, Model 242 (for ped detector and railroad)
3	T-01-0600	Loop Detector, Model 222
7	T-01-0700	Load Switches

Signals		
12	T-02-0009	Siemens 3 Section Signal
12	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
6	T-02-0090	Pedestrian signal housing
7	T-02-0300	LED Module 12" red arrow
8	T-02-0310	LED Module 12" yellow arrow
7	T-02-0320	LED Module 12" green arrow
6	T-02-0330	LED Module 12" red ball
6	T-02-0340	LED Module 12" yellow ball
6	T-02-0350	LED Module 12" green ball
6	T-02-0365	LED Countdown Pedestrian Module

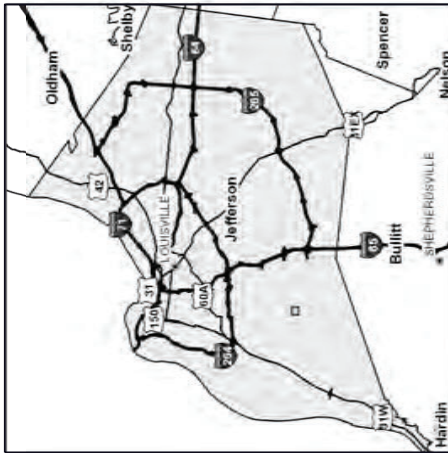
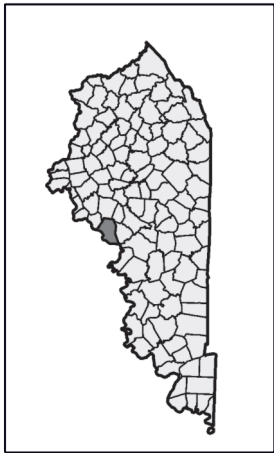
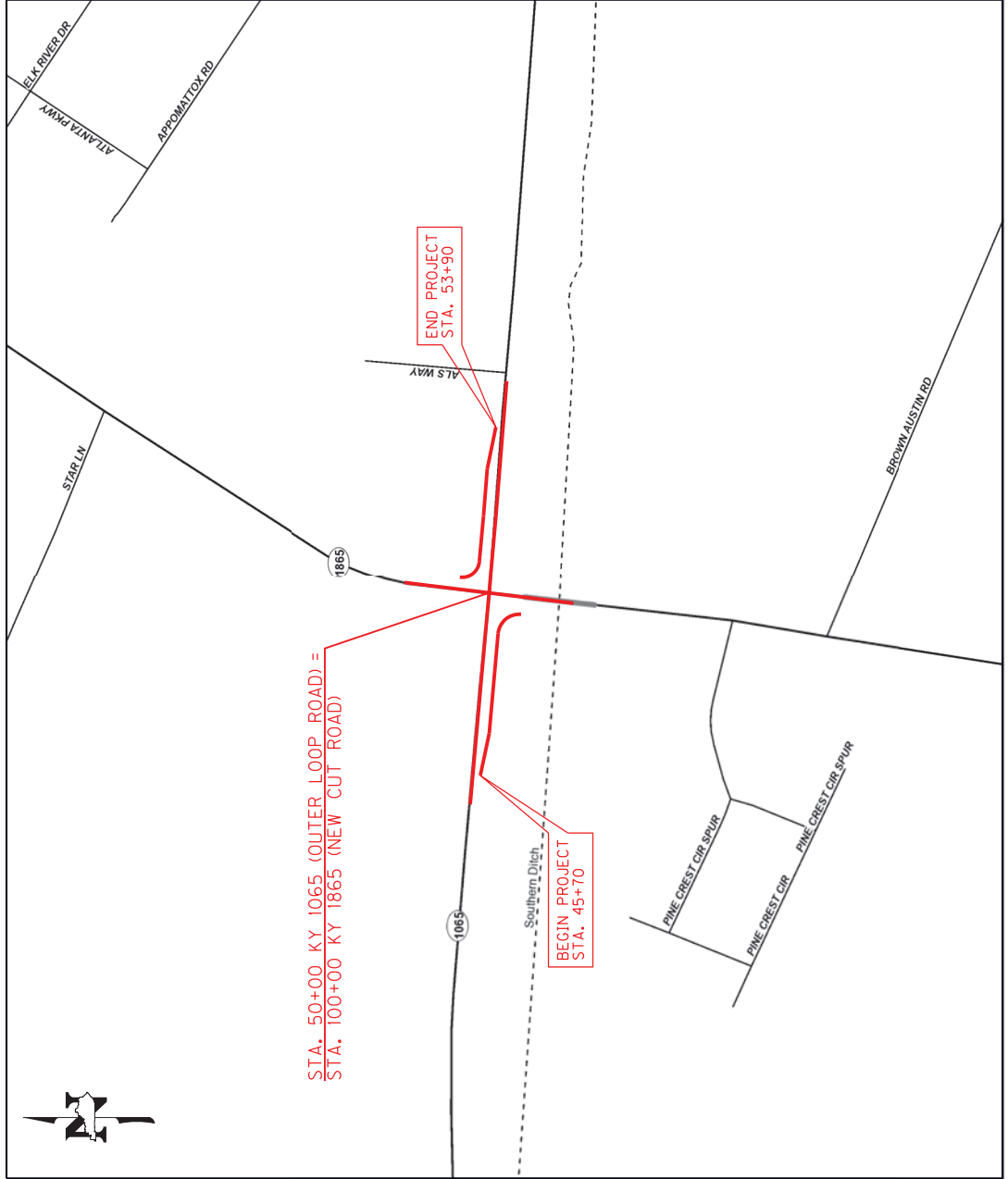
Special Items		
1	T-02-0504	Router (this includes power supply/antenna/cabling)
1	T-09-0415	30 X 36 through 36 X 36 sign hanger (New)
3	T-09-0410	Sign hanger for 48" signs
3	T-02-0650	Pedstl.top mntg.bkt One-way
2	T-02-0660	Pedstl.top mntg.bkt Two-way
4	T-02-0670	Pedestal
6	T-06-0710	Ped Detector Pole Mount FSA Box
6	T-06-0730	Ped Button w/o Plunger

Poles		
2	T-04-0010	Steel Strain Pole 28 foot
2	T-04-0030	Steel Strain Pole 32 foot
2	T-04-0051	Steel Strain Pole 36 foot

Electrical Contractor Name _____
 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 _____

COUNTY OF	ITEM NO.
JEFFERSON	5-9010.30

JEFFERSON COUNTY Intersection Improvement at New Cut Road and Outer Loop Road



Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS

PLANS OF
PROPOSED PROJECT

JEFFERSON COUNTY
NEW CUT / OUTER LOOP



JEFFERSON COUNTY KY 1065 (OUTER LOOP) @ KY 1865 (NEW CUT RD) ITEM NO. 5-9010.30 GENERAL SUMMARY			
ITEM NUMBER	ITEM	UNIT	QUANTITY
1	DGA (1)	TON	237
212	CL2 ASPH BASE 1.00D PG64-22 (1)	TON	503
356	ASPHALT MATERIAL FOR TACK (1)	TON	1.5
524	STORM SEWER PIPE-24 IN	LF	8
1490	DROP BOX INLET TYPE 1	EACH	1
1550	DROP BOX INLET TYPE 12A	LF	39
1585	REMOVE DROP BOX INLET	EACH	1
1811	STANDARD CURB AND GUTTER MOD	LF	428
1812	REMOVE CURB AND GUTTER	LF	472
1830	STANDARD INTEGRAL CURB	LF	17
1987	DELINEATOR FOR GUARDRAIL B/W	EACH	5
2101	CEM CONG ENT PAVEMENT-8 IN (1)	SQYD	203
2159	TEMP DITCH	LF	396
2160	CLEAN TEMP DITCH	LF	198
2200	ROADWAY EXCAVATION (2)	CUYD	383
2351	GUARDRAIL-STEEL W BEAM-S FACE	LF	87.5
2363	GUARDRAIL CONNECTOR TO BRIDGE END TY A	EACH	1
2367	GUARDRAIL END TREATMENT TYPE 1	EACH	1
2381	REMOVE GUARDRAIL	LF	144
2562	TEMPORARY SIGNS	SQFT	144
2569	DEMobilIZATION	LS	1
2650	MAINTAIN & CONTROL TRAFFIC (JEFFERSON CO. - KY 1065 @ KY 1865)	LS	1
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	2
2701	TEMP SILT FENCE	LF	396
2720	SIDEWALK-4 IN CONCRETE	SQYD	72
2721	REMOVE CONCRETE SIDEWALK	SQYD	90
2726	STAKING (JEFFERSON CO. - KY 1065 @ KY 1865)	LS	1
5950	EROSION CONTROL BLANKET	SQYD	617
5952	TEMP MULCH	SQYD	1,156
5953	TEMP SEEDING AND PROTECTION	SQYD	867
5963	INITIAL FERTILIZER	TON	0.04
5964	MAINTENANCE FERTILIZER	TON	0.06
5985	SEEDING AND PROTECTION	SQYD	602
5992	AGRICULTURAL LIMESTONE	TON	0.74
6406	SBM ALUM SHEET SIGNS .080 IN (3)	SQFT	16
6407	SBM ALUM SHEET SIGNS .125 IN (3)	SQFT	10
6410	STEEL POST TYPE 1 (3)	LF	58
6514	PAVE STRIPING-PERM PAINT-4 IN	LF	4,266
6565	PAVE MARKING-THERMO X-WALK-6 IN	LF	680
6568	PAVE MARKING-THERMO STOP BAR-24IN	LF	160
6574	PAVE MARKING-THERMO CURV ARROW	EACH	12
6598	PAVMENT MARKING REMOVAL	SQFT	319
8100	CONCRETE-CLASS A (4)	CUYD	1
8104	CONCRETE-CLASS AA	CUYD	4
8150	STEEL REINFORCEMENT (4)	LB	55
20550ND	SAWCUT PAVEMENT (1)	LF	795
21134ND	REMOVE-STORE AND REINSTALL SIGN (3)	EACH	2
21289ED	LONGITUDINAL EDGE KEY (1)	LF	795
21373ND	REMOVE SIGN (3)	EACH	5
23158ES505	DETECTABLE WARNINGS	SQFT	77
24631EC	BARCODE SIGN INVENTORY (3)	EACH	6
24685EC	CL2 ASPH SURF 0.38A PG64-22 (1)	TON	59
(1) CARRIED OVER FROM THE PAVING SUMMARY. (2) ESTIMATES OF EARTHWORK QUANTITIES ARE FOR DESIGN ONLY. THE CONTRACTOR IS ADVISED THAT THE EARTHWORK CALCULATIONS ARE FOR INFORMATIONAL PURPOSES ONLY. ASSUMPTIONS FOR SHRINKAGE AND SWELL FACTORS ARE THE CONTRACTOR'S RESPONSIBILITY. (3) CARRIED OVER FROM THE SIGNING SUMMARY. (4) QUANTITIES INCLUDED FOR MODIFIED FLUME INLET TYPE 1/CURB CUT. SEE DETAIL SHEET.			

JEFFERSON COUNTY			
KY 1065 (OUTER LOOP) @ KY 1865 (NEW CUT RD)			
ITEM NO. 5-9010.30			
PAVING SUMMARY			
PAVING AREAS		PAVING QUANTITIES	
ITEM	TOTAL	ITEM	TOTAL
EASTBOUND KY 1065 TURN LANE		EASTBOUND KY 1065 TURN LANE	
1.25" CL2 ASPH SURF 0.38A PG64-22	520	CL2 ASPH SURF 0.38A PG64-22	36
10.5" CL2 ASPH BASE 1.00D PG64-22	546	CL2 ASPH BASE 1.00D PG64-22	316
4" DGA BASE	559	DGA BASE	129
ASPHALT MATERIAL FOR TACK	546	ASPHALT MATERIAL FOR TACK	0.9
	LF		
SAW CUT	430		
LONGITUDINAL EDGE KEY	430		
WESTBOUND KY 1065 TURN LANE		WESTBOUND KY 1065 TURN LANE	
1.25" CL2 ASPH SURF 0.38A PG64-22	322	CL2 ASPH SURF 0.38A PG64-22	23
10.5" CL2 ASPH BASE 1.00D PG64-22	322	CL2 ASPH BASE 1.00D PG64-22	187
4" DGA BASE	465	DGA BASE	108
ASPHALT MATERIAL FOR TACK	322	ASPHALT MATERIAL FOR TACK	0.6
	LF		
SAW CUT	365		
LONGITUDINAL EDGE KEY	365		
ENTRANCES		SY	
ENTRANCE AT STA. 52+34 LT	157		
ENTRANCE AT STA. 52+34 LT (ADDITIONAL)*	13		
ENTRANCE AT STA. 53+25 LT	33		
PAVING SUMMARY			
CODE	ITEM	UNITS	PROJECT TOTAL
1	DGA BASE	TON	237
212	CL2 ASPH BASE 1.00D PG64-22	TON	503
24685EC	CL2 ASPH SURF 0.38A PG64-22	TON	59
356	ASPHALT MATERIAL FOR TACK	TON	1.5
2101	CEM CONC ENT PAVEMENT-8 IN	SQYD	203
20430ED	SAW CUT	LF	795
21289ED	LONGITUDINAL EDGE KEY	LF	795
NOTES:			
All asphalt mixtures shall be estimated at 110 lbs. per SQ. YD. per inch of depth unless noted otherwise			
DGA Base estimated at 115 lbs. per SQ. YD. per inch of depth			
*See General Notes for Additional Description of Construction Entrance			

JEFFERSON COUNTY KY 1065 (OUTER LOOP) @ KY 1865 (NEW CUT RD) ITEM NO. 5-9010.30 SIGNING SUMMARY							
STATION	SIGN ASSEMBLY NUMBER	SIGN SPECIFICATION	SIGN LOCATION		SIGN SIZE		
			SIDE OF ROAD	FACING TRAFFIC TRAVELING	HORIZ. X VERT.	.080 ALUM AREA	.125 ALUM AREA
48+70	S1	M1-5	RT	EB	30" X 24"	5	
		M6-4			21" X 15"	2.1875	
		D10-1			10" X 18"	1.25	
100+80	S2	CUSTOM	RT	SB	48" X 30"		10
50+90	S3	M1-5	LT	WB	30" X 24"	5	
		M6-4			21" X 15"	2.1875	

BID ITEM	ITEM DESCRIPTION	UNITS	QUANTITY
6406	SBM ALUM SHEET SIGNS .080 IN	SQFT	16
6407	SBM ALUM SHEET SIGNS .125 IN	SQFT	10
6410	STEEL POST TYPE 1	LF	58
21134ND	REMOVE-STORE AND REINSTALL SIGN	EACH	2
21373ND	REMOVE SIGN ①	EACH	5
24631EC	BARCODE SIGN INVENTORY	EACH	6

① SEE PLAN SHEET FOR LOCATIONS OF EXISTING SIGNS TO BE REMOVED.

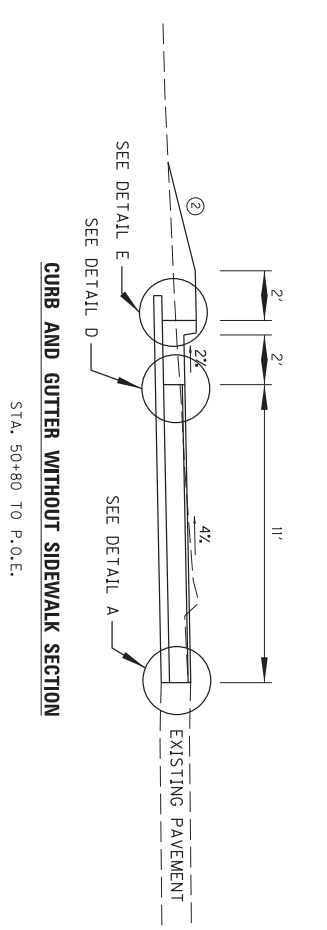
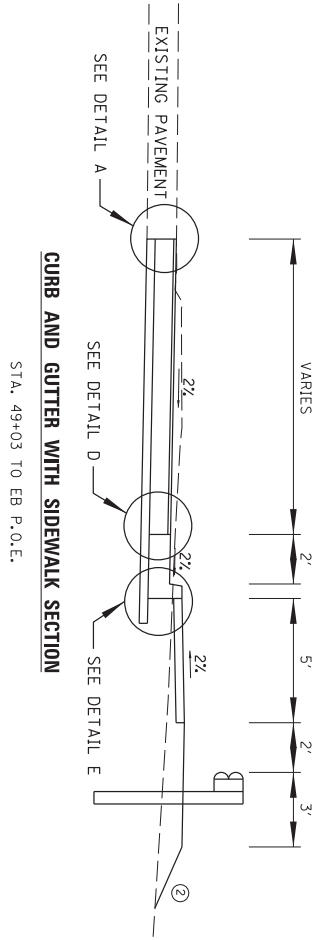
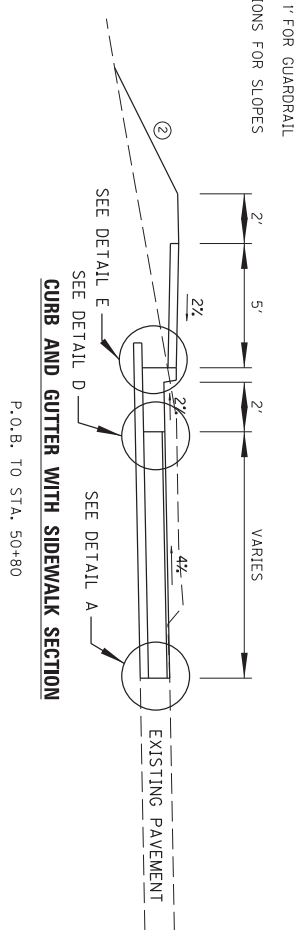
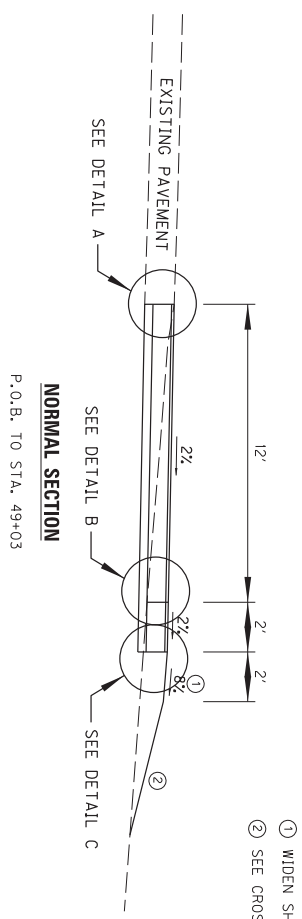
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EASTBOUND TURN LANE

TYPICAL SECTIONS

WESTBOUND TURN LANE

COUNT OF	ITEM NO.	SHEET NO.
JEFFERSON	5-9010.30	R2

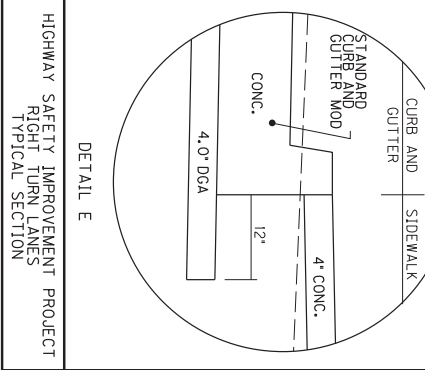
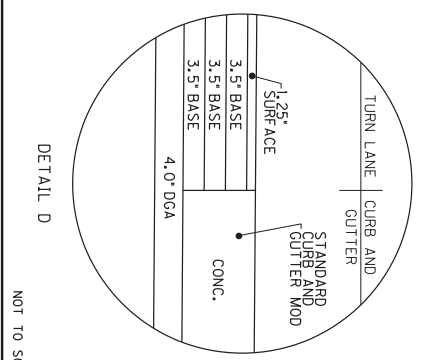
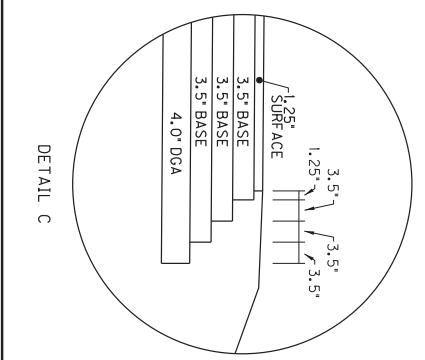
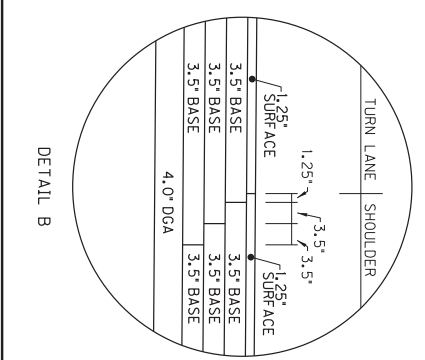
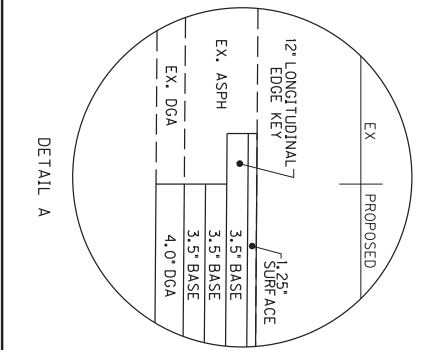


EB TURN LANE SHOULDER DESIGN

1.25" SURFACE — 1.25" DEPTH CLASS 2 ASPHALT SURFACE 0.38A PG64-22
14.50" BASE — [3.5" DEPTH CLASS 2 ASPHALT BASE 1.00D PG64-22
11 1/2" DGA BASE

EB /WB TURN LANE PAVEMENT DESIGN

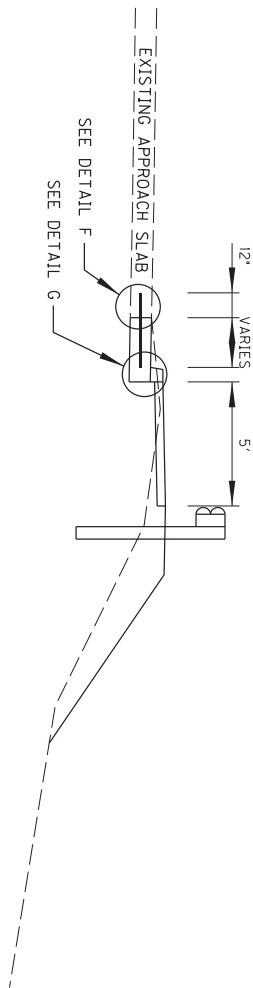
1.25" SURFACE — 1.25" DEPTH CLASS 2 ASPHALT SURFACE 0.38A PG64-22
14.50" BASE — [10.5" DEPTH CLASS 2 ASPHALT BASE 1.00D PG64-22 (3.5" + 3.5" + 3.5")
4" DGA BASE



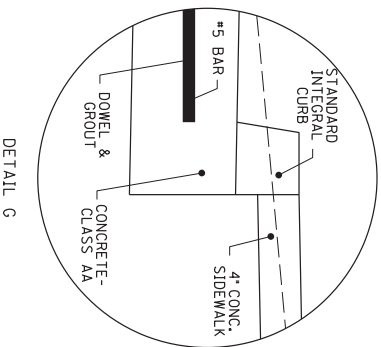
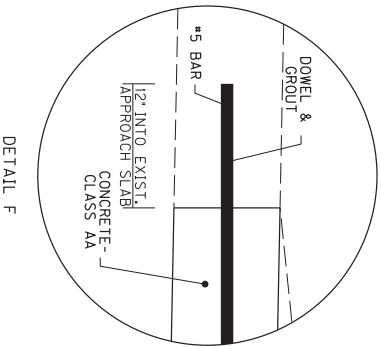
HIGHWAY SAFETY IMPROVEMENT PROJECT
RIGHT TURN LANES
TYPICAL SECTION
NOT TO SCALE

TYPICAL SECTIONS

BRIDGE APPROACH SLAB MODIFICATION



STA 49+51 TO STA. 49+58

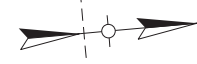
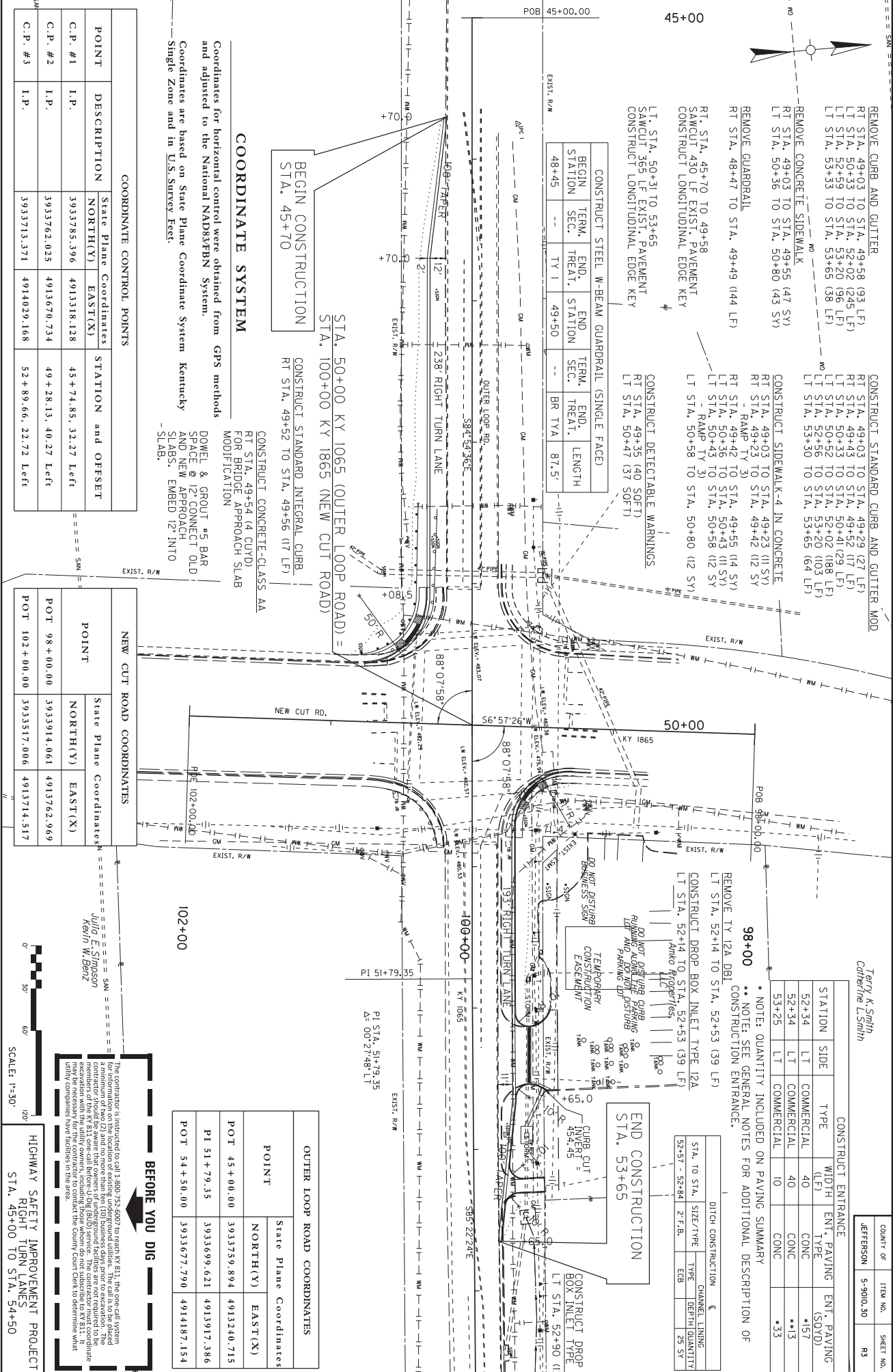


- ① DOWEL & GROUT #5 BARS, SPACED AT 12" TO CONNECT PROPOSED APPROACH SLAB MODIFICATION TO EXISTING APPROACH SLAB.
- ② EMBED #5 BARS 12" INTO EXISTING APPROACH SLAB.

NOT TO SCALE

HIGHWAY SAFETY IMPROVEMENT PROJECT
RIGHT TURN LANES
TYPICAL SECTION

QUANTITY	ITEM NO.	SHEET NO.
JEFFERSON	5-9010.30	B2A



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.

DOWEL & GROUT #5 BAR SPACE @ 12" CONNECT OLD AND NEW APPROACH SLABS. EMBED 12" INTO SLABS.

COORDINATE CONTROL POINTS

POINT	DESCRIPTION	State Plane Coordinates	STATION and OFFSET	
		NORTH(Y)	EAST(X)	
C.P. #1	I.P.	3933785.396	4913318.128	45+74.85, 32.27 Left
C.P. #2	I.P.	3933762.025	4913670.734	49+28.13, 40.27 Left
C.P. #3	I.P.	3933773.371	4914029.168	52+89.66, 22.72 Left

NEW CUT ROAD COORDINATES

POINT	State Plane Coordinates	
	NORTH(Y)	EAST(X)
POT 98+00.00	3933914.061	4913762.969
POT 102+00.00	3933517.006	4913714.517

OUTER LOOP ROAD COORDINATES

POINT	State Plane Coordinates	
	NORTH(Y)	EAST(X)
POT 45+00.00	3933759.894	4913240.715
P1 51+79.35	3933699.621	49133917.386
POT 54+50.00	3933677.790	4914187.154

CONSTRUCT ENTRANCE

STATION	SIDE	TYPE	WIDTH (LF)	ENT. PAVING	ENT. PAVING (SOTD)
52+34	LT	COMMERCIAL	40	CONC	*157
52+34	LT	COMMERCIAL	40	CONC	*13
53+25	LT	COMMERCIAL	10	CONC	*33

DITCH CONSTRUCTION

STA. TO STA. (LF)	SIZE/TYPE	TYPE	DEPTH QUANTITY
52+57 - 52+84	2' F.B.	ECB	25 SY

Julia E. Simpson
Kevin W. Benz

BEFORE YOU DIG

Highway Safety Improvement Project
Right Turn Lanes
STA. 45+00 TO STA. 54+50

Terry K. Smith
Catherine L. Smith

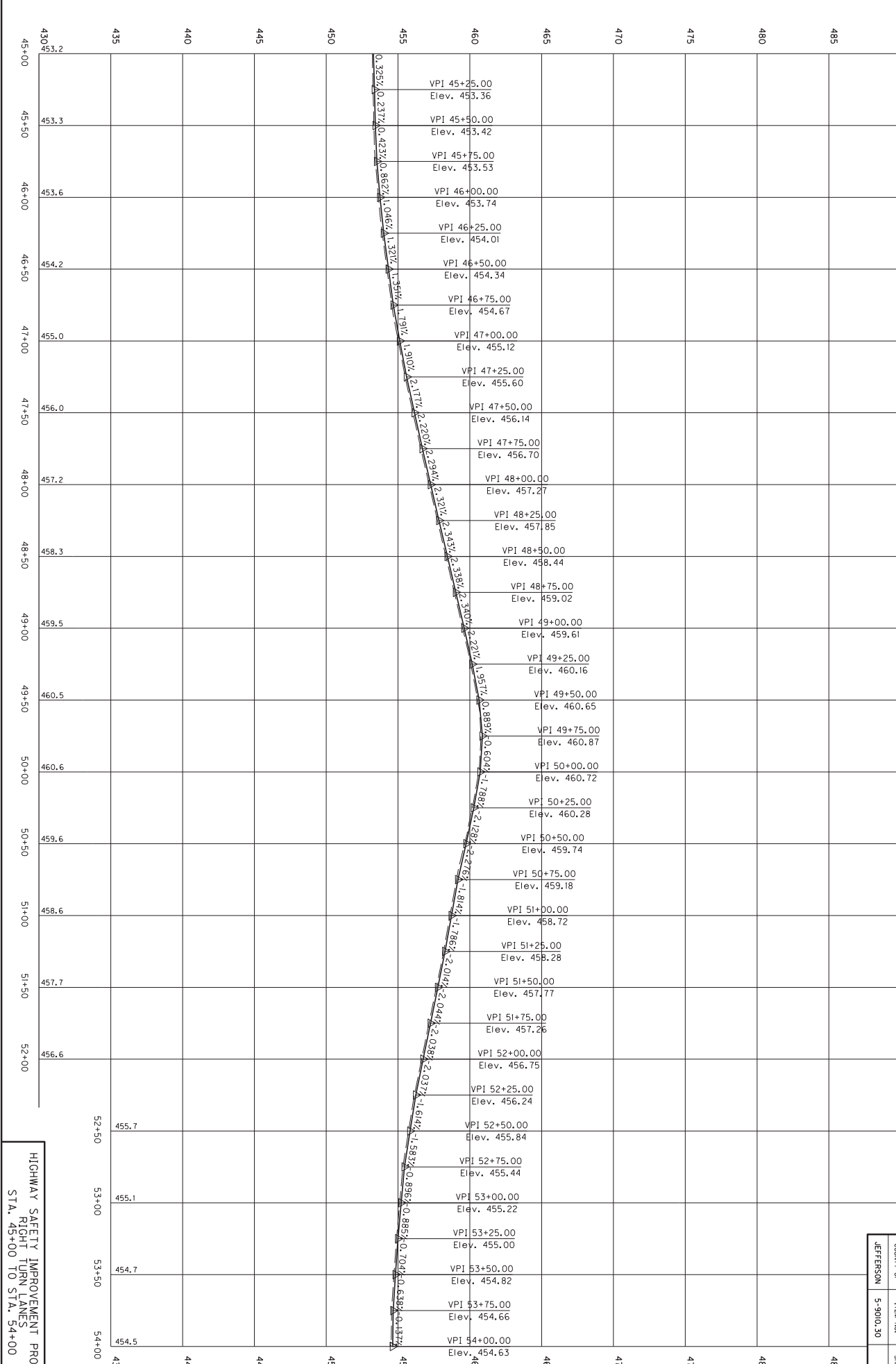
98+00

REMOVE TY 12A DBL
CONSTRUCT DROP BOX INLET TYPE 12A
CONSTRUCT ENTRANCE.

NOTE: QUANTITY INCLUDED ON PAVING SUMMARY
** NOTE: SEE GENERAL NOTES FOR ADDITIONAL DESCRIPTION OF CONSTRUCTION ENTRANCE.

END CONSTRUCTION
STA. 53+65

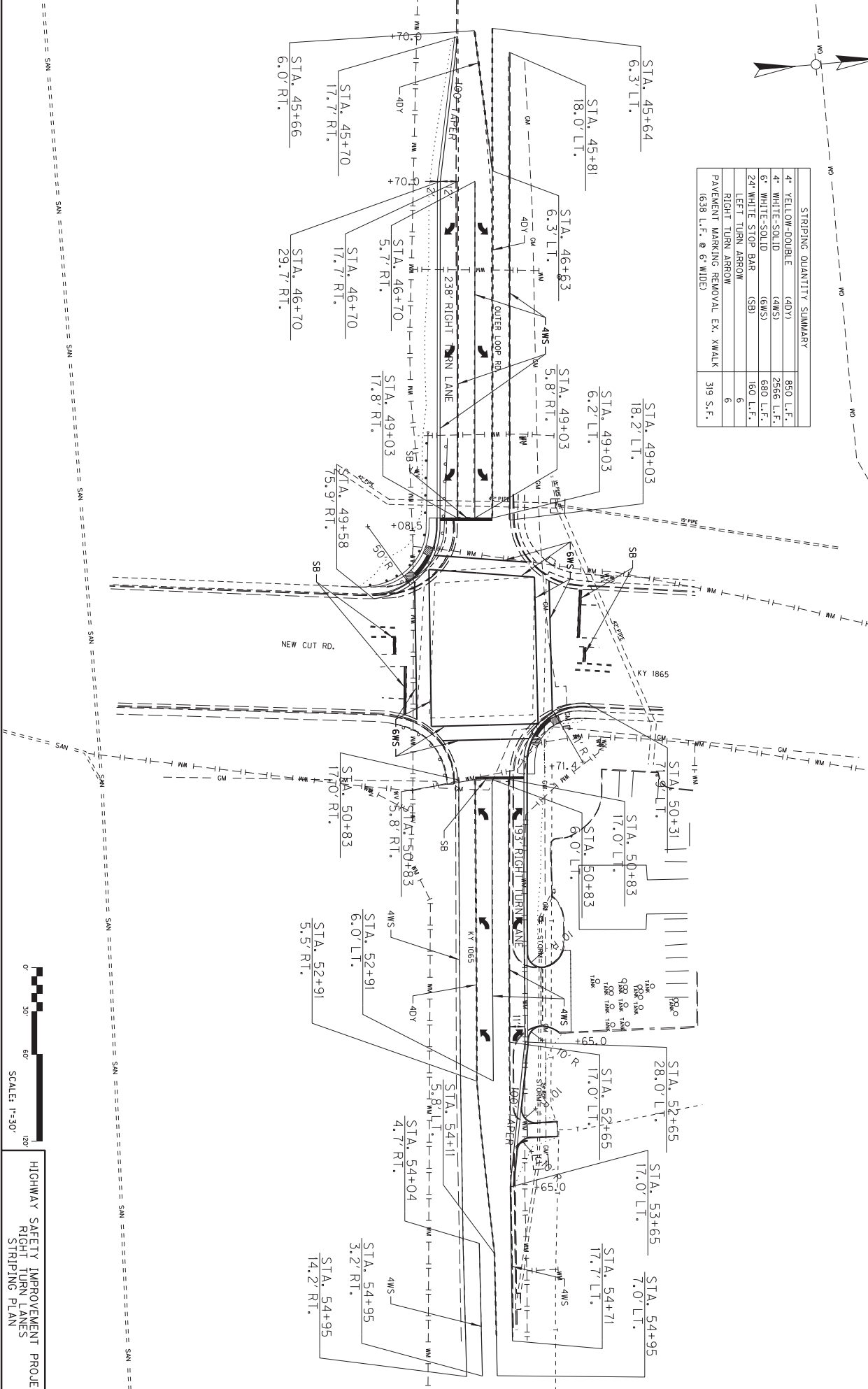
SCALE: 1"=30'



HIGHWAY SAFETY IMPROVEMENT PROJECT
RIGHT TURN LANES
STA. 45+00 TO STA. 54+00

QUANTITY	ITEM NO.	SHEET NO.
JEFFERSON	5-9010.30	R4

STRIPING QUANTITY SUMMARY	
4" YELLOW-DOUBLE (4DY)	850 L.F.
4" WHITE-SOLID (4WS)	2566 L.F.
6" WHITE-SOLID (6WS)	680 L.F.
24" WHITE STOP BAR (SB)	160 L.F.
LEFT TURN ARROW	6
RIGHT TURN ARROW	6
PAVEMENT MARKING REMOVAL EX. XWALK (638 L.F. @ 6 WIDE)	319 S.F.



QUANTITY	ITEM NO.	SHEET NO.
JEFFERSON	5-9010.30	B5

HIGHWAY SAFETY IMPROVEMENT PROJECT
RIGHT TURN LANES
STRIPING PLAN

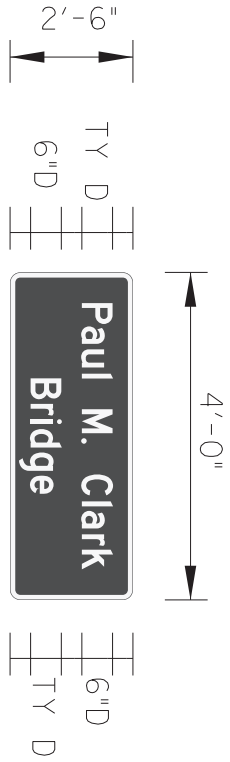


- ① EXISTING SIGNS TO REMAIN IN PLACE AT DISCRETION OF A.T.C. TRAFFIC ENGINEER.
- ② THE COLORS SHALL BE AS SHOWN IN THE "MANUAL" ON HIGHWAY CONTROL DEVICES AND "STANDARD"
- ③ SHEETING SIGNS SHALL BE FABRICATED FROM 0.125 ALUMINUM PLATE (MINIMUM DIMENSION IS GREATER THAN 36" (THIRTY-SIX INCHES)) OTHERWISE 0.080 GAUGE MATERIAL SHALL BE USED.
- ④ SHEETING SIGNS SHALL BE MOUNTED ON TYPE 1 POST USING STANDARD INSTALLATION IN SOIL WITH SOIL STABILIZER.

- A REMOVE-STORE AND REINSTALL (1) EXISTING SIGN AT KY 1065 STA. 46+92 (RT)
- B REMOVE (2) EXISTING SIGNS AT KY 1065 STA. 48+67 (RT)
- C REMOVE (1) EXISTING SIGN AT KY 1865 STA. 100+80 (RT)
- D REMOVE (2) EXISTING SIGNS AT KY 1065 STA. 50+64 (LT)
- E REMOVE-STORE AND REINSTALL (1) EXISTING SIGN AT KY 1065 STA. 52+82 (RT)
- F REMOVE-STORE AND REINSTALL (1) EXISTING SIGN AT KY 1065 STA. 52+90

HIGHWAY SAFETY IMPROVEMENT PROJECT
RIGHT TURN LANES
SIGNING PLAN

COUNTY	ITEM NO.	SHEET NO.
JEFFERSON	5-9101.30	B6

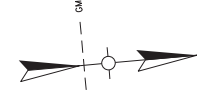


SIGN INFORMATION		SIGN LOCATION / SUPPORT		
SIGN NUMBER	S-2	ROAD & MILE POINT	KY 1865	
QUANTITY	1	TRAFFIC DIRECTION	SOUTH	
WIDTH	4'-0"	SIDE OF ROAD	RT	
HEIGHT	2'-6"	MOUNTING STYLE	TYPE 1 POSTS	
AREA (Sq. Ft.)	10.0 SQ. FT.	BEAM MATERIAL		
BORDER WIDTH	0.75"	BEAM SIZE		
BORDER RADIUS	1.5"	BEAM/POST LENGTH	1. =	13'-6"
PANEL COLOR	GREEN	BEAM/POST LENGTH	2. =	13'-6"
LEGEND/BORDER COLOR	WHITE	BEAM/POST LENGTH	3. =	
STATIONS(S)	100+80	BEAM/POST LENGTH	4. =	
PANEL MATERIAL	REFLECTIVE	CONC "a" =	N/A	N/A
LEGEND MATERIAL	REFLECTIVE	CONC "b" =	N/A	Cu Yds.

QUANTITY	ITEM NO.	SHEET NO.
JEFFERSON	5-9010.30	B64

GENERAL NOTES:

HIGHWAY SAFETY IMPROVEMENT PROJECT
RIGHT TURN LANES
SIGNING PLAN DETAIL SHEET



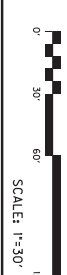
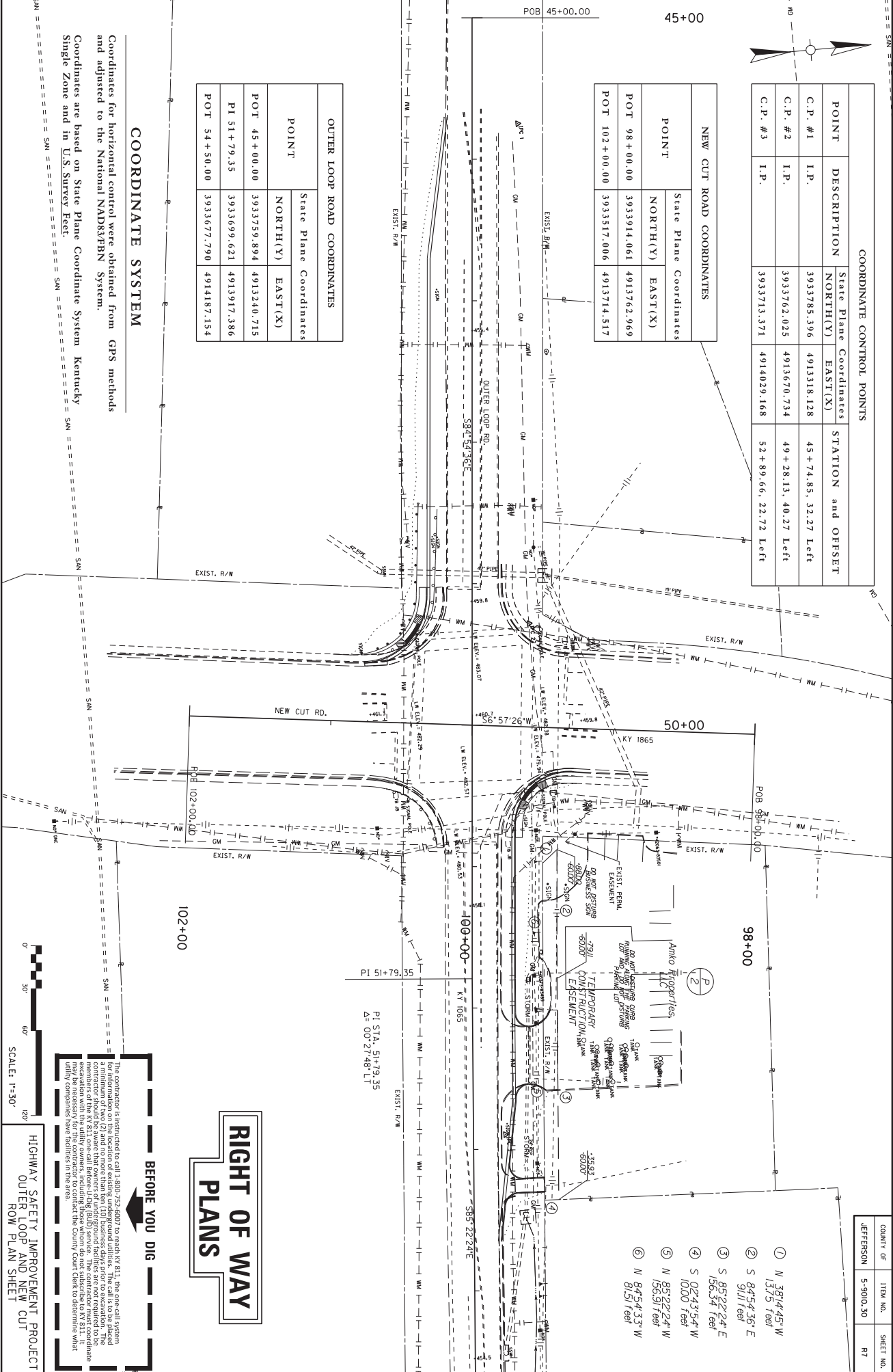
COORDINATE CONTROL POINTS			
POINT	DESCRIPTION	State Plane Coordinates NORTH(Y) EAST(X)	STATION and OFFSET
C.P. #1	I.P.	3933785.396 4913318.128	45 + 74.85, 32.27 Left
C.P. #2	I.P.	3933762.025 4913670.734	49 + 28.13, 40.27 Left
C.P. #3	I.P.	3933713.371 4914029.168	52 + 89.66, 22.72 Left

NEW CUT ROAD COORDINATES		
POINT	State Plane Coordinates	
	NORTH(Y)	EAST(X)
POT 98 + 00.00	3933914.061	4913762.969
POT 102 + 00.00	3933517.006	4913714.517

OUTER LOOP ROAD COORDINATES		
POINT	State Plane Coordinates	
	NORTH(Y)	EAST(X)
POT 45 + 00.00	3933759.894	4913240.715
PI 51 + 79.35	3933699.621	4913917.386
POT 54 + 50.00	3933677.790	4914187.154

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.



RIGHT OF WAY
PLANS

BEFORE YOU DIG

The contractor is instructed to call 1-800-752-6807 to reach KY 811, the one-call system for a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor shall be responsible for obtaining all necessary permits and approvals from the members of the KY 811 one-call before starting any excavation. The contractor shall coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It is the contractor's responsibility to contact the County Clerk to determine what utility companies have facilities in the area.

HIGHWAY SAFETY IMPROVEMENT PROJECT
OUTER LOOP AND NEW CUT
ROW PLAN SHEET

- ① N 38°14'45" W
137.5 feet
- ② S 84°54'36" E
91.17 feet
- ③ S 85°22'24" E
156.34 feet
- ④ S 02°43'54" W
100.0 feet
- ⑤ N 85°22'24" W
156.3 feet
- ⑥ N 84°54'33" W
81.51 feet

COUNT OF	ITEM NO.	SHEET NO.
JEFFERSON	5-9010.30	R7

STORM SEWER PIPE

PIPE DRAINAGE SHEET 1 of 1

COUNT OF	ITEM NO.	SHEET NO.
JEFFERSON	5-9010.30	B8

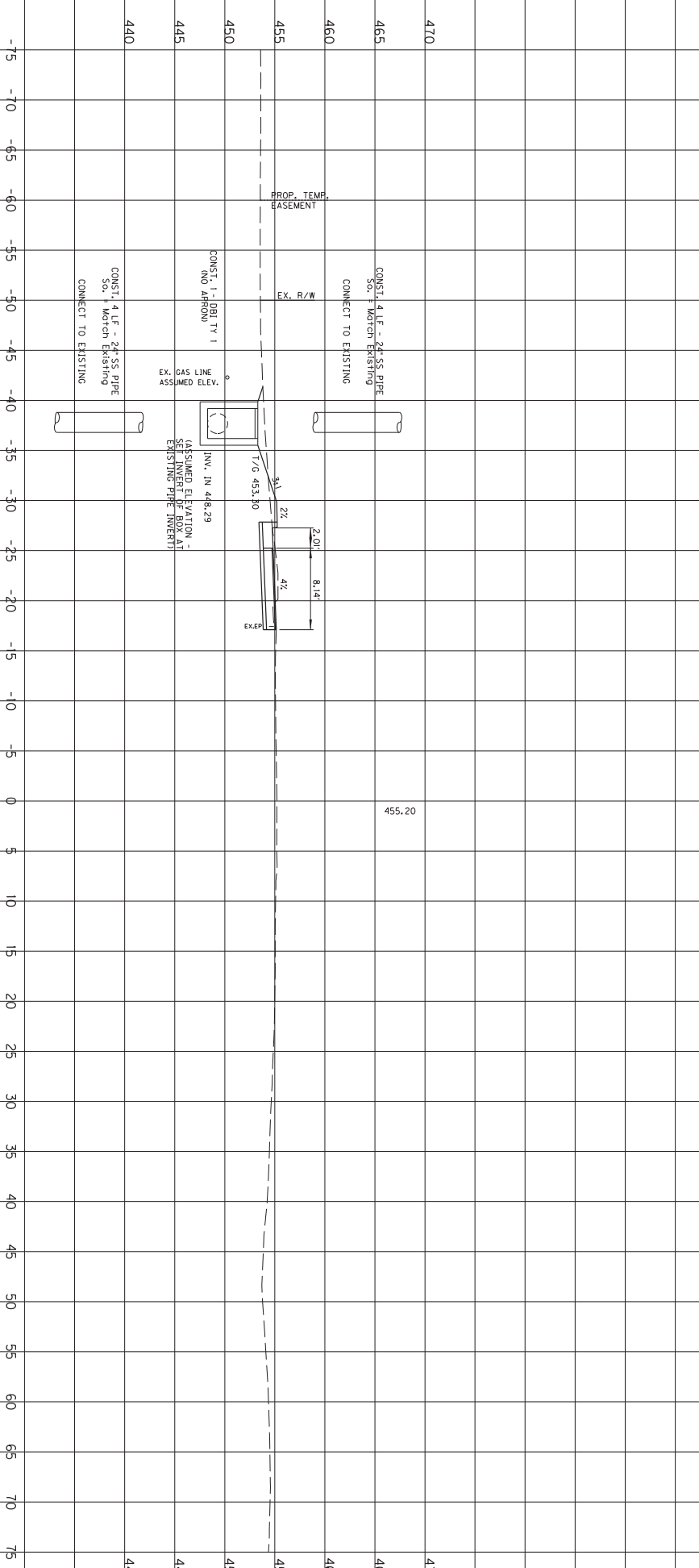
24'
L I N E A R F E E T

8

1

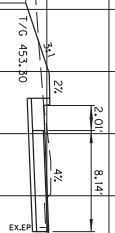
DBI TY 1

455.20



CONST. 4 LF - 24\"/>

CONST. 1 - DBI TY 1
(NO APPROX)
EX. GAS LINE ELEV. ASSUMED
(ASSUMED ELEVATION -
SEWER PIPE FOR ALL
EXISTING PIPE INVERTS)



HIGHWAY SAFETY IMPROVEMENT PROJECT
WESTBOUND RIGHT TURN LANE
STA. 52+90 PIPE SECTION

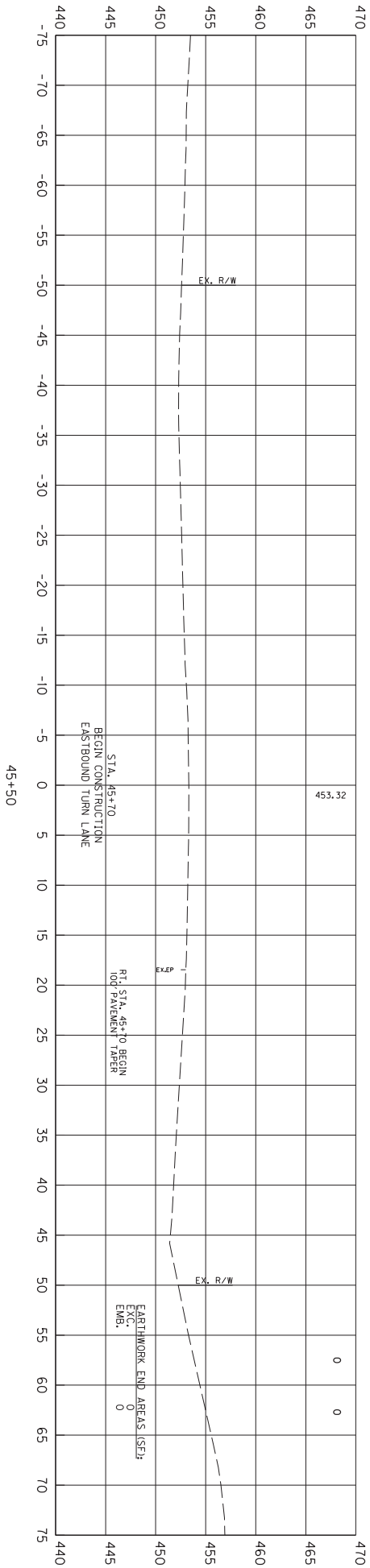
SCALE: 1"=5'

InRoads v8.11.9.397

E-SHEET NAME:

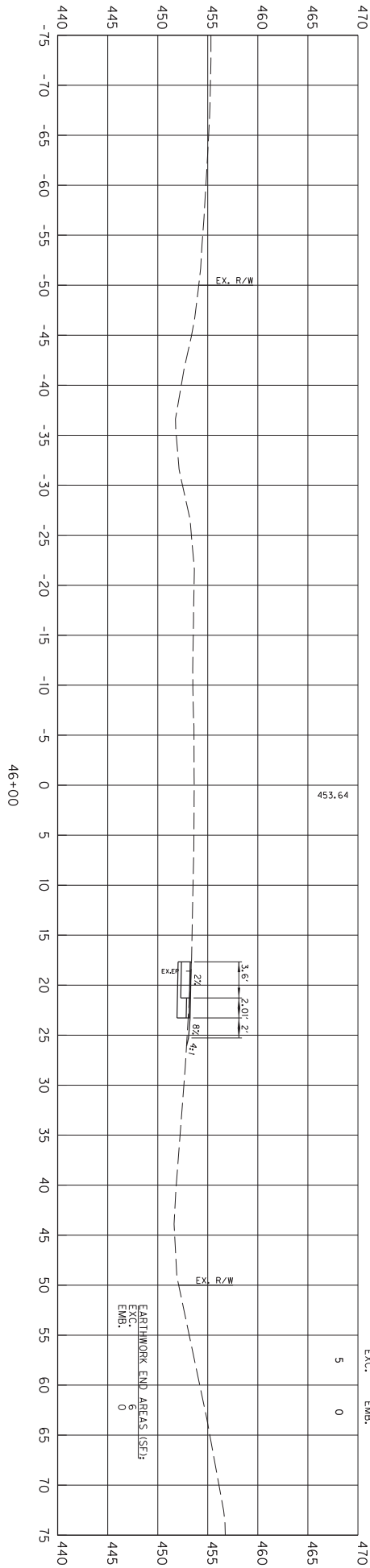
USER: ryan-s
DATE PLOTTED: August 23, 2018

FILE NAME: C:\PW\WORKDIR\RYAN-S\DM536460\FINAL_SECTIONS.DGN



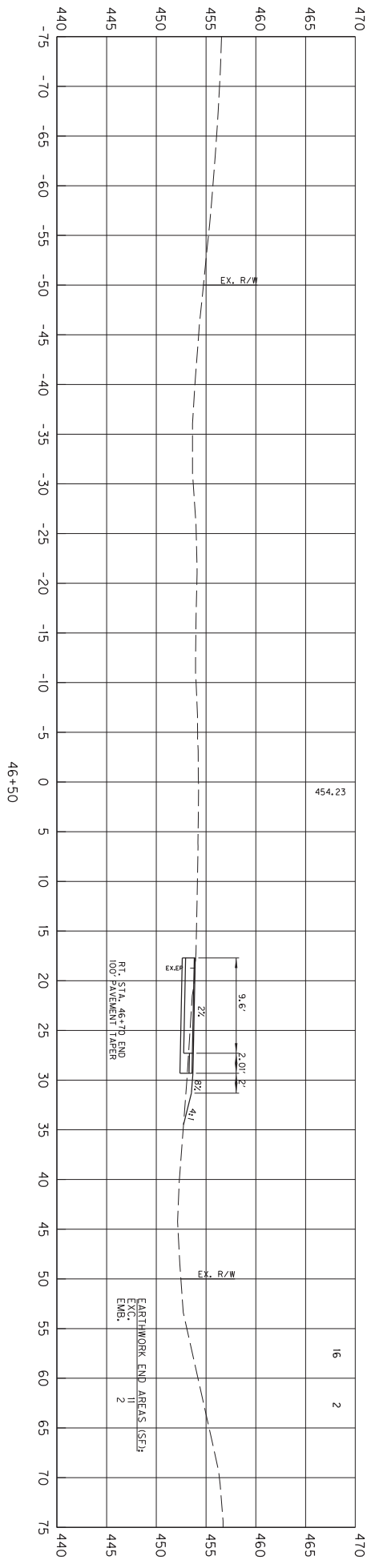
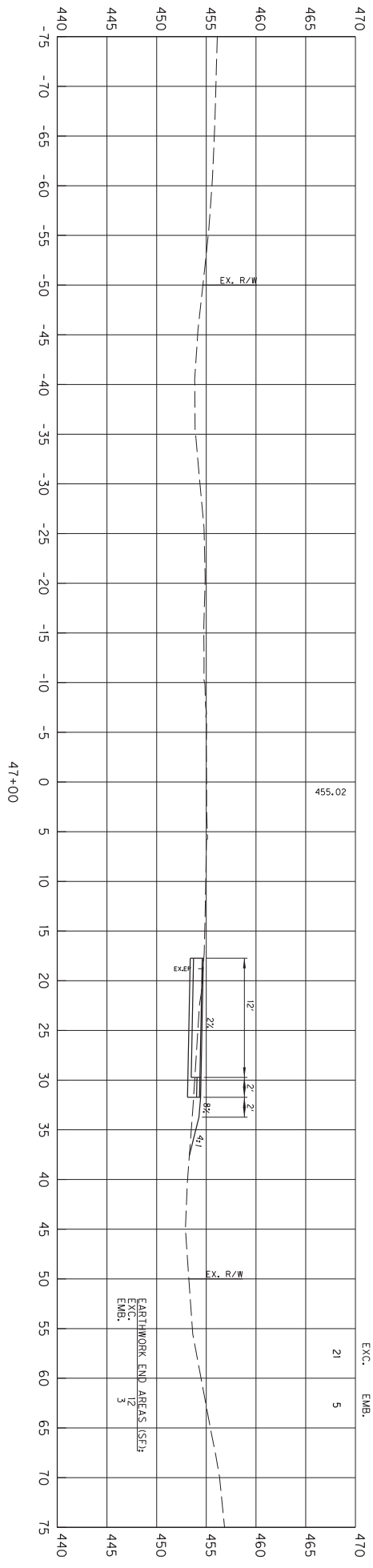
SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

HIGHWAY SAFETY IMPROVEMENT PROJECT
EASTBOUND RIGHT TURN LANE
STA. 45+50 TO STA. 46+00



EARTHWORK VOLUMES (CY)

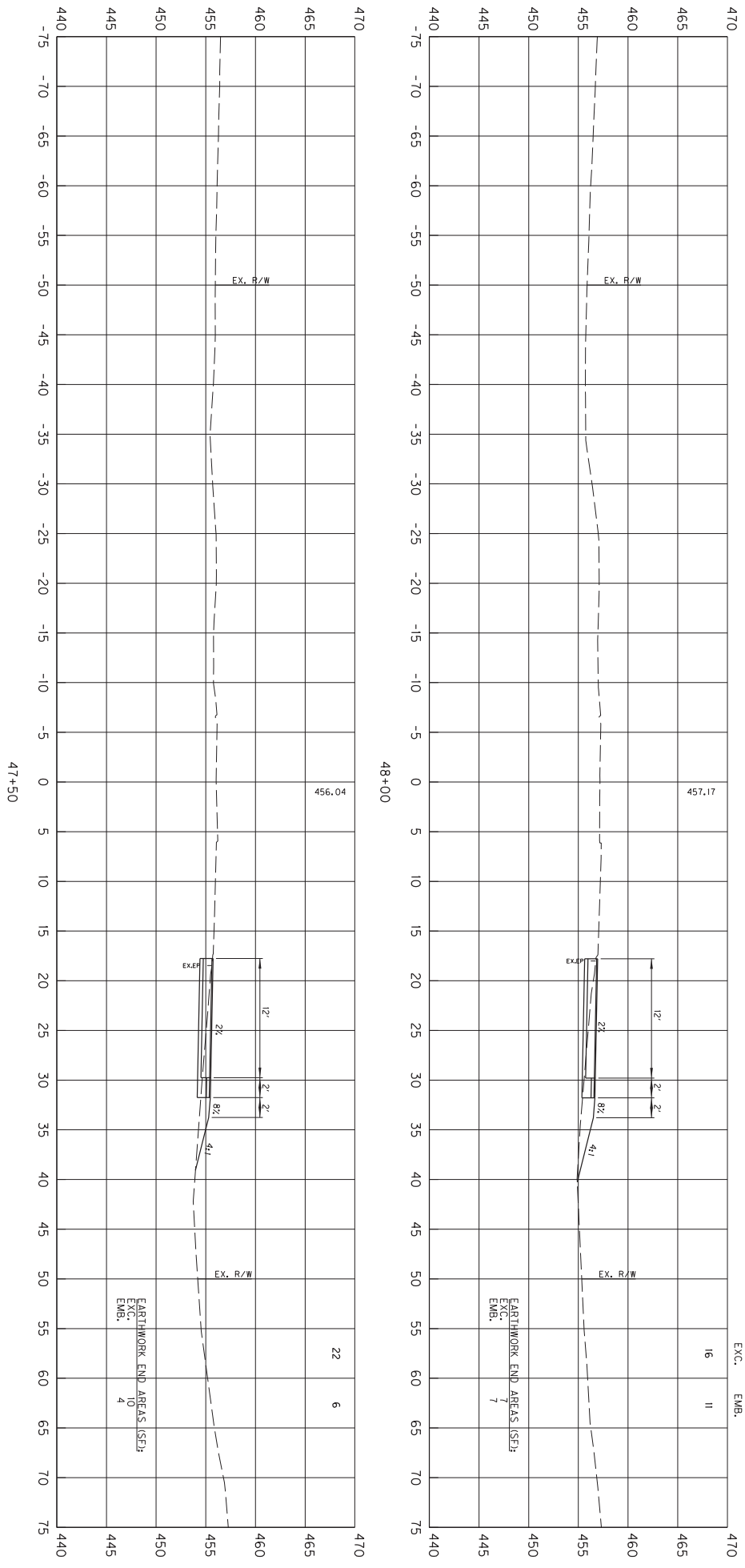
COUNT OF	ITEM NO.	SHEET NO.
JEFFERSON	5-9010.30	XI



SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

HIGHWAY SAFETY IMPROVEMENT PROJECT
EASTBOUND RIGHT TURN LANE
STA. 46+50 TO STA. 47+00

COUNT OF	ITEM NO.	SHEET NO.
JEFFERSON	5-9010.30	X2



SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

HIGHWAY SAFETY IMPROVEMENT PROJECT
EASTBOUND RIGHT TURN LANE
STA. 47+50 TO STA. 48+00

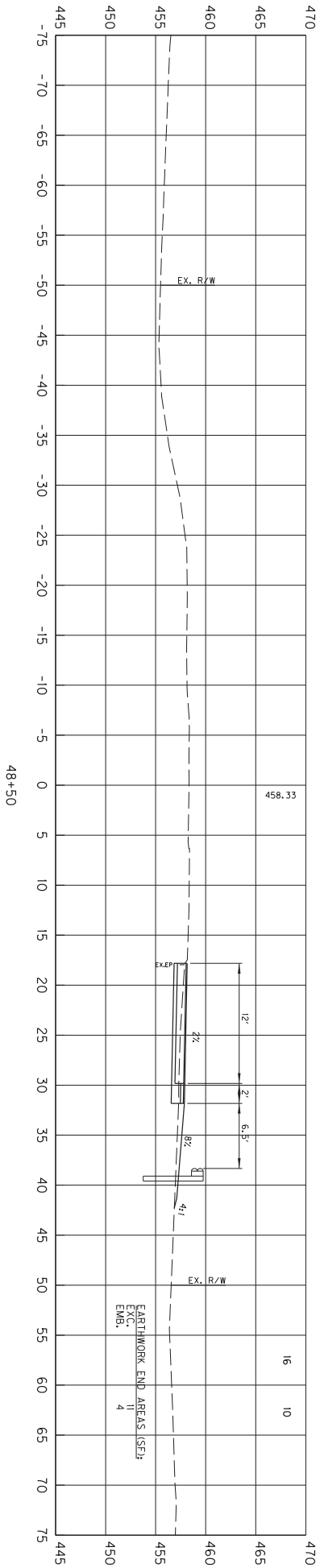
QUANTITY OF	ITEM NO.	SHEET NO.
JEFFERSON	5-9010.30	X3

InRoads v8.11.9.397

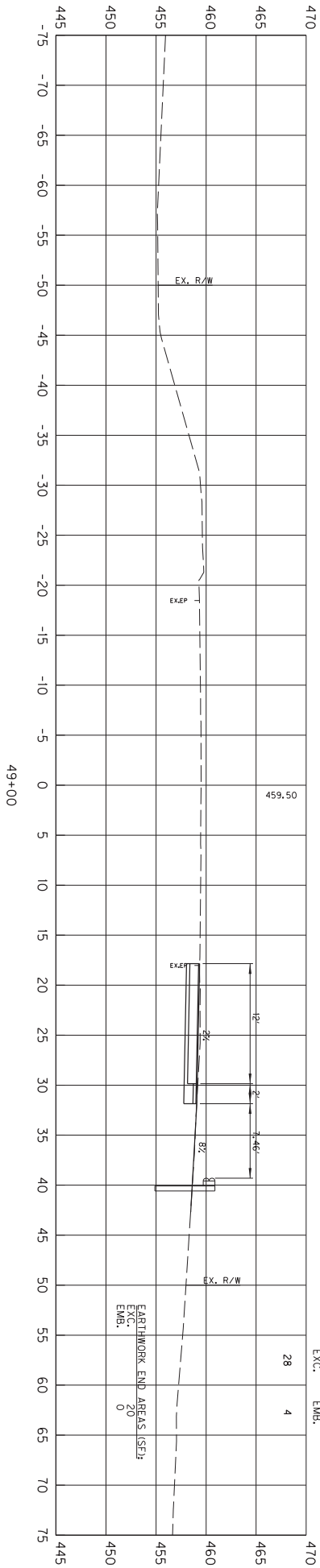
E-SHEET NAME:

USER: ryan-s
DATE PLOTTED: August 23, 2018

FILE NAME: C:\PW\WORKDIR\RYAN-S\DM536460\FINAL_SECTIONS.DGN



HIGHWAY SAFETY IMPROVEMENT PROJECT
EASTBOUND RIGHT TURN LANE
STA. 48+50 TO STA. 49+00



EARTHWORK VOLUMES (CY)

EXC.	EMB.
28	4
EARTHWORK END AREAS (SEF)	
20	0
EMB.	

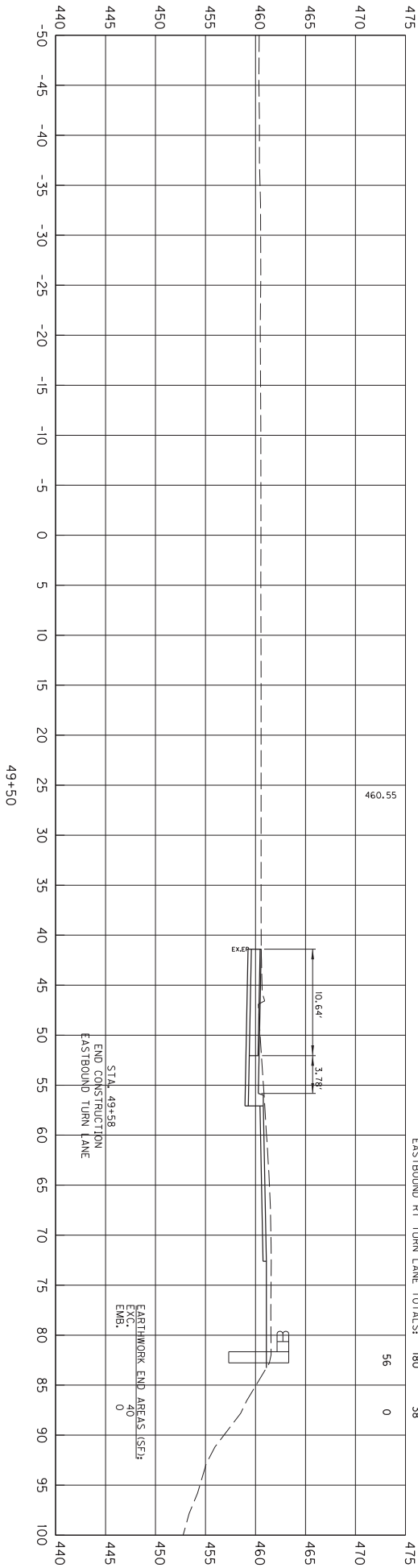
QUANTITY	ITEM NO.	SHEET NO.
JEFFERSON	5-9010.30	X4

InRoads v8.11.9.397

E-SHEET NAME:

USER: ryan-s
DATE PLOTTED: August 23, 2018

FILE NAME: C:\PW\WORKDIR\RYAN-S\DM536460\FINAL_SECTIONS.DGN



EASTBOUND RT TURN LANE TOTALS: 180

EXC. 38

EMB.

EARTHWORK VOLUMES (CY)

EXC.	EMB.
56	0

EARTHWORK END AREAS (SEF) EMB. 90

SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

HIGHWAY SAFETY IMPROVEMENT PROJECT
EASTBOUND RIGHT TURN LANE
STA. 49+50

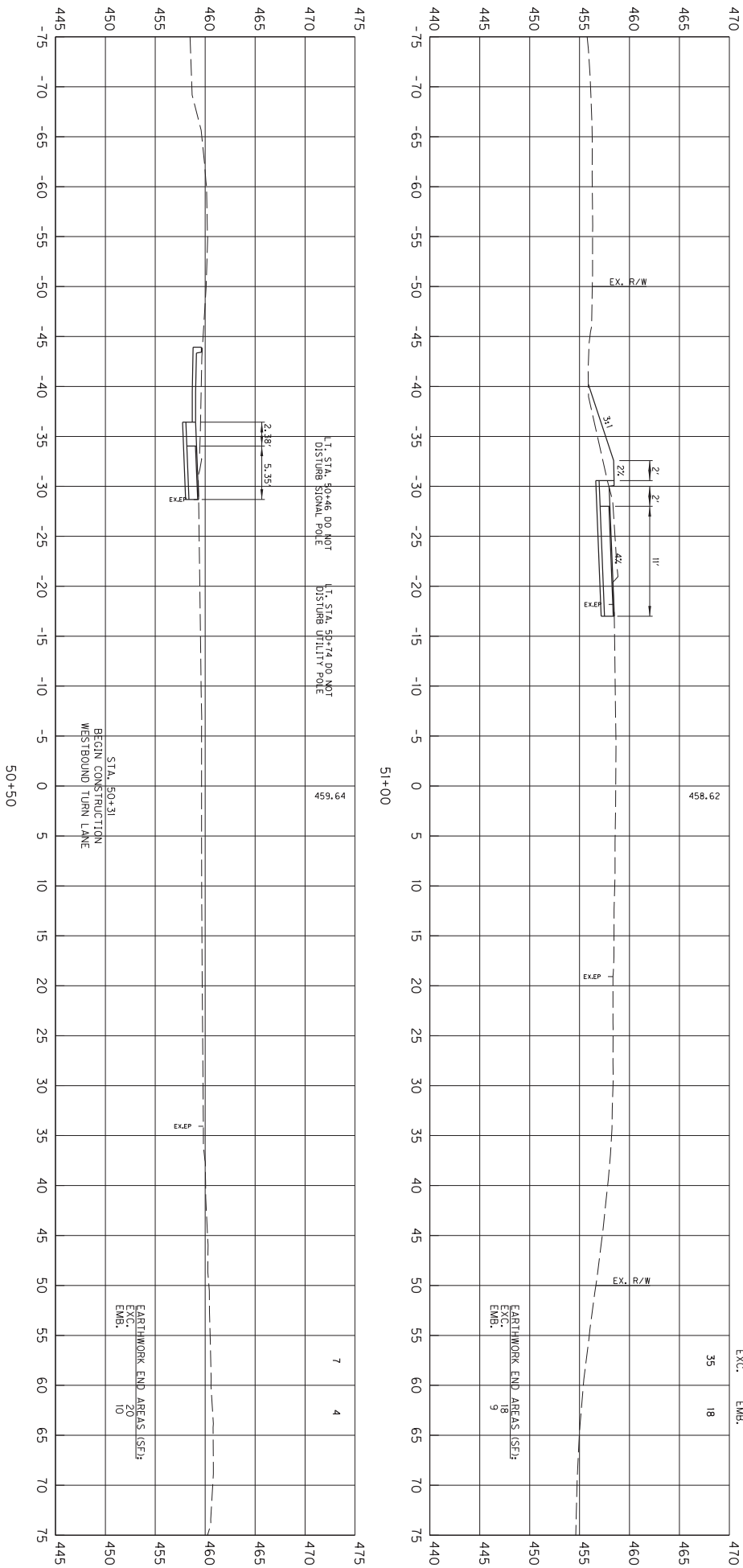
QUANTITY	ITEM NO.	SHEET NO.
JEFFERSON	5-9010.30	X5

InRoads v8.11.9.397

E-SHEET NAME:

USER: ryan-s
DATE PLOTTED: August 23, 2018

FILE NAME: C:\PW\WORKDIR\RYAN-S\DM536460\FINAL_SECTIONS.DGN



SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

HIGHWAY SAFETY IMPROVEMENT PROJECT
WESTBOUND RIGHT TURN LANE
STA. 50+50 TO STA. 51+00

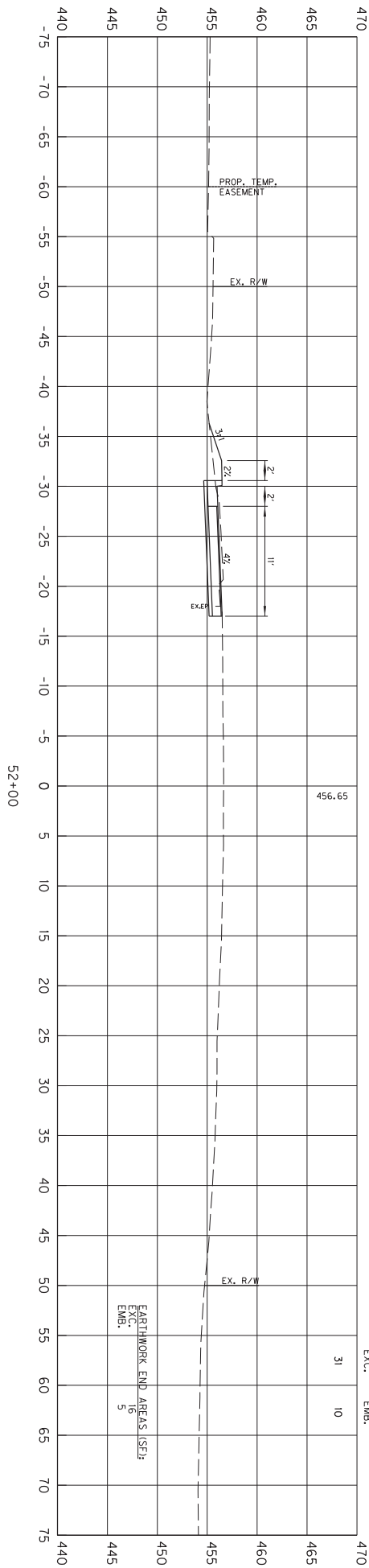
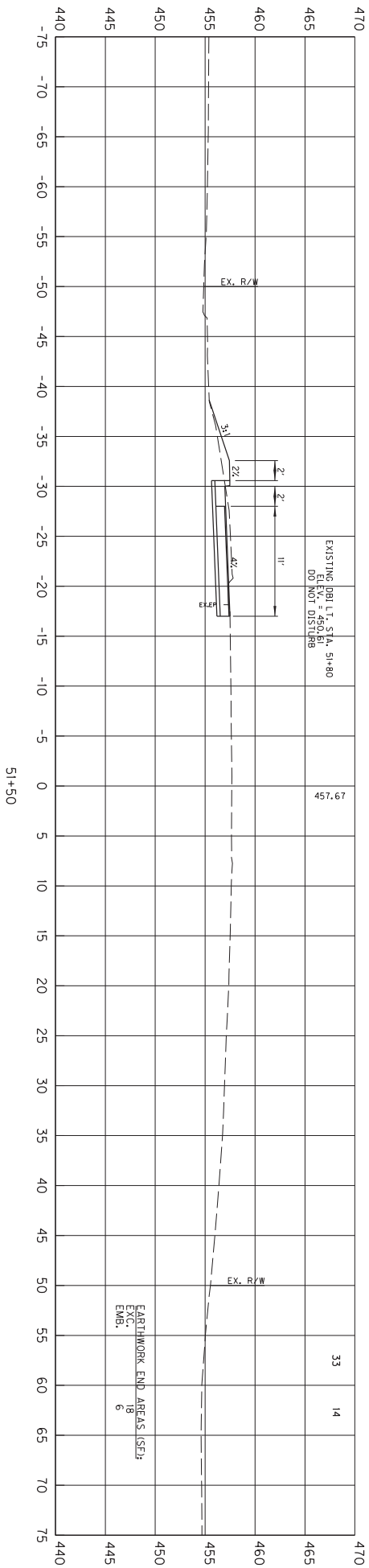
QUANTITY	ITEM NO.	SHEET NO.
JEFFERSON	5-9010.30	X6

InRoads v8.11.9.397

E-SHEET NAME:

USER: ryan-s
DATE PLOTTED: August 23, 2018

FILE NAME: C:\PW\WORKDIR\RYAN-S\DM536460\FINAL_SECTIONS.DGN



SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

HIGHWAY SAFETY IMPROVEMENT PROJECT
WESTBOUND RIGHT TURN LANE
STA. 51+50 TO STA. 52+00

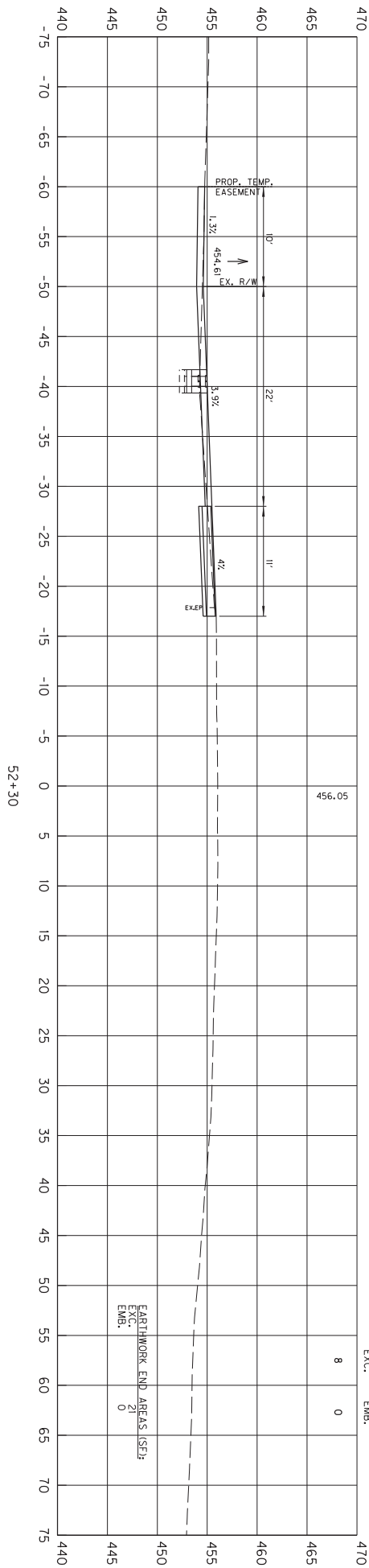
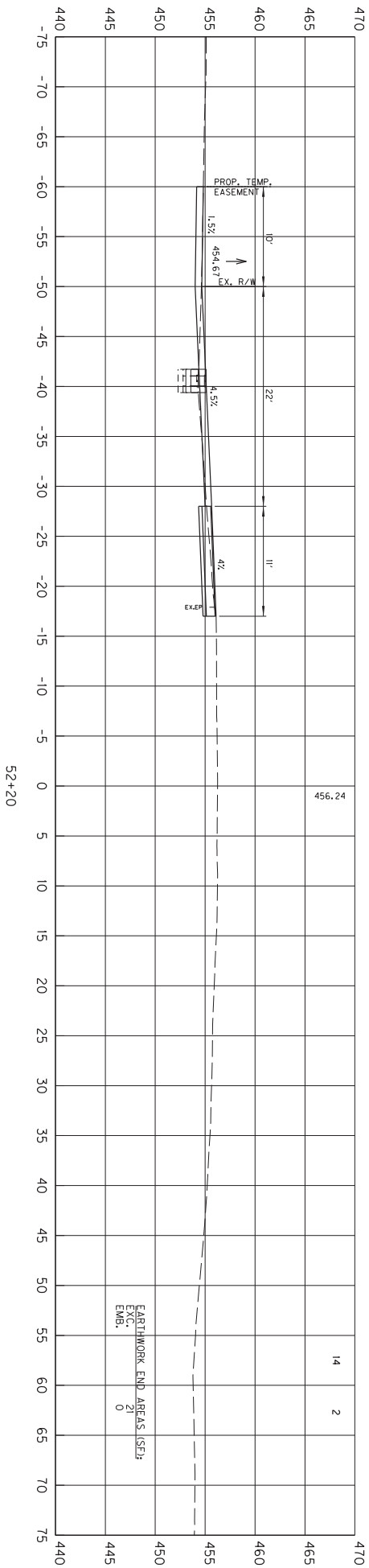
QUANTITY	ITEM NO.	SHEET NO.
JEFFERSON	5-9010.30	X7

InRoads v8.11.9.397

E-SHEET NAME:

USER: ryan-s
DATE PLOTTED: August 23, 2018

FILE NAME: C:\PW\WORKDIR\RYAN-S\DM536460\FINAL_SECTIONS.DGN



SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

HIGHWAY SAFETY IMPROVEMENT PROJECT
WESTBOUND RIGHT TURN LANE
STA. 52+20 TO STA. 52+30

QUANTITY	ITEM NO.	SHEET NO.
JEFFERSON	5-9010.30	X8

EARTHWORK VOLUMES (CY):

EXC. 8

EMB. 0

EARTHWORK END AREAS (SF):

EXC. 0

EMB. 0

EARTHWORK END AREAS (SF):

EXC. 14

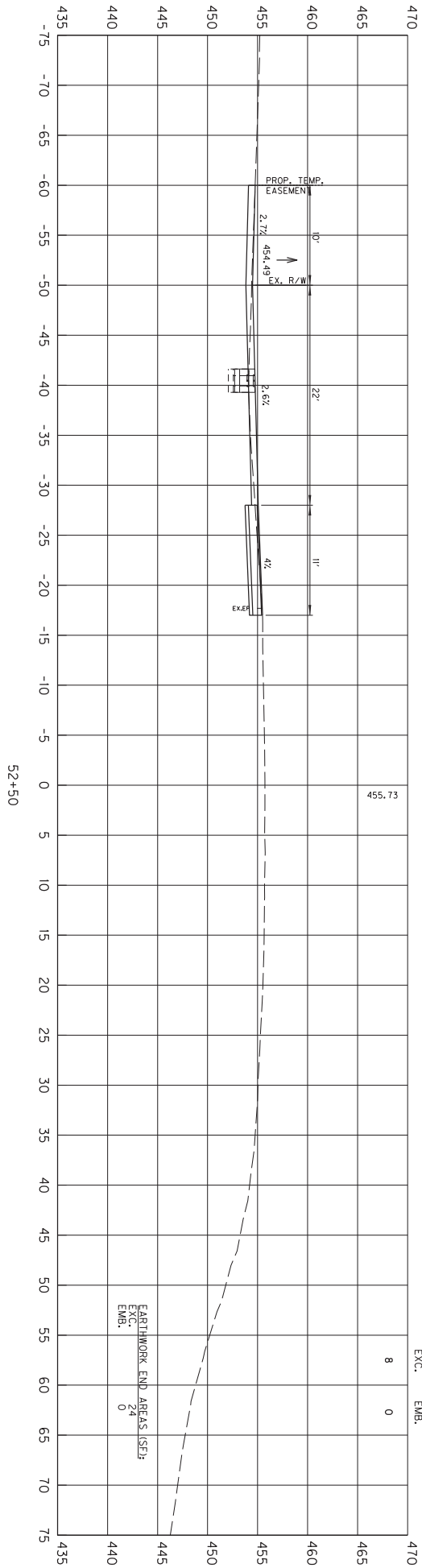
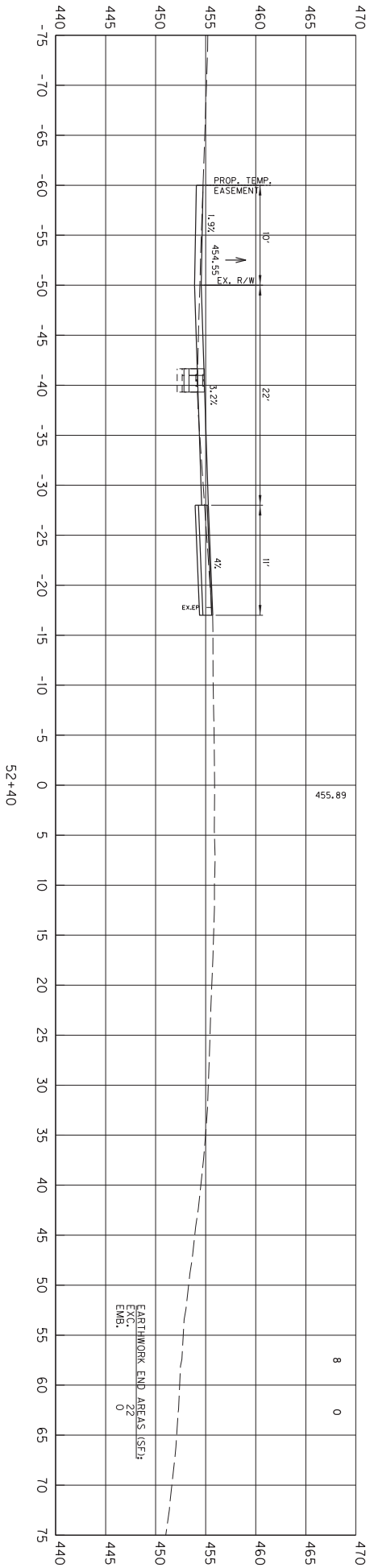
EMB. 2

InRoads v8.11.9.397

E-SHEET NAME:

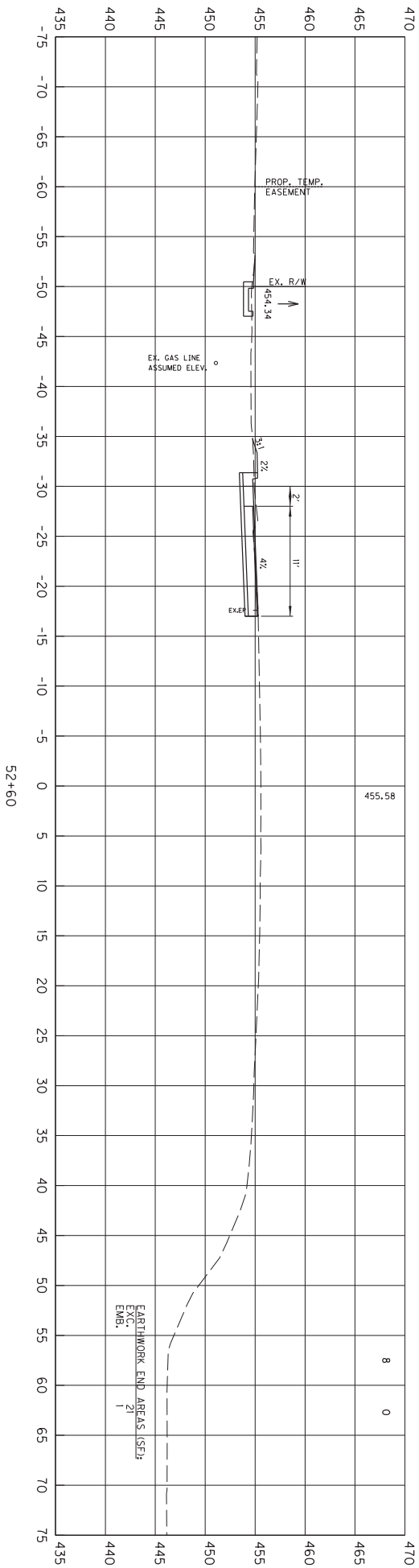
USER: ryan-s
DATE PLOTTED: August 23, 2018

FILE NAME: C:\PW\WORKDIR\RYAN-S\DM536460\FINAL_SECTIONS.DGN



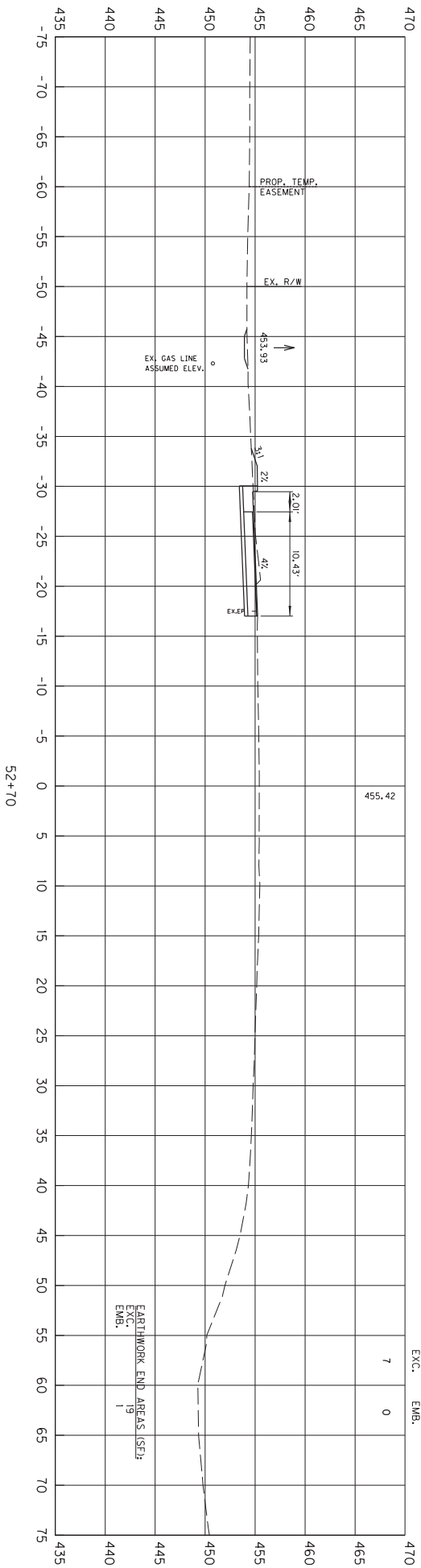
HIGHWAY SAFETY IMPROVEMENT PROJECT
WESTBOUND RIGHT TURN LANE
STA. 52+40 TO STA. 52+50

QUANTITY	ITEM NO.	SHEET NO.
JEFFERSON	5-9010.30	X9



SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

HIGHWAY SAFETY IMPROVEMENT PROJECT
WESTBOUND RIGHT TURN LANE
STA. 52+60 TO STA. 52+70



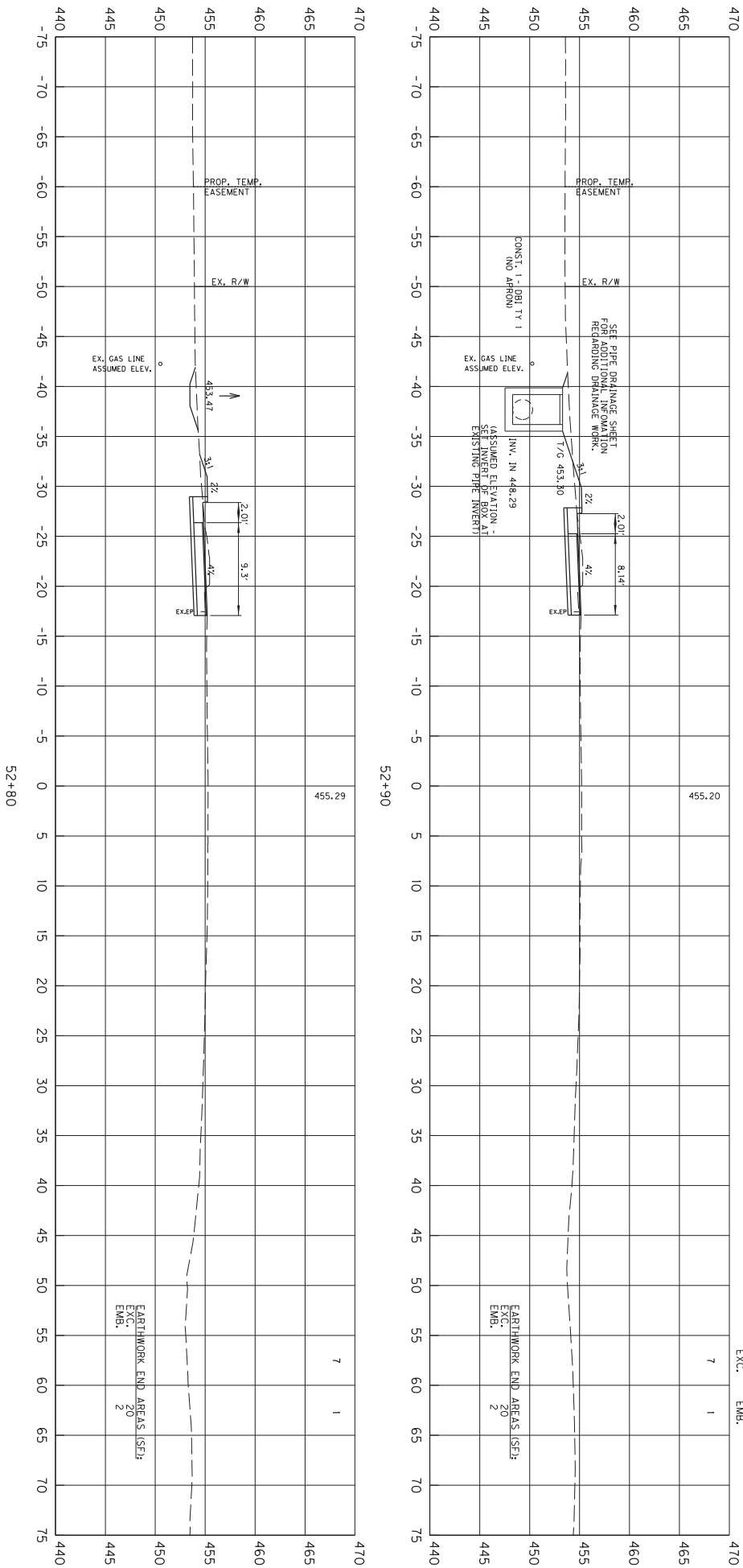
QUANTITY	ITEM NO.	SHEET NO.
JEFFERSON	5-9010.30	X10

InRoads v8.11.9.397

E-SHEET NAME:

USER: ryon-s
DATE PLOTTED: August 23, 2018

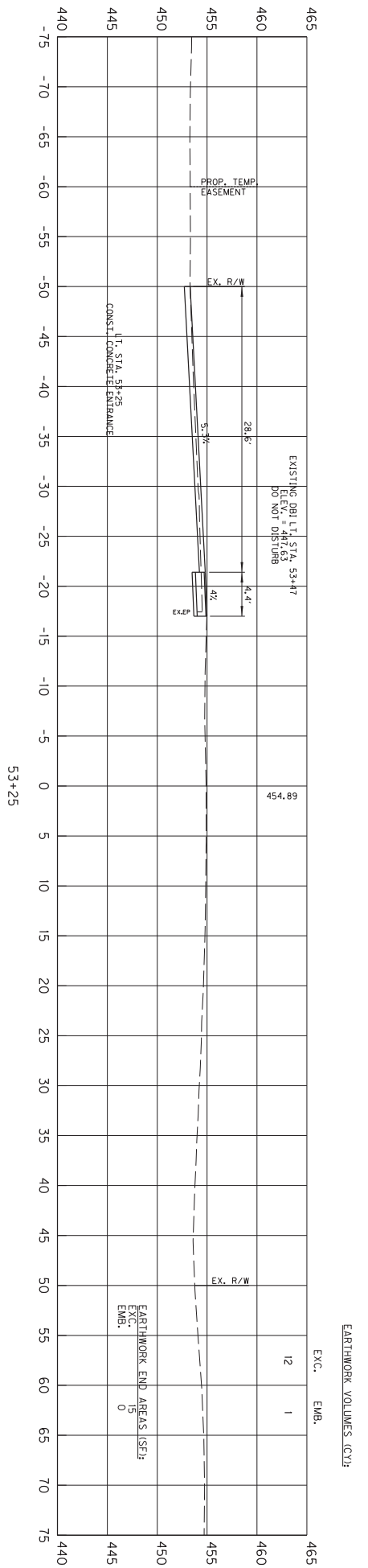
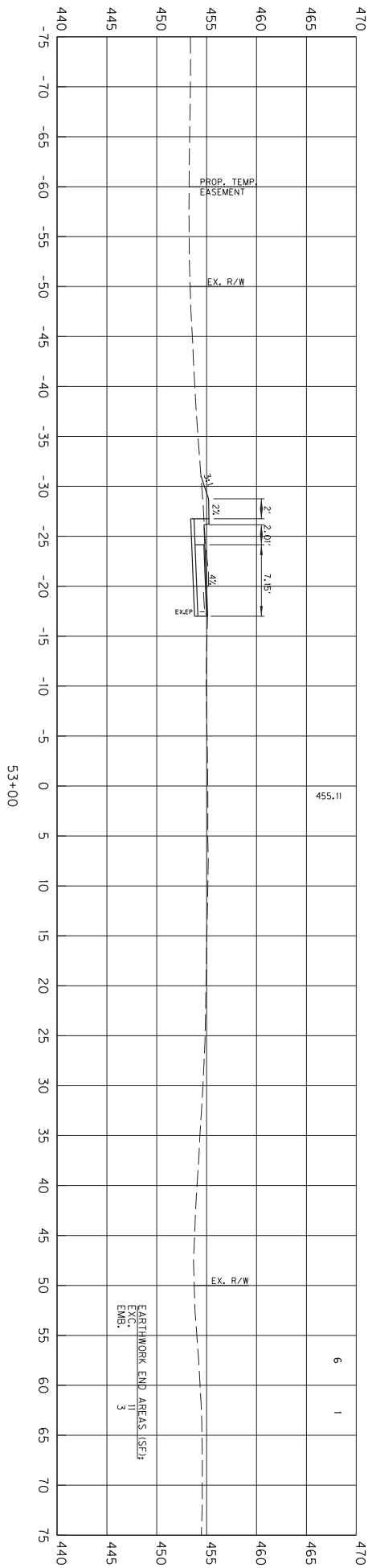
FILE NAME: C:\PW\WORKDIR\RYAN-S\DM536460\FINAL_SECTIONS.DGN



SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

HIGHWAY SAFETY IMPROVEMENT PROJECT
WESTBOUND RIGHT TURN LANE
STA. 52+80 TO STA. 52+90

QUANTITY	ITEM NO.	SHEET NO.
JEFFERSON	5-9010.30	XII



53+00

SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

HIGHWAY SAFETY IMPROVEMENT PROJECT
WESTBOUND RIGHT TURN LANE
STA. 53+00 TO STA. 53+25

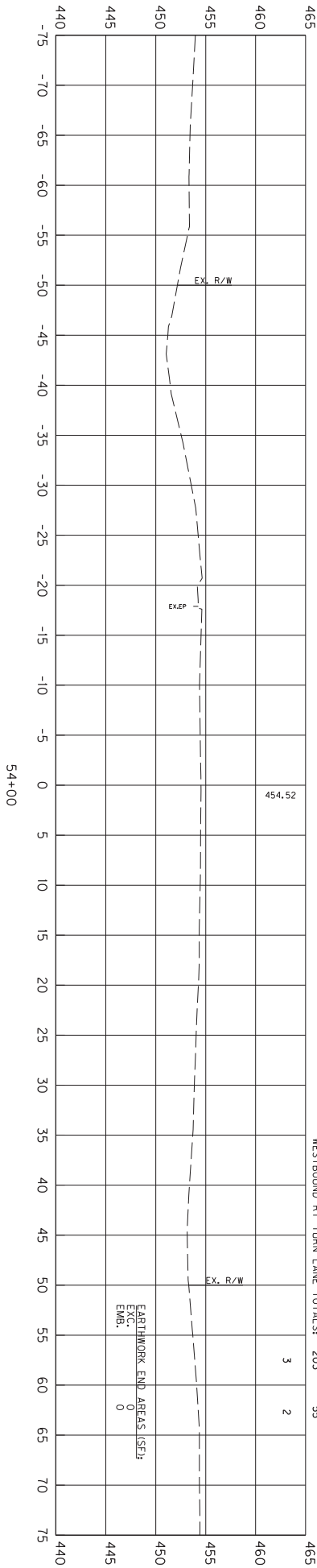
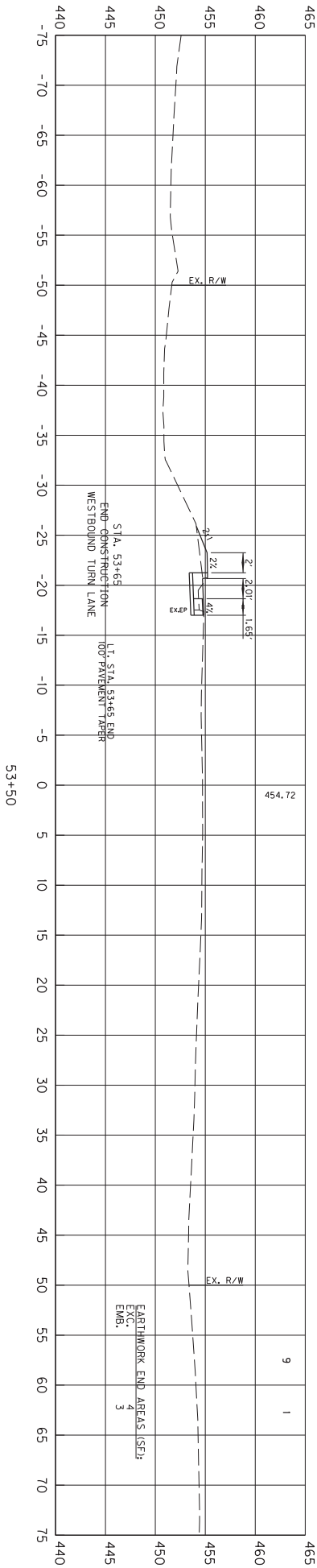
QUANTITY	ITEM NO.	SHEET NO.
JEFFERSON	5-9010.30	X12

InRoads v8.11.9.397

E-SHEET NAME:

USER: ryan-s
DATE PLOTTED: August 23, 2018

FILE NAME: C:\PW\WORKDIR\RYAN-S\DM536460\FINAL_SECTIONS.DGN



WESTBOUND RT TURN LANE TOTALS: 203 55

EXC. EMB.

EARTHWORK VOLUMES (CY)

SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

HIGHWAY SAFETY IMPROVEMENT PROJECT
WESTBOUND RIGHT TURN LANE
STA. 53+50 TO STA. 54+00

COUNT OF	ITEM NO.	SHEET NO.
JEFFERSON	5-9010.30	M13

**RECOMMENDATION FOR PICKUP OF ITEMS TO BE INSTALLED
 ON TRAFFIC SIGNALS/LIGHTING**

Item Number: 5-9010.30

County: 56

Description: HSIP Outer Loop Ky1065 at New Cut Ky1865

Cabinets		Master code
1	T-01-0510	Isolator, Model 242 (for ped detector and railroad)
4	T-01-0600	Loop Detector, Model 222

Signals		
8	T-02-0009	Siemens 3 Section Signal
8	T-02-0032	Siemens 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-02-0090	Pedestrian signal housing
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
2	T-02-0365	LED Countdown Pedestrian Module

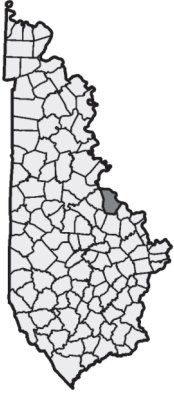
Special items		
1	T-02-0661	Post Top for Pedestal (each)
2	T-02-0670	Pedestal
4	T-06-0710	Ped Detector Pole Mount FSA Box
4	T-06-0730	Ped Button w/o Plunger

Poles		
1	T-04-0020	Steel Strain Pole 30 foot

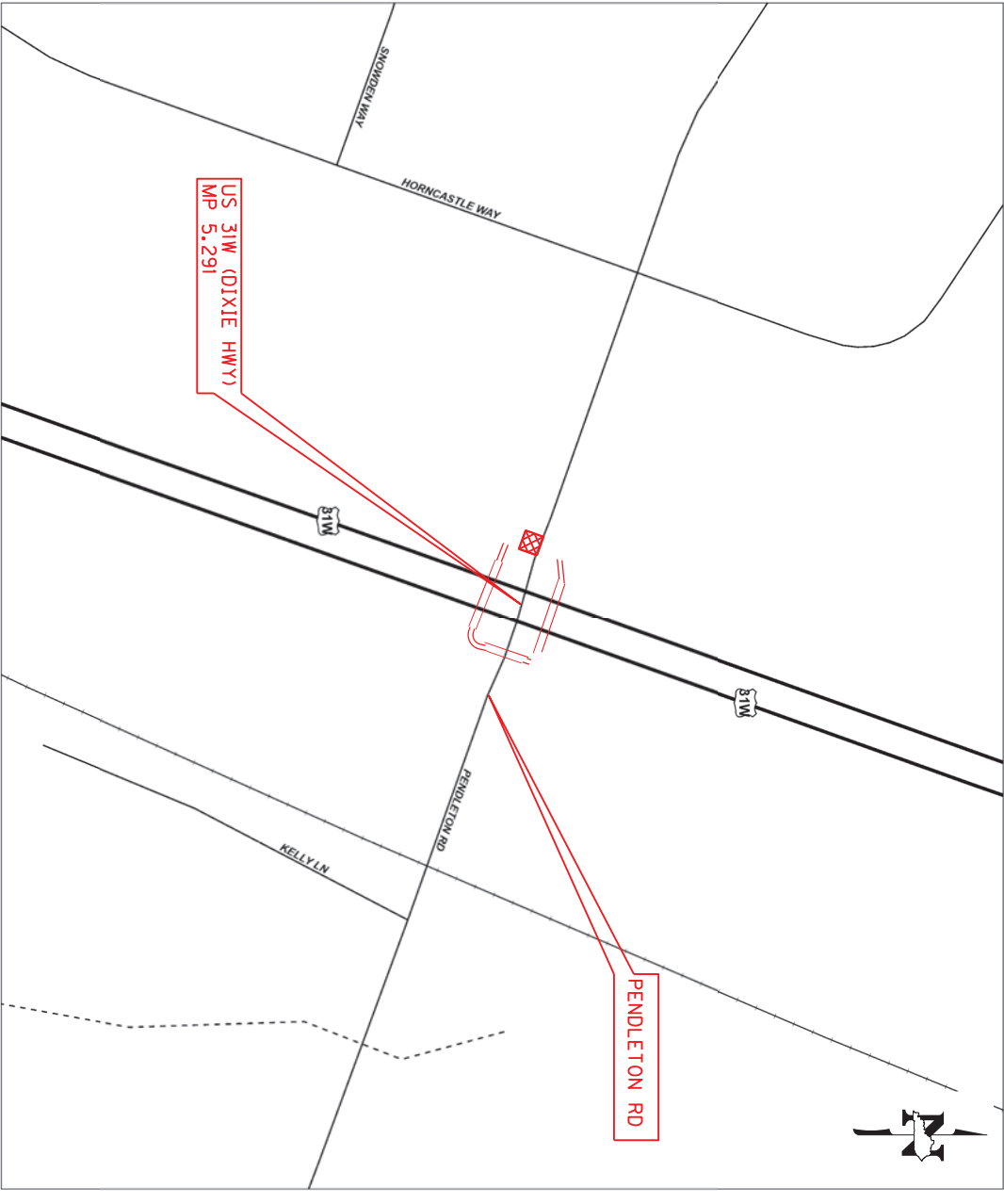
Electrical Contractor Name _____
 Electrical Contractor Supervisor _____ Contact number for Supervisor _____
 Project Engineer _____ Contact number for Project Engineer _____
 Project Engineer attests that the mentioned contractor is the actual electrical contractor on this project
 Signature of Project Engineer or Designee _____

JEFFERSON COUNTY Intersection Improvement at US 31W and Pendleton Road

COUNTY OF	ITEM NO.
JEFFERSON	5-9010.50



Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
PLANS OF
PROPOSED PROJECT
JEFFERSON COUNTY
DIXIE HWY / PENDLETON RD

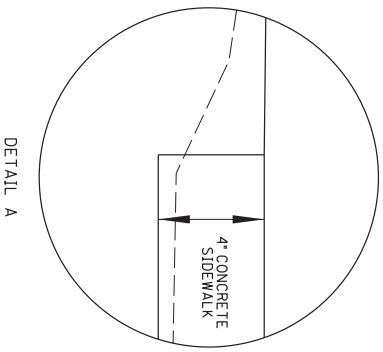
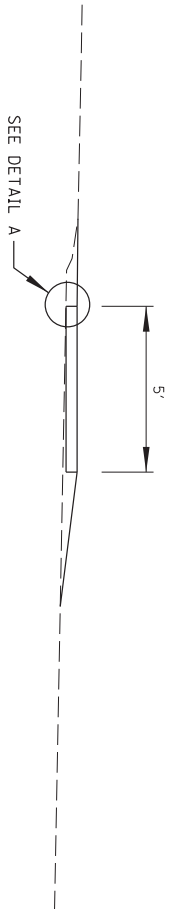


JEFFERSON COUNTY US 31W (DIXIE HWY) @ PENDLETON RD ITEM NO. 5-9010.50 GENERAL SUMMARY			
ITEM NUMBER	ITEM	UNIT	QUANTITY
462	CULVERT PIPE-18 IN	LF	24
1310	REMOVE PIPE	LF	2
1812	REMOVE CURB AND GUTTER	LF	32
2200	ROADWAY EXCAVATION ①	CUYD	8
2569	DEMOBILIZATION	LS	1
2650	MAINTAIN & CONTROL TRAFFIC (JEFFERSON CO. - US 31W @ PENDLETON RD)	LS	1
2701	TEMP SILT FENCE	LF	44
2720	SIDEWALK-4 IN CONCRETE	SQYD	37
2726	STAKING (JEFFERSON CO. - US 31W @ PENDLETON RD)	LS	1
5952	TEMP MULCH	SQYD	74
5953	TEMP SEEDING AND PROTECTION	SQYD	56
5985	SEEDING AND PROTECTION	SQYD	66
6540	PAVE STRIPING-THERMO-4 IN W	LF	118
6544	PAVE STRIPING-THERMO-8 IN W	LF	86
6565	PAVE MARKING-THERMO X-WALK-6 IN	LF	394
6568	PAVE MARKING-THERMO STOP BAR-24IN	LF	40
6598	PAVMENT MARKING REMOVAL	SQFT	80
21819NN	FITTINGS (18" CMP TO 18" CULVERT PIPE)	EACH	1
23158ES505	DETECTABLE WARNINGS	SQFT	79
① ESTIMATES OF EARTHWORK QUANTITIES ARE FOR DESIGN ONLY. THE CONTRACTOR IS ADVISED THAT THE EARTHWORK CALCULATIONS ARE FOR INFORMATIONAL PURPOSES ONLY. ASSUMPTIONS FOR SHRINKAGE AND SWELL FACTORS ARE THE CONTRACTOR'S RESPONSIBILITY.			

TYPICAL SECTIONS

SIDEWALK - 4 IN CONCRETE

① CONSTRUCT EACH PROPOSED SIDEWALK TO THE KYTC STANDARD DRAWINGS AND STANDARD SPECIFICATIONS.



NOT TO SCALE

HIGHWAY SAFETY IMPROVEMENT PROJECT
SIDEWALK
TYPICAL SECTION

QUANTITY	ITEM NO.	SHEET NO.
JEFFERSON	5-9010.50	R2

STRIPING QUANTITY SUMMARY

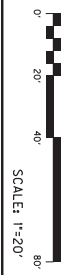
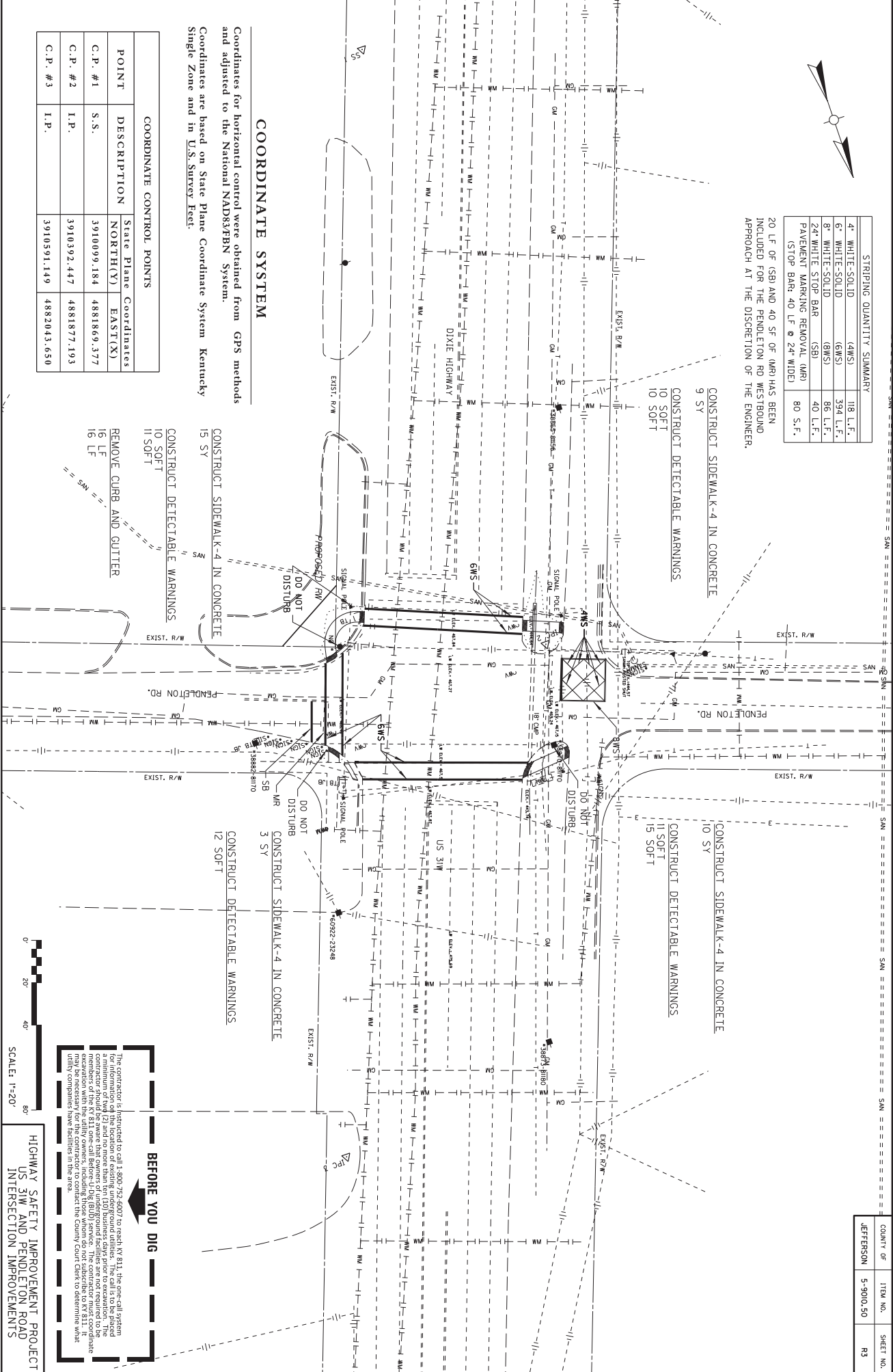
4" WHITE-SOLID (4MS)	118 L.F.
6" WHITE-SOLID (6MS)	394 L.F.
8" WHITE-SOLID (8MS)	86 L.F.
24" WHITE-SOLID (SB)	40 L.F.
PAYEMENT MARKING REMOVAL (MR)	80 S.F.
STOP BAR: 40 LF @ 24" WIDE	

20 LF OF (SB) AND 40 SF OF (MR) HAS BEEN INCLUDED FOR THE PENDLETON RD WESTBOUND APPROACH AT THE DISCRETION OF THE ENGINEER.

COORDINATE CONTROL POINTS

POINT	DESCRIPTION	State Plane Coordinates
		NORTH (Y) EAST (X)
C.P. #1	S.S.	3910099.184 4881869.377
C.P. #2	I.P.	3910392.447 4881877.193
C.P. #3	I.P.	3910591.149 4882043.650

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.



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 a minimum of 14 (14) and no more than ten (10) business days prior to excavation. The contractor must coordinate with the utility owners, including those whom do not subscribe to KY 811. If excavation with the utility owners, including those whom do not subscribe to KY 811, if utility companies have facilities in the area.

BEFORE YOU DIG

**HIGHWAY SAFETY IMPROVEMENT PROJECT
US 31W AND PENDLETON ROAD
INTERSECTION IMPROVEMENTS**

COUNT OF	ITEM NO.	SHEET NO.
JEFFERSON	5-9101.50	R3

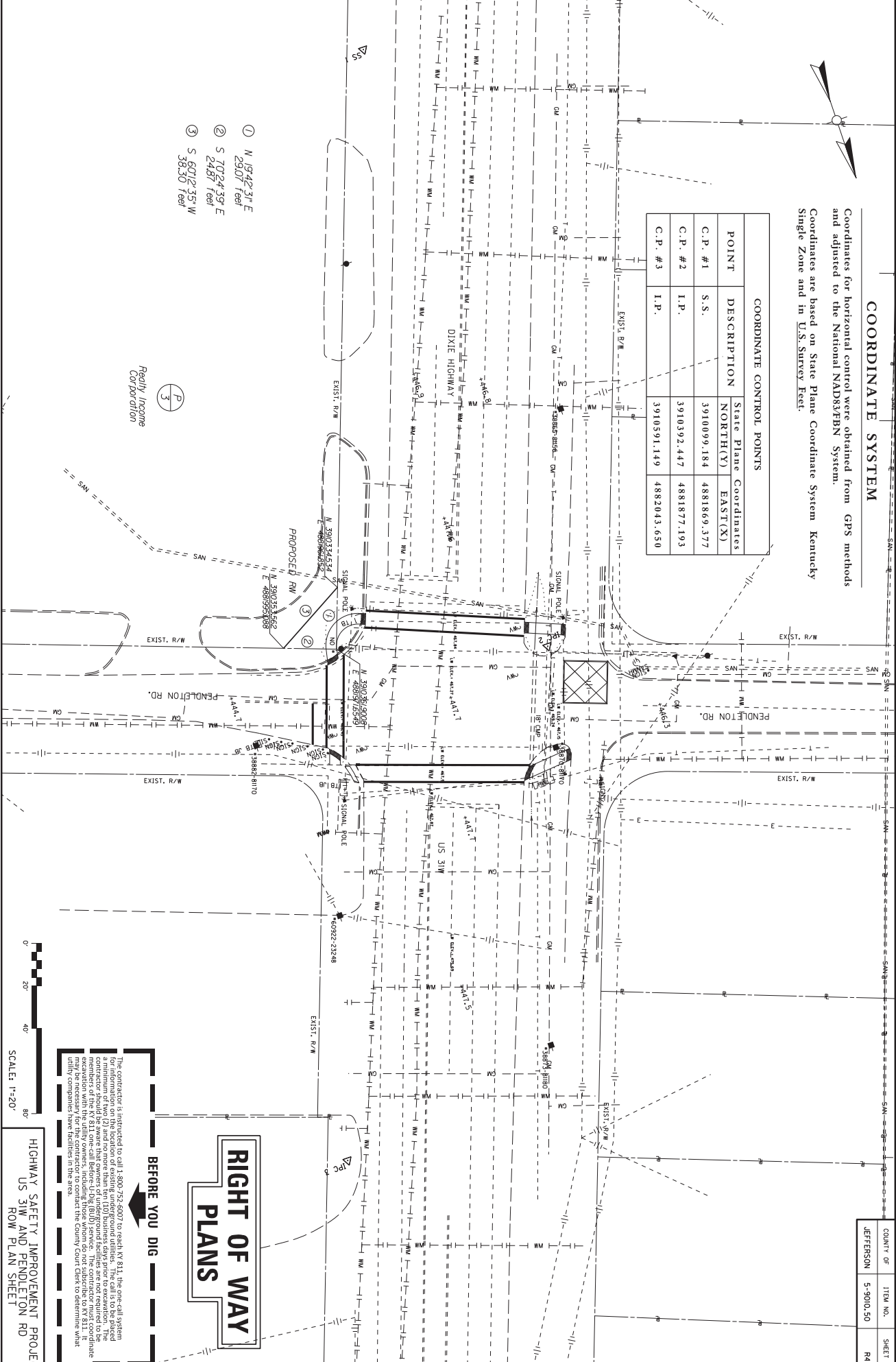
COORDINATE SYSTEM

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.

COORDINATE CONTROL POINTS		
POINT	DESCRIPTION	State Plane Coordinates
		NORTH(Y) EAST(X)
C.P. #1	S.S.	3910099.184 4881869.377
C.P. #2	I.P.	3910392.447 4881877.193
C.P. #3	I.P.	3910391.149 4882043.650

- ① N 19°42'31" E
29.07 Feet
- ② S 70°24'39" E
24.87 Feet
- ③ S 60°12'35" W
38.30 Feet

Realty Income Corporation



RIGHT OF WAY
PLANS

BEFORE YOU DIG

The contractor is instructed to call 1-800-753-6007 to reach KY 811, the one-call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor must coordinate with the utility owners, including those whom do not subscribe to KY 811. If excavation with the utility owners, including those whom do not subscribe to KY 811, utility companies have facilities in the area.

HIGHWAY SAFETY IMPROVEMENT PROJECT
US 31W AND PENDLETON RD
ROW PLAN SHEET

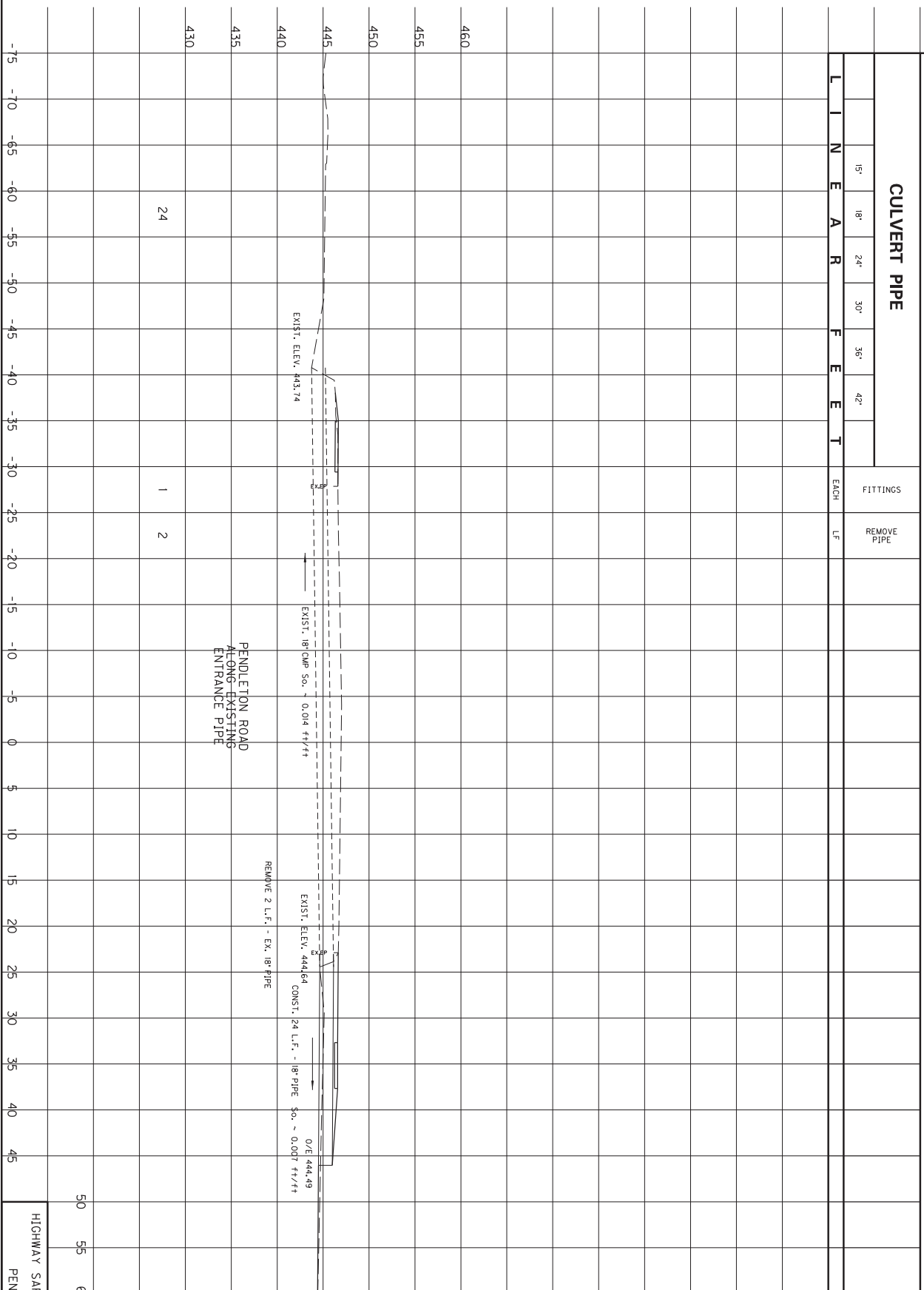
COUNT	OF	ITEM NO.	SHEET NO.
JEFFERSON	5-9010.50	R4	

PIPE DRAINAGE SHEET

CULVERT PIPE

15'	18'	24'	30'	36'	42'
L I N E A R F E E T					

FITTINGS	REMOVE PIPE
EACH	L.F.



PENDELTON ROAD
ALONG EXISTING
ENTRANCE PIPE

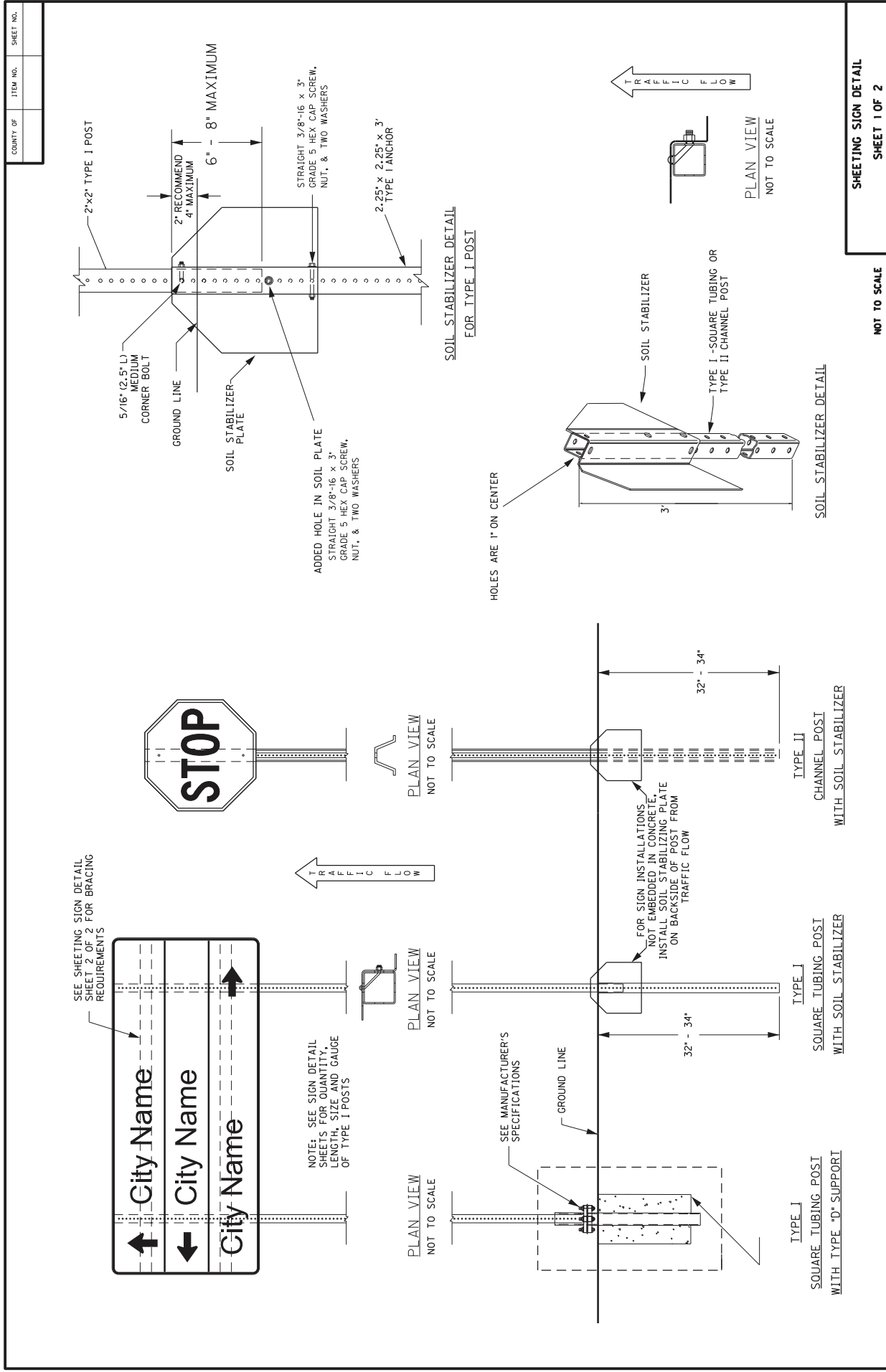
REMOVE 2 L.F. - EX. 18" PIPE

EXIST. ELEV. 444.64
CONST. 24 L.F. - 18" PIPE 0.007 ft/ft

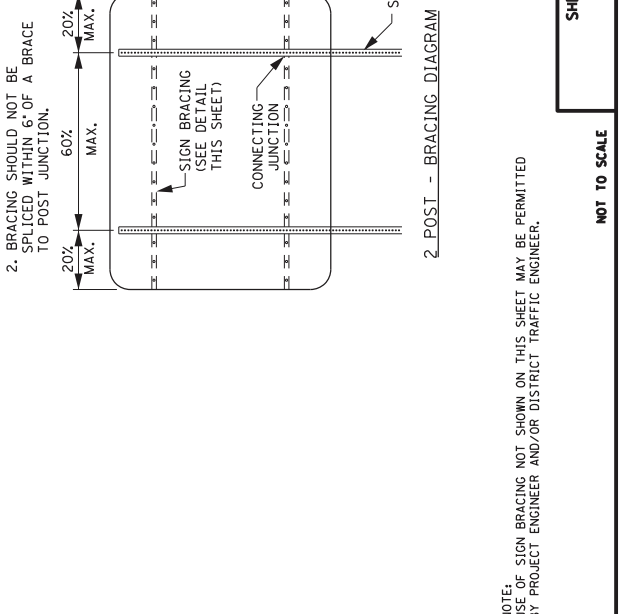
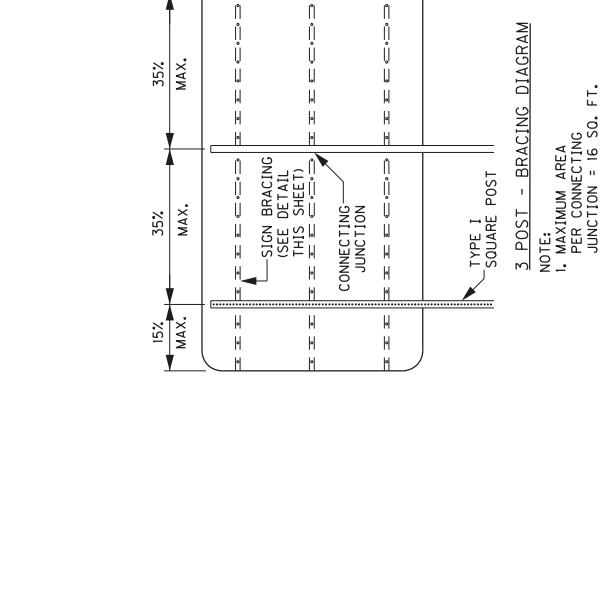
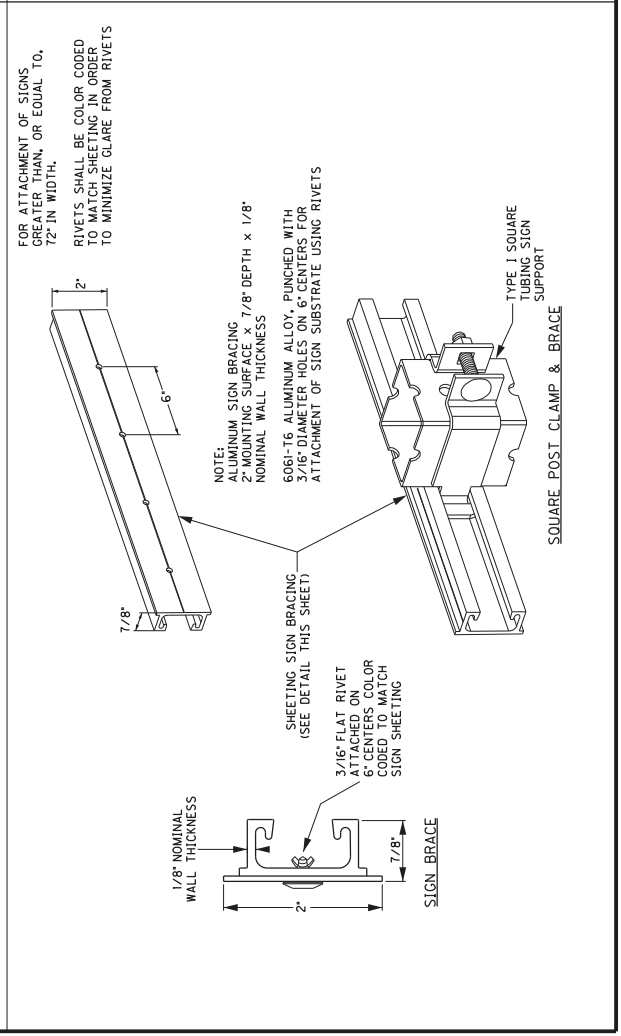
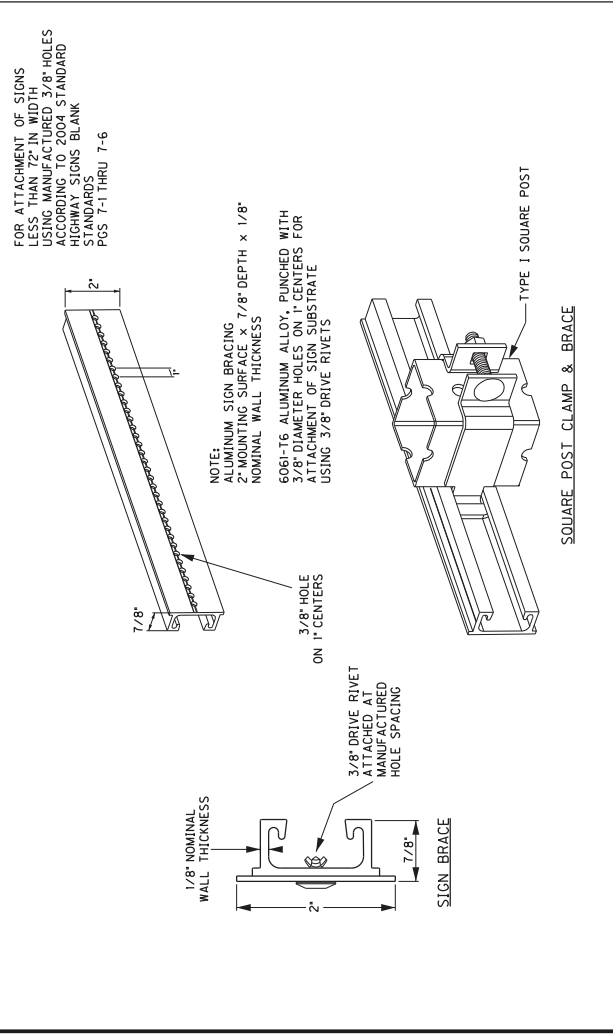
0/E 444.49
CONST. 2 L.F. - 18" PIPE 0.007 ft/ft

50	55	60	65	70	75
SCALE: 1"=5'					
HIGHWAY SAFETY IMPROVEMENT PROJECT PIPE SHEET PENDELTON ENTR. PIPE					

COUNT OF	ITEM NO.	SHEET NO.
JEFFERSON	5-9010.50	XI



COUNTY OF	ITEM NO.	SHEET NO.



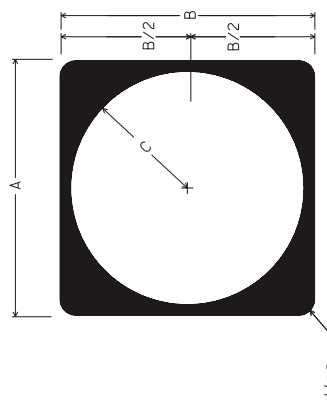
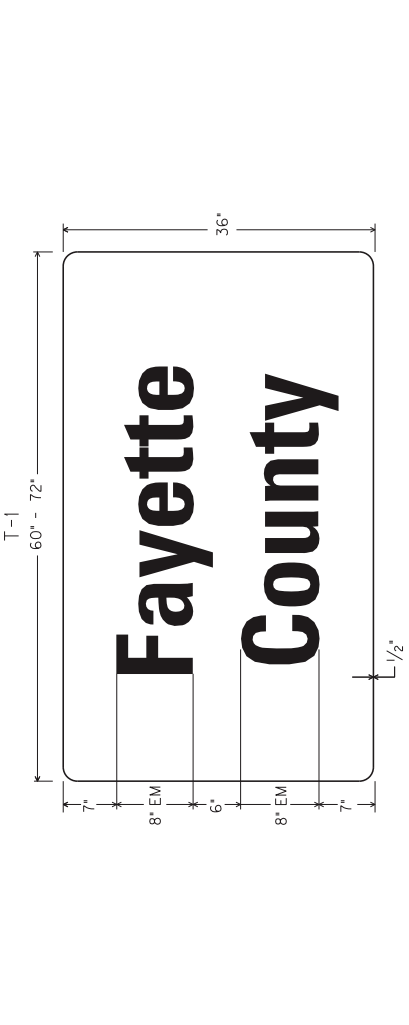
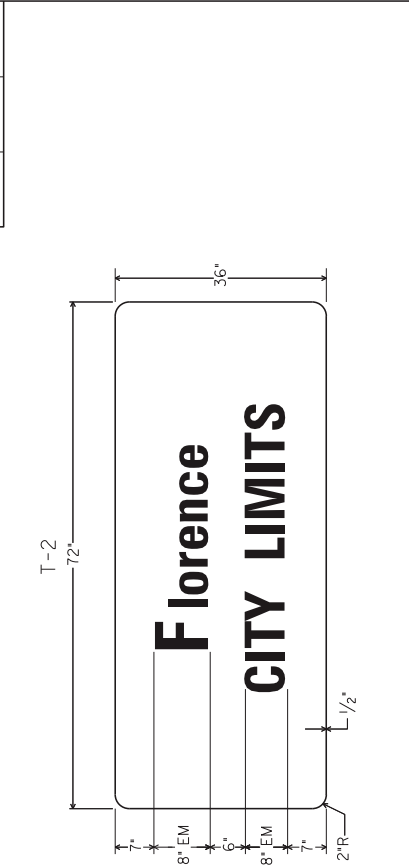
NOTE:
1. MAXIMUM AREA PER CONNECTING JUNCTION = 16 SQ. FT.
2. BRACING SHOULD NOT BE SPLICED WITHIN 6" OF A BRACE TO POST JUNCTION.

NOTE:
USE OF SIGN BRACING NOT SHOWN ON THIS SHEET MAY BE PERMITTED BY PROJECT ENGINEER AND/OR DISTRICT TRAFFIC ENGINEER.

NOT TO SCALE

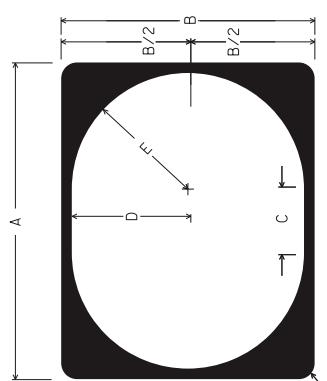
SHEETING SIGN DETAIL
SHEET 2 OF 2

COUNTY OF	ITEM NO.	SHEET NO.



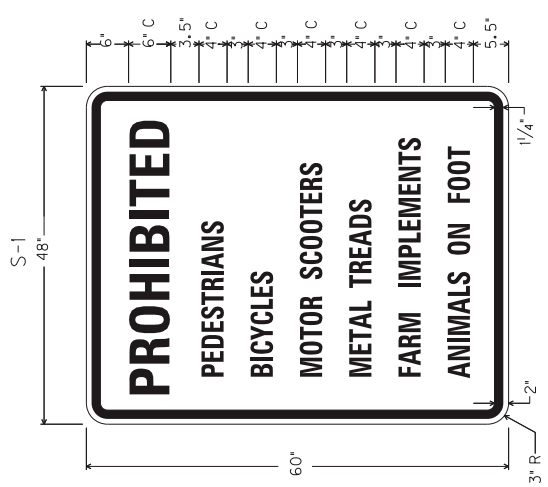
MI-5 (1 OR 2 DIGIT)

	A	B	C	FONT
CONVENTIONAL	24"	24"	11"	12D
EXPRESSWAY/ FREEWAY	36"	36"	17"	18D



MI-5 (3 OR 4 DIGIT)

	A	B	C	D	E	FONT
CONVENTIONAL	30"	24"	6"	11"	11"	12D
EXPRESSWAY/ FREEWAY	45"	36"	9"	16.5"	16.5"	18D

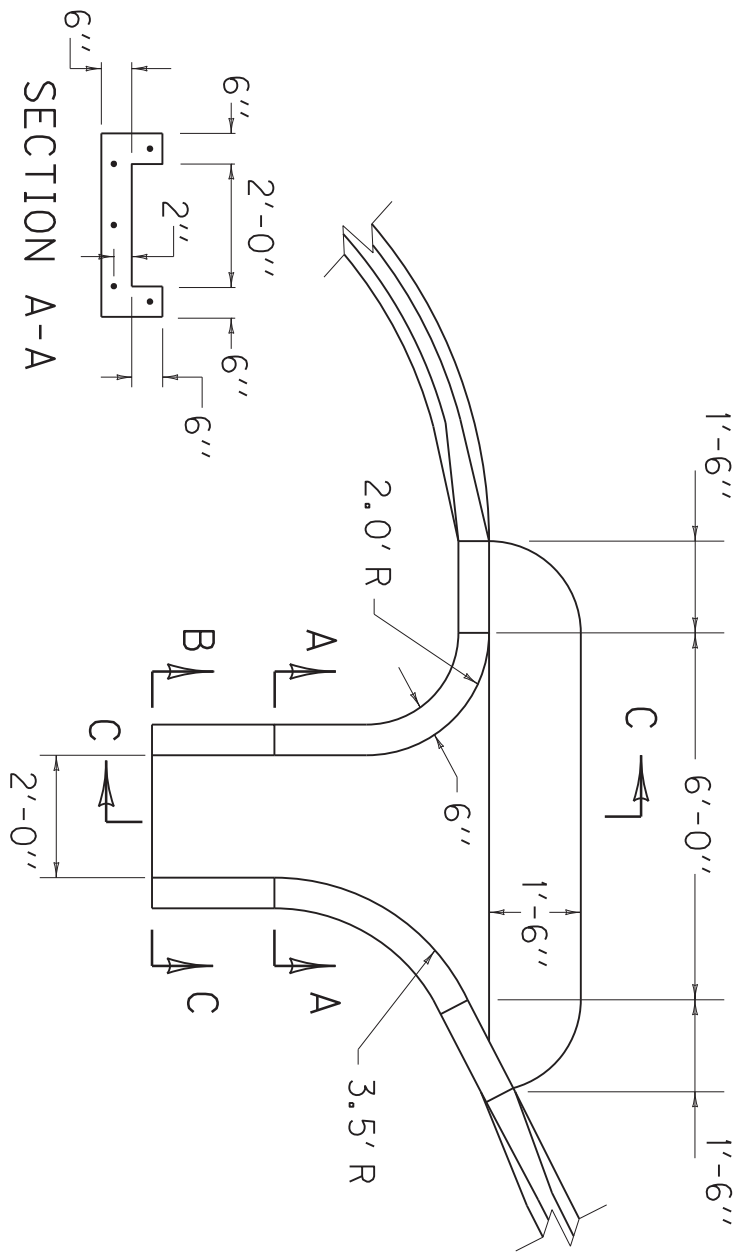


NOTE: FOR ROUTE MARKERS, IF NECESSARY, ADJUSTMENTS TO THE DIGIT LAYOUT AND/OR FONT TYPE MAY BE MADE TO ENSURE VISUAL ACUITY

NOTE: EXPRESSWAY/FREEWAY DEFINED AS A DIVIDED HIGHWAY WITH PARTIAL OR FULL CONTROL OF ACCESS

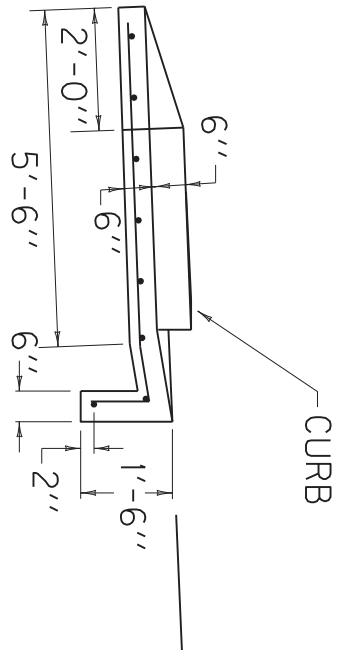
NOT TO SCALE

TYPICAL SIGNS



~ NOTES ~

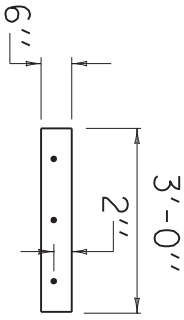
1. REINFORCING STEEL SHALL MEET THE REQUIREMENTS OF THE CUR. EDITION OF THE DEPARTMENT'S STD. SPECIFICATIONS FOR ROAD & BRIDGE CONST. THE MIN. REQUIREMENT FOR REINFORCING BARS SHALL BE GRADE 40. ALL REINFORCEMENT SHALL BE NO. 4 BARS SPACED 12" O.C.
2. FINISHING AND CURING SHALL MEET THE REQUIREMENTS OF THE CUR. EDITION OF THE DEPARTMENT'S STD. SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION.
3. CONCRETE, REINFORCEMENT, EXCAVATION AND EXTRA GUARDRAIL (NESTED RAIL) SHALL BE INCIDENTAL TO UNIT BID PRICE.



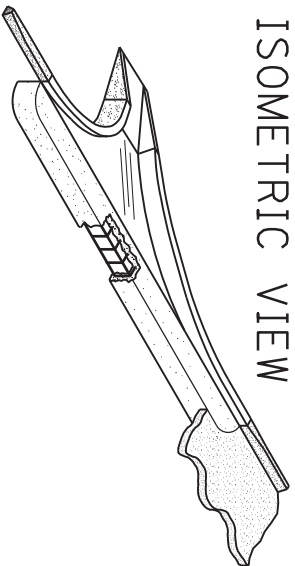
SECTION C-C

PLAN VIEW

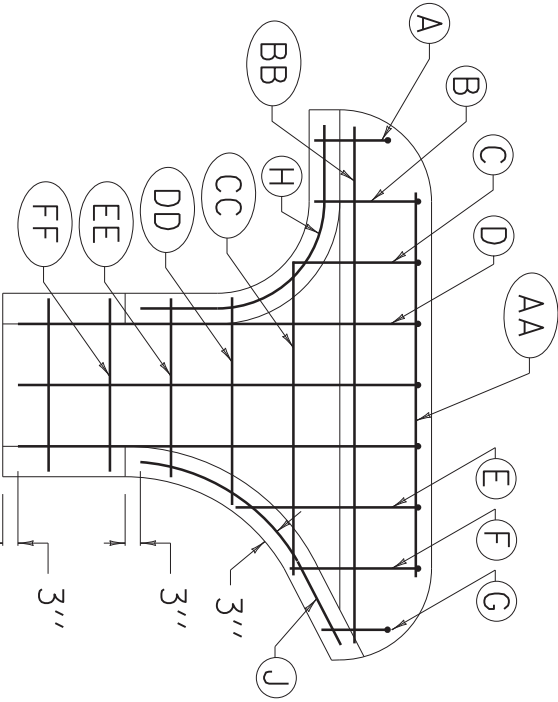
SECTION B-B



ISOMETRIC VIEW



STEEL DIAGRAM



BILL OF REINFORCEMENT

MARK	QTY.	LENGTH FEET INCHES
A	1	2 9
B	1	3 1
C	1	5 7
D	3	4 0
E	1	3 1
F	1	2 7
G	1	5 3
H	1	4 9
J	1	8 6
AA	1	8 6
BB	1	8 6
CC	1	8 6
DD	1	8 6
EE	1	5 2
FF	1	3 5
	2	3 0

APPROX. QUANTITIES

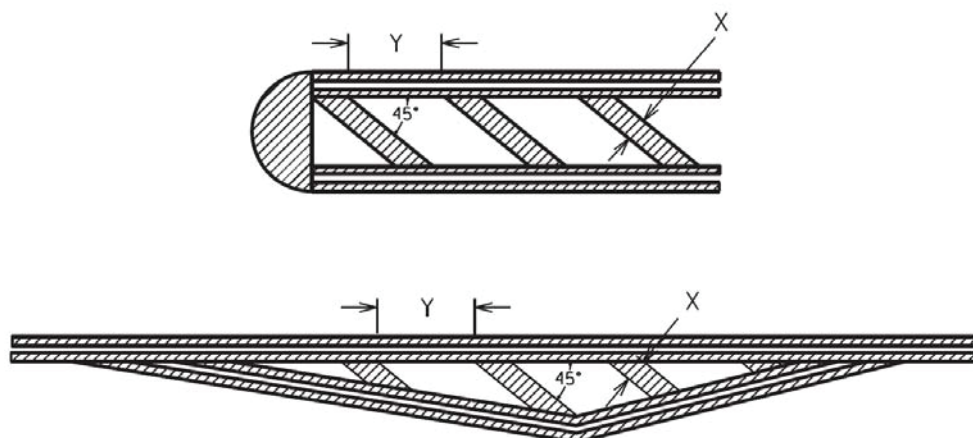
CLASS "A" CONC.	1.0 CU. YDS.
STEEL REINF.	55 LBS.

KENTUCKY
DEPARTMENT OF HIGHWAYS

FLUME INLET TYPE 1
(MODIFIED)

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.

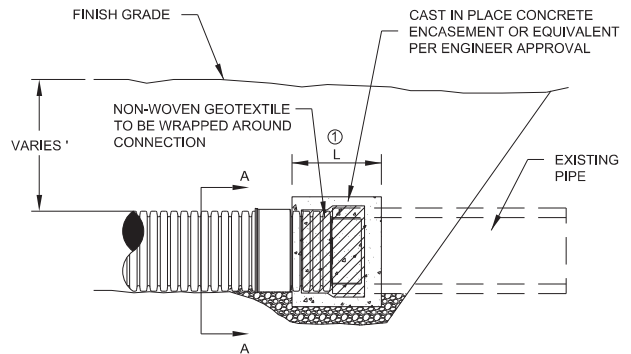
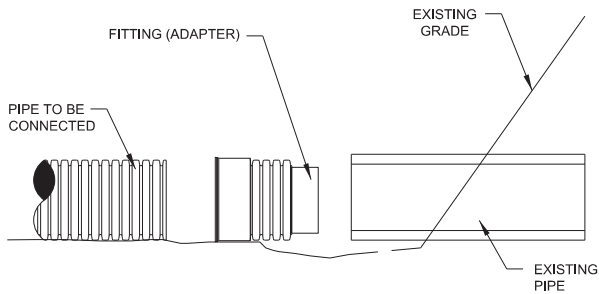
Refer to Section 717 of the Standard Specifications for Road and Bridge Construction, current edition, for more information concerning Material and Construction specifications.

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:

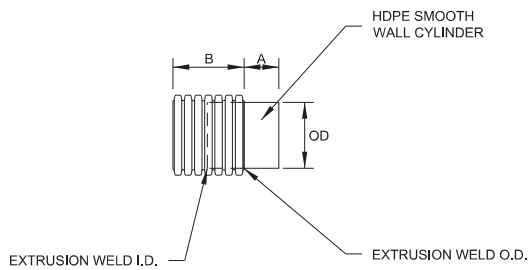
<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
06569	Pave Marking-Thermo Cross-Hatch	Square Foot
23253ES717	Pave Mark TY 1 Tape Cross Hatch	Square Foot

PIPE EXTENSION DUAL WALL ADAPTER FITTING DETAILS ADAPTER TO DISSIMILAR MATERIAL



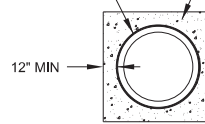
PIPE	L
15"	24"
18"	24.8"
24"	29.6"
36"	49.4"

DUAL WALL ADAPTER FITTING



PIPE	A	B	OD
15"	6"	13"	15"
18"	6"	13.4"	18"
24"	8"	15.8"	24"
36"	10"	25.7"	36"

NON-WOVEN GEOTEXTILE TO BE WRAPPED AROUND CONNECTION



SECTION "A-A"

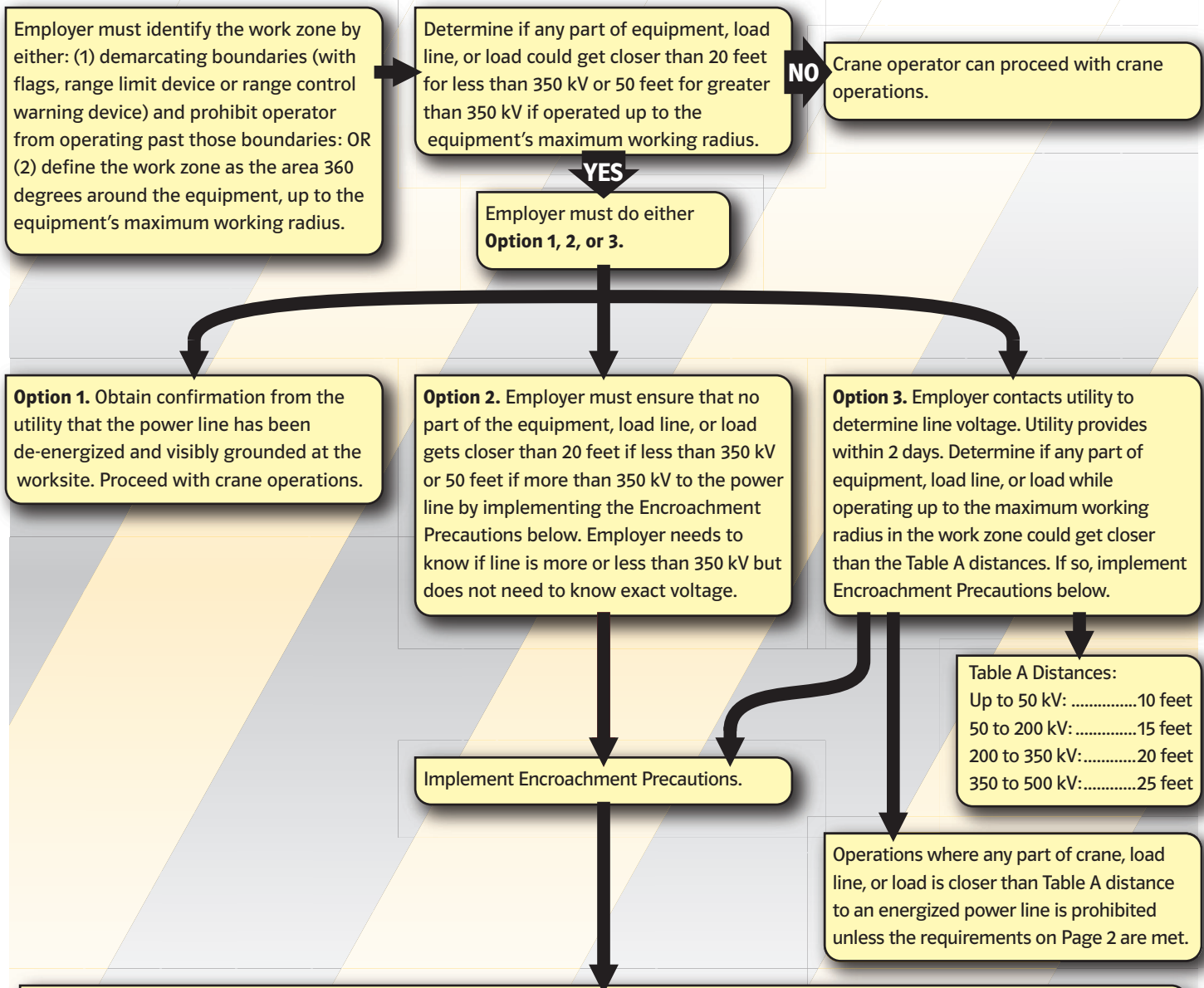
*CONCRETE ENCASEMENT OR EQUIVALENT IS INCIDENTAL TO BID ITEM FITTINGS (21819NN)

CAST IN PLACE CONCRETE ENCASEMENT APPROXIMATE QUANTITIES	
PIPE	CLASS "A" CONC. (CUYD)
15"	0.82
18"	0.95
24"	1.40
36"	3.29

Power Line Safety



OSHA Cranes in Construction Standard Power Line Safety, Section 1926.1408 and 1926.1409
This is a high-level summary only. Refer to www.osha.gov for details.



Encroachment Prevention Precautions required for Options 2 or 3 (all three precautions are required):

1. Conduct a planning meeting with operator and other workers.
2. Tag lines, if used, must be non-conductive.
3. Erect and maintain elevated warning line, barricade, or line of signs, in view of the operator, equipped with flags at 20 feet from the power line if less than 350 kV or 50 feet if more than 350 kV (if using Option 2) or the distance shown in Table A if using Option 3. If operator is unable to see the elevated warning line, a dedicated spotter (B) must be used in addition to implementing one of A, C, D, or E below.

In addition to the three precautions above, implement at least one of these:

- A. Use a proximity alarm set to give operator sufficient warning to prevent encroachment.
- B. Use a dedicated spotter who is in continuous contact with the operator.
- C. Use a device that automatically warns the operator to stop (range control warning device).
- D. Use a device that limits range of movement, set to prevent encroachment.
- E. Use an insulating link between the end of the load line and the load.

Power Line Safety



Power Line Safety requirements for getting closer than the Table A distances

Table A Distances:

Up to 50 kV:	10 feet
50 to 200 kV:	15 feet
200 to 350 kV:	20 feet
350 to 500 kV:	25 feet

Operations where any part of crane, load line, or load is closer than Table A distance to an energized power line is prohibited unless the requirements on this page are met.

Crane operator employer shall determine that it is infeasible to work without breaching Table A distances.

Employer determines after consulting with utility that it is infeasible to de-energize and ground or relocate the power line.

Utility or registered professional engineer (PE) shall determine minimum clearance distance that shall be maintained to prevent electrical contact.

Planning meeting with employer and utility (or PE) shall be held to determine procedures that shall be followed.

If so equipped, the automatic reclosing features shall be made inoperative by the utility before work begins.

Crane operator is required to have utility install line hose or coverup except where unavailable for the voltage.

Documented procedures must be developed and kept on site. Equipment user, operator and others shall meet with utility to review procedures.

Utility and employers of employees involved in the work shall identify one person to direct implementation of procedures.

If procedures are not effective, crane operator shall stop work OR have utility de-energize lines.

Crane operator is also required to do these items.

- Dedicated spotter shall be used.
- Elevated warning line or barricade in view of operator equipped with flags shall be installed.
- Insulating link shall be installed between end of load line and load.
- Non-conductive rigging shall be used.
- If equipment has device that limits range of movement, it shall be used.
- Tag lines shall be nonconductive.
- Barricades set up 10 feet around crane to prevent personnel from entering the work area.
- Workers, other than operator, shall be prohibited from touching load line.
- Only essential personnel shall be allowed.
- Crane shall be grounded.

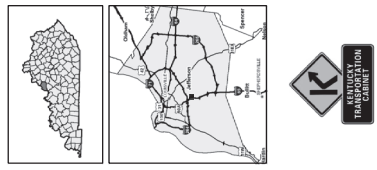
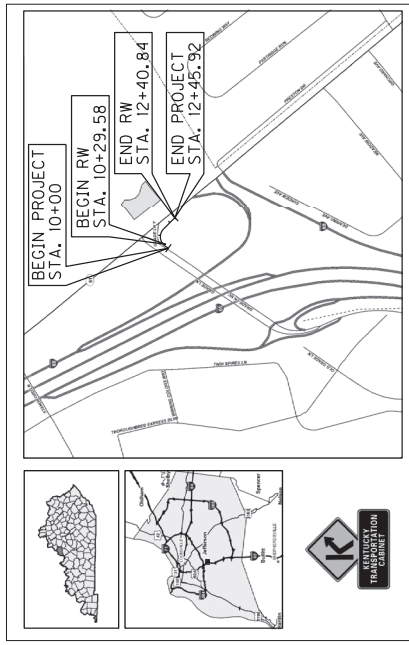
COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-9010.10	RI

Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS

PLANS OF PROPOSED PROJECT

JEFFERSON COUNTY DISTRICT 5 INTERSECTION EMPHASIS HSIP 9010(240)

RIGHT-OF-WAY PLANS



**RIGHT OF WAY
PLANS**

GRADE LANE AND PRESTON HWY

LAYOUT MAP

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF
JEFFERSON

ITEM NO. 5-9010.10
PROJECT NUMBER HSIP 9010(240)
LETTING DATE: _____
RECOMMENDED BY: _____ PROJECT MANAGER: _____ DATE: _____
PLAN APPROVED BY: _____ STATE HIGHWAY ENGINEER: _____ DATE: _____

INDEX OF SHEETS	
SHEET NO.	GRADE LANE AND PRESTON HWY
RI	TYPICAL SECTIONS
RI	PLAN SHEET
RI-XI	CROSS SECTIONS
SHEETS NOT INCLUDED IN TOTAL SHEETS	

STANDARD DRAWINGS	
NUMBER	

DESIGN CRITERIA	
CLASS OF HIGHWAY	
TYPE OF TERRAIN	
DESIGN SPEED	
REQUIRED PSD	
REQUIRED PSD	
LEVEL OF SERVICE	
ADT PRESENT ()	
ADT FUTURE ()	
D %	
T %	
GEOGRAPHIC COORDINATES	
LATITUDE	DEGREES _____ MINUTES _____ SECONDS NORTH
LONGITUDE	DEGREES _____ MINUTES _____ SECONDS WEST
DESIGNED	
% RESTRICTED SD	
LEVEL OF SERVICE	
MAX. DISTANCE W/O PASSING	

LENGTH (SEEDED)	_____	MILES	_____	LENGTH	_____	MILES	_____
FOR EQUALITIES INCLUDED	_____	FOR EQUALITIES INCLUDED	_____	FOR EQUALITIES NOT INCLUDED	_____	FOR EQUALITIES NOT INCLUDED	_____
RAILROAD CROSSINGS NO.	_____	RAILROAD CROSSINGS NO.	_____	RAILROAD CROSSINGS NO.	_____	RAILROAD CROSSINGS NO.	_____
BRIDGES	_____	BRIDGES	_____	BRIDGES	_____	BRIDGES	_____

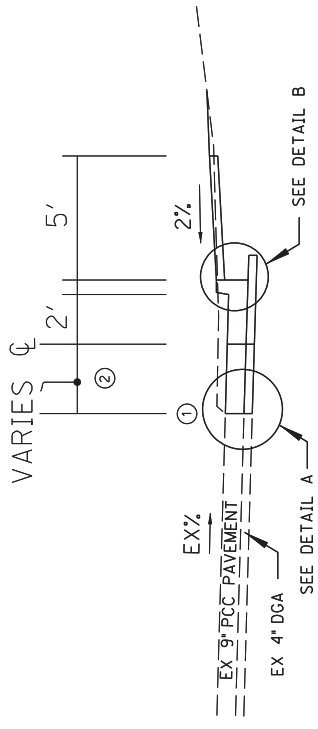
COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-9000.10	R2

TYPICAL SECTIONS

PAVEMENT AND SIDEWALK DESIGN

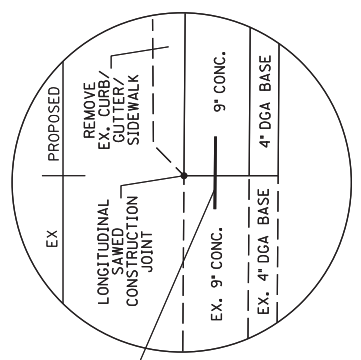
- PAVEMENT [9" JPC PAVEMENT
4" DGA BASE
- SIDEWALK [4" CONCRETE

- ① LONGITUDINAL SAWED CONSTRUCTION JOINT
- ② DISTANCE IS FROM THE EXISTING EDGE OF CONCRETE TO THE CENTERLINE. (THE CENTERLINE IS THE PROPOSED EDGE OF CONCRETE AND WHERE THE CURB AND GUTTER BEGINS.
- ③ NO. 5 DEFORMED TIE BAR 2'-6" LONG PLACED 1'-8" ON CENTER AND PLACED 1'-8" MINIMUM FROM ANY TRANSVERSE JOINT. SEE STANDARD DRAWING RPS-010-11
- ④ THIS AREA IS FOR WB-62 OR LIKE SIZE SEMI-TRUCKS TO BE ABLE TO MAKE THE TURN ONTO PRESTON HWY. THIS AREA IS TO BE CROSS HATCHED. SEE STRIPING PLAN FOR MORE DETAILS.

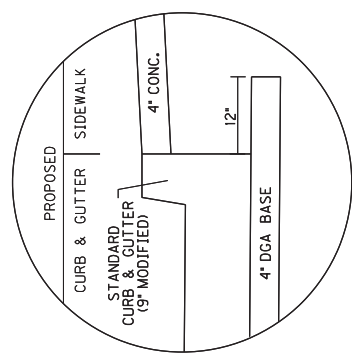


CURB AND GUTTER AND SIDEWALK

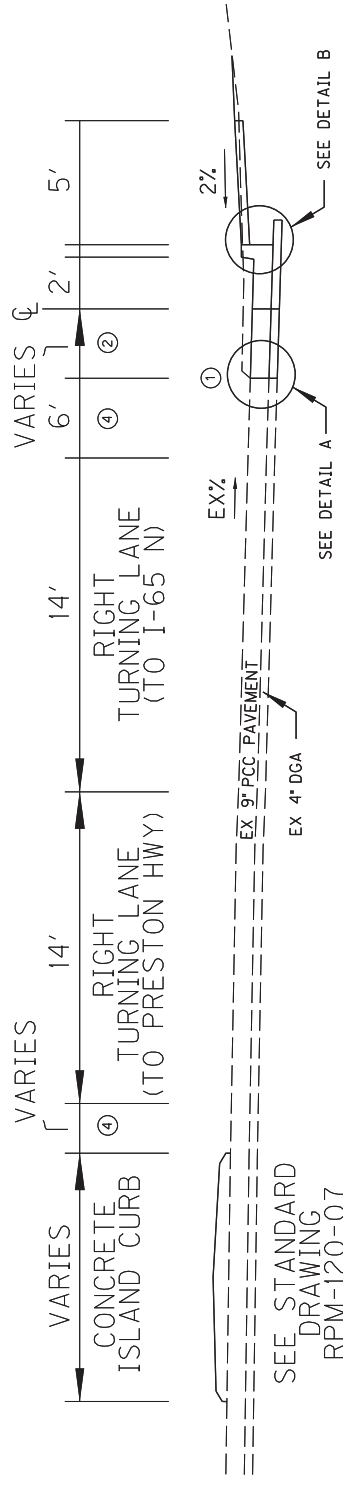
STA. 10+27 TO STA. 10+73
STA. 11+01 TO STA. 12+39



DETAIL A



DETAIL B



CONCRETE ISLAND CURB SECTION

(WITH CURB AND GUTTER AND SIDEWALK)

STA. 10+73 TO STA. 11+01

SEE STANDARD DRAWING RPM-120-07

(ISLAND TO HAVE SIDEWALK RAMPS AND LANDINGS AS SHOWN ON THE PLANS)

RIGHT OF WAY PLANS

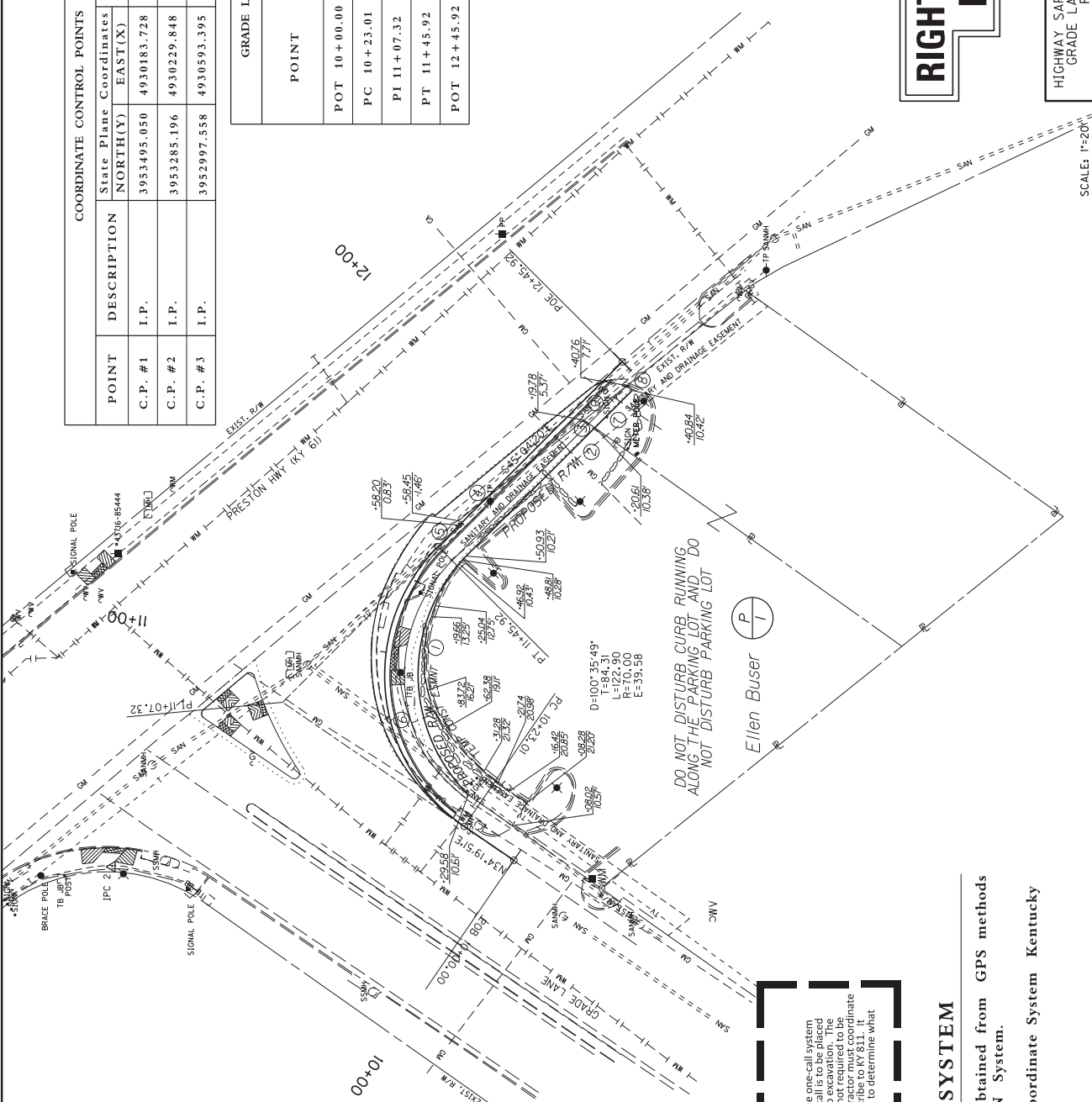
NOT TO SCALE

HIGHWAY SAFETY IMPROVEMENT PROJECT
GRADE LANE - TURN LANE OFFSET
TYPICAL SECTION

COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-3000.10	R3

COORDINATE CONTROL POINTS			
POINT	State Plane Coordinates		STATION AND OFFSET
	NORTH(Y)	EAST(X)	
C.P.#1	3953495.050	4930183.728	
C.P.#2	3953285.196	4930229.848	10+63.19, 119.03 Left
C.P.#3	3952997.558	4930593.395	

GRADE LANE COORDINATES		
POINT	State Plane Coordinates	
	NORTH(Y)	EAST(X)
POT 10+00.00	3953131.385	4930232.268
PC 10+23.01	3953150.389	4930245.246
PI 11+07.32	3953220.013	4930292.795
PT 11+45.92	3953160.471	4930352.487
POT 12+45.92	3953089.844	4930423.293



- ① N 89°28'06" E
CH = 91.47'
R = 65.00'
ARC = 101°46'
- ② S 44°56'2" E
69.68'
- ③ N 35°27'05" E
5.01'
- ④ N 38°43'05" W
61.11'
- ⑤ S 51°16'55" W
2.50'
- ⑥ S 88°41'25" W
CH = 103.26'
R = 65.26'
ARC = 119.33'
- ⑦ S 44°56'2" E
20.22'
- ⑧ N 43°09'4" E
2.71'
- ⑨ N 38°43'05" W
21.10'

BEFORE YOU DIG

The contractor is instructed to call 1-800-752-6007 to reach KY 811, the one-call system for locating underground utilities. The contractor shall be responsible for obtaining a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call Before-You-Dig (BYD) service. The contractor must coordinate excavation with the utility owners, including those whom do not check into KY 811, just as they would with any other utility owners. The contractor shall be responsible for determining what utility companies have facilities in the area.

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.

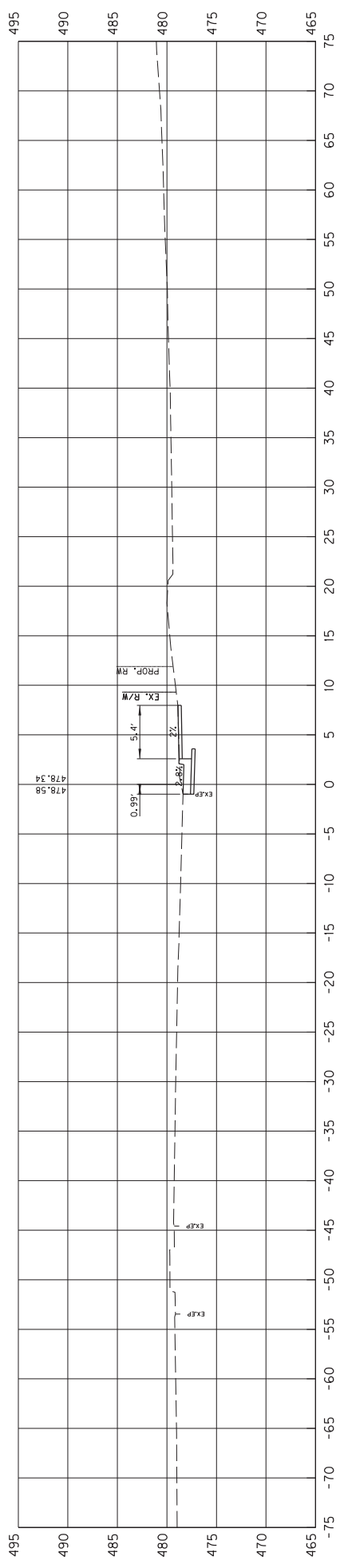
RIGHT OF WAY PLANS

HIGHWAY SAFETY IMPROVEMENT PROJECT
GRADE LANE - TURN LANE OFFSET
ROW PLAN SHEET

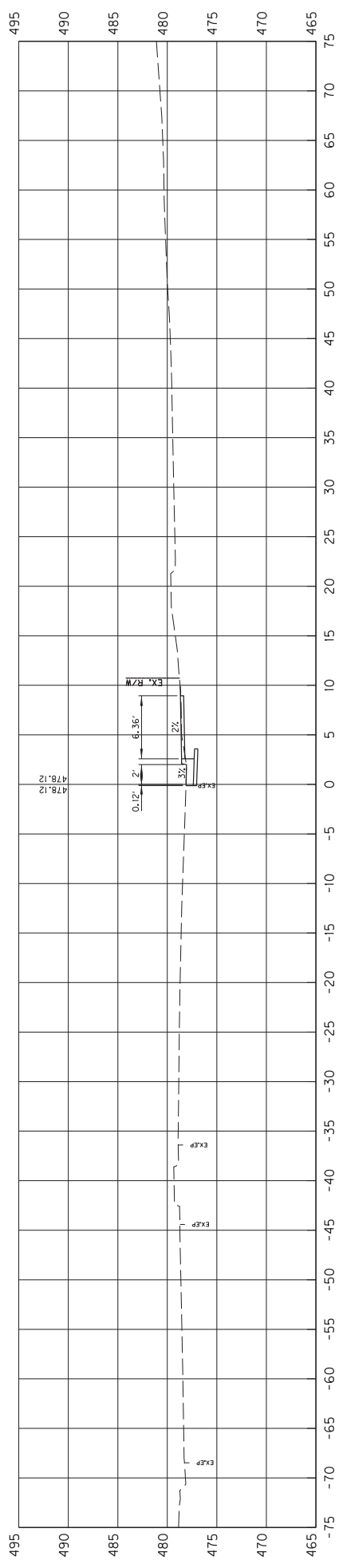
SCALE: 1"=20'

COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-9000.10	XI

RIGHT OF WAY PLANS



10+50



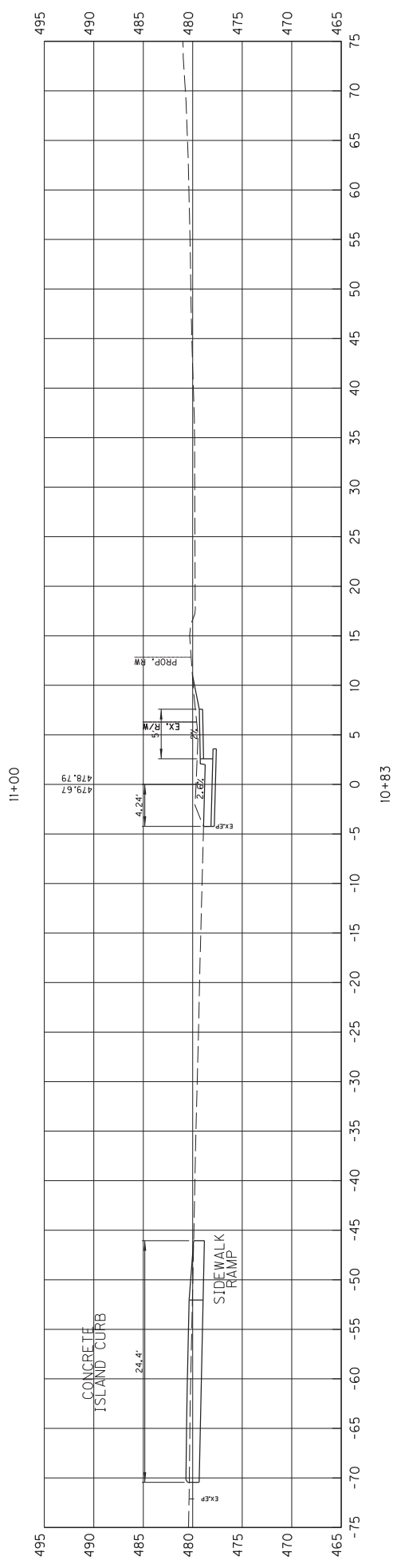
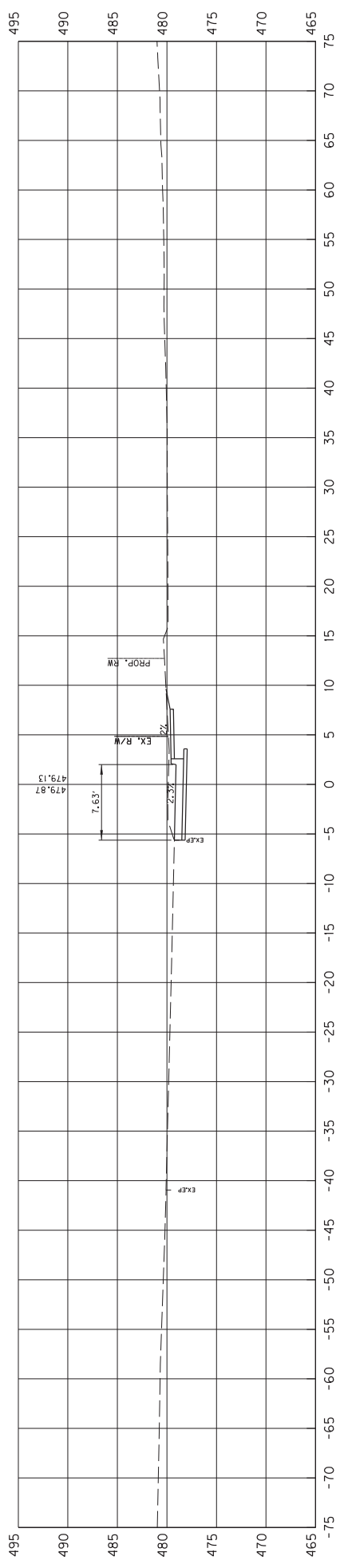
10+27

SCALE: HORIZONTAL
1" = 5'

HIGHWAY SAFETY IMPROVEMENT PROJECT
STA. 10+27 TO STA. 10+50
GRADE LANE TURN LANE WIDENING

COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-9000.10	X2

RIGHT OF WAY PLANS



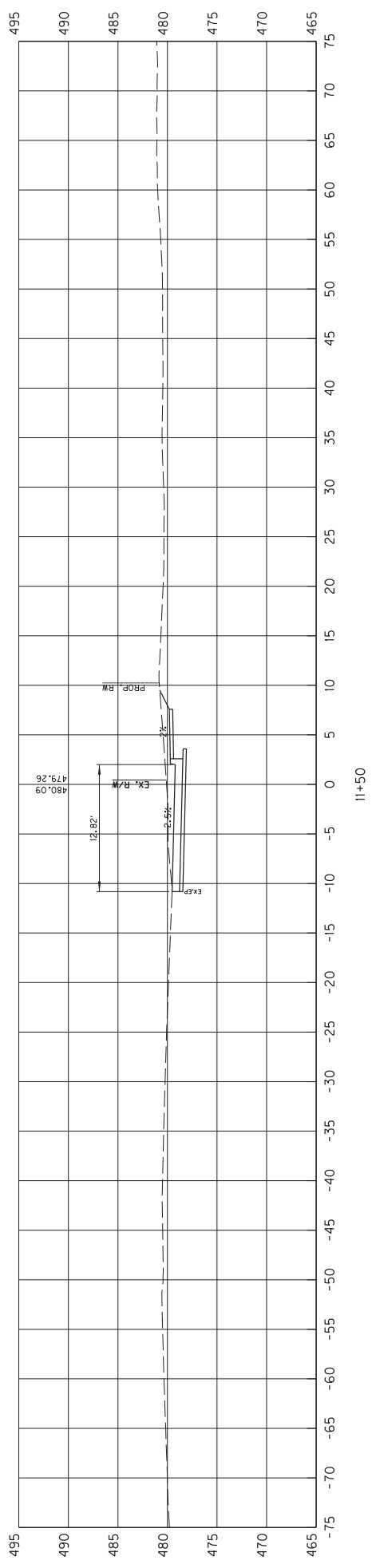
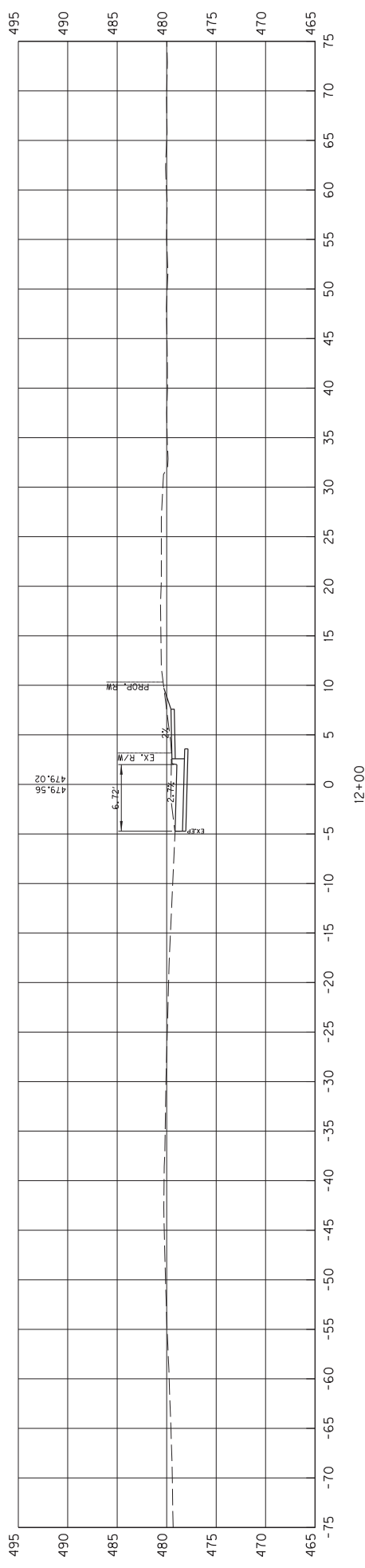
SCALE: HORIZONTAL
1" = 5'

SCALE: VERTICAL
1" = 5'

HIGHWAY SAFETY IMPROVEMENT PROJECT
STA. 10+85 TO STA. 11+00
GRADE LANE TURN LANE WIDENING

COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-9000.10	X3

RIGHT OF WAY PLANS

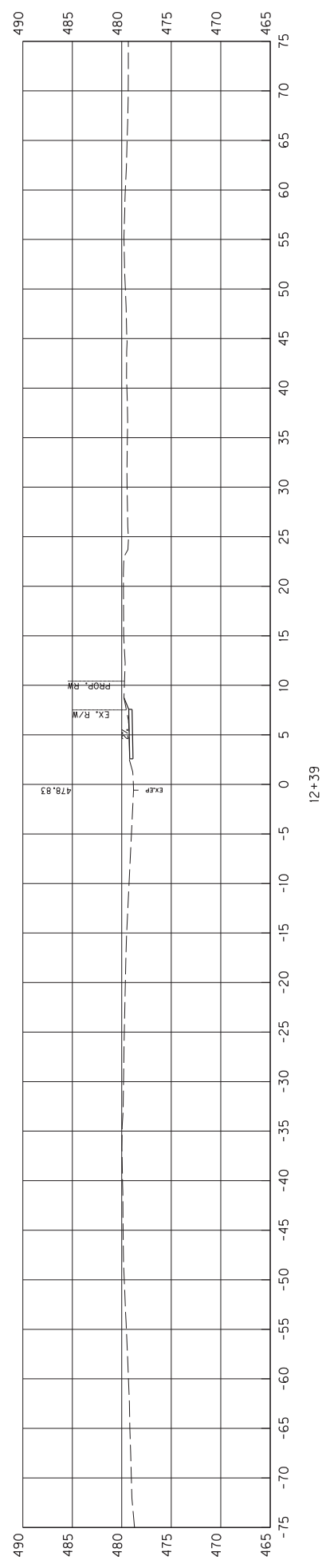


SCALE: HORIZONTAL
1" = 5'

VERTICAL
1" = 5'

COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-9000.10	X4

RIGHT OF WAY PLANS



SCALE: HORIZONTAL
1" = 5'

VERTICAL
1" = 5'

HIGHWAY SAFETY IMPROVEMENT PROJECT
STA. 12+39
GRADE LANE TURN LANE WIDENING

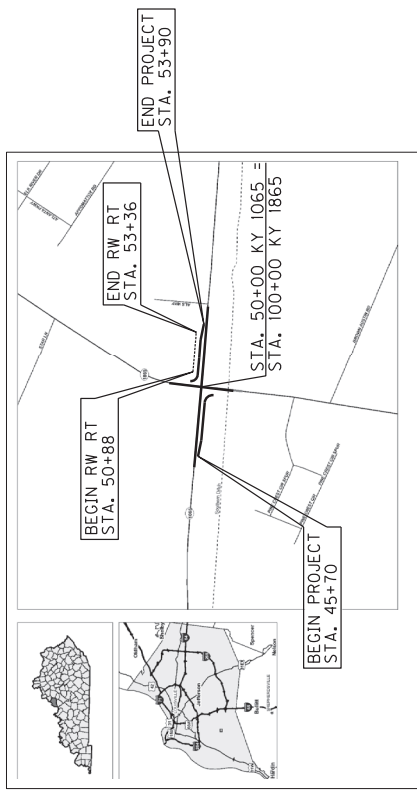
COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-9010.30	RI

Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS

PLANS OF PROPOSED PROJECT

JEFFERSON COUNTY DISTRICT 5 INTERSECTION EMPHASIS HSIP 9010(240)

RIGHT-OF-WAY PLANS



**RIGHT OF WAY
PLANS**

OUTER LOOP AND NEW CUT ROAD

LAYOUT MAP

INDEX OF SHEETS

SHEET NO.	OUTER LOOP AND NEW CUT ROAD
RI	LAYOUT SHEETS
R2	PLAN SHEET
R3	PROFILE SHEET
R4	CROSS SECTIONS
XI-28	

SHEETS NOT INCLUDED IN TOTAL SHEETS

STANDARD DRAWINGS

NUMBER	
--------	--

DESIGN CRITERIA

CLASS OF HIGHWAY _____

TYPE OF TERRAIN _____

DESIGN SPEED _____

REQUIRED PSD _____

REQUIRED PSD _____

LEVEL OF SERVICE () _____

ADT PRESENT () _____

ADT FUTURE () _____

D % _____

T % _____

GEOGRAPHIC COORDINATES

LATITUDE _____ DEGREES _____ MINUTES _____ SECONDS NORTH

LONGITUDE _____ DEGREES _____ MINUTES _____ SECONDS WEST

DESIGNED

% RESTRICTED SD _____

LEVEL OF SERVICE _____

MAX. DISTANCE W/O PASSING _____

LENGTH (SEEDED)	_____	LENGTH (SEEDED)	_____	LENGTH (SEEDED)	_____	LENGTH (SEEDED)	_____
FOR EQUALITIES INCLUDED	_____	FOR EQUALITIES INCLUDED	_____	FOR EQUALITIES INCLUDED	_____	FOR EQUALITIES INCLUDED	_____
RAILROAD CROSSINGS NO.	_____	RAILROAD CROSSINGS NO.	_____	RAILROAD CROSSINGS NO.	_____	RAILROAD CROSSINGS NO.	_____
BRIDGES	_____	BRIDGES	_____	BRIDGES	_____	BRIDGES	_____

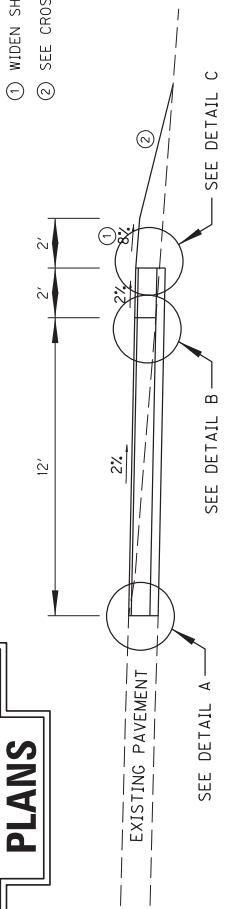
Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF
JEFFERSON

ITEM NO. 5-9010.30
PROJECT NUMBER HSIP 9010(240)
LETTING DATE: _____
RECOMMENDED BY: _____ PROJECT MANAGER _____ DATE: _____
PLAN APPROVED BY: _____ STATE HIGHWAY ENGINEER _____ DATE: _____

COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-900.30	R2

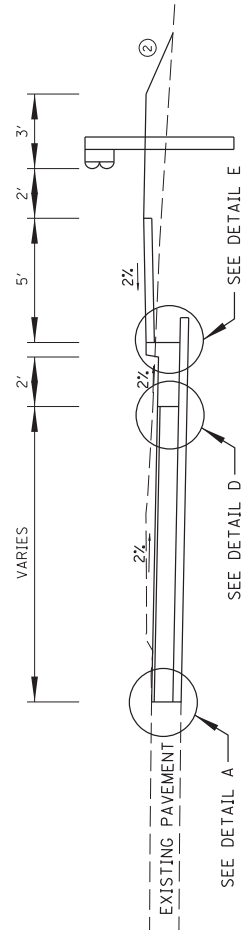
RIGHT OF WAY PLANS

EASTBOUND TURN LANE



NORMAL SECTION

P.O.B. TO STA. 49+03



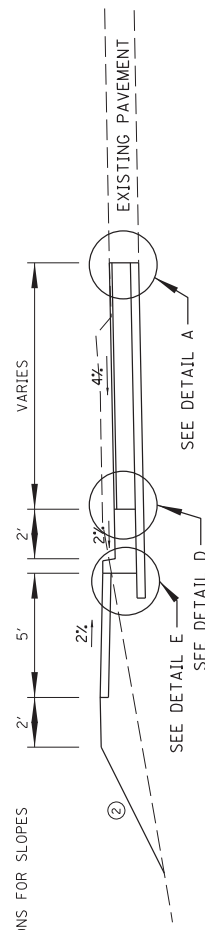
CURB AND GUTTER WITH SIDEWALK SECTION

STA. 49+03 TO EB P.O.E.

TYPICAL SECTIONS

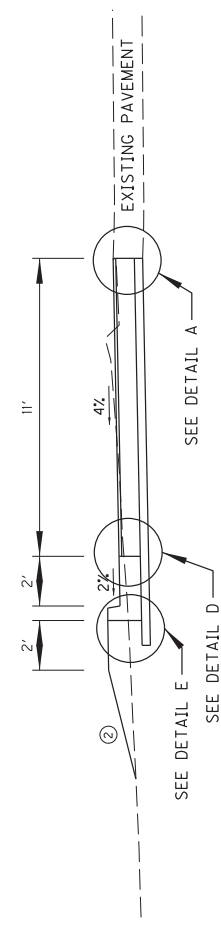
- ① WIDEN SHOULDER 1' FOR GUARDRAIL
- ② SEE CROSS SECTIONS FOR SLOPES

WESTBOUND TURN LANE



CURB AND GUTTER WITH SIDEWALK SECTION

P.O.B. TO STA. 50+80

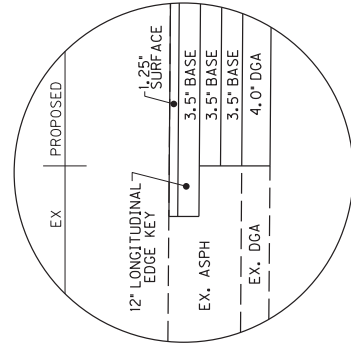


CURB AND GUTTER WITHOUT SIDEWALK SECTION

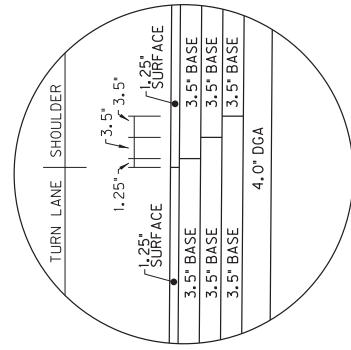
STA. 50+80 TO P.O.E.

EB TURN LANE SHOULDER DESIGN

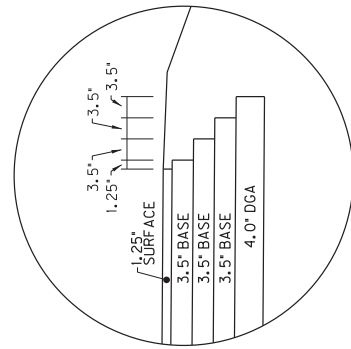
- 1.25" SURFACE— 1.25" DEPTH CLASS 2 ASPHALT SURFACE 0.38A PG64-22
- 3.5" DEPTH CLASS 2 ASPHALT BASE 1.00D PG64-22
- 14.50" BASE [11" DGA BASE



DETAIL A



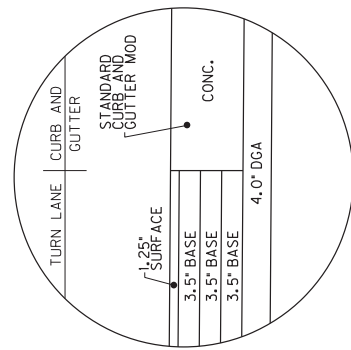
DETAIL B



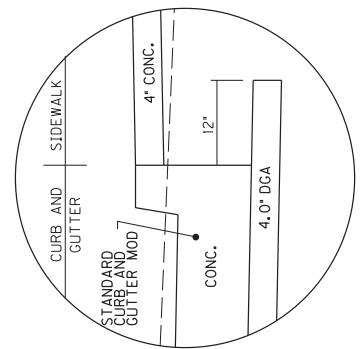
DETAIL C

EB /WB TURN LANE PAVEMENT DESIGN

- 1.25" SURFACE— 1.25" DEPTH CLASS 2 ASPHALT SURFACE 0.38A PG64-22
- 10.5" DEPTH CLASS 2 ASPHALT BASE 1.00D PG64-22 (3.5"+3.5"+3.5")
- 14.50" BASE [4" DGA BASE



DETAIL D



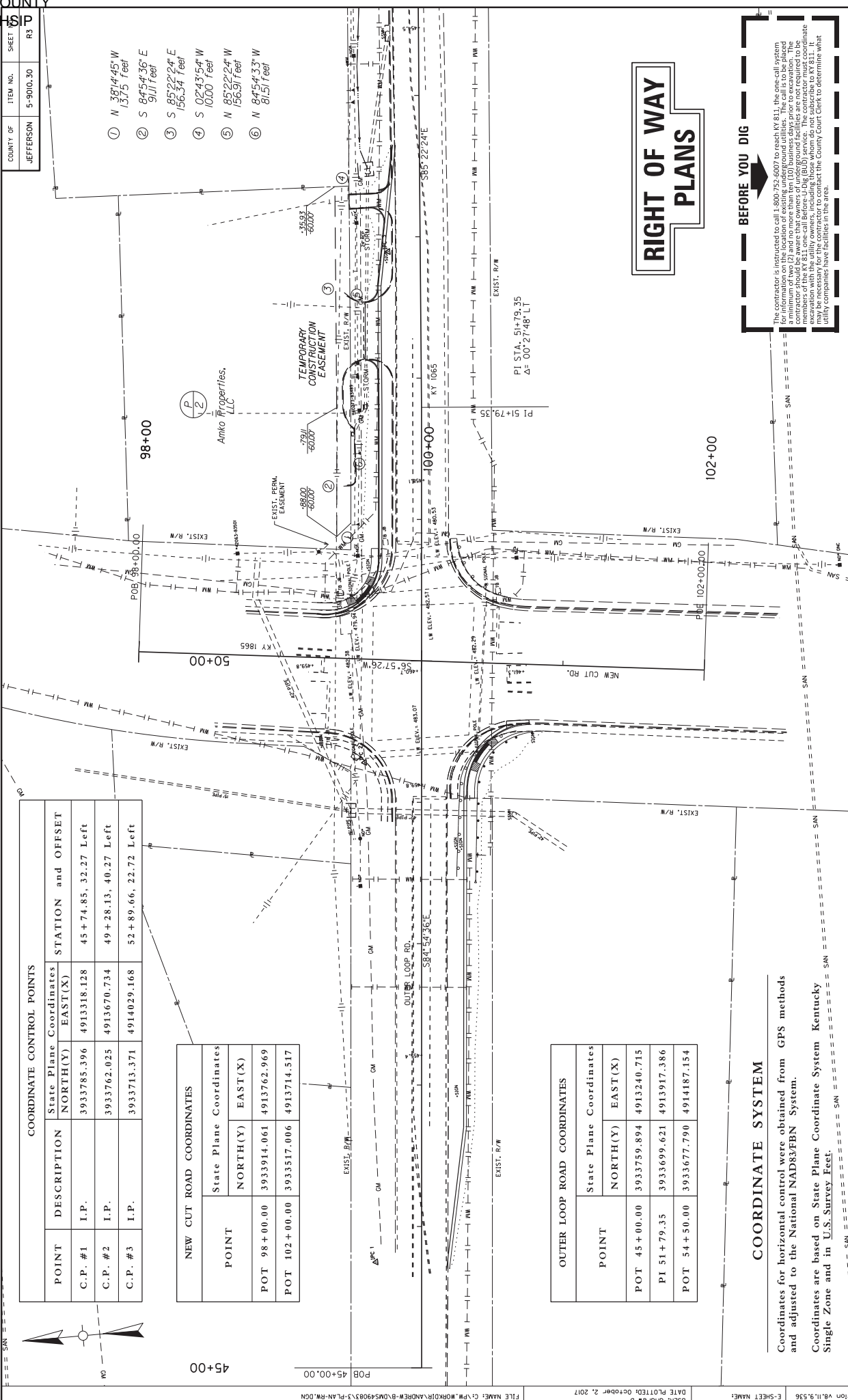
DETAIL E

NOT TO SCALE

HIGHWAY SAFETY IMPROVEMENT PROJECT
RIGHT TURN LANES
TYPICAL SECTION

COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-900.30	R3

- ① N 38°14'45" W 13.75 Feet
- ② S 84°54'36" E 91.11 Feet
- ③ S 85°22'24" E 156.34 Feet
- ④ S 02°43'54" W 10.00 Feet
- ⑤ N 85°22'24" W 156.97 Feet
- ⑥ N 84°54'33" W 81.51 Feet



RIGHT OF WAY PLANS

BEFORE YOU DIG

The contractor is instructed to call 1-800-735-8897 to reach 811, the one-call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor must contact the KY 811 one-call service. The contractor must coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It is the contractor's responsibility to contact the County Court Clerk to determine what utility companies have facilities in the area.

HIGHWAY SAFETY IMPROVEMENT PROJECT
OUTER LOOP AND NEW CUT
ROW PLAN SHEET



COORDINATE CONTROL POINTS

POINT	DESCRIPTION	State Plane Coordinates		STATION and OFFSET
		NORTH(Y)	EAST(X)	
C.P.#1	I.P.	3933785.396	4913318.128	45+74.85, 32.27 Left
C.P.#2	I.P.	3933762.025	4913670.734	49+28.13, 40.27 Left
C.P.#3	I.P.	3933713.371	4914029.168	52+89.66, 22.72 Left

NEW CUT ROAD COORDINATES

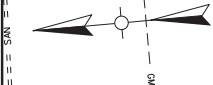
POINT	State Plane Coordinates	
	NORTH(Y)	EAST(X)
POT 98+00.00	3933914.061	4913762.969
POT 102+00.00	3933517.006	4913714.517

OUTER LOOP ROAD COORDINATES

POINT	State Plane Coordinates	
	NORTH(Y)	EAST(X)
POT 45+00.00	3933759.894	4913240.715
PI 51+79.35	3933699.621	4913917.386
POT 54+50.00	3933677.790	4914187.154

COORDINATE SYSTEM

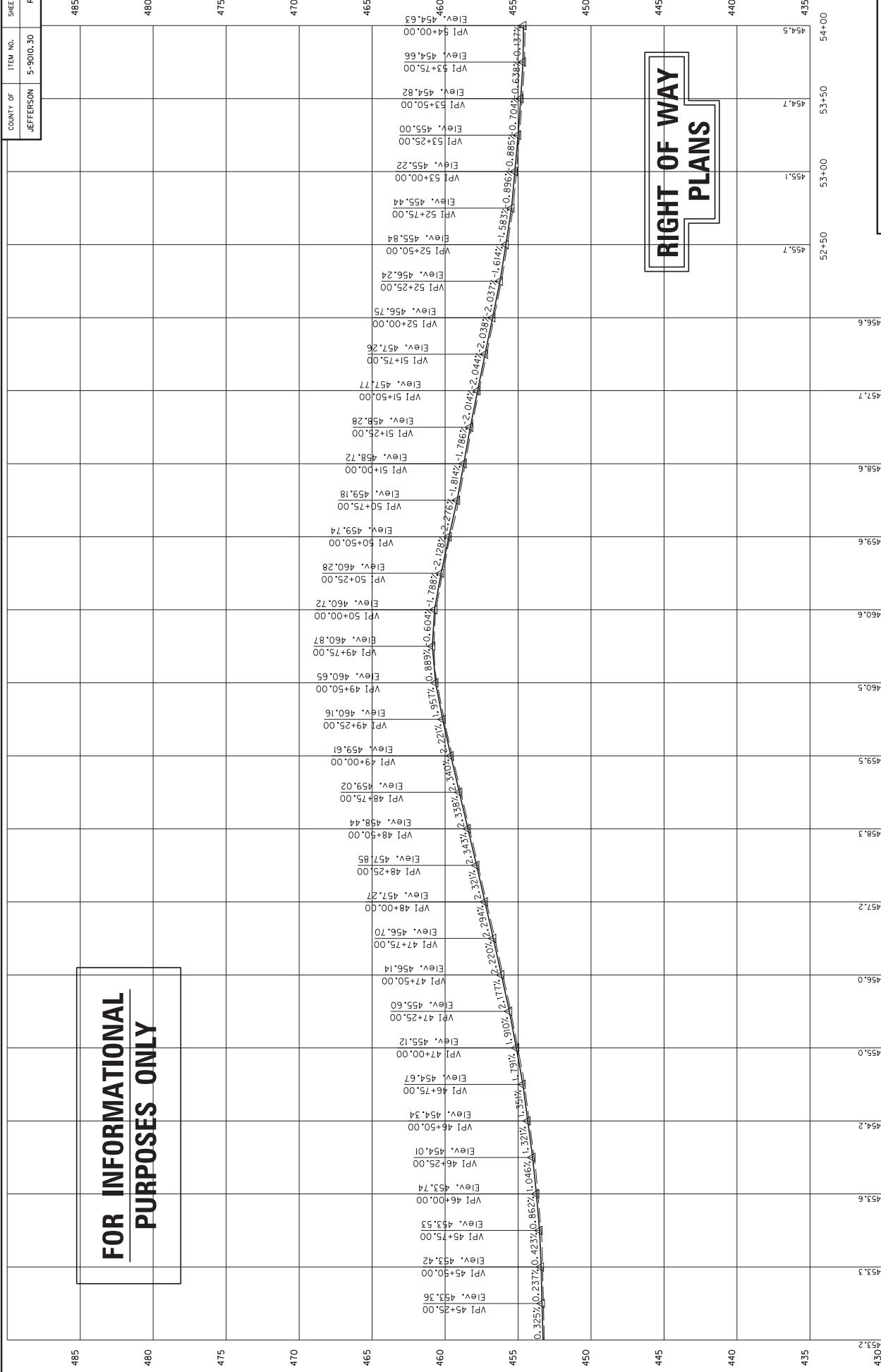
Coordinates for horizontal control were obtained from GPS methods and adjusted to the National NAD83/FBN System. Coordinates are based on State Plane Coordinate System Kentucky Single Zone and in U.S. Survey Feet.



DATE PLOTTED: January 1, 2001	USERS: ryan	FILE NAME: C:\PW\WORKDIR\ANR\B-DMS49834-PROFILE-RW.DGN
E-SHEET NAME: 8-11-9-56	ITEM NO.: 5-900.30	COUNTY OF: JEFFERSON
SHEET: R4	SHEET: R4	

**FOR INFORMATIONAL
PURPOSES ONLY**

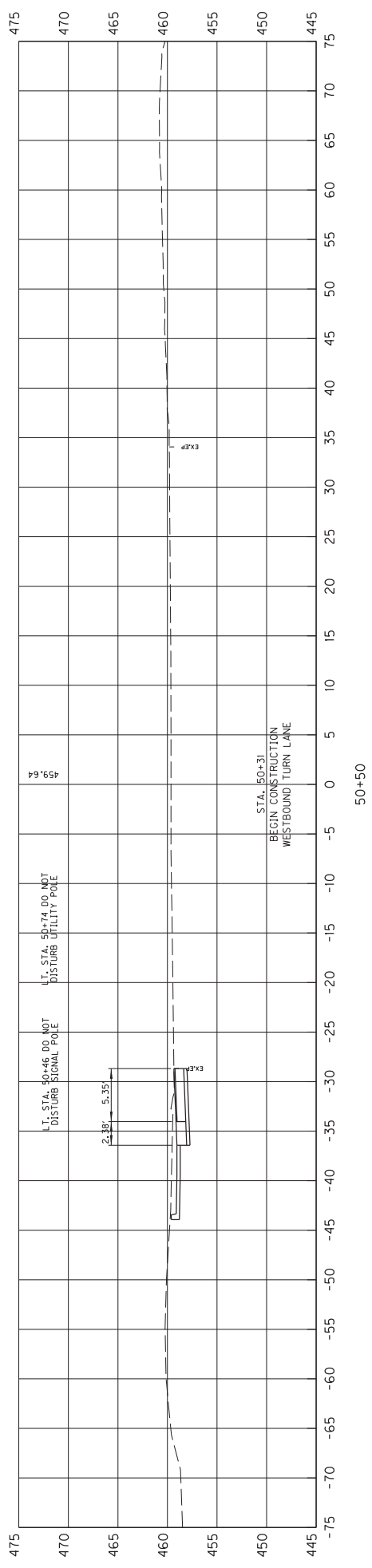
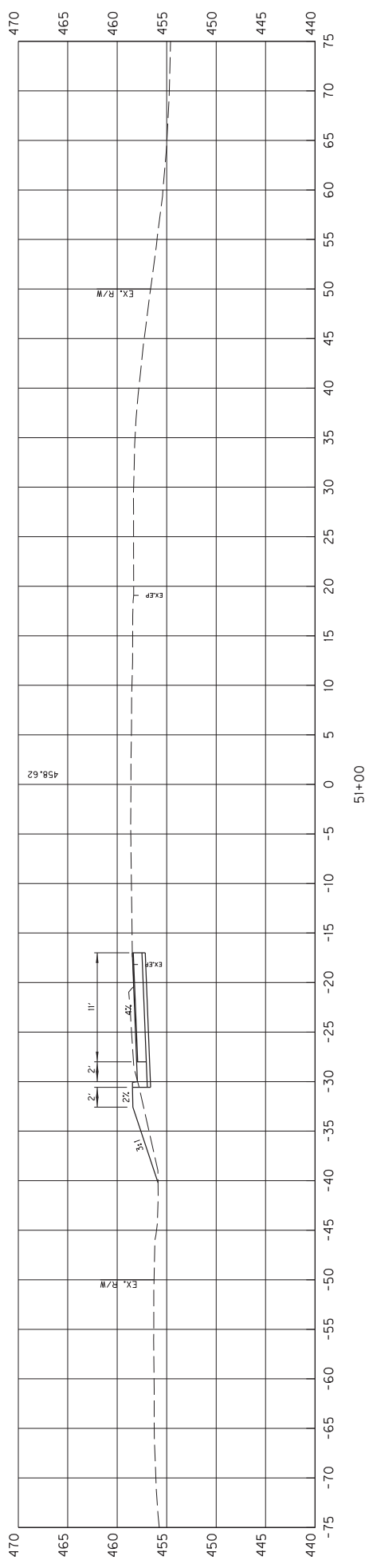
**RIGHT OF WAY
PLANS**



HIGHWAY SAFETY IMPROVEMENT PROJECT
OUTER LOOP RIGHT TURN LANES
STA. 45+00 TO STA. 54+00

COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-900.30	XI

RIGHT OF WAY PLANS



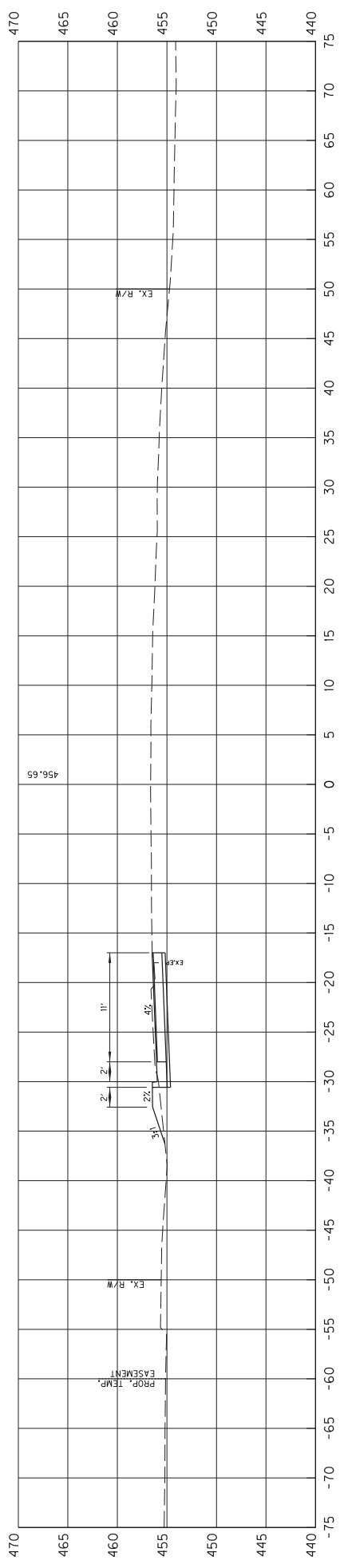
SCALE: HORIZONTAL
1" = 5'

SCALE: VERTICAL
1" = 5'

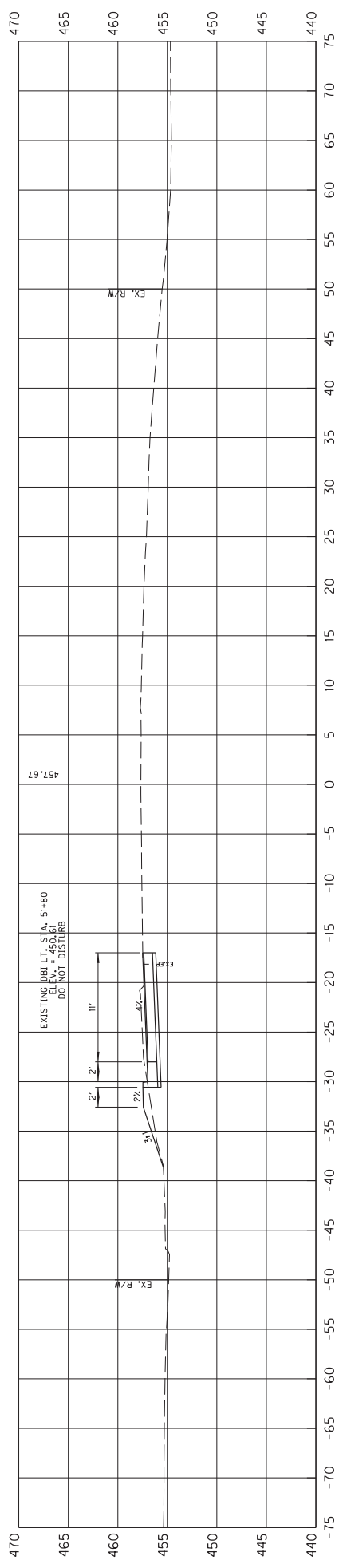
HIGHWAY SAFETY IMPROVEMENT PROJECT
WESTBOUND RIGHT TURN LANE
STA. 50+50 TO STA. 51+00

COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-900.30	X2

RIGHT OF WAY PLANS



52+00



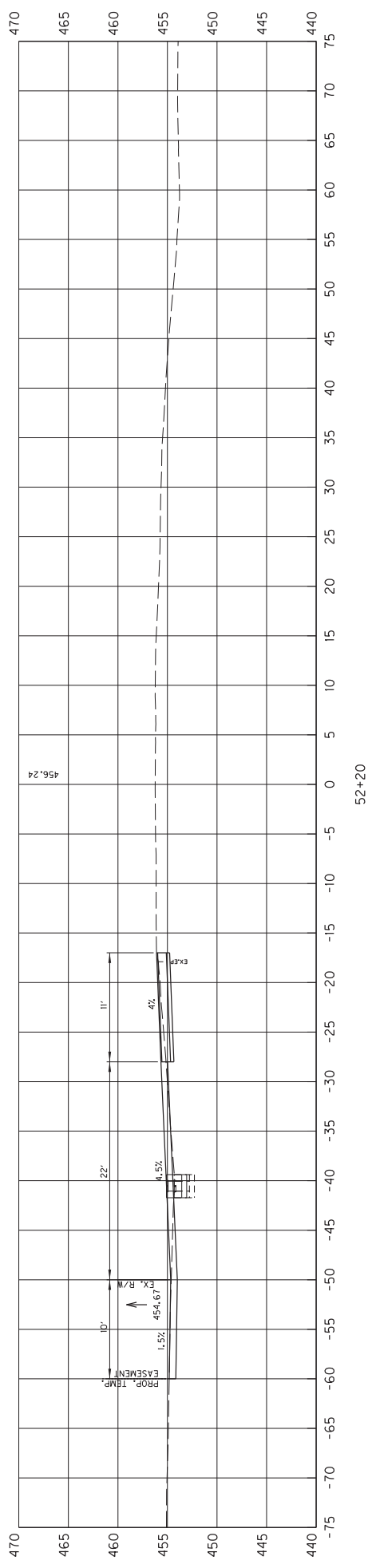
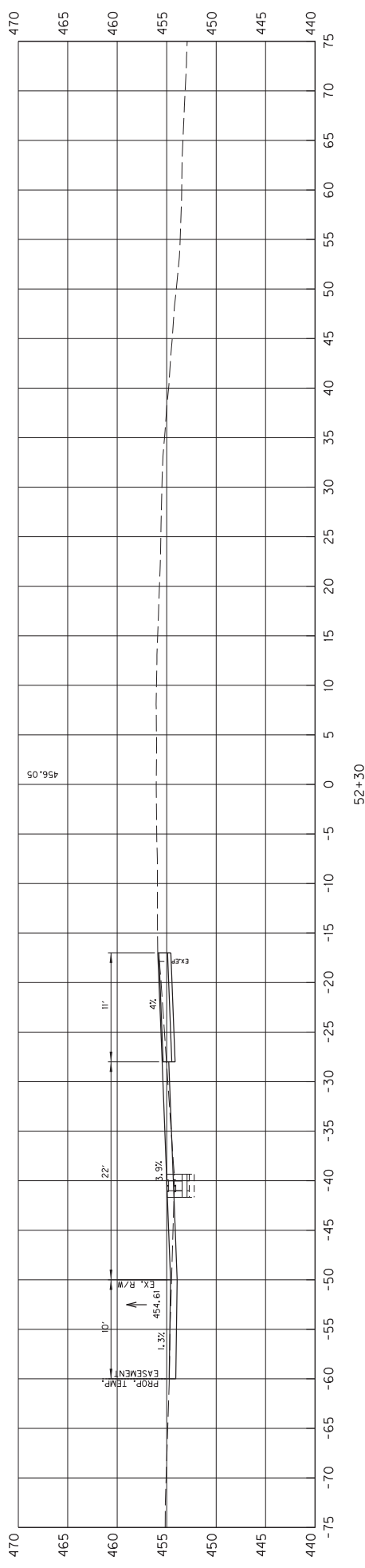
51+50

SCALE: HORIZONTAL
1" = 5'
VERTICAL
1" = 5'

HIGHWAY SAFETY IMPROVEMENT PROJECT
WESTBOUND RIGHT TURN LANE
STA. 51+50 TO STA. 52+00

COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-900.30	X3

RIGHT OF WAY PLANS

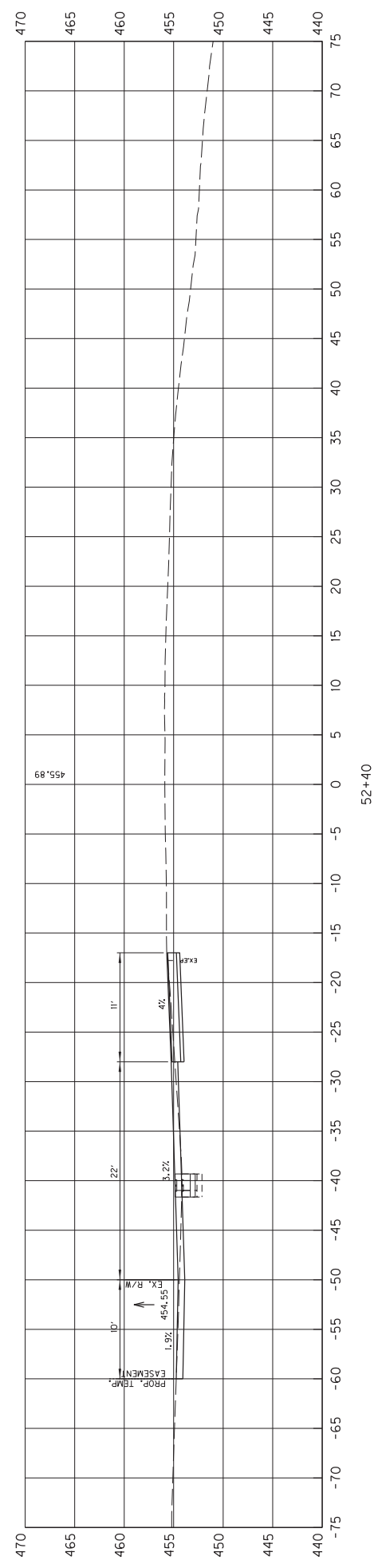
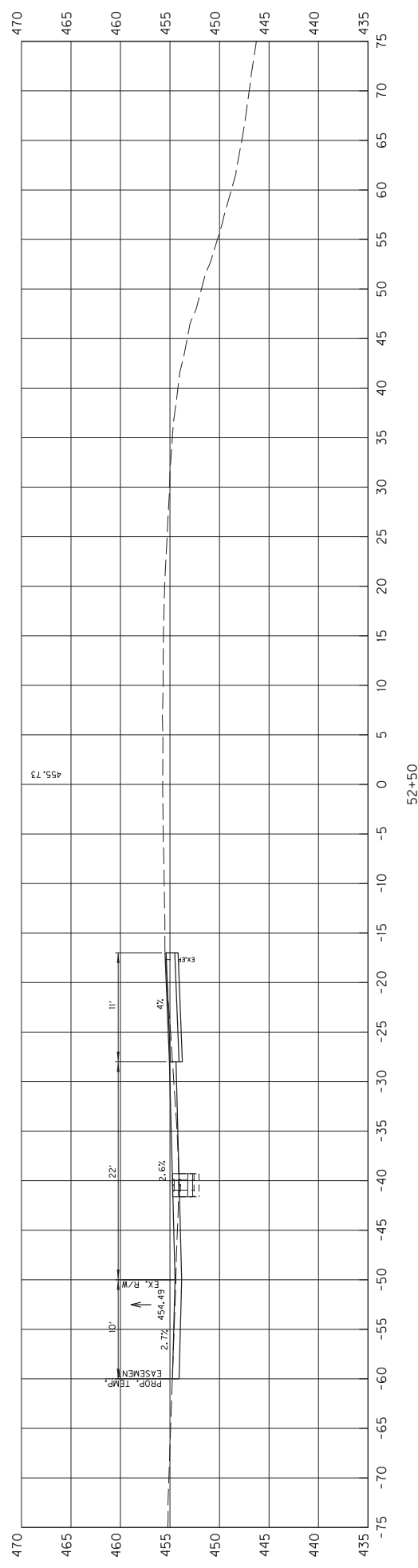


SCALE: HORIZONTAL
1" = 5'
VERTICAL
1" = 5'

HIGHWAY SAFETY IMPROVEMENT PROJECT
WESTBOUND RIGHT TURN LANE
STA. 52+20 TO STA. 52+30

COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-900.30	34

RIGHT OF WAY PLANS

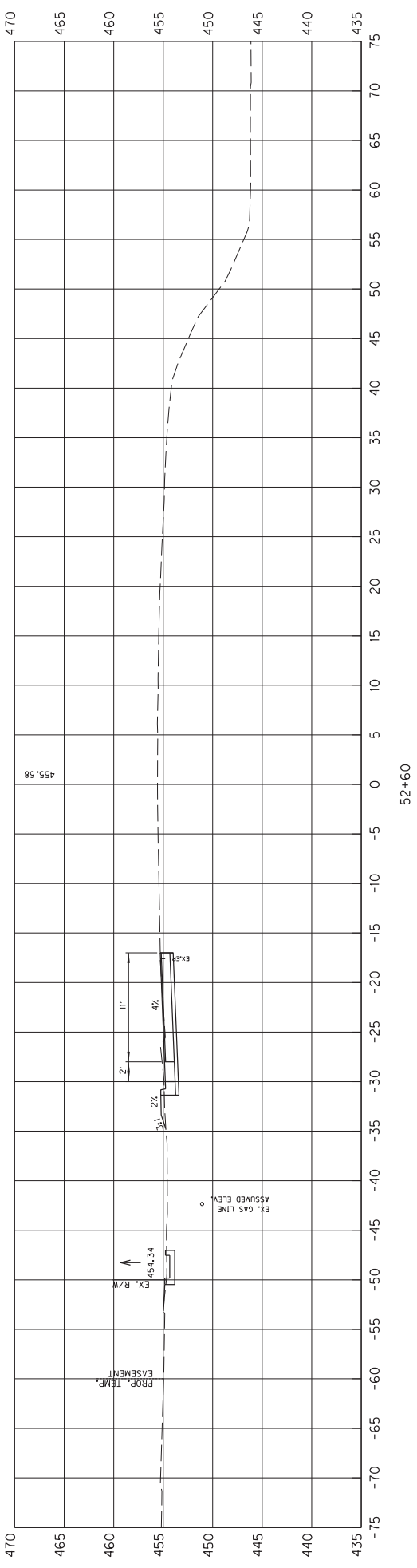
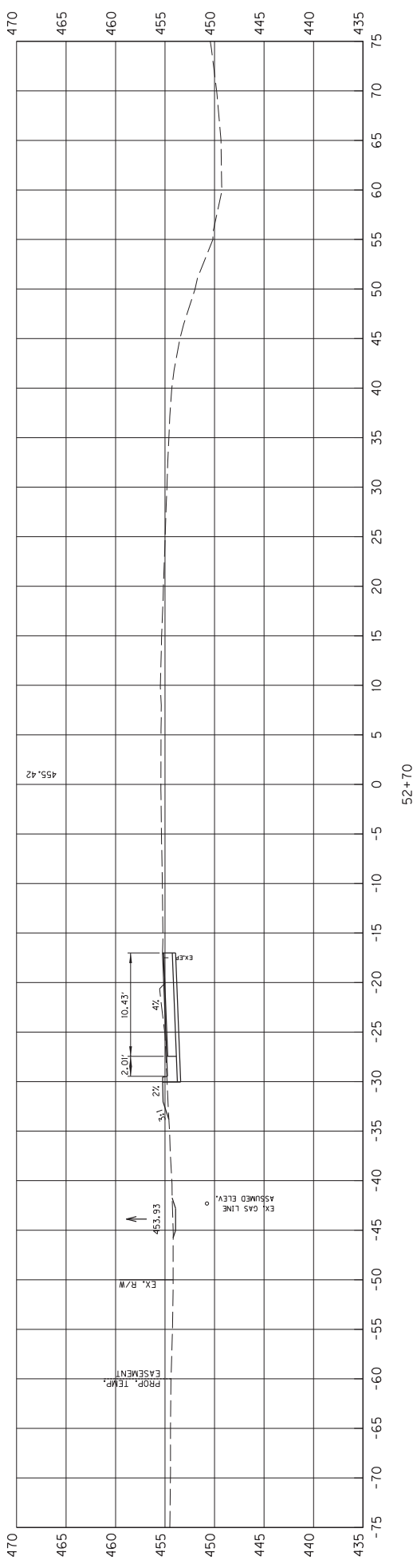


SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

HIGHWAY SAFETY IMPROVEMENT PROJECT
WESTBOUND RIGHT TURN LANE
STA. 52+40 TO STA. 52+50

COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-900.30	X5

RIGHT OF WAY PLANS

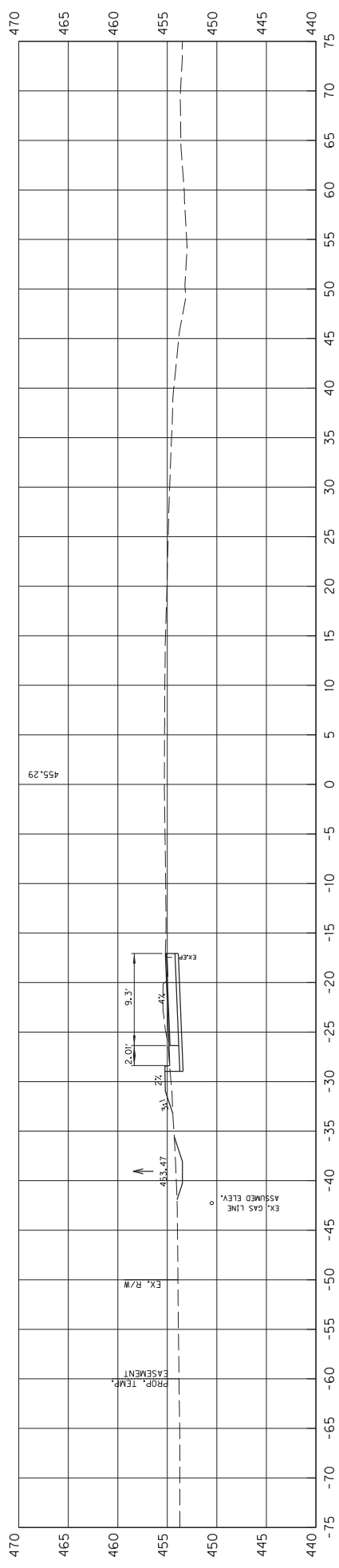
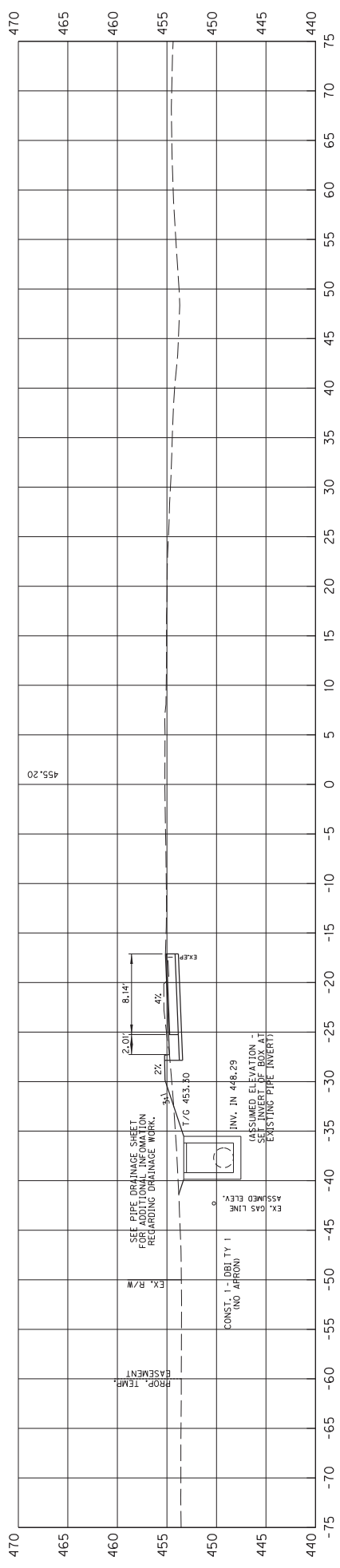


SCALE: 1" = 5' HORIZONTAL
1" = 5' VERTICAL

HIGHWAY SAFETY IMPROVEMENT PROJECT
WESTBOUND RIGHT TURN LANE
STA. 52+60 TO STA. 52+70

COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-900.30	X6

RIGHT OF WAY PLANS



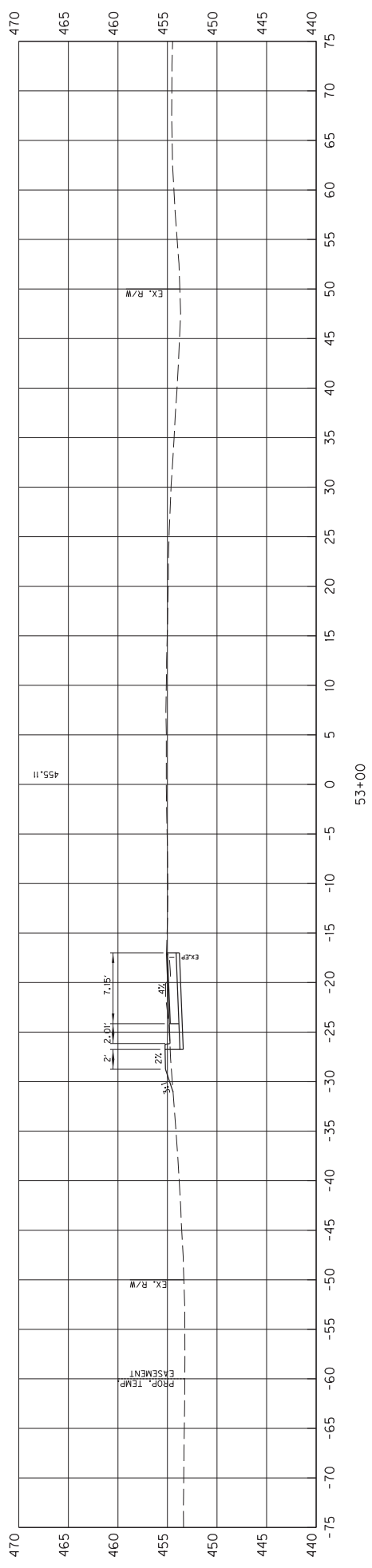
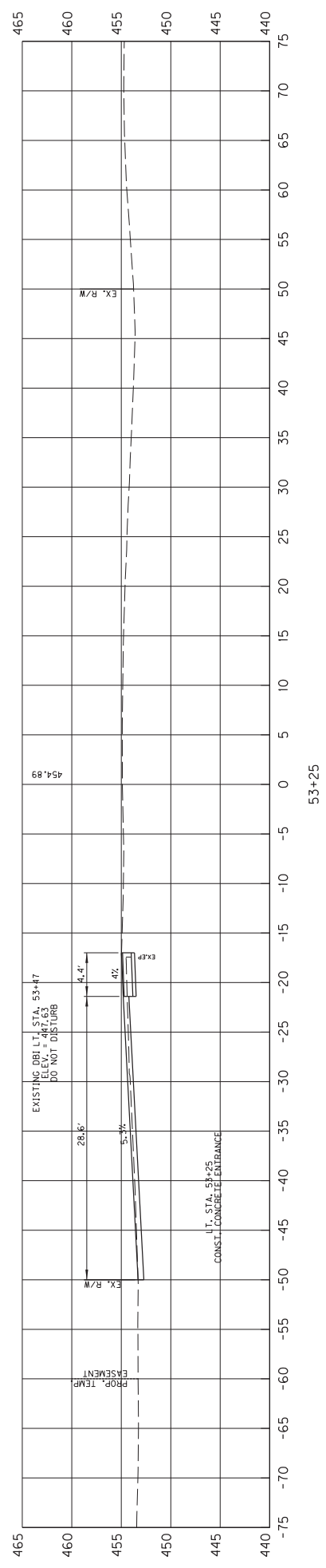
SCALE: HORIZONTAL
1" = 5'

SCALE: VERTICAL
1" = 5'

HIGHWAY SAFETY IMPROVEMENT PROJECT
WESTBOUND RIGHT TURN LANE
STA. 52+80 TO STA. 52+90

COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-900.30	X7

RIGHT OF WAY PLANS

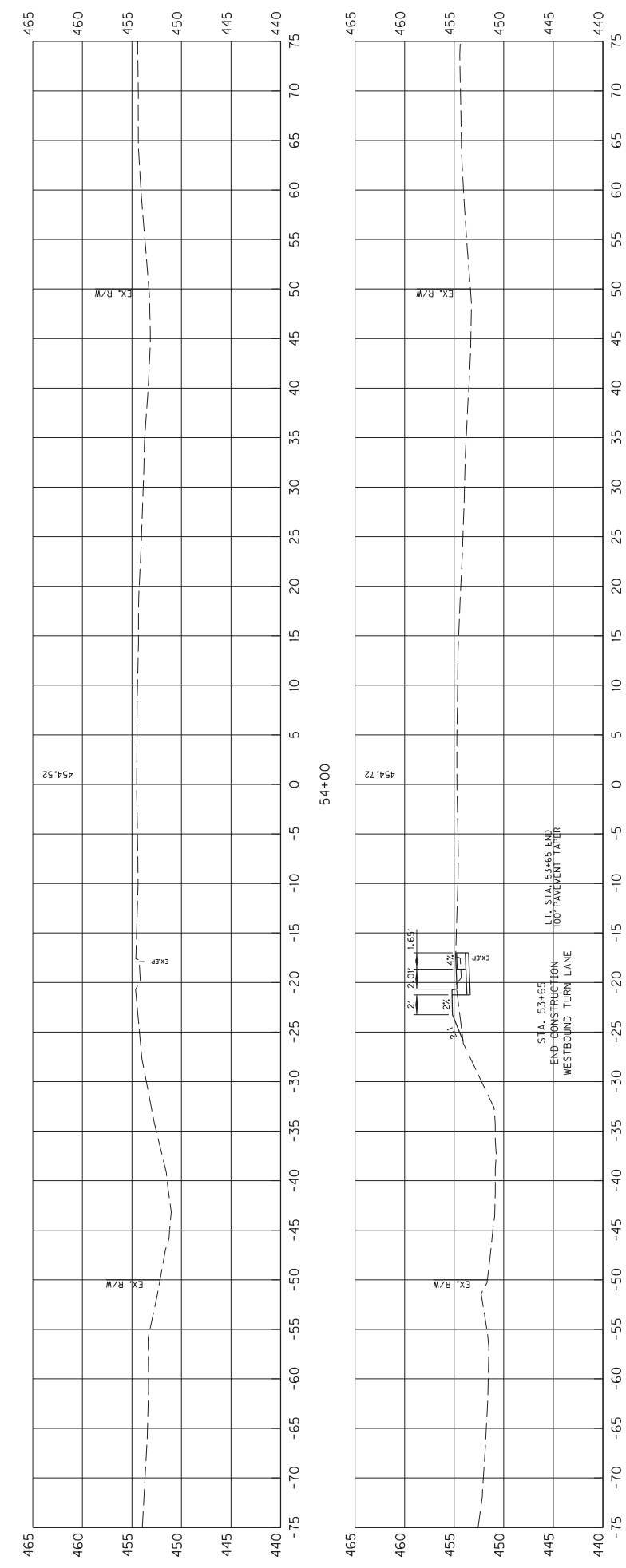


SCALE: HORIZONTAL
1" = 5'
VERTICAL
1" = 5'

HIGHWAY SAFETY IMPROVEMENT PROJECT
WESTBOUND RIGHT TURN LANE
STA. 53+00 TO STA. 53+25

COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-900.30	X8

RIGHT OF WAY PLANS



SCALE: HORIZONTAL
1" = 5'
VERTICAL
1" = 5'

HIGHWAY SAFETY IMPROVEMENT PROJECT
WESTBOUND RIGHT TURN LANE
STA. 53+50 TO STA. 54+00

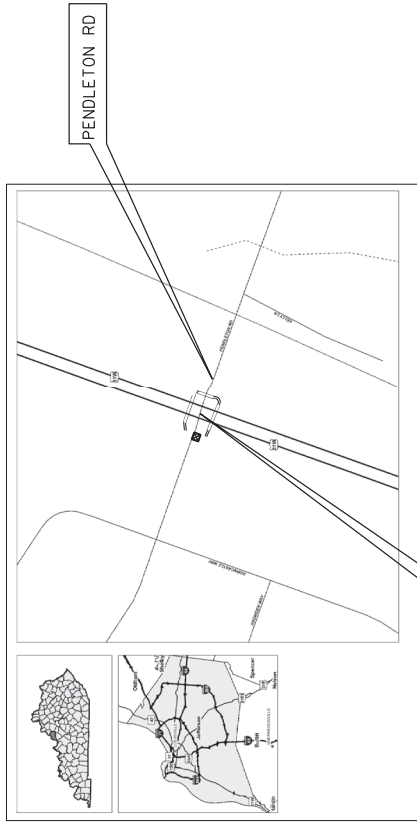
COUNTY OF	ITEM NO.	SHEET
JEFFERSON	5-9010.50	RI

Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS

PLANS OF PROPOSED PROJECT JEFFERSON COUNTY DISTRICT 5 INTERSECTION EMPHASIS HSIP 9010(240)



RIGHT-OF-WAY PLANS



US 31W (DIXIE HWY)
MP. 5.291

US 31W AND PENDLETON ROAD

RIGHT OF WAY PLANS

LAYOUT MAP

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF
JEFFERSON

ITEM NO. 5-9010.50
PROJECT NUMBER HSIP 9010(240)
LETTING DATE: _____
RECOMMENDED BY: _____ PROJECT MANAGER: _____ DATE: _____
PLAN APPROVED BY: _____ STATE HIGHWAY ENGINEER: _____ DATE: _____

INDEX OF SHEETS

SHEET NO.
US 31W AND PENDLETON ROAD
RI
PLAN SHEET
PLAN SHEET

SHEETS NOT INCLUDED IN TOTAL SHEETS

STANDARD DRAWINGS

NUMBER

DESIGN CRITERIA

CLASS OF HIGHWAY _____
TYPE OF TERRAIN _____
DESIGN SPEED _____
REQUIRED NFSD _____
REQUIRED PSD _____
LEVEL OF SERVICE _____
ADT PRESENT () _____
ADT FUTURE () _____
D % _____
T % _____

GEOGRAPHIC COORDINATES

LATITUDE _____ DEGREES _____ MINUTES _____ SECONDS NORTH
LONGITUDE _____ DEGREES _____ MINUTES _____ SECONDS WEST

DESIGNED

% RESTRICTED SD _____
LEVEL OF SERVICE _____
MAX. DISTANCE W/O PASSING _____

LENGTH (SEEDED)	FOR EASEMENTS INCLUDED	FOR EASEMENTS NOT INCLUDED	FOR EASEMENTS NOT INCLUDED
LINEAL FEET	LINEAL FEET	LINEAL FEET	LINEAL FEET
RAILROAD CROSSINGS NO.	RAILROAD CROSSINGS NO.	RAILROAD CROSSINGS NO.	RAILROAD CROSSINGS NO.
BRIDGES	BRIDGES	BRIDGES	BRIDGES
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

GUARDRAIL DELIVERY VERIFICATION SHEET

Contract Id: _____

Contractor: _____

Section Engineer: _____

District & County: _____

<u>DESCRIPTION</u>	<u>UNIT</u>	<u>QTY LEAVING PROJECT</u>	<u>QTY RECEIVED@BB YARD</u>
GUARDRAIL (Includes End treatments & crash cushions)	LF	_____	_____
STEEL POSTS	EACH	_____	_____
STEEL BLOCKS	EACH	_____	_____
WOOD OFFSET BLOCKS	EACH	_____	_____
BACK UP PLATES	EACH	_____	_____
CRASH CUSHION	EACH	_____	_____
NUTS, BOLTS, WASHERS	BAG/BCKT	_____	_____
DAMAGED RAIL TO MAINT. FACILITY	LF	_____	_____
DAMAGED POSTS TO MAINT. FACILITY	EACH	_____	_____

***Required Signatures before Leaving Project Site**

Printed Section Engineer's Representative _____ & Date _____

Signature Section Engineer's Representative _____ & Date _____

Printed Contractor's Representative _____ & Date _____

Signature Contractor's Representative _____ & Date _____

***Required Signatures after Arrival at Bailey Bridge Yard (All material on truck must be counted & the quantity received column completed before signatures)**

Printed Bailey Bridge Yard Representative _____ & Date _____

Signature Bailey Bridge Yard Representative _____ & Date _____

Printed Contractor's Representative _____ & Date _____

Signature Contractor's Representative _____ & Date _____

**Payment for the bid item remove guardrail will be based upon the quantities shown in the Bailey Bridge Yard received column. Payment will not be made for guardrail removal until the guardrail verification sheets are electronically submitted to the Section Engineer by the Bailey Bridge Yard Representative.

Completed Form Submitted to Section Engineer Date: _____ By: _____

PART II
SPECIFICATIONS AND STANDARD DRAWINGS

SPECIFICATIONS REFERENCE

Any reference in the plans or proposal to previous editions of the *Standard Specifications for Road and Bridge Construction* and *Standard Drawings* are superseded by *Standard Specifications for Road and Bridge Construction, Edition of 2012* and *Standard Drawings, Edition of 2016*.

SUPPLEMENTAL SPECIFICATIONS

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

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

SPECIAL NOTE FOR PORTABLE CHANGEABLE MESSAGE SIGNS

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

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

2.0 MATERIALS.

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

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

2.2 Sign and Controls. All signs must:

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

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

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

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

2.3 Power.

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

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

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

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

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

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

11

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

5.0 PAYMENT. The Department will pay for the Variable Message Signs at the unit price each. The Department will not pay for signs replaced due to damage or rejection. Payment is full compensation for furnishing all materials, labor, equipment, and service necessary to, operate, move, repair, and maintain or replace the variable message signs. The Department will make payment for the completed and accepted quantities under the following:

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
02671	Portable Changeable Message Sign	Each

Effective June 15, 2012

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 2012 Standard Specifications for Road and Bridge Construction.

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:

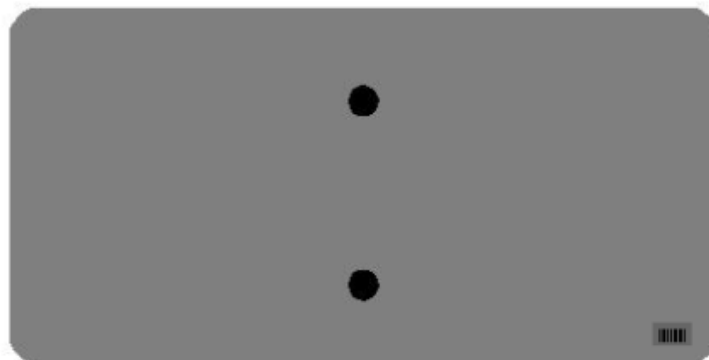
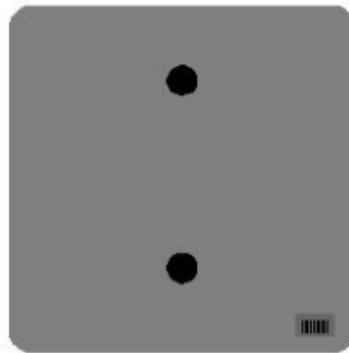
<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
24631EC	Barcode Sign Inventory	Each

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.

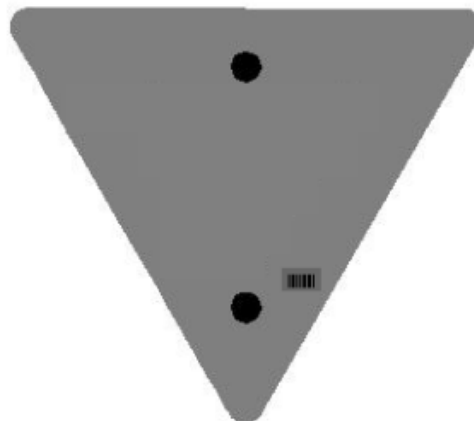
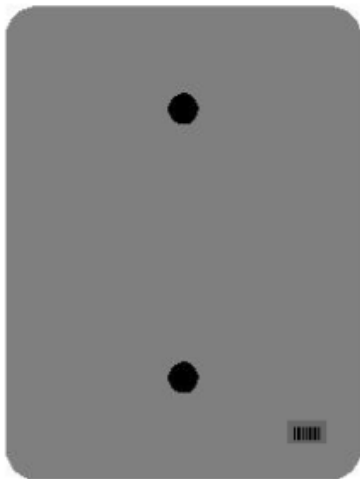
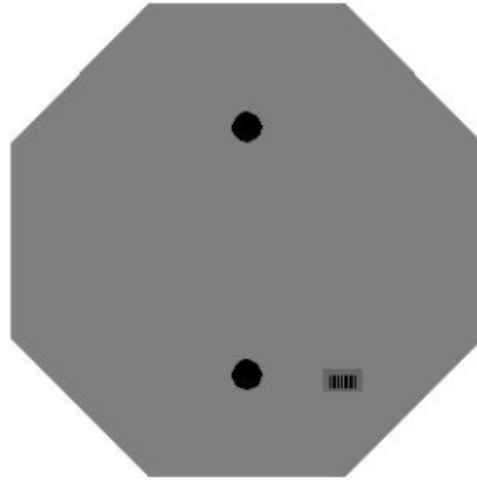
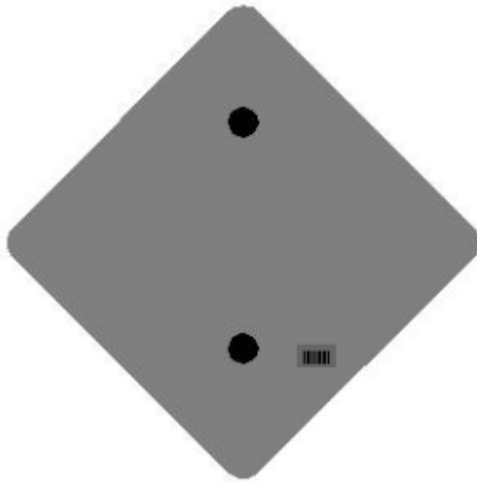
One Sign Post



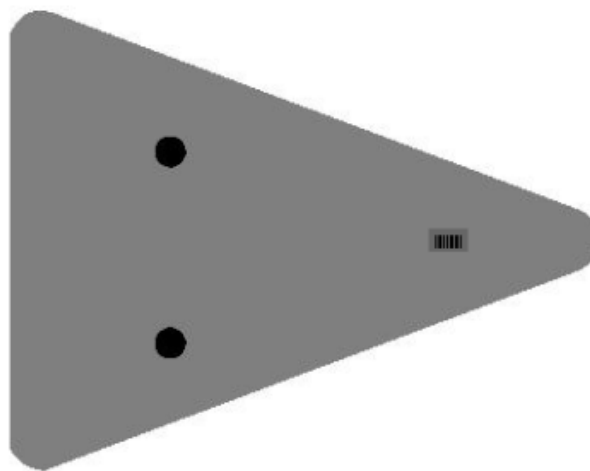
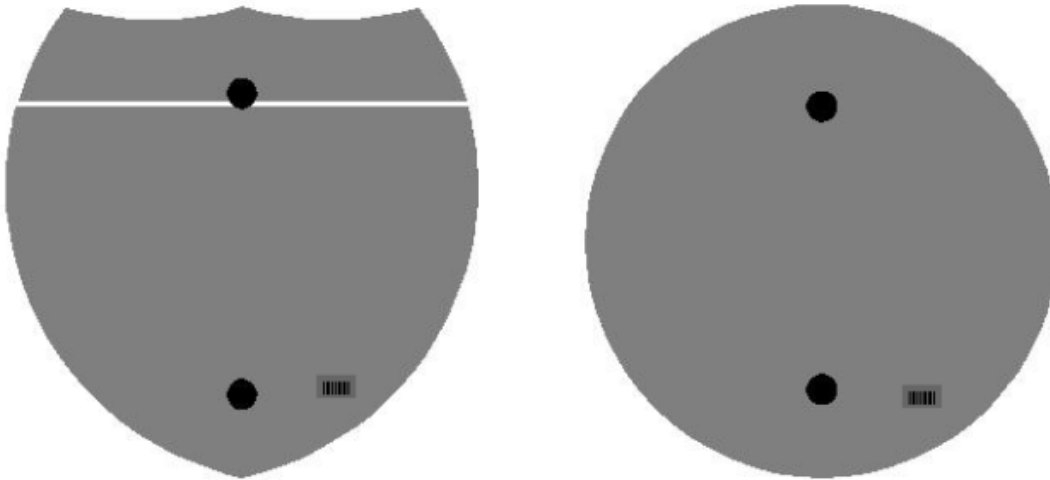
↑
2" Wide Post



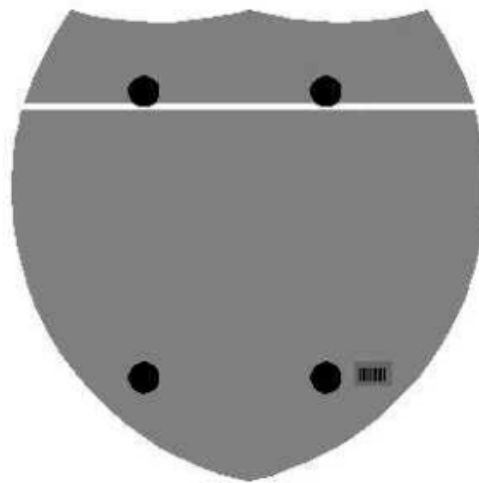
One Sign Post



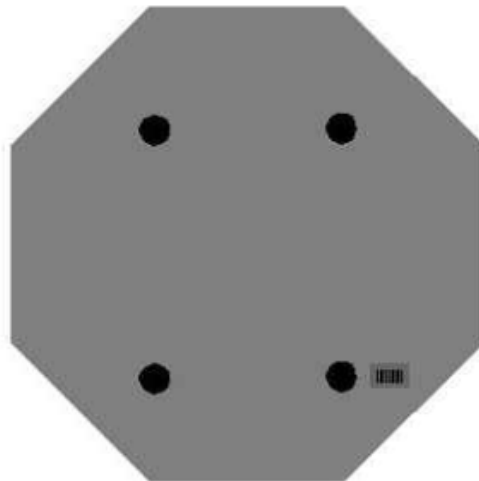
One Sign Post



Double Sign Post



Interstate
Shield

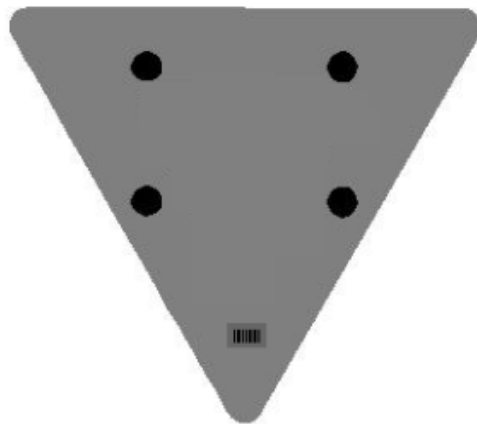


48" Stop

2 Post Signs



↑
2" Wide Post



2016 STANDARD DRAWINGS THAT APPLY

(NOTE: UPDATED 01/26/2018 THROUGH SEPIA-036. ADDITIONAL GUARDRAIL SEPIAS ARE EXPECTED.
Consult Latest List of Active Sepias at: <https://transportation.ky.gov/HighwayDesign/Pages/Sepias2017.aspx>)

ROADWAY ~ BARRIERS ~

GUARDRAIL CONNECTORS TO BRIDGE ENDS

GUARDRAIL CONNECTOR TO BRIDGE END TYPE A COMPONENTS.....	RBC-002-03
GUARDRAIL CONNECTOR TO BRIDGE END TYPE A AND A-1 COMPONENTS.....	SEPIA-013
GUARDRAIL CONNECTOR TO BRIDGE END TYPE A.....	SEPIA-015

TYPICAL BARRIER INSTALLATIONS

TYPICAL GUARDRAIL INSTALLATIONS.....	SEPIA-024
TYPICAL GUARDRAIL INSTALLATIONS.....	RBI-002-07
INSTALLATION OF GUARDRAIL END TREATMENT TYPE 1.....	SEPIA-025

GUARDRAIL HARDWARE

STEEL BEAM GUARDRAIL (W-BEAM).....	SEPIA-027
GUARDRAIL COMPONENTS.....	RBR-005-11
STEEL GUARDRAIL POSTS.....	SEPIA-028
GUARDRAIL END TREATMENT TYPE 1.....	SEPIA-029
DELINEATORS FOR GUARDRAIL.....	SEPIA-032

~ DRAINAGE ~

BOX INLETS AND OUTLETS

DROP BOXES

DROP BOX INLET TYPE 1.....	RDB-001-12
DROP BOX INLET TYPE 12 OR 12A.....	RDB-012-10

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-020-09
PIPE BEDDING FOR CULVERTS, ENTRANCE, AND STORM SEWER, REINFORCED CONC. PIPE.....	RDI-021-01
EROSION CONTROL BLANKET SLOPE INSTALLATION.....	RDI-040-01

MISCELLANEOUS DRAINAGE

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 ~

MISCELLANEOUS STANDARDS

DETECTABLE WARNINGS.....	RGX-040-03
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~ PAVEMENT ~

MEDIANS, CURBS, APPROACHES, ENTRANCES, ETC.

CURB AND GUTTER, CURBS AND VALLEY GUTTER.....	RPM-100-10
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

Standard Drawings That Apply
Page 2 of 2

CONCRETE ENTRANCE PAVEMENT AND SIDEWALK	RPM-152-08
SIDEWALK RAMPS	RPM-170-09

STANDARD REINFORCED CONCRETE PAVEMENT

CONCRETE PAVEMENT JOINT DETAILS	RPS-010-11
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MISCELLANEOUS PAVING

STATION MARKINGS, CONCRETE PAVEMENT	RPX-001-04
PREFORMED COMPRESSION JOINT SEAL FOR CONCRETE PAVEMENT	RPX-010-05

TRAFFIC

~ PERMANENT ~

RAISED PAVEMENT MARKERS

PAVEMENT MARKER ARRANGEMENTS TWO-WAY, LEFT TURN LANE	TPM-140-03
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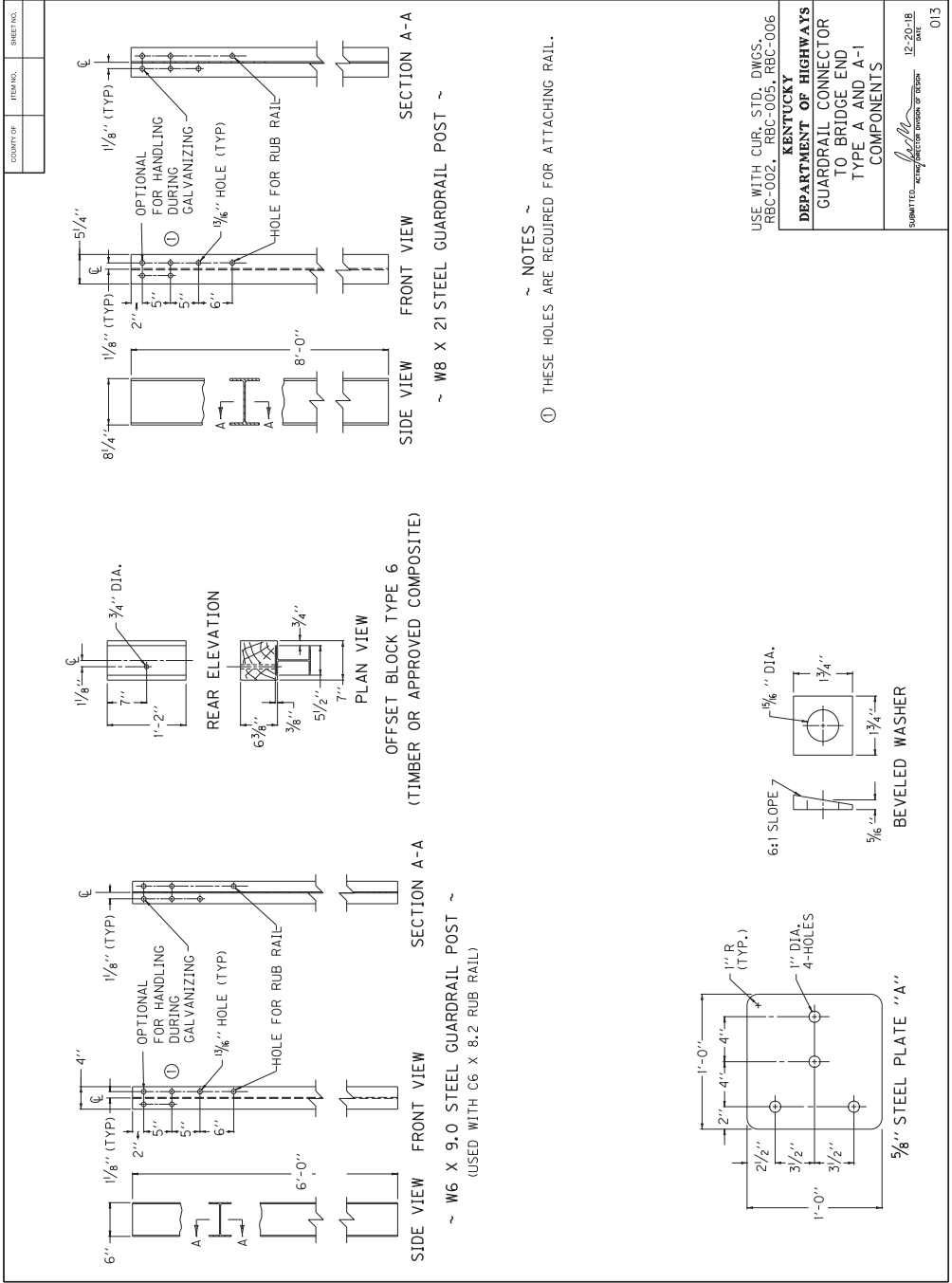
~ TEMPORARY ~

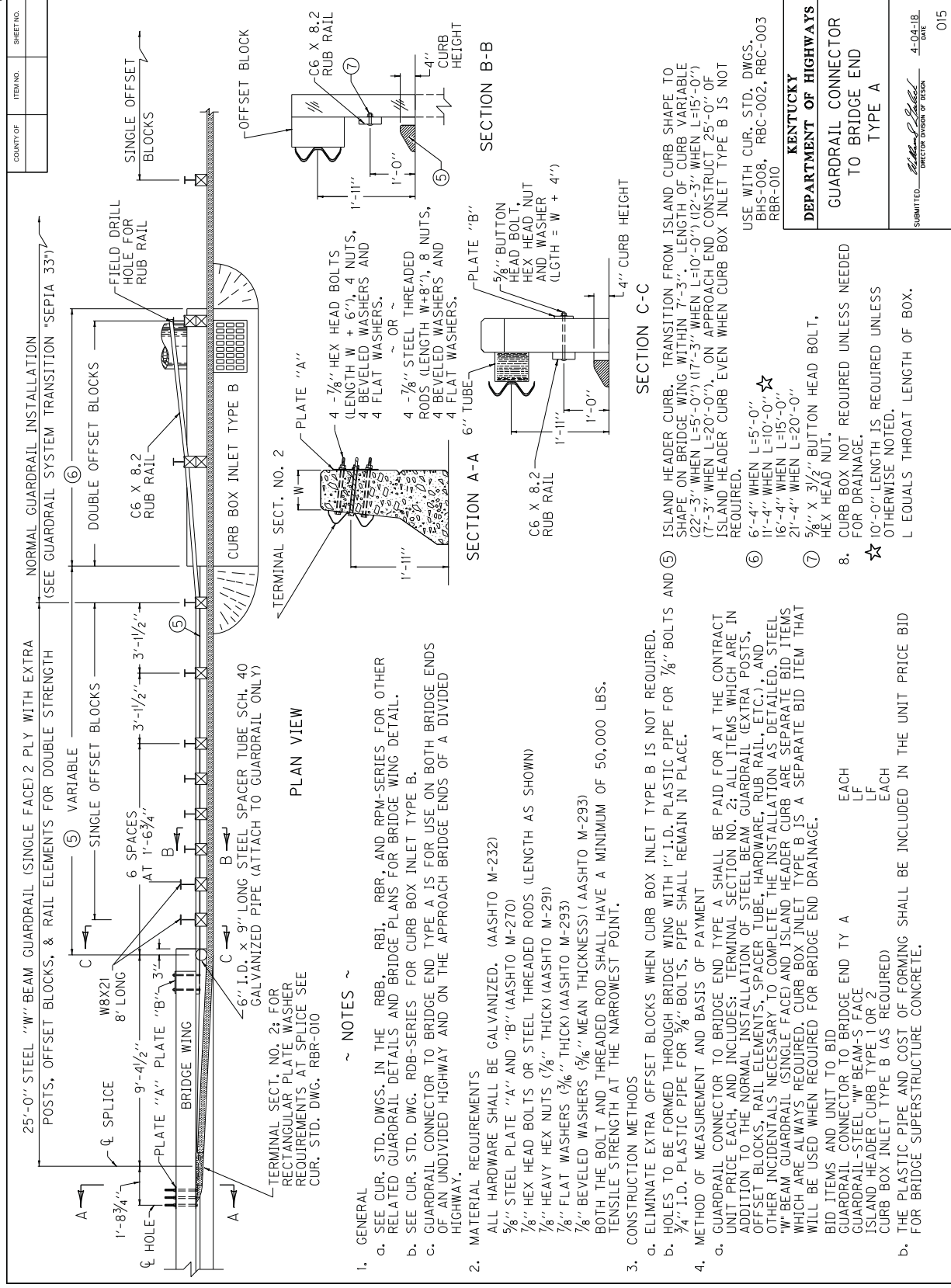
TRAFFIC CONTROL

LANE CLOSURE MULTI-LANE HIGHWAY CASE I	TTC-115-03
SHOULDER CLOSURE	TTC-135-02

STRIPING OPERATIONS

MOBILE OPERATION FOR PAINT STRIPING CASE IV	TTS-115-02
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1. GENERAL
- a. SEE CUR. STD. DWGS. IN THE RBB, RBI, RBR, AND RPM-SERIES FOR OTHER RELATED GUARDRAIL DETAILS AND BRIDGE PLANS FOR BRIDGE WING DETAIL.
 - b. SEE CUR. STD. DWG. RBB-SERIES FOR CURB BOX INLET TYPE B.
 - c. GUARDRAIL CONNECTOR TO BRIDGE END TYPE A IS FOR USE ON BOTH BRIDGE ENDS OF AN UNDIVIDED HIGHWAY AND ON THE APPROACH BRIDGE ENDS OF A DIVIDED HIGHWAY.
2. MATERIAL REQUIREMENTS
- ALL HARDWARE SHALL BE GALVANIZED. (AASHTO M-232)
 - 5/8" STEEL PLATE "A" AND "B" (AASHTO M-270)
 - 7/8" HEX HEAD BOLTS OR STEEL TREADED RODS (LENGTH AS SHOWN)
 - 7/8" HEAVY HEX NUTS (7/8" THICK) (AASHTO M-291)
 - 7/8" FLAT WASHERS (3/16" THICK) (AASHTO M-293)
 - 7/8" BEVELED WASHERS (5/16" MEAN THICKNESS) (AASHTO M-293)
 - BOTH THE BOLT AND TREADED ROD SHALL HAVE A MINIMUM OF 50,000 LBS. TENSILE STRENGTH AT THE NARROWEST POINT.
3. CONSTRUCTION METHODS
- a. ELIMINATE EXTRA OFFSET BLOCKS WHEN CURB BOX INLET TYPE B IS NOT REQUIRED.
 - b. HOLES TO BE FORMED THROUGH BRIDGE WING WITH 1" I.D. PLASTIC PIPE FOR 7/8" BOLTS AND 3/4" I.D. PLASTIC PIPE FOR 5/8" BOLTS, PIPE SHALL REMAIN IN PLACE.
4. METHOD OF MEASUREMENT AND BASIS OF PAYMENT
- a. GUARDRAIL CONNECTOR TO BRIDGE END TYPE A SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH, AND INCLUDES: TERMINAL SECTION NO. 2; ALL ITEMS WHICH ARE IN ADDITION TO THE NORMAL INSTALLATION OF STEEL BEAM GUARDRAIL (EXTRA POSTS, OFFSET BLOCKS, RAIL ELEMENTS, SPACER TUBE, HARDWARE, RUB RAIL, ETC.), AND OTHER INCIDENTALS NECESSARY TO COMPLETE THE INSTALLATION AS DETAILED. STEEL "W" BEAM GUARDRAIL (SINGLE FACE) AND ISLAND HEADER CURB ARE SEPARATE BID ITEMS WHICH ARE ALWAYS REQUIRED. CURB BOX INLET TYPE B IS A SEPARATE BID ITEM THAT WILL BE USED WHEN REQUIRED FOR BRIDGE END DRAINAGE.
- b. BID ITEMS AND UNIT TO BID
- GUARDRAIL CONNECTOR TO BRIDGE END TYPE A EACH LF
 - GUARDRAIL-STEEL "W" BEAM-S FACE LF
 - ISLAND HEADER CURB TYPE 1 OR 2 LF
 - CURB BOX INLET TYPE B (AS REQUIRED) EACH LF
- b. THE PLASTIC PIPE AND COST OF FORMING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR BRIDGE SUPERSTRUCTURE CONCRETE.

USE WITH CUR. STD. DWGS. BRS-008, RBC-002, RBC-003 RBR-010

KENTUCKY
DEPARTMENT OF HIGHWAYS

GUARDRAIL CONNECTOR TO BRIDGE END TYPE A

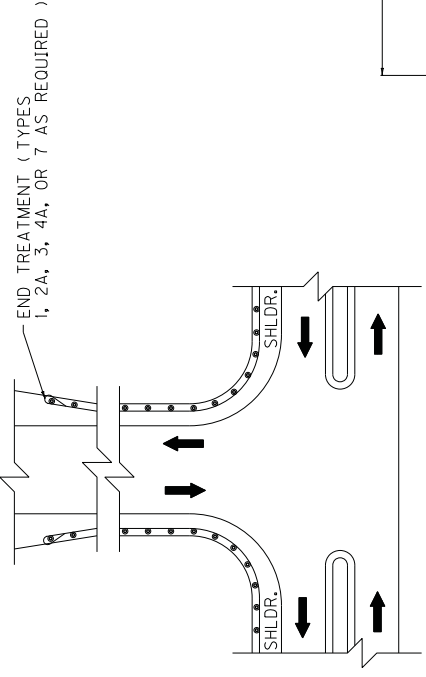
SUBMITTED: *Michael J. ...*
DIRECTOR DIVISION OF DESIGN 4-04-18 DATE

015

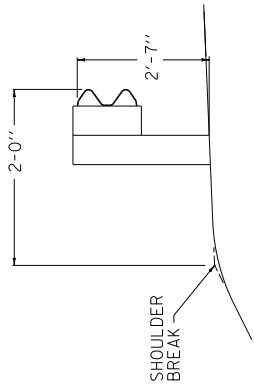
COUNTY OF	TITLING	SHEET NO.

~ NOTES ~

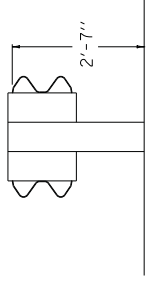
1. FOR END TREATMENT TYPE 4A USE CUR. STD. DWG. RBR-035 FOR OFFSETS.
2. THE MINIMUM LENGTH OF GUARDRAIL, INCLUDING THE END TREATMENT, PRECEDING A FIXED OBJECT IS 200 FEET: (LENGTH MAY BE REDUCED SHOULD FIELD CONDITIONS WARRANT).



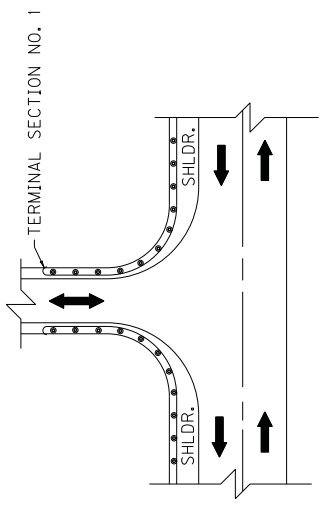
APPROACH ROADS



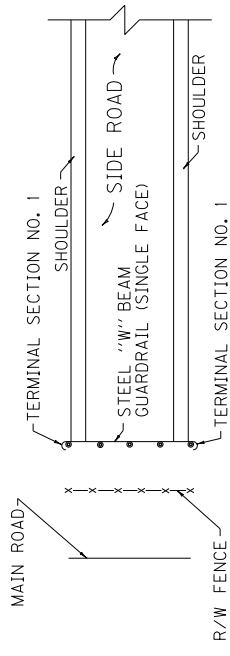
NORMAL GUARDRAIL INSTALLATION



TYPICAL DOUBLE FACE GUARDRAIL INSTALLATION



ENTRANCES



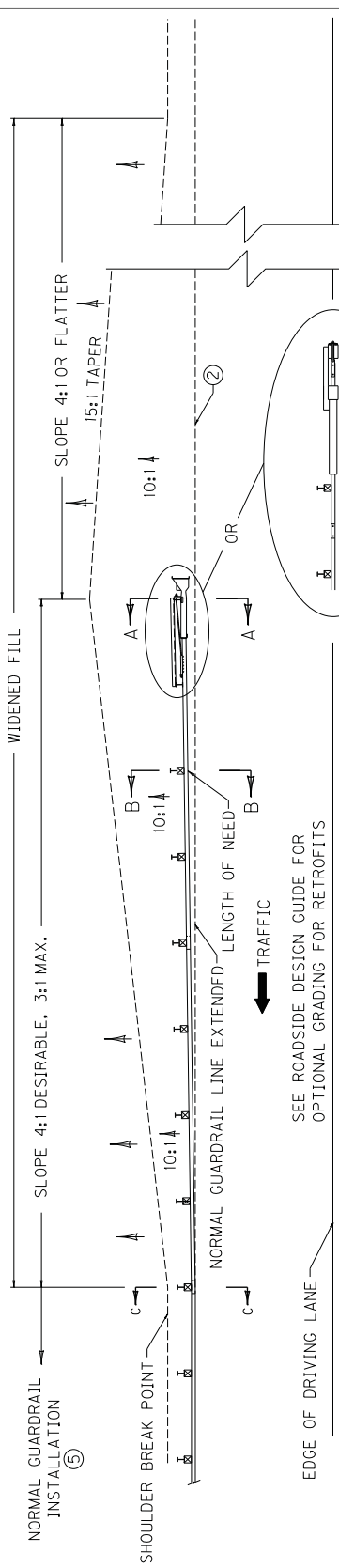
GUARDRAIL USED AS A BARRICADE

USE WITH CUR. STD. DWG.
RBI-002, RBR-035

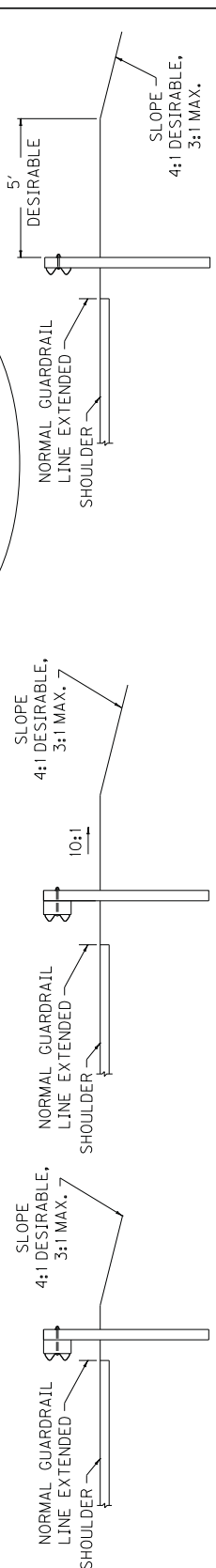
KENTUCKY
DEPARTMENT OF HIGHWAYS
TYPICAL GUARDRAIL
INSTALLATIONS

SUBMITTED: *[Signature]*
DIRECTOR DIVISION OF DESIGN
J1-17-17
DATE
024

COUNTY OF	JEFFERSON
SHEET NO.	025



SEE ROADSIDE DESIGN GUIDE FOR
OPTIONAL GRADING FOR RETROFITS



SECTION A-A

SECTION B-B

SECTION C-C



~ NOTES ~

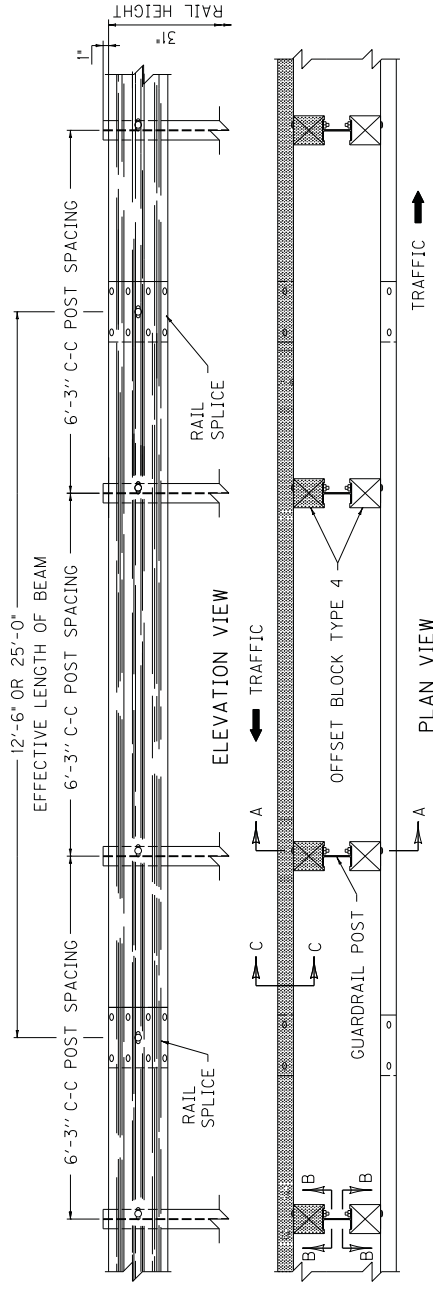
- BID ITEMS AND UNIT TO BID:
GUARDRAIL END TREATMENT TYPE 1
ROADWAY OR BORROW EXCAVATION,
OR EMBANKMENT IN PLACE
EACH
CUYD
- 1. THE MINIMUM LENGTH OF GUARDRAIL, INCLUDING THE END TREATMENT, PRECEDING A FIXED OBJECT IS 200 FEET (LENGTH MAY BE REDUCED SHOULD FIELD CONDITIONS WARRANT).
- 2. GUARDRAIL EXTRUDER EDGE CLOSEST TO TRAFFIC SHALL BE PLACED ON NORMAL GUARDRAIL LINE EXTENDED.
- 3. END TREATMENT TYPE 1 MAY BE ATTACHED TO CURVED GUARDRAIL PROVIDED CURVE IS A 550' RADIUS OR MORE. END TREATMENT TYPE 1 SHALL BE INSTALLED ON A STRAIGHT LINE TAPER WITHIN THE PAY LIMITS.
- 4. INTENDED USE: FILLS WITH ADEQUATE VEHICLE RECOVERY ZONE BEHIND GUARDRAIL.
- 5. FOR MAINTENANCE AND REPAIR PROJECTS, USE "GUARDRAIL SYSTEM TRANSITION "SEPIA 33", TO TRANSITION BACK TO 27" OR 29" GUARDRAIL HEIGHT, IF ONLY THE TERMINAL IS PROPOSED TO BE REPLACED.

USE WITH CUR. STD. DWG.
RBR-020

KENTUCKY
DEPARTMENT OF HIGHWAYS
INSTALLATION OF
GUARDRAIL
END TREATMENT
TYPE 1

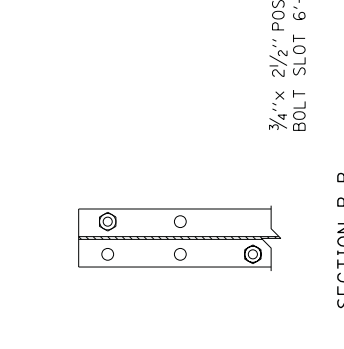
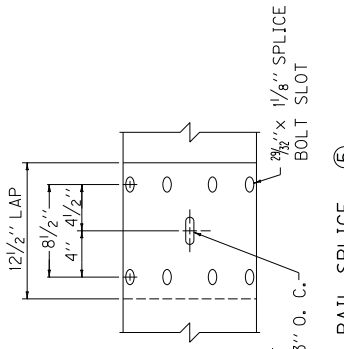
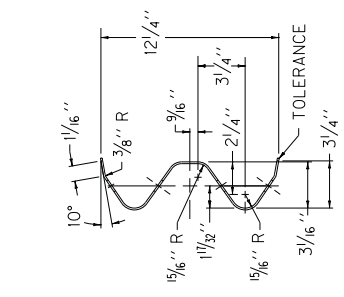
SUBMITTED: *[Signature]*
DIRECTOR IN CHARGE OF DESIGN
DATE: 11-17-17

COUNTY OF	ITEM NO.	SHEET NO.



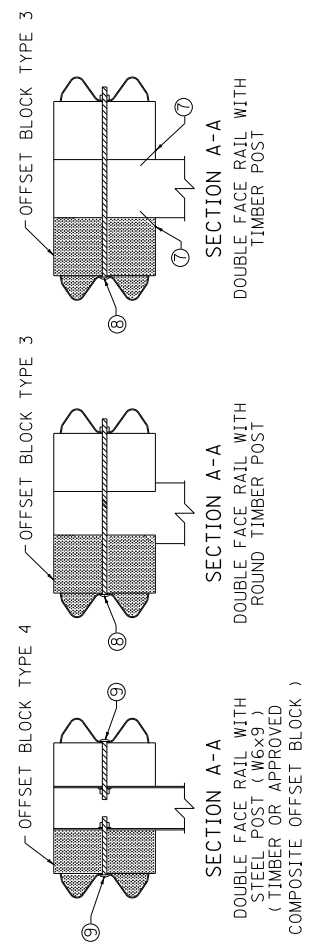
~ NOTES ~

- BID ITEM AND UNIT TO BID
GUARDRAIL-STEEL W BEAM-S FACE LF
- GUARDRAIL-STEEL W BEAM-D FACE LF
- DIMENSIONAL TOLERANCES NOT SHOWN OR IMPLIED ARE INTENDED TO BE THOSE CONSISTENT WITH THE PROPER FUNCTIONING OF THE PART, INCLUDING ITS APPEARANCE AND ACCEPTED MANUFACTURING PRACTICES.
- THE RAIL ELEMENT SHALL COMPLY WITH AASHTO M-180 -CLASS A, TYPE II.
- ALL LAPS SHALL BE PLACED IN THE DIRECTION OF TRAFFIC FLOW.
- TOLERANCE + 1/4", -1/4"
- 8-5/8"x 1/4" LONG BUTTON HEAD BOLTS AND HEX HEAD RECESS NUTS REQUIRED FOR EACH RAIL SPLICE.
- LENGTH EQUALS POST AND BLOCK WIDTH PLUS 2" FOR BOLT OR 2 1/4" FOR THREADED ROD.
- GALVANIZED STEEL 104 COMMON COATED NAIL (DRIVE NAIL AT THE TOP OR BOTTOM CENTER OF BLOCK AND POST AFTER BOLT IS INSTALLED).
- 5/8"x STEEL THREADED ROD AND TWO (2) HEX HEAD NUTS OR 5/8"x 6" BUTTON OR HEX HEAD BOLT AND HEX HEAD NUT.
- 5/8"x 8" BUTTON HEAD BOLT, HEX HEAD RECESS NUT AND ONE 3/8" ROUND WASHER (TYP.). BOLT SHALL HAVE A MINIMUM THREAD LENGTH OF 2".
- REQUIRED FOR DOUBLE RAIL
- BOTH 12'-6" AND 25' LENGTHS OF "W" BEAM GUARDRAIL SECTIONS WILL BE PERMITTED UNLESS OTHERWISE DIRECTED BY THE ENGINEER.



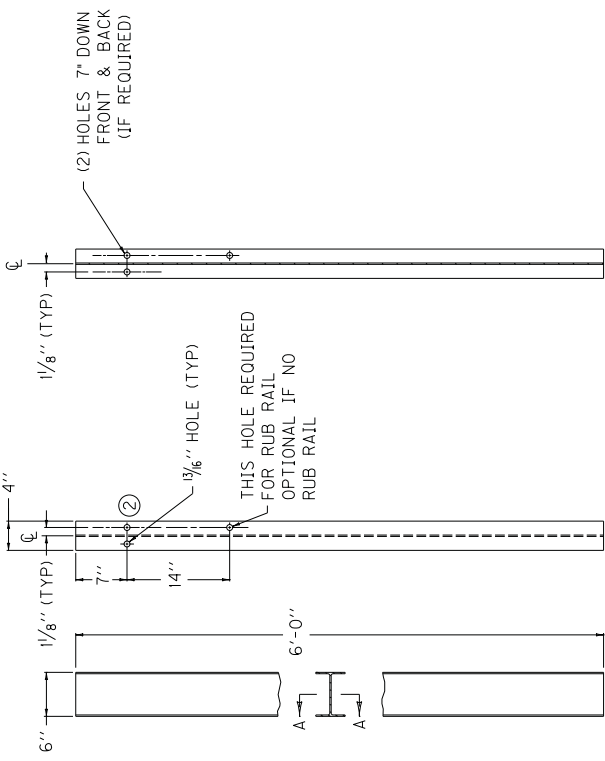
SECTION C-C
(RAIL CORRUGATED SHEET STEEL BEAM)

SECTION B-B



KENTUCKY DEPARTMENT OF HIGHWAYS
STEEL BEAM GUARDRAIL ("W" BEAM)
SUBMITTED: <i>Robert P. Schell</i> DIRECTOR DIVISION OF DESIGN 11-17-17 DATE 027

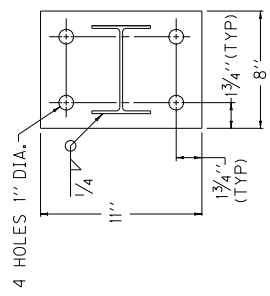
COUNTY OF	_____
ITEM NO.	_____
SHEET NO.	_____



SECTION A-A
FRONT VIEW
SIDE VIEW

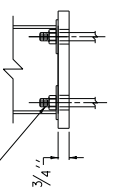
~ W6 X 9.0 STEEL POST ① ~

- ~ NOTES ~
- ① W6 X 8.5 IS AN ACCEPTABLE ALTERNATE.
 - ② THESE HOLES ARE REQUIRED FOR ATTACHING RAIL.
 - ③ TIMBER OR COMPOSITE BLOCKOUTS MAY BE USED WITH STEEL POST.

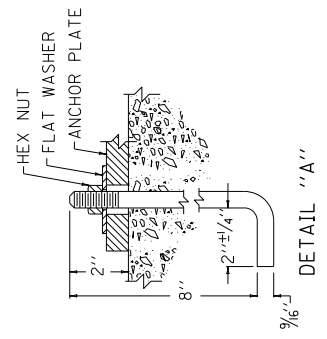


PLAN VIEW

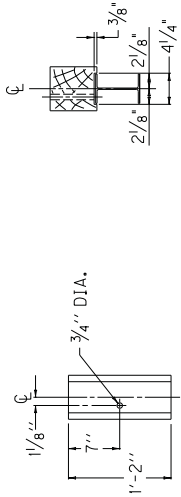
SEE DETAIL "A"



SIDE VIEW
ANCHOR PLATE



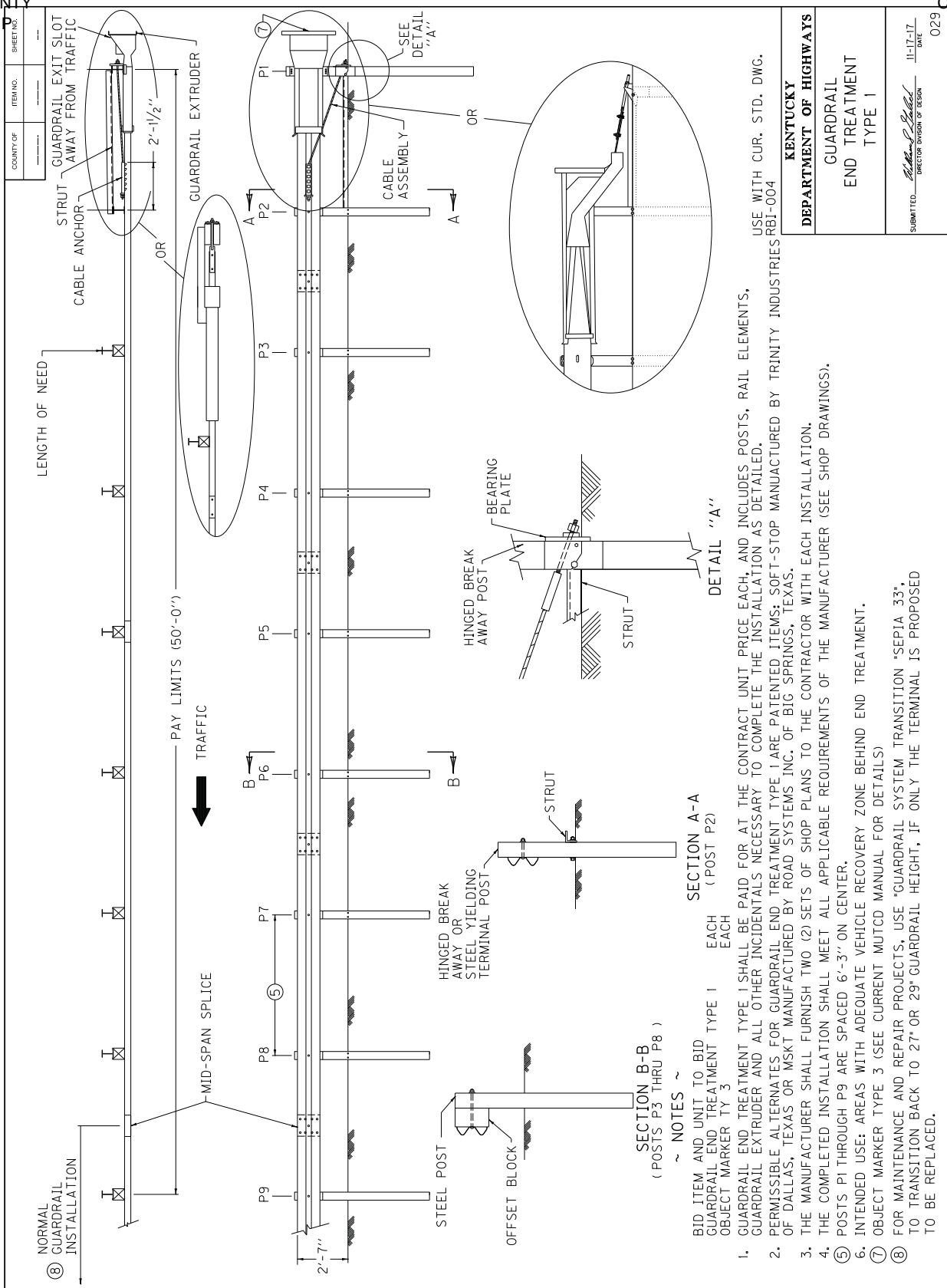
DETAIL "A"



REAR ELEVATION
PLAN VIEW

OFFSET BLOCK TYPE 4
6' X 8" (Nominal Size)
(TIMBER OR APPROVED COMPOSITE)
(FOR USE WITH STEEL POST ONLY)

KENTUCKY DEPARTMENT OF HIGHWAYS	STEEL GUARDRAIL POSTS
	SUBMITTED: <i>Mark P. Sells</i> DIRECTOR DIVISION OF DESIGN
	DATE: 3-06-18
	028



SHEET NO. _____
COUNTY OF _____
ITEM NO. _____

LENGTH OF NEED

PAY LIMITS (50'-0")
TRAFFIC

⑧ NORMAL GUARDRAIL INSTALLATION

MID-SPAN SPLICE

P9

P8

P7

P6

P5

P4

P3

P2

P1

STEEL POST

OFFSET BLOCK

HINGED BREAK AWAY OR STEEL YIELDING TERMINAL POST

STRUT

HINGED BREAK AWAY POST

BEARING PLATE

STRUT

CABLE ASSEMBLY

SEE DETAIL "A"

STRUT

GUARDRAIL EXIT SLOT AWAY FROM TRAFFIC

GUARDRAIL EXTRUDER

OR

OR

SECTION B-B
(POSTS P3 THRU P8)

~ NOTES ~

SECTION A-A
(POST P2)

BID ITEM AND UNIT TO BID
GUARDRAIL END TREATMENT TYPE 1 EACH
OBJECT MARKER TY 3 EACH

1. GUARDRAIL END TREATMENT TYPE 1 SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH, AND INCLUDES POSTS, RAIL ELEMENTS, GUARDRAIL EXTRUDER AND ALL OTHER INCIDENTALS NECESSARY TO COMPLETE THE INSTALLATION AS DETAILED.
2. PERMISSIBLE ALTERNATES FOR GUARDRAIL END TREATMENT TYPE 1 ARE PATENTED ITEMS: SOFT-STOP MANUFACTURED BY TRINITY INDUSTRIES RBI-004 OF DALLAS, TEXAS OR MSKT MANUFACTURED BY ROAD SYSTEMS INC. OF BIG SPRINGS, TEXAS.
3. THE MANUFACTURER SHALL FURNISH TWO (2) SETS OF SHOP PLANS TO THE CONTRACTOR WITH EACH INSTALLATION.
4. THE COMPLETED INSTALLATION SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE MANUFACTURER (SEE SHOP DRAWINGS).
5. POSTS P1 THROUGH P9 ARE SPACED 6'-3" ON CENTER.
6. INTENDED USE: AREAS WITH ADEQUATE VEHICLE RECOVERY ZONE BEHIND END TREATMENT.
7. OBJECT MARKER TYPE 3 (SEE CURRENT MUTCD MANUAL FOR DETAILS)
8. FOR MAINTENANCE AND REPAIR PROJECTS, USE "GUARDRAIL SYSTEM TRANSITION 'SEP1A 33", TO TRANSITION BACK TO 27" OR 29" GUARDRAIL HEIGHT, IF ONLY THE TERMINAL IS PROPOSED TO BE REPLACED.

USE WITH CUR. STD. DWG.
RBI-004

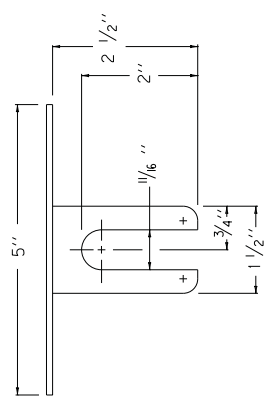
KENTUCKY
DEPARTMENT OF HIGHWAYS
GUARDRAIL
END TREATMENT
TYPE 1

SUBMITTED: *John P. Scales*
DIRECTOR DIVISION OF DESIGN
DATE: 11-17-17
029

COUNTY OF	ITEM NO.	SHEET NO.

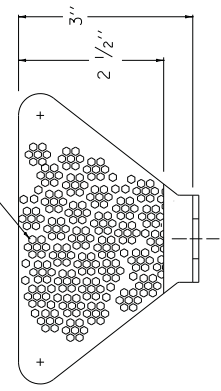
~ NOTES ~

- BID ITEMS AND UNIT TO BID
 DELINEATOR FOR GUARDRAIL B/W EACH
 DELINEATOR FOR GUARDRAIL M/W EACH
 DELINEATOR FOR GUARDRAIL M/Y EACH
1. DELINEATORS SHALL BE MEASURED AND PAID FOR AT THE CONTRACT UNIT PRICE EACH AND SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY FOR ONE COMPLETE INSTALLATION.
 2. DELINEATOR SHAPE AND DIMENSIONS ARE SHOWN FOR ILLUSTRATION PURPOSES ONLY. TYPES OF DELINEATORS PERMITTED SHALL BE FROM THE LIST OF APPROVED MATERIALS.
 3. GUARDRAIL DELINEATORS SHALL BE REQUIRED ON ALL GUARDRAIL.
 4. DELINEATORS SHALL NOT BE INSTALLED WITHIN THE PAY LIMITS OF THE END TREATMENT.
 5. DELINEATORS SHALL BE MANUFACTURED FROM 12 GA. GALVANIZED STEEL.
 6. DIMENSIONS SHOWN ARE APPROXIMATE AND ARE SUBJECT TO MANUFACTURER'S TOLERANCES.
 7. WHEN CONCRETE BARRIERS EXTEND ACROSS BRIDGE STRUCTURES IN LIEU OF STEEL BEAM GUARDRAIL, DELINEATORS SHALL BE INSTALLED AT SAME VERTICAL ALIGNMENT AS ON THE GUARDRAIL, AND DELINEATORS SHALL COMPLY WITH CURRENT STANDARD DRAWING RBM-020.
 8. DELINEATORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

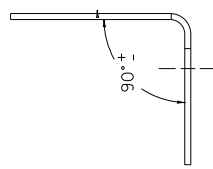


PLAN VIEW

TYPE IX SHEETING,
YELLOW OR WHITE

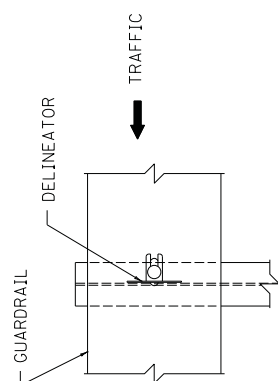


FRONT VIEW

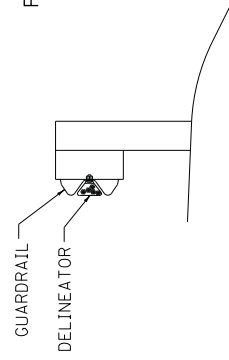


SIDE VIEW

DIMENSIONS SHOWN ARE FOR ONE VERSION OF A WEB-MOUNTED GUARDRAIL DELINEATOR. DELINEATORS WITH ALTERNATE DIMENSIONS MAY BE CONSIDERED FOR INCLUSION ON THE APPROVED PRODUCTS LIST.

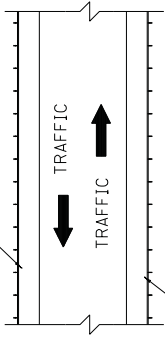


FRONT VIEW

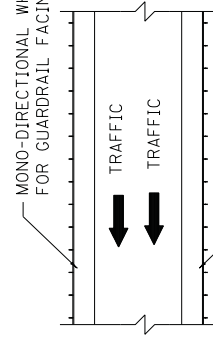


SIDE VIEW

BI-DIRECTIONAL WHITE DELINEATOR FOR GUARDRAIL FACING TRAFFIC



BI-DIRECTIONAL WHITE DELINEATOR FOR GUARDRAIL FACING TRAFFIC



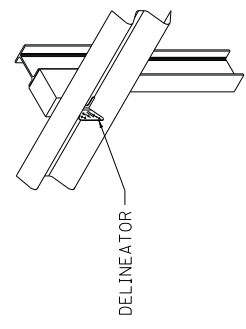
MONO-DIRECTIONAL WHITE DELINEATOR FOR GUARDRAIL FACING TRAFFIC

MONO-DIRECTIONAL YELLOW DELINEATOR FOR GUARDRAIL FACING TRAFFIC

APPROXIMATE DELINEATOR SPACING

TANGENT	100'
CURVE	50'

SPACING SHOULD BE ADJUSTED IN CURVES SO THAT SEVERAL DELINEATORS ARE ALWAYS SIMULTANEOUSLY VISIBLE TO THE ROAD USER.



ISOMETRIC VIEW
USE WITH CUR. STD. DWGS.
RBM-020, RBR-060

KENTUCKY	
DEPARTMENT OF HIGHWAYS	
DELINEATORS FOR GUARDRAIL	
SUBMITTED: <i>Mark S. Pickett</i> DIRECTOR DIVISION OF DESIGN	JL-17-17 DATE
	032

COUNTY OF	ITEM NO.	SHEET NO.

STRIPING NOTES:

- ARROWS SHALL BE USED IN ANY EXCLUSIVE TURN LANES.
- IN A SINGLE TURN LANE, DOTTED WHITE LINE EXTENSIONS MAY BE USED THROUGH THE TAPER OF THE TURN LANE.
- IF USED, DOTTED WHITE LANE LINE EXTENSIONS SHALL BE NORMAL WIDTH, AND SHOULD BE 2' LONG, WITH A GAP OF 2-6' BETWEEN EACH LINE.
- IN DUAL TURN LANES, DOTTED WHITE LANE LINE EXTENSIONS SHOULD BE USED THROUGH THE TAPER OF THE TURN LANE. BOTH SOLID LINES FORMING THE TURN LANES SHALL BEGIN AT THE DOWNSTREAM END OF THE TAPER.

ARROW SPACING NOTES:

- IN SINGLE-DIRECTION TURN LANES, ARROWS SHOULD BE SPACED AS FOLLOWS:
- AT LEAST TWO ARROWS SHOULD BE USED IN EACH TURN LANE. HOWEVER, IF A TURN LANE IS LESS THAN 80' IN LENGTH, THE DOWNSTREAM ARROW MAY BE ELIMINATED.
- THE FIRST UPSTREAM ARROW SHALL BE PLACED AT THE BEGINNING OF THE SOLID LINE FOR THE TURN LANE.
- THE LAST DOWNSTREAM ARROW SHOULD BE PLACED 40' FROM THE STOP BAR.
- ANY ADDITIONAL ARROWS SHOULD BE EVENLY SPACED. SPACING SHOULD NOT EXCEED 80'.
- ARROW SPACING AND NUMBER OF ARROWS MAY VARY BASED ON SITE CONDITIONS.

DOTTED EXTENSION DIMENSIONS:



Dotted extensions shall be normal width.

KENTUCKY DEPARTMENT OF HIGHWAYS

TYPICAL MARKINGS FOR TURN LANES

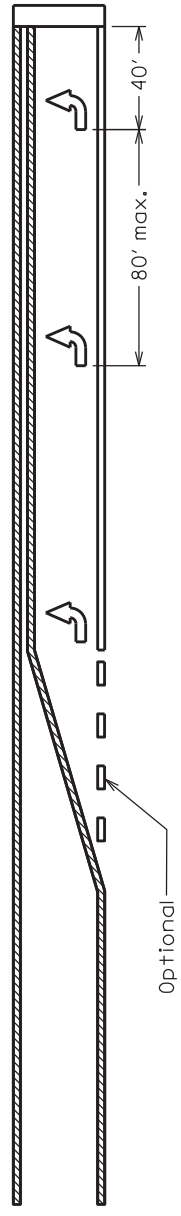
SUBMITTED: *R. [Signature]* DATE: 11-30-18 **042**

DRAWING NOT TO SCALE

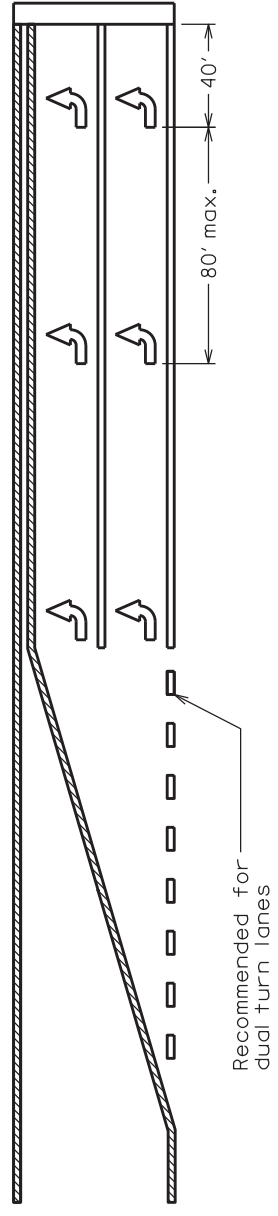
LEGEND

MARKINGS	WHITE
	YELLOW

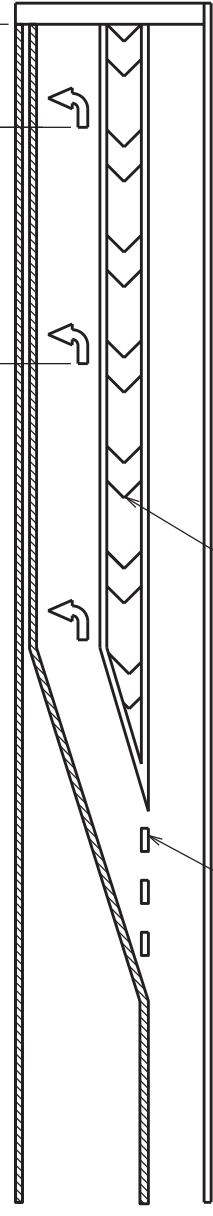
Single turn lane



Dual turn lane



Offset turn lane



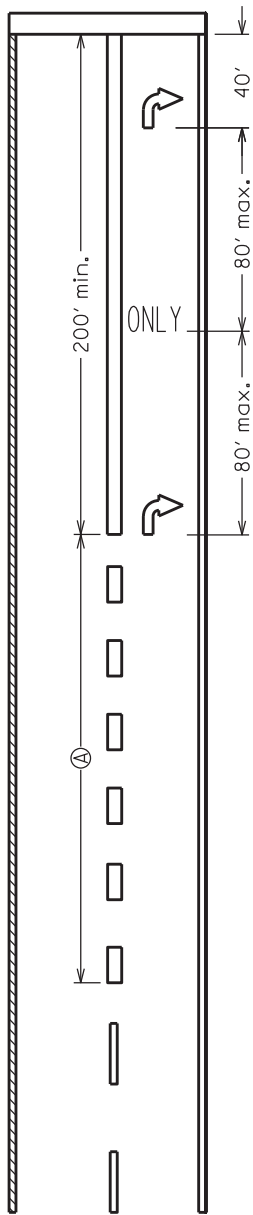
Chevron markings shall be used for offsets greater than 6'. Follow crosshatching guidelines shown in Sepia 046 for dimensions and spacing.

COUNTY OF	ITEM NO.	SHEET NO.

LANE_DROP_MARKINGS_NOTES:

IN SITUATIONS WHERE A THROUGH LANE BECOMES A MANDATORY TURN LANE, THE FOLLOWING GUIDELINES APPLY:
 -A WIDE SOLID LINE SHOULD EXTEND BACK A MINIMUM OF 200' FROM THE STOP BAR.
 -A WIDE, DOTTED LINE SHALL EXTEND FROM THE END OF THE SOLID LINE BACK A MINIMUM OF THE DISTANCE SHOWN IN THE CHART (A). THESE LINES SHALL BE 3' LONG, WITH A SPACE OF 9' BETWEEN LINES.
 -ALTERNATING ARROWS AND "ONLY" WORD MESSAGES SHALL BE USED, WITH THE FIRST AND LAST MARKING BEING AN ARROW.
 -ALTERNATING ARROWS AND "ONLY" WORD MESSAGES SHOULD BE SPACED EVENLY, FOLLOWING GUIDELINES FOR ARROW SPACING. THESE SYMBOLS SHALL EXTEND BACK AT LEAST TO THE END OF THE SOLID STRIPE, BUT MAY BE EXTENDED BACK FARTHER IF ADDITIONAL GUIDANCE IS NEEDED.

Lane_drop_scenario



Speed Limit	(A)
25	125'
35	245'
45	540'
55	660'
65	780'

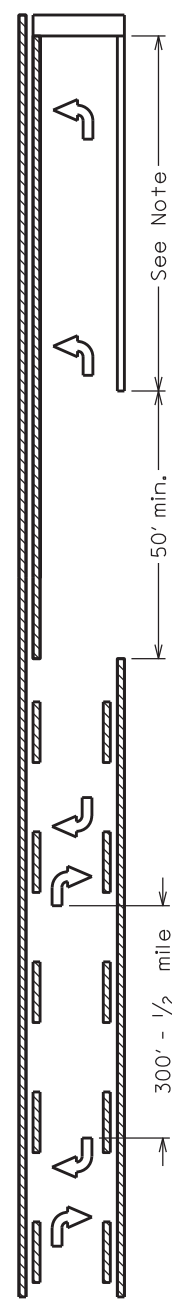
WIDE DOTTED LANE LINE DIMENSIONS:

Dotted lane lines shall be twice the normal width in lane drop scenarios.

TWO-WAY LEFT-TURN LANE NOTES:

IN A TWO-WAY LEFT-TURN LANE, THE FOLLOWING GUIDELINES APPLY:
 -ONE SET OF ARROWS SHOULD BE PLACED AT OR NEAR THE BEGINNING OF THE TWO-WAY LEFT-TURN LANE.
 -ADDITIONAL SETS OF ARROWS SHOULD BE PLACED THROUGHOUT THE TWO-WAY LEFT-TURN LANE IF LEFT TURN MOVEMENTS ARE EXPECTED. THEY SHOULD BE SPACED NO LESS THAN 300' AND NO MORE THAN 1/2 MILE.
 -THE SPACING BETWEEN EACH ARROW IN A SINGLE ARROW SET SHOULD BE 16 FEET.
 -TWO-WAY LEFT-TURN LANES SHALL TERMINATE IN A DEDICATED LEFT-TURN LANE AT A SIGNALIZED INTERSECTION. THEY MAY TERMINATE IN A DEDICATED LEFT-TURN LANE AT OTHER LOCATIONS IF DEEMED NECESSARY.
 -CONTACT TRAFFIC ENGINEER FOR RECOMMENDED DISTANCE FOR LEFT TURN STORAGE AT INTERSECTIONS.
 -REFER TO THE TRAFFIC OPERATIONS GUIDANCE MANUAL SECTION TO-504 FOR MORE GUIDANCE ON TWO-WAY LEFT-TURN LANES.

Two-way_left-turn_lane



TWTL_ARROW_DETAILS:

DRAWING NOT TO SCALE

LEGEND

MARKINGS	WHITE
	YELLOW

KENTUCKY DEPARTMENT OF HIGHWAYS

TYPICAL MARKINGS FOR TURN LANES

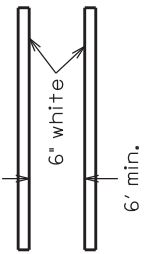
SUBMITTED: *R. [Signature]* DATE: 11-30-18

043

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CROSSWALK DETAIL

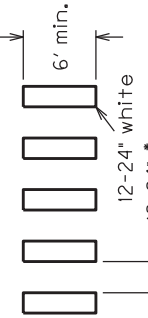
"TRANSVERSE"



TRANSVERSE LINES SHOULD EXTEND ACROSS THE FULL WIDTH OF THE APPROACH PAVEMENT.

TRANSVERSE LINES MAY BE COMBINED WITH LONGITUDINAL LINES TO FORM A "LADDER-STYLE" CROSSWALK.

"LONGITUDINAL"

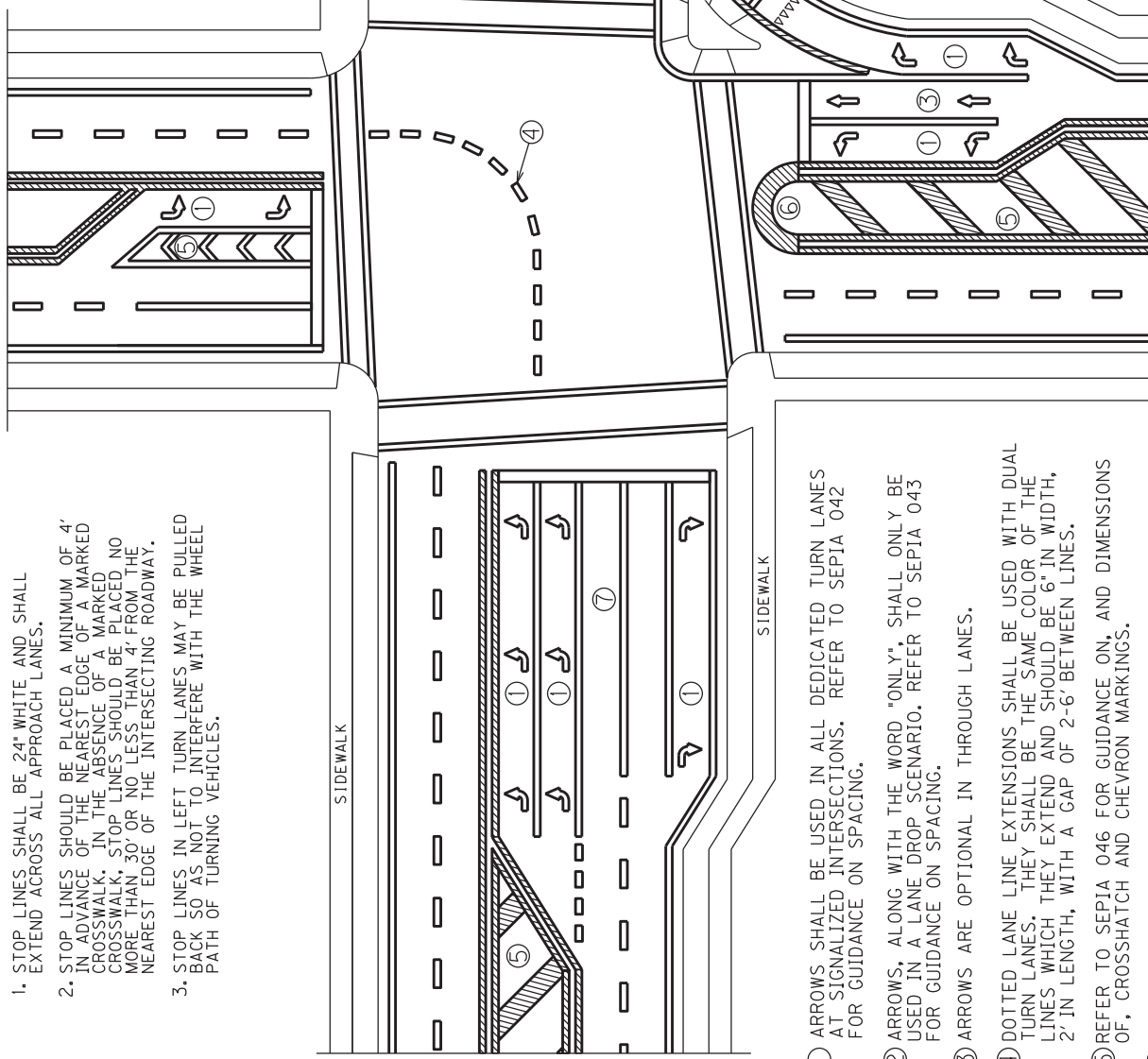


CROSSWALK BARS SHALL BE INSTALLED PARALLEL WITH ONCOMING TRAFFIC.

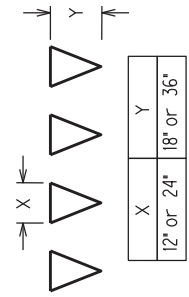
*SPACING OF BARS SHOULD BE MODIFIED SO AS TO AVOID TIRE PATHS OF APPROACHING VEHICLES.

STOP LINE NOTES

1. STOP LINES SHALL BE 24" WHITE AND SHALL EXTEND ACROSS ALL APPROACH LANES.
2. STOP LINES SHOULD BE PLACED A MINIMUM OF 4' IN ADVANCE OF THE NEAREST EDGE OF A MARKED CROSSWALK. IN THE ABSENCE OF A MARKED CROSSWALK, STOP LINES SHOULD BE PLACED NO MORE THAN 30' OR NO LESS THAN 4' FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY.
3. STOP LINES IN LEFT TURN LANES MAY BE PULLED BACK SO AS NOT TO INTERFERE WITH THE WHEEL PATH OF TURNING VEHICLES.



YIELD LINE DETAIL



NOTE: SPACING BETWEEN TRIANGLES SHOULD BE 3-12"

DRAWING NOT TO SCALE

LEGEND	
MARKINGS	WHITE
	YELLOW

- ① ARROWS SHALL BE USED IN ALL DEDICATED TURN LANES AT SIGNALIZED INTERSECTIONS. REFER TO SEPIA 042 FOR GUIDANCE ON SPACING.
- ② ARROWS, ALONG WITH THE WORD "ONLY", SHALL ONLY BE USED IN A LANE DROP SCENARIO. REFER TO SEPIA 043 FOR GUIDANCE ON SPACING.
- ③ ARROWS ARE OPTIONAL IN THROUGH LANES.
- ④ DOTTED LANE LINE EXTENSIONS SHALL BE USED WITH DUAL TURN LANES. THEY SHALL BE THE SAME COLOR OF THE LINES WHICH THEY EXTEND AND SHOULD BE 6" IN WIDTH, 2-IN LENGTH, WITH A GAP OF 2-6' BETWEEN LINES.
- ⑤ REFER TO SEPIA 046 FOR GUIDANCE ON, AND DIMENSIONS OF, CROSSHATCH AND CHEVRON MARKINGS.
- ⑥ REFER TO SEPIA 046 FOR GUIDANCE ON MEDIAN NOSES.
- ⑦ SOLID LINE SEPARATING THROUGH LANES SHOULD EXTEND BACK A MINIMUM OF 50' FROM THE STOP BAR.

*NOTE: OTHER THAN LONGITUDINAL STRIPING, ALL MARKINGS SHOWN ON THIS DRAWING SHOULD BE THERMOPLASTIC.

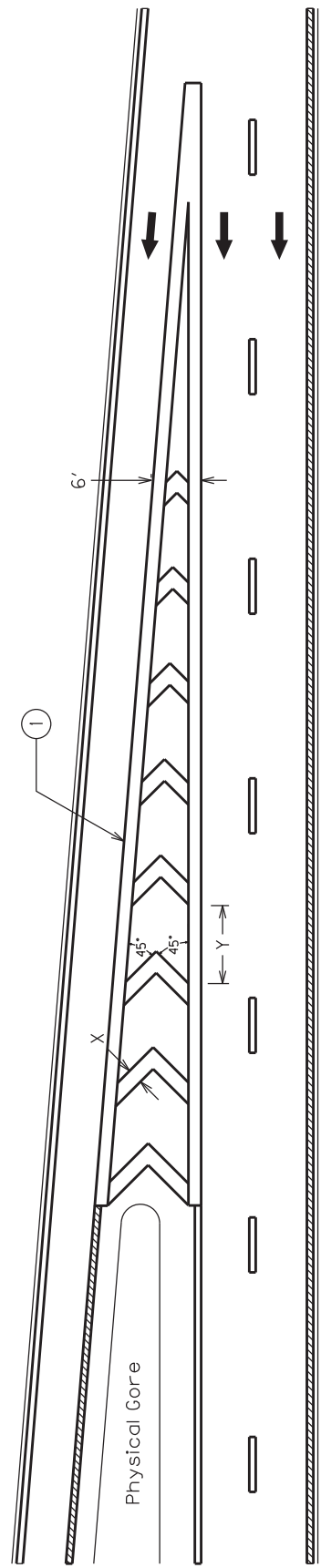
KENTUCKY
DEPARTMENT OF HIGHWAYS

TYPICAL MARKINGS
AT SIGNALIZED
INTERSECTIONS

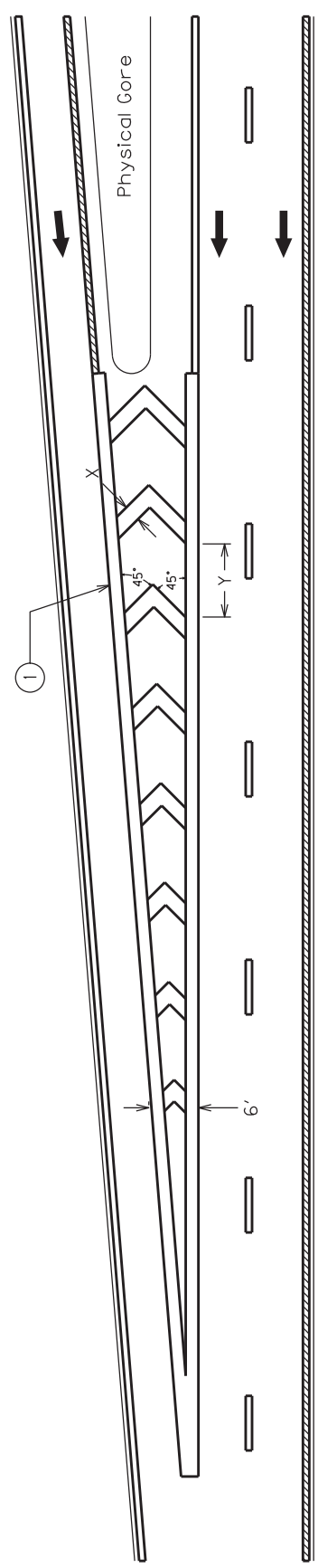
SUBMITTED *R. [Signature]*
DATE 11-30-18
049

COUNTY OF	SHEET NO.
ITEM NO.	

TYPICAL EXIT RAMP GORE MARKINGS



TYPICAL ENTRANCE RAMP GORE MARKINGS



- 1 12" SOLID WHITE LINE TO BE INSTALLED AS SHOWN. THIS LINE SHOULD TERMINATE AT THE PHYSICAL GORE.
- 2 CHEVRON MARKINGS SHOULD BEGIN WHEN THE 12" WHITE CHANNELIZING LINES ARE APPROXIMATELY 6' APART.
- 3 A MINIMUM OF THREE CHEVRON MARKINGS SHOULD BE USED. IF AT LEAST THREE MARKINGS WILL NOT FIT INTO THE GORE AREA, NO CHEVRON MARKINGS SHOULD BE PLACED.
- 4 THE MINIMUM CHEVRON MARKING WIDTH (X) SHOULD BE 2'. THE MINIMUM SPACING BETWEEN CHEVRON MARKINGS (Y) SHOULD BE 20". THESE DIMENSIONS MAY BE INCREASED. FOR EACH ADDITIONAL 1' OF WIDTH (X), INCREASE THE SPACING (Y) BY 10'.
- 5 GORE AREA CHEVRON MARKINGS SHALL BE THERMOPLASTIC.

DRAWING NOT TO SCALE

LEGEND	
MARKINGS	WHITE
	YELLOW

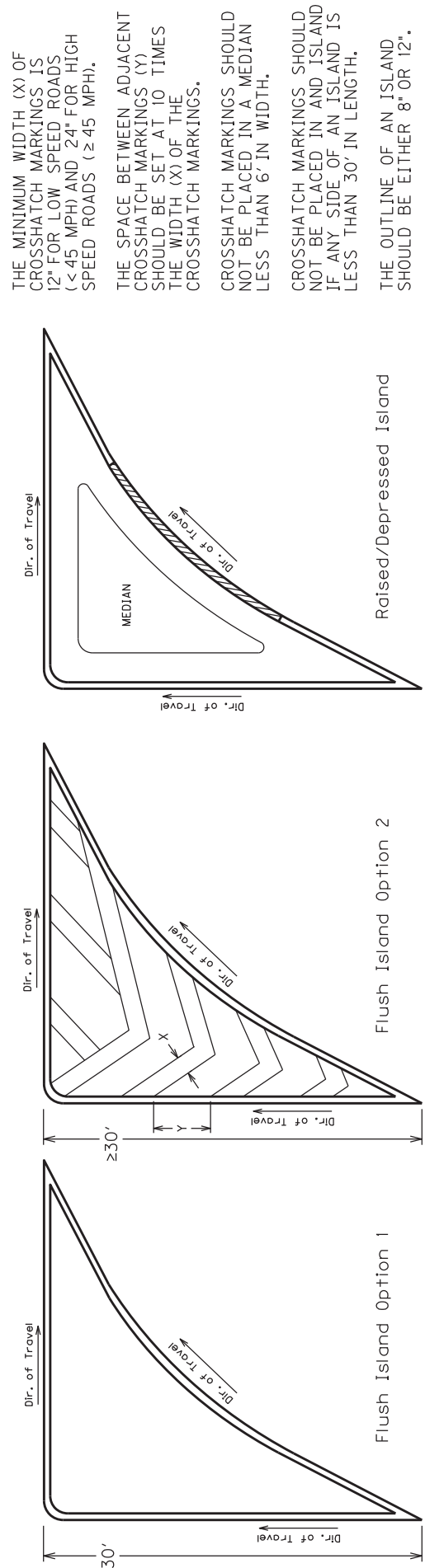
KENTUCKY
DEPARTMENT OF HIGHWAYS

TYPICAL MARKINGS
FOR GORE AREAS

SUBMITTED: *R. [Signature]* 11-30-18 DATE
045

COUNTY OF	ITEM NO.	SHEET NO.

TYPICAL RIGHT-TURN CHANNELIZING ISLAND MARKINGS



GENERAL NOTES

THE MINIMUM WIDTH (X) OF CROSSHATCH MARKINGS IS 12" FOR LOW SPEED ROADS (<45 MPH) AND 24" FOR HIGH SPEED ROADS (≥ 45 MPH).

THE SPACE BETWEEN ADJACENT CROSSHATCH MARKINGS (Y) SHOULD BE SET AT 10 TIMES THE WIDTH (X) OF THE CROSSHATCH MARKINGS.

CROSSHATCH MARKINGS SHOULD NOT BE PLACED IN A MEDIAN LESS THAN 6' IN WIDTH.

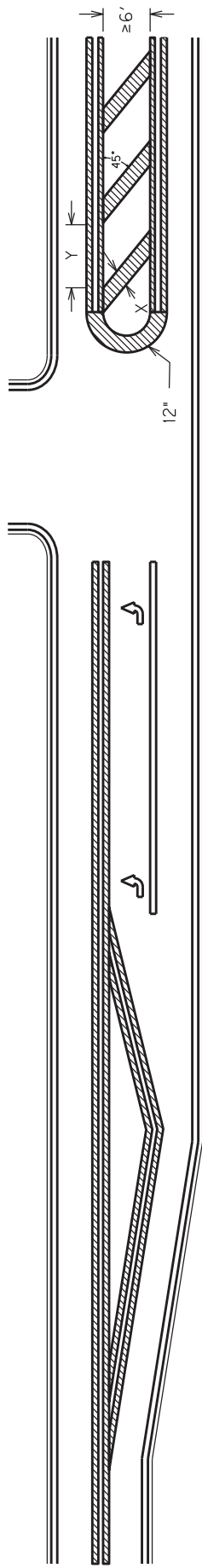
CROSSHATCH MARKINGS SHOULD NOT BE PLACED IN AND ISLAND IF ANY SIDE OF AN ISLAND IS LESS THAN 30' IN LENGTH.

THE OUTLINE OF AN ISLAND SHOULD BE EITHER 8" OR 12".

MEDIAN NOSES MAY BE EITHER A SINGLE 12" LINE OR A SOLID SEMI-CIRCLE.

CROSSHATCH AND CHEVRON MARKINGS SHOULD BE THERMOPLASTIC.

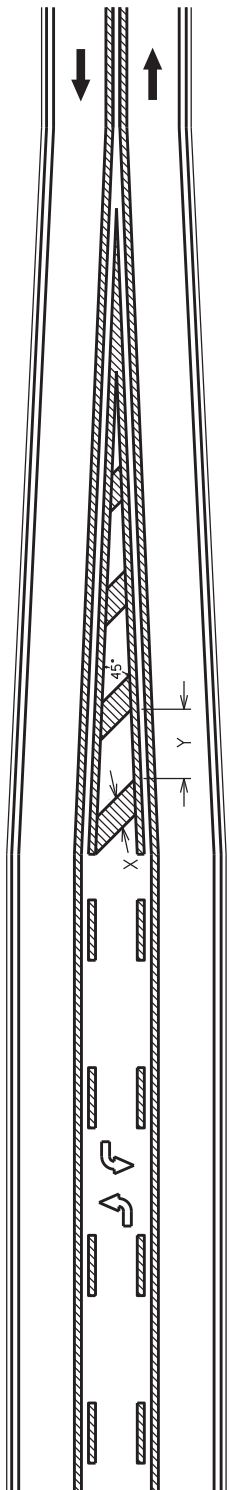
TYPICAL LEFT-TURN LANE / FLUSH MEDIAN CROSSHATCH MARKINGS



LEGEND

MARKINGS	WHITE
	YELLOW

TYPICAL TWO-WAY LEFT-TURN LANE (TWLTL) TRANSITION MARKINGS



Note: Crosshatch markings shall be placed in the transition area of a TWLTL.

DRAWING NOT TO SCALE

KENTUCKY
DEPARTMENT OF HIGHWAYS
TYPICAL MARKINGS FOR ISLANDS AND MEDIANS

SUBMITTED: *R. [Signature]* DATE: 11-30-18
046

PART III

EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

FHWA-1273 -- Revised May 1, 2012

**REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS**

- I. General
- II. Nondiscrimination
- III. Nonsegregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Compliance with Governmentwide Suspension and Debarment Requirements
- XI. Certification Regarding Use of Contract Funds for Lobbying

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. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 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.

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (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).

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

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.

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.

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). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

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 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal 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).

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

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.

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 (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 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 35 and 29 CFR 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.

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, 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 who 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.

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, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure 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. 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, 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, 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 there under. 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, 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 and 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. Assurance Required by 49 CFR 26.13(b):

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor 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 contracting agency deems appropriate.

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 \$10,000 or more.

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, 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). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

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

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, Employment Standards Administration, 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 Wage and Hour Administrator for determination. The Wage and Hour 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

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

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 at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor 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 §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, 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 Regulations, 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 section 1001 of title 18 and section 231 of title 31 of the United States Code.

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

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. 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.

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.

9. Disputes concerning labor standards. 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.

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

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.

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 of \$10 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.

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.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (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.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

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" 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:

- (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.

2. 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. 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.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

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 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.

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 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).

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 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 1, 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

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.
2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

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.

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.

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.

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.

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 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee 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 grantee or subgrantee 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.

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.

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. 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 Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

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. 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) 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;
- (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; 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.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. 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)

a. By signing and submitting this proposal, the prospective lower tier 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.

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 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 grantee or subgrantee 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 grantee or subgrantee 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.

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.

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 Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

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.

* * * * *

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 is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

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 20).

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.

**ATTACHMENT A - EMPLOYMENT AND MATERIALS
PREFERENCE FOR APPALACHIAN DEVELOPMENT
HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS
ROAD CONTRACTS**

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, 3 Fountain Place, Frankfort, Kentucky 40601; telephone (502) 564-7954.

General Decision Number: KY190038 01/04/2019 KY38

Superseded General Decision Number: KY20180100

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: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.60 for calendar year 2019 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, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.60 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 calendar year 2019. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/04/2019

BRIN0004-003 06/01/2017

BRECKENRIDGE COUNTY

Rates	Fringes
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BRICKLAYER.....\$ 26.80 12.38

BRKY0001-005 06/01/2017

BULLITT, CARROLL, GRAYSON, HARDIN, HENRY, JEFFERSON, LARUE,
MARION, MEADE, NELSON, OLDHAM, SHELBY, SPENCER, & TRIMBLE
COUNTIES:

	Rates	Fringes
BRICKLAYER.....	\$ 26.80	12.38

BRKY0002-006 06/01/2017

BRACKEN, GALLATIN, GRANT, MASON & ROBERTSON COUNTIES:

	Rates	Fringes
BRICKLAYER.....	\$ 27.81	13.01

BRKY0007-004 06/01/2017

BOYD, CARTER, ELLIOT, FLEMING, GREENUP, LEWIS & ROWAN COUNTIES:

	Rates	Fringes
BRICKLAYER.....	\$ 32.98	19.02

BRKY0017-004 06/01/2017

ANDERSON, BATH, BOURBON, BOYLE, CLARK, FAYETTE, FRANKLIN,
HARRISON, JESSAMINE, MADISON, MERCER, MONTGOMERY, NICHOLAS,
OWEN, SCOTT, WASHINGTON & WOODFORD COUNTIES:

	Rates	Fringes
BRICKLAYER.....	\$ 26.47	12.76

CARP0064-001 05/01/2015

	Rates	Fringes
CARPENTER.....	\$ 27.50	16.06
Diver.....	\$ 41.63	16.06
PILEDRIVERMAN.....	\$ 27.75	16.06

ELEC0212-008 06/04/2018

BRACKEN, GALLATIN and GRANT COUNTIES

	Rates	Fringes
ELECTRICIAN.....	\$ 28.39	18.98

ELEC0212-014 11/27/2017

BRACKEN, GALLATIN & GRANT COUNTIES:

	Rates	Fringes
Sound & Communication Technician.....	\$ 23.55	11.26

ELEC0317-012 06/01/2018

BOYD, CARTER, ELLIOT & ROWAN COUNTIES:

	Rates	Fringes
ELECTRICIAN (Wiremen) Cable Splicer.....	\$ 32.68	18.13
Electrician.....	\$ 33.75	20.03

ELEC0369-007 05/30/2018

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.....	\$ 31.66	17.01

ELEC0575-002 05/28/2018

FLEMING, GREENUP, LEWIS & MASON COUNTIES:

	Rates	Fringes
ELECTRICIAN.....	\$ 32.45	16.43

ENGI0181-018 07/01/2017

	Rates	Fringes
POWER EQUIPMENT OPERATOR GROUP 1.....	\$ 31.95	15.15
GROUP 2.....	\$ 29.09	15.15
GROUP 3.....	\$ 29.54	15.15
GROUP 4.....	\$ 28.77	15.15

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 06/01/2018

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.....	\$ 26.76	21.20
Structural.....	\$ 28.17	21.20

 IRON0070-006 06/01/2018

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.....	\$ 28.79	22.50

 IRON0769-007 06/01/2018

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, Pecksville, 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)

	Rates	Fringes
IRONWORKER		
ZONE 1.....	\$ 31.67	25.27
ZONE 2.....	\$ 31.67	25.27
ZONE 3.....	\$ 31.67	25.27

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 07/01/2018

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.....	\$ 23.07	14.21
GROUP 2.....	\$ 23.32	14.21
GROUP 3.....	\$ 23.37	14.21
GROUP 4.....	\$ 23.97	14.21

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

LABO0189-008 07/01/2018

ANDERSON, BULLITT, CARROLL, HARDIN, HENRY, JEFFERSON, LARUE,
MARION, MEADE, NELSON, OLDHAM, SHELBY, SPENCER, TRIMBLE &
WASHINGTON COUNTIES

	Rates	Fringes
Laborers:		
GROUP 1.....	\$ 23.07	14.21
GROUP 2.....	\$ 23.32	14.21
GROUP 3.....	\$ 23.37	14.21
GROUP 4.....	\$ 23.97	14.21

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

LABO0189-009 07/01/2018

BRECKINRIDGE & GRAYSON COUNTIES

	Rates	Fringes
Laborers:		
GROUP 1.....	\$ 23.07	14.21
GROUP 2.....	\$ 23.32	14.21
GROUP 3.....	\$ 23.37	14.21
GROUP 4.....	\$ 23.97	14.21

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

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 12/01/2018

BOYD, CARTER, ELLIOTT, GREENUP, LEWIS and ROWAN COUNTIES

Rates	Fringes
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Painters:

Bridges; Locks; Dams; Tension Towers & Energized Substations.....	\$ 33.33	18.50
Power Generating Facilities.	\$ 30.09	18.50

PLUM0248-003 06/01/2018

BOYD, CARTER, ELLIOTT, GREENUP, LEWIS & ROWAN COUNTIES:

Rates	Fringes
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Plumber and Steamfitter.....	\$ 36.00	20.23
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PLUM0392-007 06/01/2018

BRACKEN, CARROLL (Eastern Half), GALLATIN, GRANT, MASON, OWEN & ROBERTSON COUNTIES:

Rates	Fringes
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Plumbers and Pipefitters.....	\$ 32.01	19.67
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PLUM0502-003 08/01/2018

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
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PLUMBER.....	\$ 34.62	20.78
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SUKY2010-160 10/08/2001

Rates	Fringes
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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

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 www.dol.gov/whd/govcontracts.

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)).

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.

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 Regional Office for the area in which the survey was conducted because those Regional Offices have 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 DECISION

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 after an employee works eight (8) hours a day or forty (40) hours a week, whichever gives the employee the greater wages. At least time and one-half the base rate is required for all overtime. A laborer, workman or mechanic and an employer may enter into a written agreement or a collective bargaining agreement to work more than eight (8) hours a calendar day but not more than ten (10) hours a calendar day for the straight time hourly rate. 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
11.2%	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 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 shall list the name, address and telephone number of the subcontractor; employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed. The notification shall be mailed to:

**Evelyn Teague, Regional Director
Office of Federal Contract Compliance Programs
61 Forsyth Street, SW, Suite 7B75
Atlanta, Georgia 30303-8609**

4. As used in this Notice, and in the contract resulting from this solicitation, the "**covered area**" is Jefferson County.

PART IV
INSURANCE

INSURANCE

The Contractor shall procure and maintain the following insurance in addition to the insurance required by law:

- 1) Commercial General Liability-Occurrence form – not less than \$2,000,000 General aggregate, \$2,000,000 Products & Completed Aggregate, \$1,000,000 Personal & Advertising, \$1,000,000 each occurrence.
- 2) Automobile Liability- \$1,000,000 per accident
- 3) Employers Liability:
 - a) \$100,000 Each Accident Bodily Injury
 - b) \$500,000 Policy limit Bodily Injury by Disease
 - c) \$100,000 Each Employee Bodily Injury by Disease
- 4) The insurance required above must be evidenced by a Certificate of Insurance and this Certificate of Insurance must contain one of the following statements:
 - a) "policy contains no deductible clauses."
 - b) "policy contains _____ (amount) deductible property damage clause but company will pay claim and collect the deductible from the insured."
- 5) **KENTUCKY WORKMEN'S COMPENSATION INSURANCE.** The contractor shall furnish evidence of coverage of all his employees or give evidence of self-insurance by submitting a copy of a certificate issued by the Workmen's Compensation Board.

The cost of insurance is incidental to all contract items. All subcontractors must meet the same minimum insurance requirements.

PART V
BID ITEMS

PROPOSAL BID ITEMS

194101

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Report Date 1/28/19

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00001		DGA BASE	288.00	TON		\$	
0020	00212		CL2 ASPH BASE 1.00D PG64-22	503.00	TON		\$	
0030	00356		ASPHALT MATERIAL FOR TACK	1.50	TON		\$	
0040	02073		JPC PAVEMENT-9 IN	118.00	SQYD		\$	
0050	02101		CEM CONC ENT PAVEMENT-8 IN	203.00	SQYD		\$	
0060	20550ND		SAWCUT PAVEMENT	1,002.00	LF		\$	
0070	21289ED		LONGITUDINAL EDGE KEY	795.00	LF		\$	
0080	24685EC		CL2 ASPH SURF 0.38A PG64-22	59.00	TON		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0090	00462		CULVERT PIPE-18 IN	24.00	LF		\$	
0100	00524		STORM SEWER PIPE-24 IN	8.00	LF		\$	
0110	01310		REMOVE PIPE	2.00	LF		\$	
0120	01490		DROP BOX INLET TYPE 1	1.00	EACH		\$	
0130	01550		DROP BOX INLET TYPE 12A	39.00	LF		\$	
0140	01585		REMOVE DROP BOX INLET	1.00	EACH		\$	
0150	01811		STANDARD CURB AND GUTTER MOD	428.00	LF		\$	
0160	01811		STANDARD CURB AND GUTTER MOD (9 INCH)	207.00	LF		\$	
0170	01812		REMOVE CURB AND GUTTER	504.00	LF		\$	
0180	01830		STANDARD INTEGRAL CURB	17.00	LF		\$	
0190	01875		STANDARD HEADER CURB	135.00	LF		\$	
0200	01987		DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	5.00	EACH		\$	
0210	02159		TEMP DITCH	396.00	LF		\$	
0220	02160		CLEAN TEMP DITCH	198.00	LF		\$	
0230	02200		ROADWAY EXCAVATION	516.00	CUYD		\$	
0240	02351		GUARDRAIL-STEEL W BEAM-S FACE	87.50	LF		\$	
0250	02363		GUARDRAIL CONNECTOR TO BRIDGE END TY A	1.00	EACH		\$	
0260	02367		GUARDRAIL END TREATMENT TYPE 1	1.00	EACH		\$	
0270	02381		REMOVE GUARDRAIL	144.00	LF		\$	
0280	02562		TEMPORARY SIGNS	327.00	SQFT		\$	
0290	02650		MAINTAIN & CONTROL TRAFFIC (JEFFERSON CO - KY 61 @ GRADE LANE)	1.00	LS		\$	
0300	02650		MAINTAIN & CONTROL TRAFFIC (JEFFERSON CO-US 31W @ PENDELTON RD)	1.00	LS		\$	
0310	02650		MAINTAIN & CONTROL TRAFFIC (JEFFERSON CO - KY 1065 @ KY 1865)	1.00	LS		\$	
0320	02671		PORTABLE CHANGEABLE MESSAGE SIGN	4.00	EACH		\$	
0330	02701		TEMP SILT FENCE	546.00	LF		\$	
0340	02720		SIDEWALK-4 IN CONCRETE	301.00	SQYD		\$	
0350	02721		REMOVE CONCRETE SIDEWALK	166.00	SQYD		\$	
0360	02726		STAKING (JEFFERSON CO - KY 1065 @ KY 1865)	1.00	LS		\$	

PROPOSAL BID ITEMS

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Report Date 1/28/19

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0370	02726		STAKING (JEFFERSON CO - US 31W @ PENDELTON RD)	1.00	LS		\$	
0380	02726		STAKING (JEFFERSON CO - KY 61 @ GRADE LANE)	1.00	LS		\$	
0390	05950		EROSION CONTROL BLANKET	666.00	SQYD		\$	
0400	05952		TEMP MULCH	1,526.00	SQYD		\$	
0410	05953		TEMP SEEDING AND PROTECTION	1,145.00	SQYD		\$	
0420	05963		INITIAL FERTILIZER	.04	TON		\$	
0430	05964		MAINTENANCE FERTILIZER	.07	TON		\$	
0440	05985		SEEDING AND PROTECTION	668.00	SQYD		\$	
0450	05990		SODDING	49.00	SQYD		\$	
0460	05992		AGRICULTURAL LIMESTONE	.80	TON		\$	
0470	06406		SBM ALUM SHEET SIGNS .080 IN	188.00	SQFT		\$	
0480	06407		SBM ALUM SHEET SIGNS .125 IN	155.00	SQFT		\$	
0490	06410		STEEL POST TYPE 1	376.00	LF		\$	
0500	06490		CLASS A CONCRETE FOR SIGNS	3.00	CUYD		\$	
0510	06514		PAVE STRIPING-PERM PAINT-4 IN	6,508.00	LF		\$	
0520	06516		PAVE STRIPING-PERM PAINT-8 IN	462.00	LF		\$	
0530	06540		PAVE STRIPING-THERMO-4 IN W	118.00	LF		\$	
0540	06544		PAVE STRIPING-THERMO-8 IN W	312.00	LF		\$	
0550	06565		PAVE MARKING-THERMO X-WALK-6 IN	1,429.00	LF		\$	
0560	06568		PAVE MARKING-THERMO STOP BAR-24IN	280.00	LF		\$	
0570	06569		PAVE MARKING-THERMO CROSS-HATCH	1,545.00	SQFT		\$	
0580	06574		PAVE MARKING-THERMO CURV ARROW	21.00	EACH		\$	
0590	06576		PAVE MARKING-THERMO ONLY	6.00	EACH		\$	
0600	06598		PAVEMENT MARKING REMOVAL	948.00	SQFT		\$	
0610	08100		CONCRETE-CLASS A	6.00	CUYD		\$	
0620	08104		CONCRETE-CLASS AA	4.00	CUYD		\$	
0630	08150		STEEL REINFORCEMENT	55.00	LB		\$	
0640	21134ND		REMOVE-STORE AND REINSTALL SIGN	2.00	EACH		\$	
0650	21373ND		REMOVE SIGN	21.00	EACH		\$	
0660	21596ND		GMSS TYPE D	12.00	EACH		\$	
0670	21596ND		GMSS TYPE D SURFACE MOUNT	3.00	EACH		\$	
0680	21819NN		FITTINGS	1.00	EACH		\$	
0690	22664EN		WATER BLASTING EXISTING STRIPE	261.00	LF		\$	
0700	22692NS714		PAVEMENT MARKING-THERMO LETTERS	14.00	EACH		\$	
0710	23158ES505		DETECTABLE WARNINGS	254.00	SQFT		\$	
0720	24631EC		BARCODE SIGN INVENTORY	74.00	EACH		\$	
0730	24683ED		PAVE MARKING-THERMO DOTTED LANE EXTEN (6 INCH)	27.00	LF		\$	
0740	24899EC		PAVE MARKING-THERMO ELONG ROUTE SHIELD	2.00	EACH		\$	

Section: 0003 - SIGNALIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0750	04701		POLE 40 FT MTG HT	1.00	EACH		\$	

PROPOSAL BID ITEMS

194101

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Report Date 1/28/19

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0760	04723		BRACKET 10 FT	1.00	EACH		\$	
0770	04740		POLE BASE	1.00	EACH		\$	
0780	04750		TRANSFORMER BASE	1.00	EACH		\$	
0790	04780		FUSED CONNECTOR KIT	8.00	EACH		\$	
0800	04792		CONDUIT-1 IN	60.00	LF		\$	
0810	04795		CONDUIT-2 IN	690.00	LF		\$	
0820	04811		ELECTRICAL JUNCTION BOX TYPE B	7.00	EACH		\$	
0830	04820		TRENCHING AND BACKFILLING	620.00	LF		\$	
0840	04830		LOOP WIRE	2,950.00	LF		\$	
0850	04832		WIRE-NO. 12	800.00	LF		\$	
0860	04833		WIRE-NO. 8	2,000.00	LF		\$	
0870	04844		CABLE-NO. 14/5C	6,300.00	LF		\$	
0880	04850		CABLE-NO. 14/1 PAIR	1,750.00	LF		\$	
0890	04884		ANCHOR	4.00	EACH		\$	
0900	04885		MESSENGER-10800 LB	976.00	LF		\$	
0910	04895		LOOP SAW SLOT AND FILL	1,800.00	LF		\$	
0920	04931		INSTALL CONTROLLER TYPE 170	1.00	EACH		\$	
0930	04932		INSTALL STEEL STRAIN POLE	7.00	EACH		\$	
0940	04940		REMOVE LIGHTING	1.00	LS		\$	
0950	06472		INSTALL SPAN MOUNTED SIGN	4.00	EACH		\$	
0960	20093NS835		INSTALL PEDESTRIAN HEAD-LED	8.00	EACH		\$	
0970	20094ES835		TEMP RELOCATION OF SIGNAL HEAD	15.00	EACH		\$	
0980	20188NS835		INSTALL LED SIGNAL-3 SECTION	20.00	EACH		\$	
0990	20266ES835		INSTALL LED SIGNAL- 4 SECTION	3.00	EACH		\$	
1000	20390NS835		INSTALL COORDINATING UNIT	1.00	EACH		\$	
1010	20391NS835		ELECTRICAL JUNCTION BOX TYPE A	2.00	EACH		\$	
1020	21543EN		BORE AND JACK CONDUIT	380.00	LF		\$	
1030	21743NN		INSTALL PEDESTRIAN DETECTOR	10.00	EACH		\$	
1040	23157EN		TRAFFIC SIGNAL POLE BASE	30.90	CUYD		\$	
1050	23222EC		INSTALL SIGNAL PEDESTAL	5.00	EACH		\$	
1060	23235EC		INSTALL PEDESTAL POST	1.00	EACH		\$	
1070	24589ED		LED LUMINAIRE	4.00	EACH		\$	
1080	24900EC		PVC CONDUIT-1 1/4 IN-SCHEDULE 80	220.00	LF		\$	
1090	24901EC		PVC CONDUIT-2 IN-SCHEDULE 80	110.00	LF		\$	
1100	24955ED		REMOVE SIGNAL EQUIPMENT	1.00	EACH		\$	

Section: 0004 - WATERLINE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1110	14081		W SERVICE RELOCATE	1.00	EACH		\$	

Section: 0005 - DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1120	02569		DEMOBILIZATION	1.00	LS		\$	