



CALL NO. 103

CONTRACT ID. 171229

WARREN COUNTY

FED/STATE PROJECT NUMBER NHPP 0031 (012)

DESCRIPTION KY 446

WORK TYPE ASPHALT PAVEMENT & ROADWAY REHAB

PRIMARY COMPLETION DATE 11/30/2017

LETTING DATE: July 28,2017

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN DAYLIGHT TIME July 28,2017. Bids will be publicly announced at 10:00 AM EASTERN DAYLIGHT TIME.

NO PLANS ASSOCIATED WITH THIS PROJECT.

DBE CERTIFICATION REQUIRED - 12%

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

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PART I
SCOPE OF WORK

ADMINISTRATIVE DISTRICT - 03

CONTRACT ID - 171229

NHPP 0031 (012)

COUNTY - WARREN

PCN - DE11404461729

NHPP 0031 (012)

KY 446 (MP 0.000) PAVEMENT REHABILITATION ON KY 446 FROM US 31W TO I-65 IN WARREN COUNTY (MP 0.970), A DISTANCE OF 0.97 MILES.ASPHALT PAVEMENT & ROADWAY REHAB SYP NO. 03-02081.00.
GEOGRAPHIC COORDINATES LATITUDE 37:00:31.00 LONGITUDE 86:22:36.00

COMPLETION DATE(S):

COMPLETED BY 11/30/2017

APPLIES TO ENTIRE CONTRACT

CONTRACT NOTES

PROPOSAL ADDENDA

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

BID SUBMITTAL

Bidder must use the Department's Expedite Bidding Program available on the Internet web site of the Department of Highways, Division of Construction Procurement. (www.transportation.ky.gov/construction-procurement)

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.

SPECIAL NOTE FOR COMPOSITE OFFSET BLOCKS

Contrary to the Standard Drawings (2016 edition) the Cabinet will allow 6" composite offset blocks in lieu of wooden offset blocks, except as specified on proprietary end treatments and crash cushions. The composite blocks shall be selected from the Cabinet's List of Approved Materials.

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.

06/01/16

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.

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.

DGA BASE FOR SHOULDERS

Unless otherwise noted, the Department estimates the rate of application for DGA Base for Shoulders to be 115 lbs/sy per inch of depth. The Department will not measure necessary grading and/or shaping of existing shoulders prior to placing of DGA Base, but shall be incidental to the Contract unit price per ton for DGA Base.

Accept payment at the Contract unit price per ton as full compensation for all labor, materials, equipment, and incidentals for grading and/or shaping of existing shoulders and furnishing, placing, and compacting the DGA Base.

INCIDENTAL SURFACING

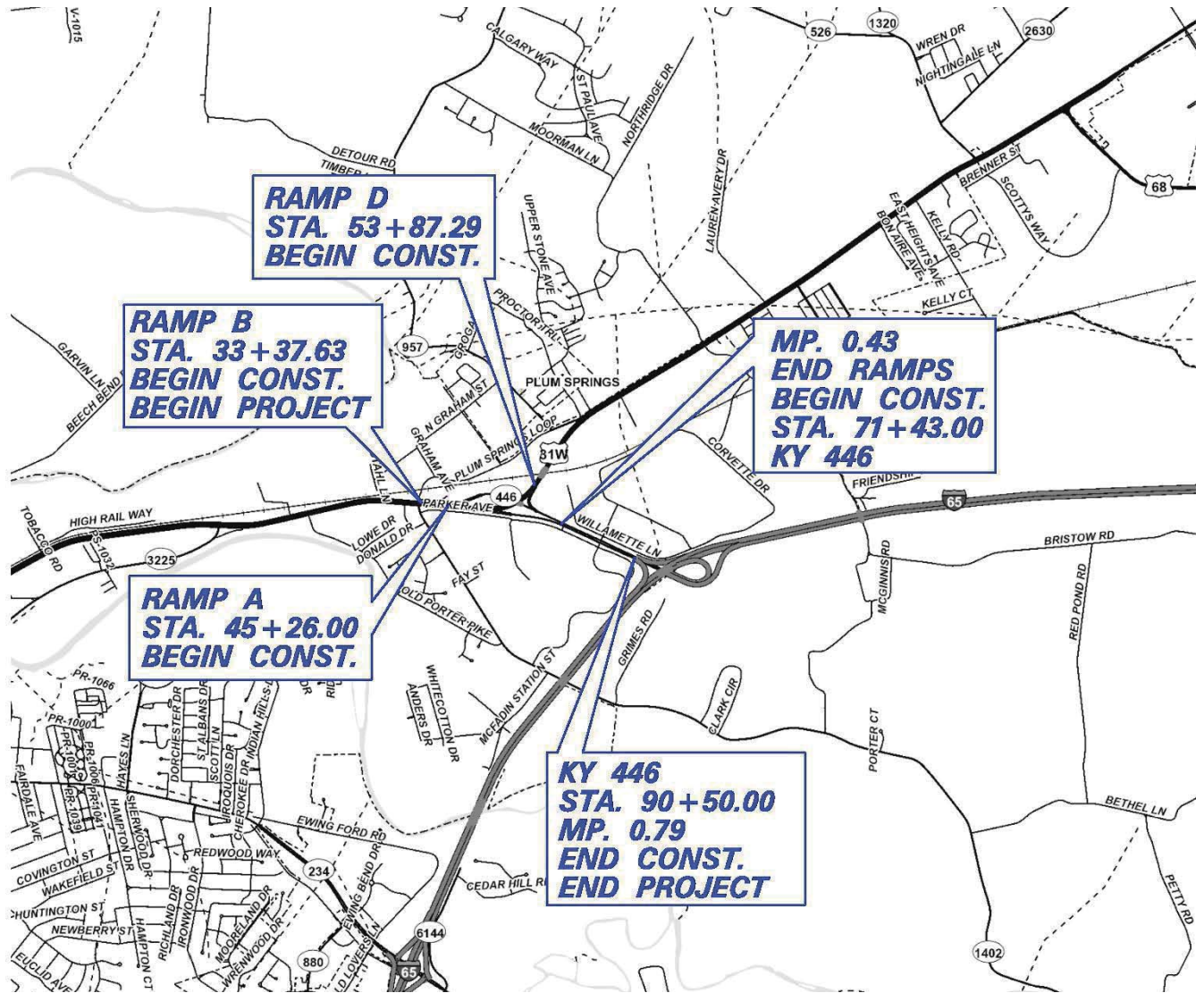
The Department has included in the quantities of asphalt mixtures established in the proposal estimated quantities required for resurfacing or surfacing mailbox turnouts, farm field entrances, residential and commercial entrances, curve widening, ramp gores and tapers, and road and street approaches,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

FUEL AND ASPHALT PAY ADJUSTMENT

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

OPTION A

Be advised that the Department will accept compaction of asphalt mixtures furnished for driving lanes and ramps, at 1 inch (25mm) or greater, on this project according to OPTION A in accordance with Section 402 and Section 403 of the current Standard Specifications. The Department will require joint cores as described in Section 402.03.02 for surface mixtures only. The Department will accept compaction of all other asphalt mixtures according to OPTION B.



COUNTY: WARREN

ITEM NUMBERS: 3-2081.00

PROJECT NUMBER: FD52 114 0446 000-001

CONSTRUCTION NUMBER: NHPP 031 (12)

LETTING DATE: JULY 28, 2017

RECOMMENDED BY: _____
Project Manager

DATE: _____

PLAN APPROVED BY: _____
State Highway Engineer

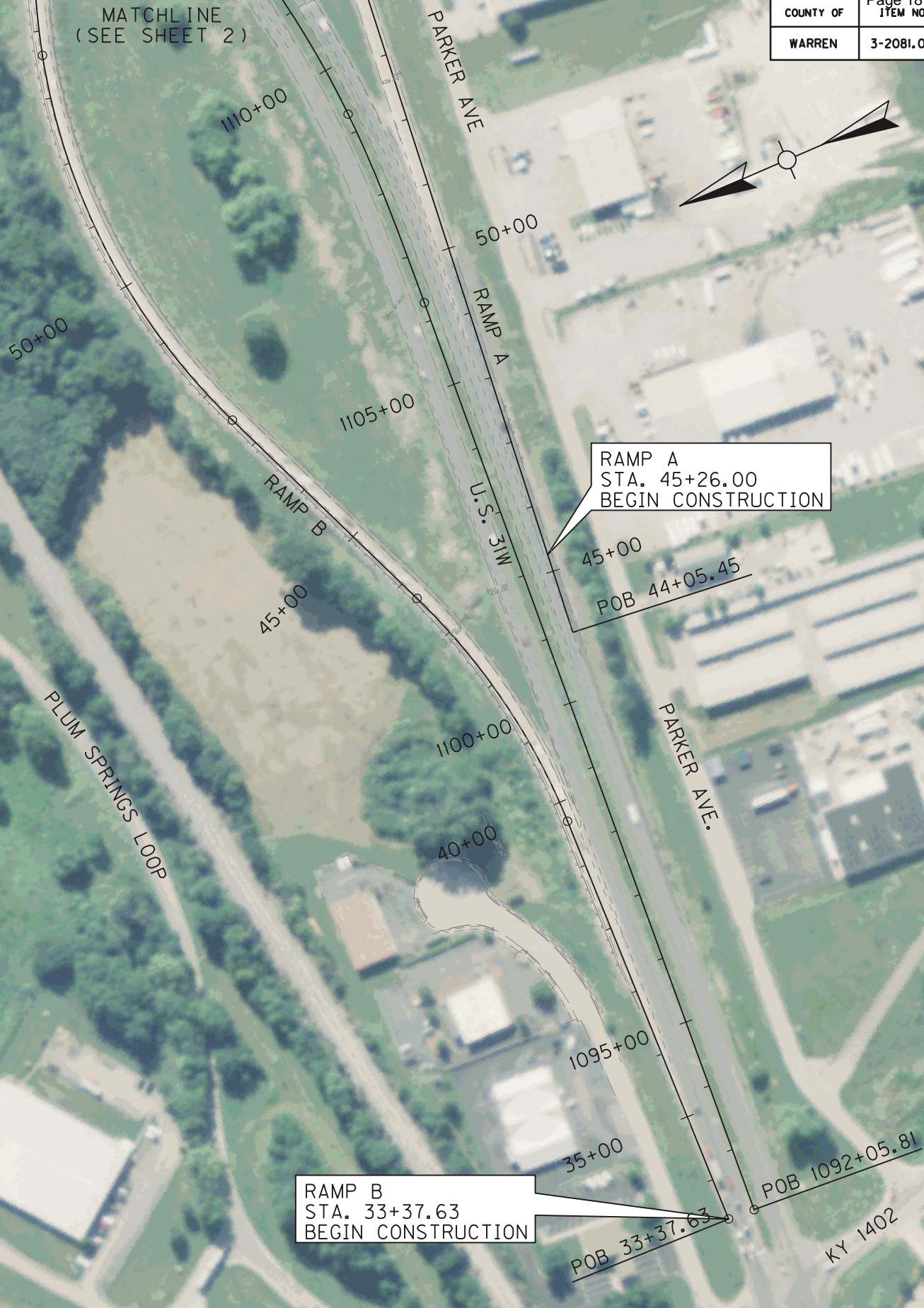
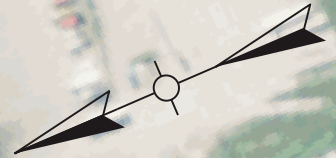
DATE: _____

FHWA APPROVED BY: _____

DATE: _____

COUNTY OF	ITEM NO.
WARREN	3-2081.00

MATCHLINE
(SEE SHEET 2)



RAMP A
STA. 45+26.00
BEGIN CONSTRUCTION

45+00
POB 44+05.45

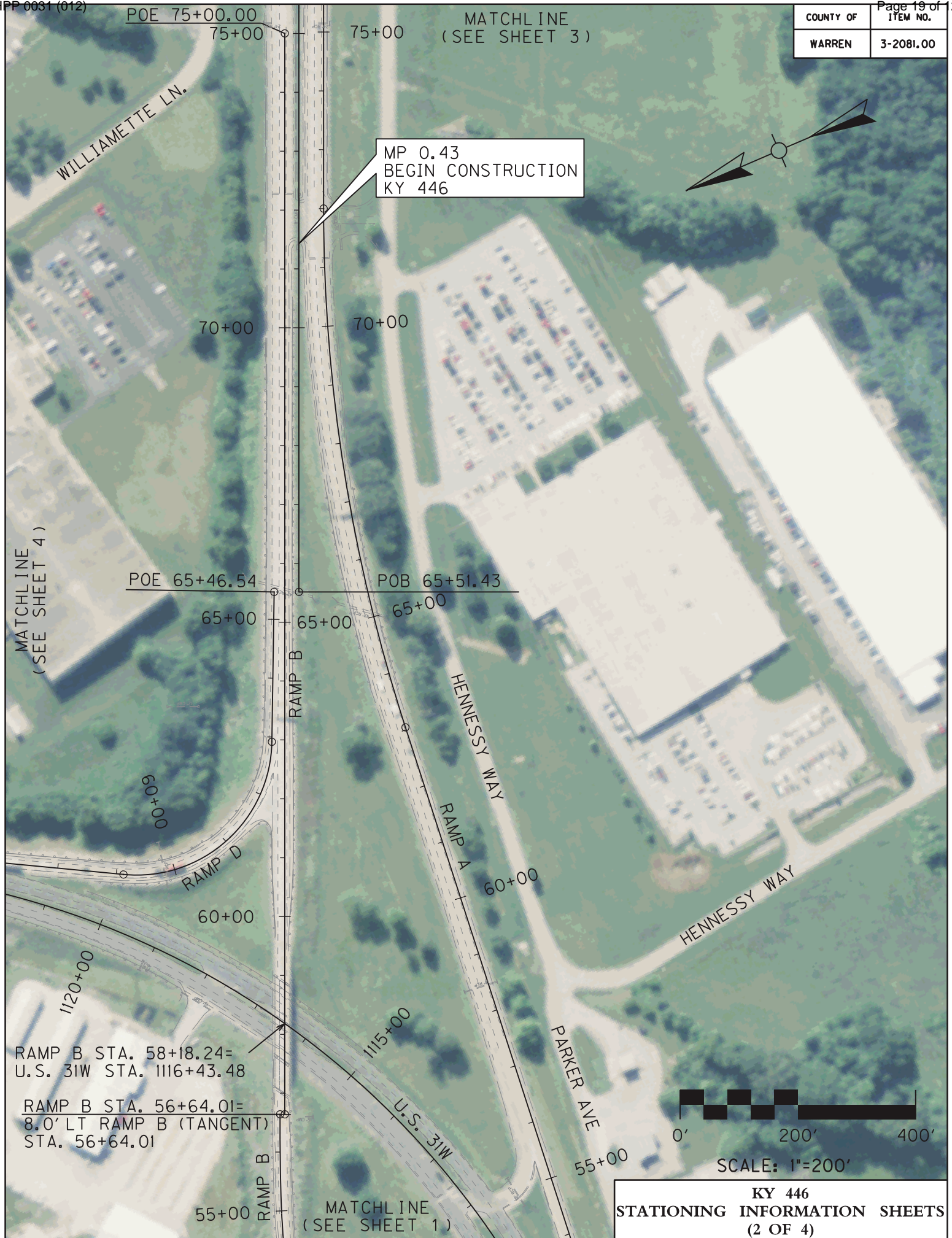
RAMP B
STA. 33+37.63
BEGIN CONSTRUCTION

35+00
POB 33+37.63
POB 1092+05.81
KY 1402



SCALE: 1"=200'

COUNTY OF	ITEM NO.
WARREN	3-2081.00



POE 75+00.00
75+00
75+00
MATCHLINE
(SEE SHEET 3)

MATCHLINE
(SEE SHEET 4)

MP 0.43
BEGIN CONSTRUCTION
KY 446

POE 65+46.54
65+00
65+00
POB 65+51.43

RAMP B STA. 58+18.24=
U.S. 31W STA. 1116+43.48

RAMP B STA. 56+64.01=
8.0' LT RAMP B (TANGENT)
STA. 56+64.01

SCALE: 1"=200'

KY 446
STATIONING INFORMATION SHEETS
(2 OF 4)

MATCHLINE
(SEE SHEET 1)

COUNTY OF	ITEM NO.
WARREN	3-2081.00



MP 0.79
END CONSTRUCTION
END PROJECT

KY 446 STA. 82+00.00
(M.P. 0.63) =
CORVETTE DR.



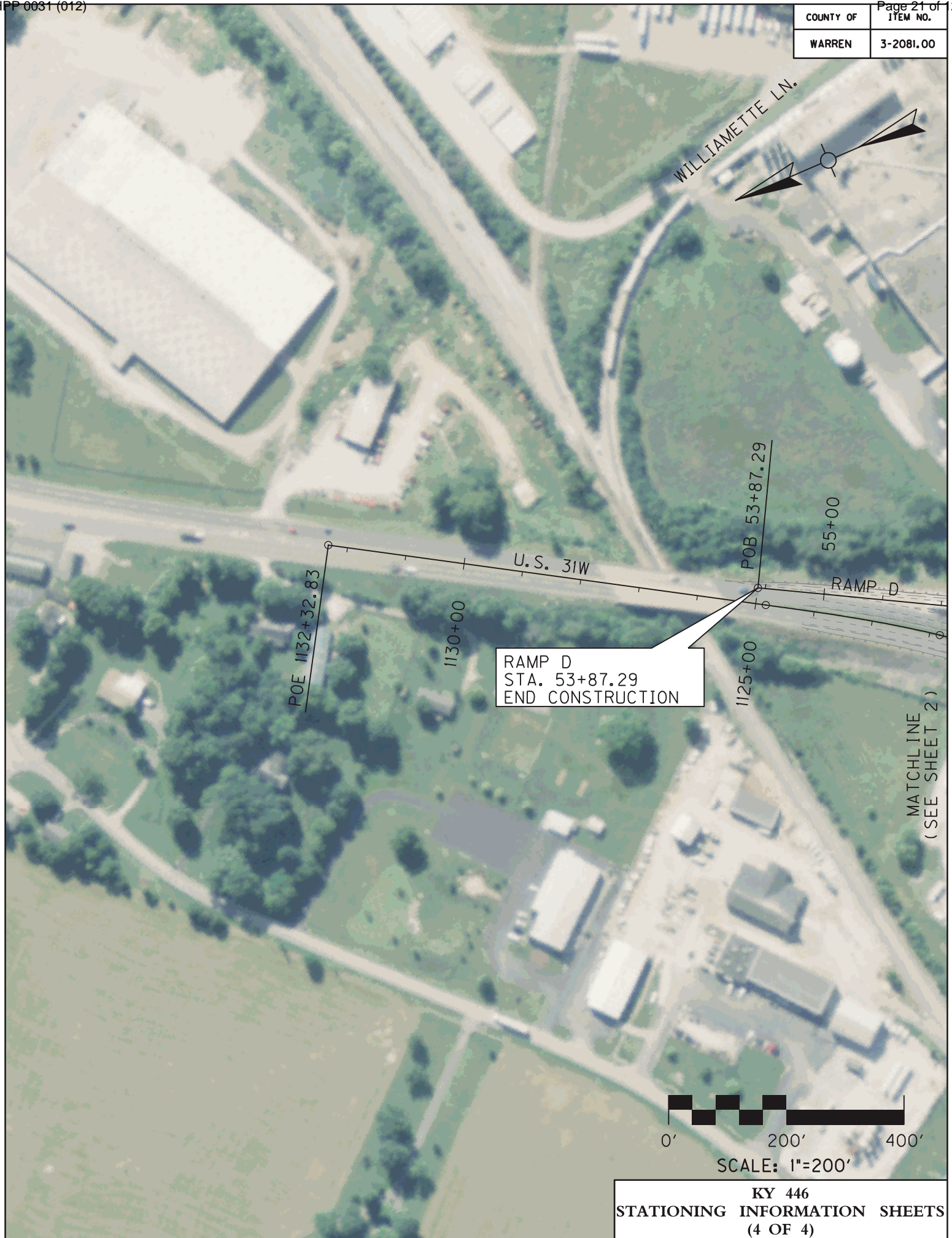
SCALE: 1"=200'

MATCHLINE
(SEE SHEET 2)

POE
75+99.80

KY 446
STATIONING INFORMATION SHEETS
(3 OF 4)

COUNTY OF	ITEM NO.
WARREN	3-2081.00



RAMP D
STA. 53+87.29
END CONSTRUCTION

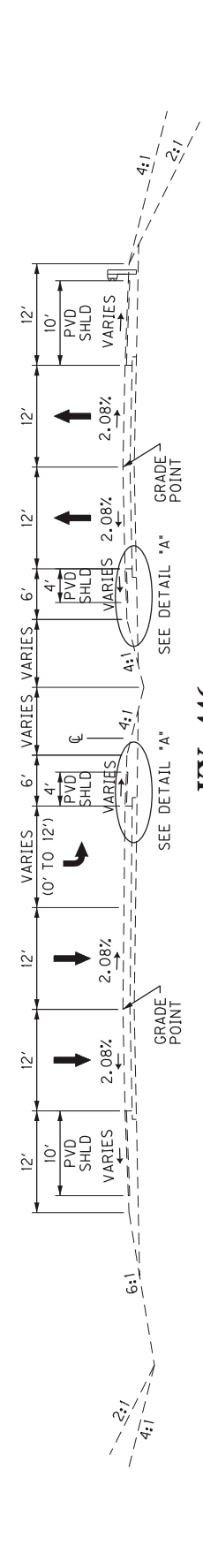
MATCHLINE
(SEE SHEET 2)



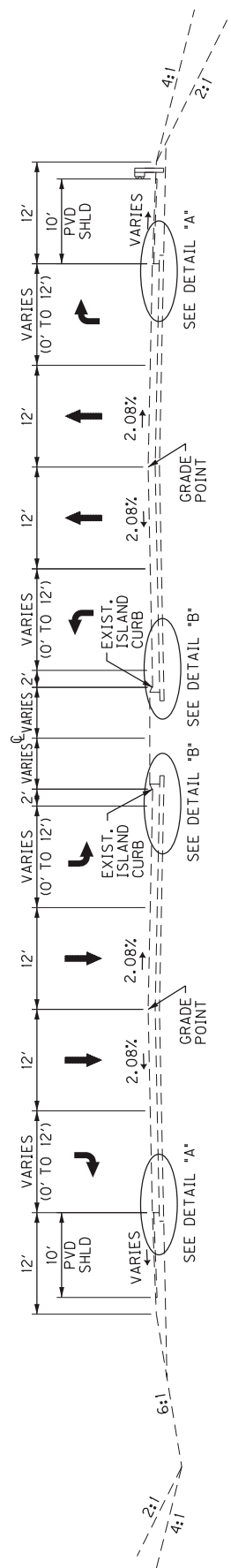
SCALE: 1"=200'

COUNTY OF	ITEM NO.	SHEET NO.
WARREN	3-2081.00	

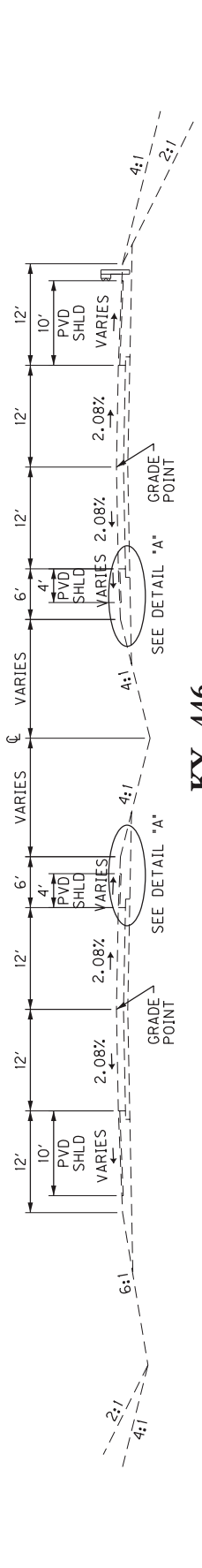
EXISTING TYPICAL SECTIONS KY 446



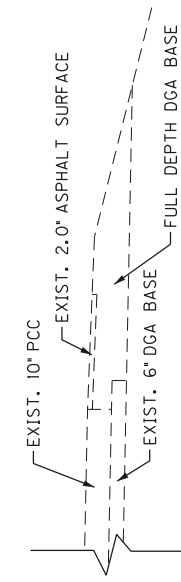
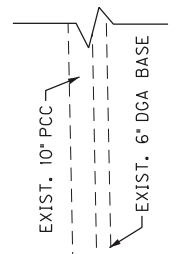
KY 446 M.P. 0.43 TO M.P. 0.55



KY 446 M.P. 0.55 TO M.P. 0.73



KY 446 M.P. 0.73 TO M.P. 0.79

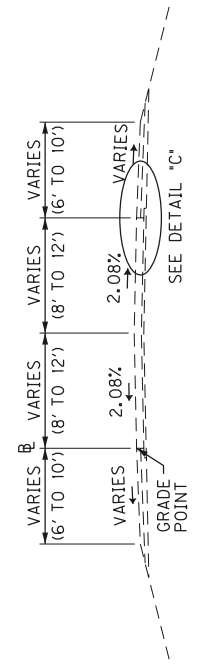


NOT TO SCALE

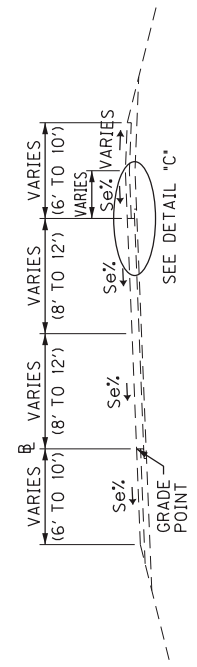
KY 446
EXISTING TYPICAL SECTIONS

COUNTY OF	ITEM NO.	SHEET NO.
WARREN	3-2081.00	

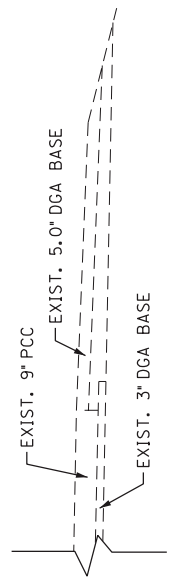
EXISTING TYPICAL SECTIONS RAMPS



**RAMPS
(NORMAL SECTION)**



**RAMPS
(SUPERELEVATED SECTION)**



DETAIL "C"

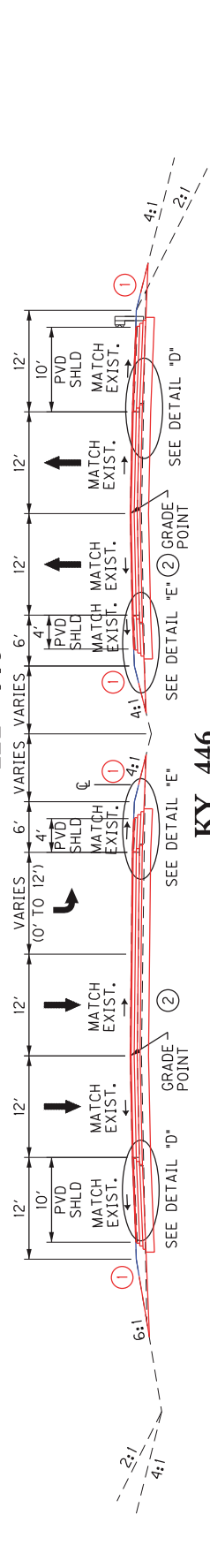
NOT TO SCALE

KY 446
EXISTING TYPICAL SECTIONS

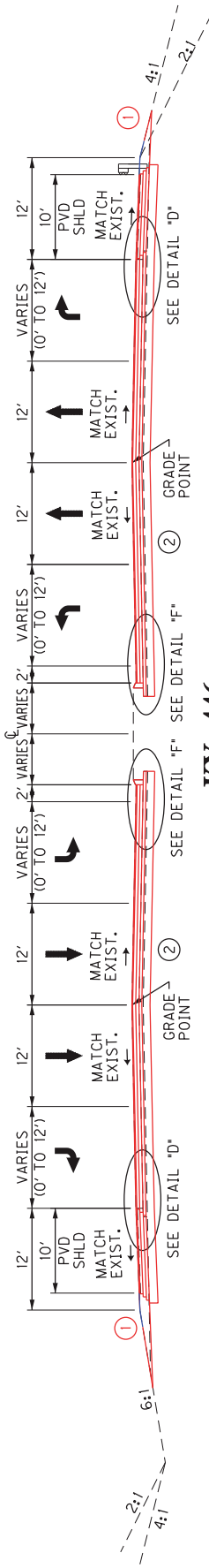
PROPOSED TYPICAL SECTIONS

COUNTY OF	ITEM NO.	SHEET NO.
WARREN	3-2081.00	

KY 446

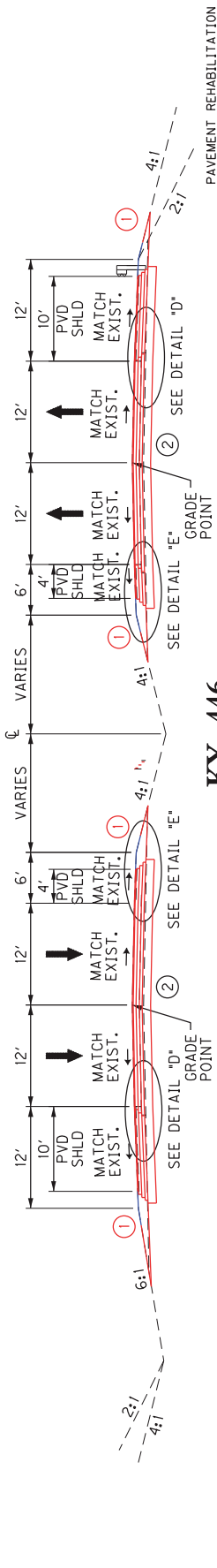


**KY 446
M.P. 0.43 TO M.P. 0.55**



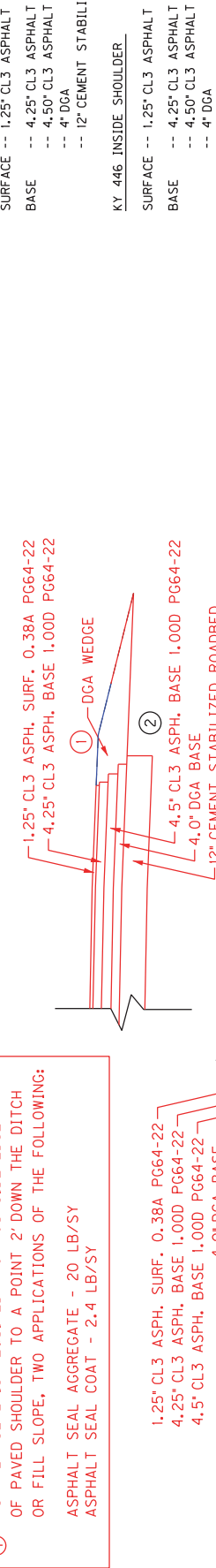
KY 446

M.P. 0.55 TO M.P. 0.73

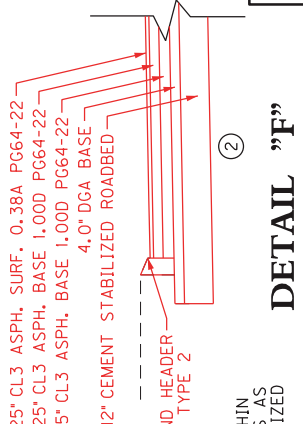
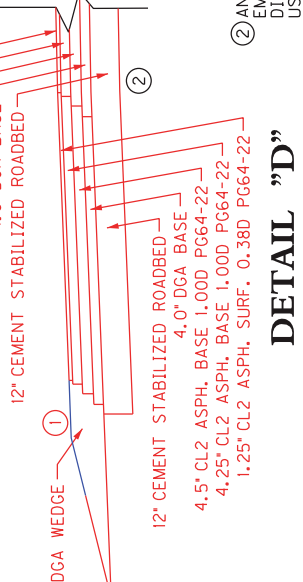


KY 446

M.P. 0.73 TO M.P. 0.79



① ASPHALT SEAL IS REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO A POINT 2' DOWN THE DITCH OR FILL SLOPE, TWO APPLICATIONS OF THE FOLLOWING:
ASPHALT SEAL AGGREGATE - 20 LB/SY
ASPHALT SEAL COAT - 2.4 LB/SY



- PAVEMENT REHABILITATION**
- KY 446 DRIVING LANES**
- SURFACE --- 1.25' CL3 ASPHALT SURFACE 0.38A PG64-22
 - BASE --- 4.25' CL3 ASPHALT BASE 1,000 PG64-22
 - 4.50' CL3 ASPHALT BASE 1,000 PG64-22
 - 4" DGA
 - 12" CEMENT STABILIZED ROADBED
- KY 446 INSIDE SHOULDER**
- SURFACE --- 1.25' CL3 ASPHALT SURFACE 0.38A PG64-22
 - BASE --- 4.25' CL3 ASPHALT BASE 1,000 PG64-22
 - 4.50' CL3 ASPHALT BASE 1,000 PG64-22
 - 4" DGA
 - 12" CEMENT STABILIZED ROADBED
 - DGA WEDGE
- KY 446 OUTSIDE SHOULDER**
- SURFACE --- 1.25' CL2 ASPHALT SURFACE 0.38D PG64-22
 - BASE --- 4.25' CL2 ASPHALT BASE 1,000 PG64-22
 - 4.50' CL2 ASPHALT BASE 1,000 PG64-22
 - 4" DGA
 - 12" CEMENT STABILIZED ROADBED
 - DGA WEDGE
- NOT TO SCALE

② ANY SATURATED, SOFT, UNSTABLE AREAS ENCOUNTERED WITHIN EMBANKMENT FOUNDATION LIMITS AND/OR ANY OTHER AREAS AS DIRECTED BY THE ENGINEER SHALL BE DRAINED AND STABILIZED USING SUITABLE MATERIAL AS DIRECTED BY THE ENGINEER.

DETAIL "D"

DETAIL "E"

DETAIL "F"

KY 446
PROPOSED TYPICAL SECTIONS

COUNTY OF	ITEM NO.	SHEET NO.
WARREN	3-2081.00	

PROPOSED TYPICAL SECTIONS

PAVEMENT REHABILITATION

RAMPS DRIVING LANES

- SURFACE -- 1.25" CL3 ASPHALT SURFACE 0.38A PG64-22
- BASE -- 4.25" CL3 ASPHALT BASE 1.00D PG64-22
- BASE -- 4.50" CL3 ASPHALT BASE 1.00D PG64-22
- 4" DGA
- 12" CEMENT STABILIZED ROADBED

RAMPS INSIDE SHOULDER

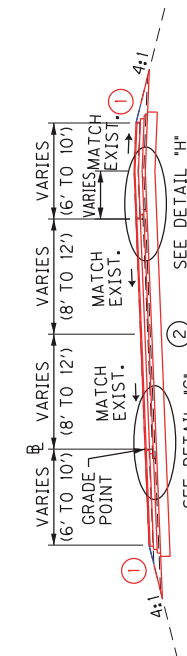
- SURFACE -- 1.25" CL3 ASPHALT SURFACE 0.38A PG64-22
- BASE -- 4.25" CL3 ASPHALT BASE 1.00D PG64-22
- BASE -- 4.50" CL3 ASPHALT BASE 1.00D PG64-22
- 4" DGA
- 12" CEMENT STABILIZED ROADBED
- DGA WEDGE

RAMPS OUTSIDE SHOULDER

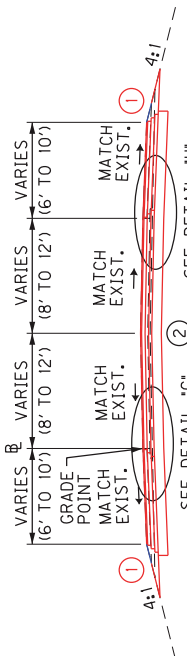
- SURFACE -- 1.25" CL2 ASPHALT SURFACE 0.38D PG64-22
- BASE -- 4.25" CL2 ASPHALT BASE 1.00D PG64-22
- BASE -- 4.50" CL2 ASPHALT BASE 1.00D PG64-22
- 4" DGA
- 12" CEMENT STABILIZED ROADBED
- DGA WEDGE

CROSSOVER DRIVING LANE AND SHOULDERS

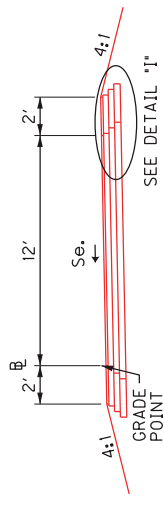
- SURFACE -- 1.25" CL2 ASPHALT SURFACE 0.38D PG64-22
- BASE -- 3.50" CL2 ASPHALT BASE 1.00D PG64-22
- BASE -- 3.50" CL2 ASPHALT BASE 1.00D PG64-22
- 4" DGA



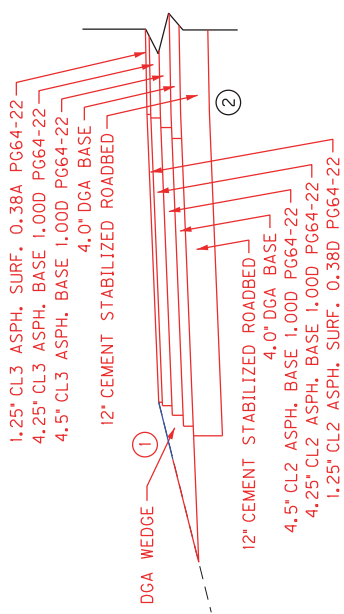
RAMPS (NORMAL SECTION)



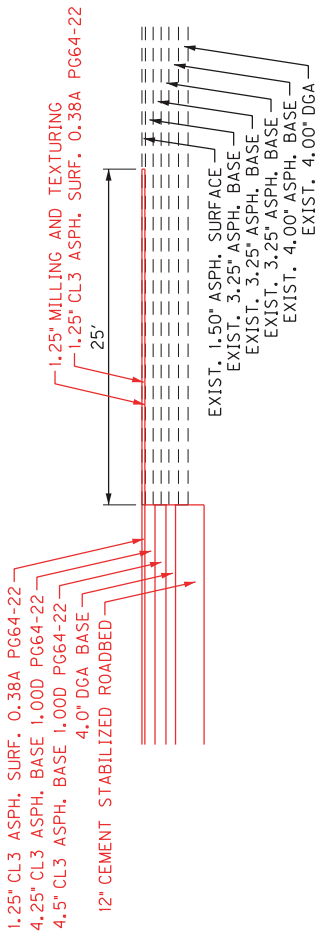
RAMPS (SUPERELEVATED SECTION)



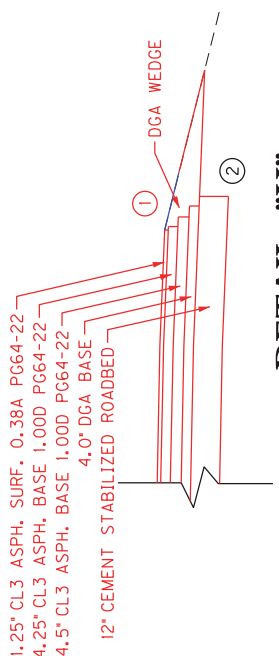
TEMPORARY MEDIAN CROSSOVER



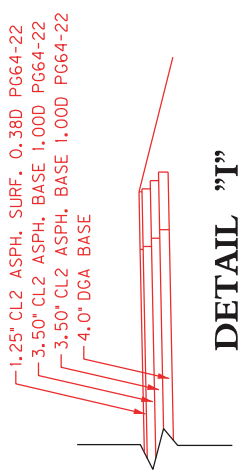
DETAIL "G"



TAPERING OF OVERLAY AT PROJECT END (M.P. 0.79)



DETAIL "H"



DETAIL "I"

① ASPHALT SEAL IS REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO A POINT 2' DOWN THE DITCH OR FILL SLOPE, TWO APPLICATIONS OF THE FOLLOWING:
ASPHALT SEAL AGGREGATE - 20 LB/SY
ASPHALT SEAL COAT - 2.4 LB/SY

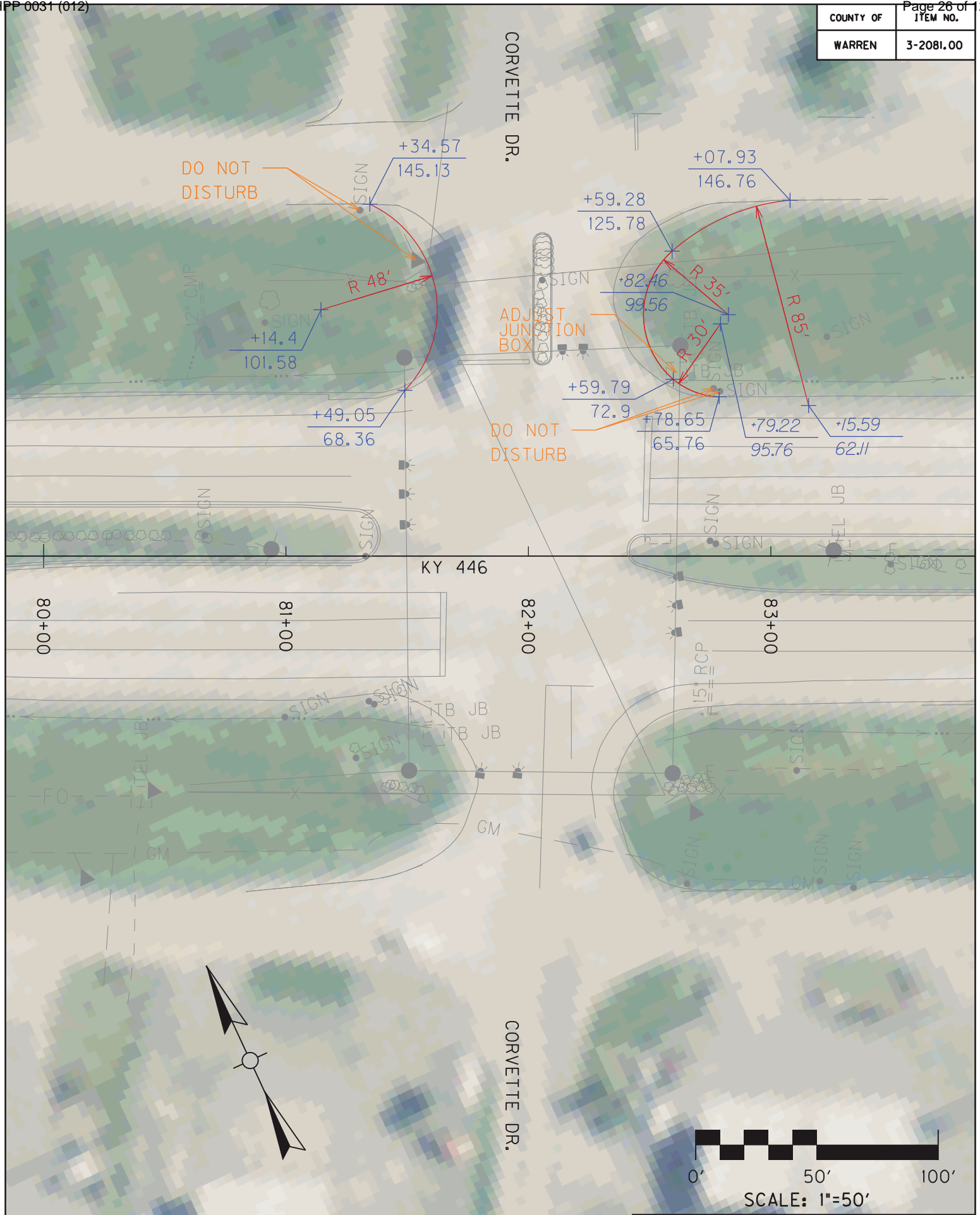
② ANY SATURATED, SOFT, UNSTABLE AREAS ENCOUNTERED WITHIN EMBANKMENT FOUNDATION LIMITS AND/OR ANY OTHER AREAS AS DIRECTED BY THE ENGINEER SHALL BE DRAINED AND STABILIZED USING SUITABLE MATERIAL AS DIRECTED BY THE ENGINEER.

NOT TO SCALE

KY 446

PROPOSED TYPICAL SECTIONS

COUNTY OF	WARREN
ITEM NO.	3-2081.00



**KY 446
CORVETTE DRIVE
RADI CORRECTION**

**GENERAL SUMMARY
KY 446 WARREN COUNTY
MP 0.00 TO MP 0.79
ITEM NUMBER 3-2081.00**

ITEM NUMBER	ITEM	QUANTITY	UNIT
1	DGA BASE (1)	20,284	TON
8	CEMENT STABILIZED ROADBED	47,651	SQYD
78	CRUSHED AGGREGATE SIZE NO 2	6,000	TON
100	ASPHALT SEAL AGGREGATE	213	TON
103	ASPHALT SEAL COAT	26	TON
212	CL2 ASPH BASE 1.00D PG64-22	4,843	TON
214	CL3 ASPH BASE 1.00D PG64-22	17,528	TON
301	CL2 ASPH SURF 0.38D PG64-22	708	TON
358	ASPHALT CURING SEAL	48	TON
461	CULVERT PIPE - 15 IN	8	LF
462	CULVERT PIPE - 18 IN	16	LF
464	CULVERT PIPE - 24 IN	4	LF
468	CULVERT PIPE - 36 IN	12	LF
469	CULVERT PIPE - 42 IN	4	LF
1202	PIPE CULVERT HEADWALL - 15 IN	2	EACH
1204	PIPE CULVERT HEADWALL - 18 IN	3	EACH
1208	PIPE CULVERT HEADWALL - 24 IN	1	EACH
1214	PIPE CULVERT HEADWALL - 42 IN	1	EACH
1375	METAL END SECTION TY 1-36 IN	1	EACH
1458	CURB BOX INLET TYPE A - T	1	EACH
1891	ISLAND HEADER CURB TYPE 2	1,390	LF
1982	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL- WHITE	66	EACH
1983	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL- YELLOW	37	EACH
1992	INSTALL TEMP CONC MED BARR (8)	3,500	LF
2003	RELOCATE TEMPORARY CONCRETE BARRIER	6,000	LF
2014	BARRICADE TYPE III	21	EACH
2058	REMOVE PCC PAVEMENT (9) (11)	30,625	SQYD
2200	ROADWAY EXCAVATION (7)	12,638	CUYD
2237	DITCHING (2)	20,072	LF
2363	GUARDRAIL CONNECTOR TO BRIDGE END TY A	2	EACH
2367	GUARDRAIL END TREATMENT TYPE 1	10	EACH
2369	GUARDRAIL END TREATMENT TYPE 2A	11	EACH
2381	REMOVE GUARDRAIL	6,335	LF
2387	GUARDRAIL CONNECTOR TO BRIDGE END TY A-1	2	EACH
2483	CHANNEL LINING CLASS II (3)	33	TON
2542	CEMENT	929	TON
2562	TEMPORARY SIGNS (4)	2,500	SQFT
2568	MOBILIZATION	1	LS
2569	DEMOBILIZATION	1	LS
2585	EDGE KEY (10)	1,648	LF
2599	FABRIC-GEOTEXTILE TYPE IV	4,500	SQYD
2650	MAINTAIN AND CONTROL TRAFFIC	1	LS
2671	PORTABLE CHANGEABLE MESSAGE SIGN (5)	6	EACH
2676	MOBILIZATION FOR MILL & TEXT	1	LS
2677	ASPHALT PAVE MILLING & TEXTURING	143	TON
2696	SHOULDER RUMBLE STRIPS-SAWED	21,438	LF
2702	SAND FOR BLOTTER	119	TON
2704	SILT TRAP TYPE B	3	EACH
2707	CLEAN SILT TRAP TYPE B	3	EACH
2775	ARROW PANEL (5)	4	EACH
2898	RELOCATE TEMPORARY CRASH CUSHION	5	EACH
3171	CONCRETE BARRIER WALL TYPE 9T	2,500	LF
3225	TUBULAR MARKERS	64	EACH
4795	CONDUIT - 2 INCH	200	LF
4820	TRENCHING AND BACKFILLING	200	LF
4830	LOOP WIRE	6,550	LF
4895	LOOP SAW SLOT AND FILL	1,970	LF
5950	EROSION CONTROL BLANKET	5,678	SQ YD
5963	INITIAL FERTILIZER	1	TON
5964	20-10-10 FERTILIZER	1	TON

**GENERAL SUMMARY
KY 446 WARREN COUNTY
MP 0.00 TO MP 0.79
ITEM NUMBER 3-2081.00**

ITEM NUMBER	ITEM	QUANTITY	UNIT
6401	FLEXIBLE DELINEATOR POST-M/W	98	EACH
6404	FLEXIBLE DELINEATOR POST-M/Y	89	EACH
6510	PAVEMENT STRIPING-TEMP PAINT -4 INCH	40,810	LF
6514	PAVEMENT STRIPING-PERM PAINT -4 INCH	24,648	LF
6516	PAVE STRIPING-PERM PAINT-8 IN	1,436	LF
6568	PAVE MARKING-THERMO STOP BAR-24 IN	255	LF
6574	PAVE MARKING-THERMO CURV ARROW	20	EACH
6575	PAVE MARKING - THERMO COMB ARROW (6)	2	EACH
8903	CRASH CUSHION TY VI BLASS BT TL3	5	EACH
10020NS	FUEL ADJUSTMENT	53,835	DOLL
10030NS	ASPHALT ADJUSTMENT	99,821	DOLL
20071EC	JOINT ADHESIVE	31,326	LF
20259ED	TEMPORARY MEDIAN CROSSOVER (12)	1	EACH
21802EN	GUARDRAIL-STEEL W BEAM-S FACE (7 FT POST)	6,950	LF
22906ES403	CL3 ASPH SURF 0.38A PG64-22	2,453	TON
23556NC	ADJUST LIGHTING JUNCTION BOX	1	EACH
24489EC	INLAID PAVEMENT MARKER	210	EACH

- (1) 20269 tons carried over from the Paving Summary and 15 tons carried over from the Drainage Summary.
 - (2) Ditching is intended for repair of the eroded areas in pipe outlet ditches, and cleaning of drainage structures 36" or less than in diameter.
 - (3) Any embankment required is incidental to ditching
 - (4) Geotextile Fabric Type 1 to be placed under Aggregate Channel Lining is considered incidental to the channel lining.
 - (5) Intended for temporary traffic control signs and includes initial placement only. Any relocation of these temporary signs required will not be paid for directly but will be considered incidental.
 - (6) The quantity for these items includes the maximum in place at any one time. Any relocation required will not be paid for directly but will be considered incidental.
 - (7) Combination arrows depict left, right, and through movements.
 - (8) 9549 CU YD to remove material under existing PCC pavement, 89 CU YD for radii improvement, both of which will be paid by plan quantity. 3000 CU YD is included for excavation of saturated, soft, unstable areas as directed by the engineer. This quantity will be measured for payment. Replacement of excavated material will not be measured for payment and will be considered incidental to the bid item "Roadway Excavation".
 - (9) Deliver and install temporary concrete barrier wall from the KYTC Warren County Maintenance Facility located at 2098 Three Springs Road in Bowling Green. This barrier wall is to be delivered to the project prior to any Contractor supplied barrier wall. Contractor to retain ownership of temporary wall upon completion of the project.
 - (10) Removal of asphalt pavement on top of existing PCC pavement to be removed will not be measured for payment and will be considered incidental to the bid item "Remove PCC Pavement". Any saw cutting of pavement required for removal will not be measured for payment but will be considered incidental the bid item "Remove PCC Pavement".
 - (11) To be used where tying proposed asphalt pavement to existing asphalt pavement at ramp termini at US 31W and approach road tie downs.
 - (12) 30396 SQ YD carried over from the Paving Summary and 229 SQ YD for curb removal. Removal of existing curb will NOT be measured for payment.
 - (13) Includes all items, except asphalt and DGA, necessary for the complete construction and removal of the proposed temporary median crossover, temporary widening at the US 31W approach and temporary median construction for left turns onto US 31W from KY 446 while the median crossover is being utilized.
- NOTE: Quantities from all summaries have been carried over and included in this General Summary

**PAVEMENT SUMMARY
KY 446 WARREN COUNTY
MP 0.00 TO MP 0.79
ITEM NUMBER 3-2081**

PAVING AREAS

ITEM	TOTAL
MAINLINE DRIVING LANES	
	SQYD
1.25" CL3 ASPH SURF 0.38A PG64-22	16000
4.25" CL3 ASPH BASE 1.00D PG 64-22	16096
4.5" CL3 ASPH BASE 1.00D PG 64-22	16421
4.0" DGA BASE	16766
12" CEMENT STABILIZED ROADBED	17073
MAINLINE INSIDE SHOULDERS	
	SQYD
1.25" CL3 ASPH SURF 0.38A PG64-22	1124
4.25" CL3 ASPH BASE 1.00D PG 64-22	1124
4.5" CL3 ASPH BASE 1.00D PG 64-22	1124
4.0" DGA BASE	1124
12" CEMENT STABILIZED ROADBED	1124
DGA WEDGE (CU YD)	775
MAINLINE OUTSIDE SHOULDERS	
	SQYD
1.25" CL2 ASPH SURF 0.38D PG64-22	3998
4.25" CL2 ASPH BASE 1.00D PG 64-22	3998
4.5" CL2 ASPH BASE 1.00D PG 64-22	3998
4.0" DGA BASE	3998
12" CEMENT STABILIZED ROADBED	3998
DGA WEDGE (CU YD)	775
RAMPS	
RAMP A	
<i>DRIVING LANES</i>	
	SQYD
1.25" CL3 ASPH SURF 0.38A PG64-22	6566
4.25" CL3 ASPH BASE 1.00D PG 64-22	6631
4.5" CL3 ASPH BASE 1.00D PG 64-22	6851
4.0" DGA BASE	7085
12" CEMENT STABILIZED ROADBED	7293
<i>INSIDE SHOULDERS</i>	
	SQYD
1.25" CL3 ASPH SURF 0.38A PG64-22	1351
4.25" CL3 ASPH BASE 1.00D PG 64-22	1351
4.5" CL3 ASPH BASE 1.00D PG 64-22	1351
4.0" DGA BASE	1351
12" CEMENT STABILIZED ROADBED	1351
DGA WEDGE (CU YD)	525
<i>OUTSIDE SHOULDERS</i>	
	SQYD
1.25" CL2 ASPH SURF 0.38D PG64-22	2246
4.25" CL2 ASPH BASE 1.00D PG 64-22	2246
4.5" CL2 ASPH BASE 1.00D PG 64-22	2246
4.0" DGA BASE	2246
12" CEMENT STABILIZED ROADBED	2246
DGA WEDGE (CU YD)	525
RAMP B	
<i>DRIVING LANES</i>	
	SQYD
1.25" CL3 ASPH SURF 0.38A PG64-22	3587
4.25" CL3 ASPH BASE 1.00D PG 64-22	3642
4.5" CL3 ASPH BASE 1.00D PG 64-22	3828
4.0" DGA BASE	4025
12" CEMENT STABILIZED ROADBED	4200
<i>INSIDE SHOULDERS</i>	
	SQYD
1.25" CL3 ASPH SURF 0.38A PG64-22	1151
4.25" CL3 ASPH BASE 1.00D PG 64-22	1151
4.5" CL3 ASPH BASE 1.00D PG 64-22	1151
4.0" DGA BASE	1151
12" CEMENT STABILIZED ROADBED	1151
DGA WEDGE (CU YD)	443
<i>OUTSIDE SHOULDERS</i>	
	SQYD
1.25" CL2 ASPH SURF 0.38D PG64-22	1350
4.25" CL2 ASPH BASE 1.00D PG 64-22	1350
4.5" CL2 ASPH BASE 1.00D PG 64-22	1350
4.0" DGA BASE	1350
12" CEMENT STABILIZED ROADBED	1350
DGA WEDGE (CU YD)	443

RAMP D

<i>DRIVING LANES</i>	SQYD
1.25" CL3 ASPH SURF 0.38A PG64-22	4244
4.25" CL3 ASPH BASE 1.00D PG 64-22	4293
4.5" CL3 ASPH BASE 1.00D PG 64-22	4460
4.0" DGA BASE	4636
12" CEMENT STABILIZED ROADBED	4793

<i>INSIDE SHOULDERS</i>	SQYD
1.25" CL3 ASPH SURF 0.38A PG64-22	1460
4.25" CL3 ASPH BASE 1.00D PG 64-22	1460
4.5" CL3 ASPH BASE 1.00D PG 64-22	1460
4.0" DGA BASE	1460
12" CEMENT STABILIZED ROADBED	1460
DGA WEDGE (CU YD)	397

<i>OUTSIDE SHOULDERS</i>	SQYD
1.25" CL2 ASPH SURF 0.38D PG64-22	1386
4.25" CL2 ASPH BASE 1.00D PG 64-22	1386
4.5" CL2 ASPH BASE 1.00D PG 64-22	1386
4.0" DGA BASE	1386
12" CEMENT STABILIZED ROADBED	1386
DGA WEDGE (CU YD)	397

RADII IMPROVEMENT AT CORVETTE DRIVE

<i>EAST RADIUS</i>	SQYD
1.25" CL3 ASPH SURF 0.38A PG64-22	119
4.25" CL3 ASPH BASE 1.00D PG 64-22	121
4.5" CL3 ASPH BASE 1.00D PG 64-22	126
4.0" DGA BASE	133
12" CEMENT STABILIZED ROADBED	138

<i>WEST RADIUS</i>	SQYD
1.25" CL3 ASPH SURF 0.38A PG64-22	76
4.25" CL3 ASPH BASE 1.00D PG 64-22	77
4.5" CL3 ASPH BASE 1.00D PG 64-22	81
4.0" DGA BASE	85
12" CEMENT STABILIZED ROADBED	89

TEMPORARY CROSSOVER	SQYD
1.25" CL2 ASPH SURF 0.38D PG64-22	1007
3.5" CL2 ASPH BASE 1.00D PG 64-22	1021
3.5" CL2 ASPH BASE 1.00D PG 64-22	1059
4.0" DGA BASE	1097
DGA WEDGE (CU YD)	76

US 31W APPROACH TEMPORARY PAVEMENT

<i>NORTH PAVEMENT</i>	SQYD
1.25" CL2 ASPH SURF 0.38D PG64-22	144
3.5" CL2 ASPH BASE 1.00D PG 64-22	145
3.5" CL2 ASPH BASE 1.00D PG 64-22	150
4.0" DGA BASE	154
DGA WEDGE (CU YD)	8

<i>SOUTH PAVEMENT</i>	SQYD
1.25" CL2 ASPH SURF 0.38D PG64-22	163
3.5" CL2 ASPH BASE 1.00D PG 64-22	165
3.5" CL2 ASPH BASE 1.00D PG 64-22	171
4.0" DGA BASE	178
DGA WEDGE (CU YD)	4

<i>SOUTH DGA</i>	SQYD
12.25" DGA BASE	190

PAVING SUMMARY			
CODE	ITEM	UNITS	TOTAL
1	DGA BASE	TON	20269
8	CEMENT STABILIZED ROADBED	SQ YD	47651
100	ASPHALT SEAL AGGREGATE	(1) TON	213
103	ASPHALT SEAL COAT	(2) TON	26
212	CL2 ASPH BASE 1.00D PG64-22	TON	4843
214	CL3 ASPH BASE 1.00D PG64-22	TON	17528
301	CL2 ASPH SURF 0.38D PG64-22	TON	708
22906ES403	CL3 ASPH SURF 0.38A PG64-22	TON	2453
358	ASPHALT CURING SEAL	TON	48
2542	CEMENT	TON	929
2702	SAND FOR BLOTTER	TON	119
NOTES			
ALL ASPHALT MIXTURES ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH			
DGA BASE ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH			
(1) TWO APPLICATIONS AT 20 LB/SY			
(2) TWO APPLICATIONS AT 2.4 LB/SY			
QUANTITIES HAVE BEEN CARRIED OVER AND INCLUDED IN THE GENERAL SUMMARY			

GUARDRAIL SUMMARY KY 446 WARREN COUNTY MILEPOST WESTBOUND. 0.00 TO MP 0.79 ITEM NUMBER 3-2081.00										
LOCATION	SIDE	BEGIN MP	END MP	GUARDRAIL STEEL W BEAM-S FACE (7 FT POST)	GUARDRAIL END TREATMENT TYPE 1	GUARDRAIL END TREATMENT TYPE 2A	REMOVE GUARDRAIL	GUARDRAIL CONNECTOR TO BRIDGE END TY A	GUARDRAIL CONNECTOR TO BRIDGE END TY A-1	COMMENTS
Units				LF	EACH		LF	EACH		
Item Number				21802EN	2367	2369	2381	2363	2387	
Eastbound										
KY 446 WARREN COUNTY	RT	0.48	0.51	62.5	1	1	111			
KY 446 WARREN COUNTY	RT	0.73	0.74	50.0	1	1	94			
Westbound										
KY 446 WARREN COUNTY	LT	0.32	0.40	375.0	1					
KY 446 WARREN COUNTY	RT	0.32	0.41	450.0	1					
KY 446 WARREN COUNTY	LT	0.74	0.76	50.0	1	1	100			
KY 446 WARREN COUNTY	RT	0.74	0.76	50.0	1	1	89			
Ramps										
RAMP A	RT	45+55	47+65	162.5	1	1	97			
RAMP A	RT	63+75	67+19	300.0	1	1	344			
RAMP A	LT	63+84	67+21	287.5	1	1	336			
RAMP B	RT	49+06	56+64	762.5		1	758			Connects to Ramp B (tangent)
RAMP B	LT	37+31	56+64	1937.5		1	1933			Connects to Ramp B (tangent)
RAMP B (TANGENT)	LT	56+64	56+98	37.5			34		1	Goes past bridge to Ramp B
RAMP B (TANGENT)	LT	59+39	61+60	225.0			221	1		Connects with Ramp D
RAMP B (TANGENT)	RT	56+64	56+95	37.5			31		1	
RAMP B (TANGENT)	RT	59+23	65+51	637.5			629	1		
RAMP D	LT	53+87	65+47	1162.5		1	1159			Connects with US31W bridge
RAMP D	RT	58+60	61+55	300.0		1	295			Connects with Ramp B (tangent)
US 31W	RT	1125+00	1126+04	62.5	1		104			
PROJECT TOTAL				6950.0	10	11	6335	2	2	

Quantities have been carried over and included in the general summary.

COORDINATE CONTROL SUMMARY
KY 446 - WARREN COUNTY
MILEPOST 0.00 - 0.79
ITEM NUMBER 3-2081.00

CENTERLINE COORDINATE DATA - KY446				
POINT	DESCRIPTION	STATION	STATE PLANE COORDINATES	
			NORTH (Y)	EAST (X)
POB	BEGINNING	65+51.43	3527768.9387	4737438.2629
PC	PC	106+30.00	3526054.9060	4741139.1905
PI	@ RADIUS 716.20	107+30.66	3526012.6053	4741230.5259
PT	PT	108+30.01	3525997.1187	4741329.9827

BASELINE COORDINATE DATA - RAMP A				
POINT	DESCRIPTION	STATION	STATE PLANE COORDINATES	
			NORTH (Y)	EAST (X)
POB	BEGINNING	44+05.45	3527930.7055	4735268.3635
PC	PC	63+04.43	3527701.4530	4737153.4555
PI	@ RADIUS 2864.79	67+56.03	3527646.9337	4737601.7553
PT	PT	72+00.26	3527457.1464	4738011.5429
PI	PI	72+00.29	3527457.1344	4738011.5687
POE	END	75+99.80	3527289.2368	4738374.0915

BASELINE COORDINATE DATA - RAMP B				
POINT	DESCRIPTION	STATION	STATE PLANE COORDINATES	
			NORTH (Y)	EAST (X)
POB	BEGINNING	33+37.63	3528085.6912	4734387.4444
PC	PC	39+69.95	3528054.7963	4735019.0124
PI	@ RADIUS 954.93	41+72.49	3528044.9002	4735221.3116
PT	PT	43+69.12	3528117.9774	4735410.2102
PC	PC	47+47.34	3528254.4412	4735762.9576
PI	@ RADIUS 954.93	50+66.86	3528369.7229	4736060.9510
CS	CS	53+64.01	3528282.4540	4736368.3173
SPI	@ RADIUS 954.93	54+64.25	3528255.0767	4736464.7417
ST	ST	56+64.01	3528170.9173	4736646.4582
POE	END	57+00.00	3528155.7924	4736679.1158

BASELINE COORDINATE DATA - RAMP B (TANGENT)				
POINT	DESCRIPTION	STATION	STATE PLANE COORDINATES	
			NORTH (Y)	EAST (X)
POB	BEGINNING	56+64.01	3528163.6580	4736643.0962
POE	END	75+00.00	3527392.0771	4738309.0883

BASELINE COORDINATE DATA - RAMP D				
POINT	DESCRIPTION	STATION	STATE PLANE COORDINATES	
			NORTH (Y)	EAST (X)
POB	BEGINNING	53+87.29	3528694.0269	4737392.8919
PC	PC	59+12.16	3528240.9887	4737127.8665
PI	@ RADIUS 230.00	61+61.33	3528025.9118	4737002.0473
PT	PT	62+91.84	3527917.6815	4737226.4905
POE	END	65+46.54	3527807.0498	4737455.9135

BASELINE COORDINATE DATA - TEMPORARY CROSSOVER				
POINT	DESCRIPTION	STATION	STATE PLANE COORDINATES	
			NORTH (Y)	EAST (X)
POB	BEGINNING	10+00.00	3527512.8379	4738043.8568
PC	PC	10+44.46	3527531.5222	4738003.5099
PI	@ RADIUS 1610.00	12+93.90	3527636.3383	4737777.1689
PT	PT	15+39.39	3527667.7519	4737529.7223
POE	END	19+00.00	3527713.1668	4737171.9872

**KY 446, WARREN COUNTY
MILEPOST 0.00 TO 0.79
FD52 114 0446 000-001
Item No. 3-2081.00**

**THIS PROJECT IS A PARTIALLY
CONTROLLED ACCESS HIGHWAY**

I. DESCRIPTION

Perform all work in accordance with the *Kentucky Transportation Cabinet, Department of Highways, Standard Specifications for Road and Bridge Construction, Edition of 2012*, Supplemental Specifications, any applicable Special Provisions, and applicable Standard and Sepia Drawings, except as hereafter specified. Article references are to the Standard Specifications. Furnish all materials, labor, equipment, and incidentals for the following work:

(1) Maintain and Control Traffic; (2) Remove and reset or replace Guardrail and Guardrail End treatments at the locations listed and/or as directed by the Engineer; (3) Inlaid Pavement Markers; (4) Asphalt Surface and Asphalt Base at locations listed and/or as directed by the Engineer; and (5) All other work specified as part of this contract.

II. MATERIALS

Except as specified in these notes or on the drawings, all materials will be according to the Standard Specifications and applicable Special Provisions and Special Notes. The Department will sample and test all materials according to Department's Sampling Manual and the Contractor will have the 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. **Dense Graded Aggregate.** Crushed Stone Base may not be furnished in lieu of DGA.
- C. **Pavement Markings - 4 inch Paint.** Use 4" Pave-Marking Perm Paint (8" Pave-Marking Perm Paint at entrance and exit ramp tapers).
- D. **Channel Lining Class II.** Channel lining will be limestone and is to be placed at pipe outlets with significant erosion and in ditch repair locations as directed by the Engineer.

- E. **Erosion Control Blanket.** Erosion control blanket is to be placed in all ditching areas when ditching is complete, on slope stabilization areas, or as directed by the Engineer. Use Seed Mixture No. 1

III. CONSTRUCTION METHODS

- A. **Maintain and Control Traffic.** See Traffic Control Plan.
- B. **Site Preparation.** Be responsible for all site preparation. Do not disturb existing signs. This item will include, but is not limited to, incidental excavation and backfilling; removal of all obstructions or any other items; disposal of materials; sweeping and removal of debris; shoulder preparation and restoration, temporary and permanent erosion and pollution control; and all incidentals. Site preparation will be only as approved or directed by the Engineer. Other than the bid items listed, no direct payment will be made for site preparation, but will be incidental to the other items of work.
- C. **Disposal of Waste.** Dispose of all cuttings, debris, and other waste off the right-of-way at approved sites obtained by the Contractor at no additional cost to the Department. The contractor will be responsible for obtaining any necessary permits for this work. Temporary openings in the right of way fence for direct access to waste sites off the right of way or for access to other public roads will not be allowed. No separate payment will be made for the disposal of waste and debris from the project or obtaining the necessary permits, but will be incidental to the other items of the work.
- D. **Final Dressing, Clean Up, and Seeding and Protection.** After all work is completed, completely remove all debris from the job site. Perform Class A Final Dressing on all disturbed areas. Sow disturbed earthen areas with Seed Mixture No. 1. These items are incidental to other items in the contract.
- E. **Guardrail.** Remove and replace guardrail and guardrail End Treatments listed in the Guardrail Summary or as directed by the Engineer. Guardrail, End Treatments and Terminal Sections are listed by mile points and quantities are approximate only. Actual locations will be determined by the Engineer at the time of construction. Grade and reshape shoulders to proper template for new End Treatment. Utilize DGA for embankment when required for new end treatments. Remove any existing guardrail with a lane closure in place.

Do not leave the area unprotected. After the guardrail is removed, a shoulder closure shall remain in place until the guardrail is replaced in that area. To minimize safety hazards, guardrail removal is to be performed at the latest practical time prior to initiating the paving operation in an area and re-installation is to begin within 5 calendar days from the time that the final base course is completed and shall be pursued until completion. If guardrail installation is not started within 5 calendar days after paving operations ends, Liquidated Damages will be charged as outlined in Section 108 of the 2012 Standard Specifications.

The Contractor shall deliver existing salvaged guardrail system materials to the Central Sign Shop and Recycle Center in in Frankfort, KY (502-564-8187) between the hours of 8:00AM and 3:00PM, Monday through Friday and shall be neatly stacked in accordance with section 719.03.07 of the standard specifications. There is a guardrail delivery verification sheet which must be completed. The Contractor, engineer, and Central Sign/Guardrail Center representative must all sign off on this sheet before payment may be made.

- F. **Pavement Striping and Pavement Markers.** Permanent striping will be in accordance with Section 112 and Section 713, except that:
- (1). Striping will be 4" in width (8" at entrance and exit ramp tapers),
 - (2). Permanent striping will be in place before a lane is opened to traffic; and
 - (3). Permanent striping will be 4" Pave-Marking Perm Paint (8" Pave-Marking Perm Paint at entrance and exit ramp tapers)
- G. **On-Site Inspection.** Each Contractor submitting a bid for this work will make a thorough inspection of the site prior to submitting a bid and will thoroughly familiarize himself with existing conditions so that the work can be expeditiously performed after a contract is awarded. Submission of a bid will be considered evidence of this inspection having been made. Any claims resulting from site conditions will not be honored by the Department.
- H. **Caution:** Information shown on the drawings and in this proposal and the types and quantities of work listed are not to be taken as an accurate or complete evaluation of the material and conditions to be encountered during construction. The bidder must draw his own conclusions as to the conditions encountered. The Department does not give any guarantee as to the accuracy of the data and no claim will be considered for additional compensation if the conditions encountered are not in accordance with the information above.
- I. **Utility Clearance.** It is not anticipated that 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.

IV. METHOD OF MEASUREMENT

- A. **Maintain and Control Traffic.** See Traffic Control Plan.
- B. **Site Preparation.** Other than the bid items listed, site preparation will not be measured for payment, but will be incidental to the other items of work.
- C. **Dense Graded Aggregate.** DGA will be used for guardrail end treatments and slope repair.

- D. **Inlaid Pavement Markers and Permanent Striping.** Permanent striping Pavement Marking Perm Paint (4" and 8") is measured per linear foot. See Traffic Control Plan. Inlaid Pavement Markers are measured as each.
- E. **Erosion Control Blanket.** Erosion Control Blanket is measured by square yard and is to be used in ditching areas and slope stabilization areas as directed by the Engineer.
- F. **Roadway Excavation.** Roadway Excavation is measured by cubic yard for material below the existing PCC pavement and as directed by the Engineer. The quantity noted for excavation for the proposed typical section will be paid by plan quantity. Any additional excavation of unsuitable material will be measured for payment. Refill/Replacement of removed material with suitable material will **NOT** be measured for payment and will be considered incidental to the bid item for "Roadway Excavation." Suitable material to be used for this purpose shall be approved by the Engineer prior to placement.

V. BASIS OF PAYMENT

No direct payment will be made other than for the bid items listed. All other items required to complete the construction will be incidental to the bid items listed. Existing signs damaged by the Contractor will be replaced by the Contractor at his expense.

- A. **Maintain and Control Traffic.** See Traffic Control Plan.
- B. **Site Preparation.** Other than the bid items listed, no direct payment will be allowed for site preparation, but will be incidental to the other items of work.
- C. **Dense Grade Aggregate.** See Section 302 of the Standard Specifications.
- D. **Inlaid Pavement Markers and Permanent Striping.** See Special Notes and Traffic Control Plan.

**NOTES APPLICABLE TO PROJECT
PAVEMENT REHABILITATION
KY 446 WARREN COUNTY
MILEPOST 0.00 TO 0.97
FD52 114 0446 000-001
Item No. 3-2081.00**

1. The dimensions shown on the typical section for pavement and shoulder widths and thickness are nominal or typical dimensions. The actual dimensions to be constructed may be varied to fit existing conditions as directed or approved by the Engineer. It is not intended that existing pavement or shoulders be widened unless specified in the Proposal.

2. The contractor is to be advised locations of low wires may exist. The following locations are approximate:

KY 446 M.P. 0.48	(Sta. 74+08)
KY 446 M.P. 0.48	(Sta. 74+22)
KY 446 M.P. 0.50	(Sta. 75+03)
KY 446 M.P. 0.63	(Sta. 82+09)
KY 446 Ramp A	(Sta. 46+50)
KY 446 Ramp A	(Sta. 54+81)
KY 446 Ramp B	(Sta. 46+18)

CAUTION: Other Locations may exist. These and all other utilities should be avoided on this project. If any utility is impacted, it will be the contractor's responsibility to contact the affected utility and cover any costs associated with the impact.

3. Guardrail, End Treatments, and Terminal Sections to be replaced are listed by mileposts. Exact placement to be approved by the Engineer on construction.
4. Remove any existing guardrail with a lane closure in place. Do not leave the area unprotected. After the guardrail is removed, a shoulder closure shall remain in place until the guardrail is replaced in that area. The Contractor shall deliver existing salvaged guardrail system materials to the Central Sign Shop and Recycle Center in in Frankfort, KY (502-564-8187) between the hours of 8:00AM and 3:00PM, Monday through Friday and shall be neatly stacked in accordance with section 719.03.07 of the standard specifications. A "Guardrail Delivery Verification Sheet" has been included in this proposal and must be completed prior to delivery for verification of the components delivered. The Contractor, Engineer, and Central Sign Shop and Recycle Center representative must all sign off on this sheet before payment may be made.
5. A quantity of Channel Lining Class II has been included to be applied to eroded areas around drainage outlets and for some of the areas that are to be ditched. The actual limits of ditching and/or channel lining shall be as directed and/or approved by the Engineer. Geotextile Fabric Type I will not be measured for payment and will be considered incidental to channel lining.

6. Any roadway signs that are damaged during construction are to be replaced at the Contractor's expense.
7. Existing roadway lighting is to be maintained throughout the project. Any lighting equipment (poles, wiring, junction boxes, etc.) that is damaged during construction shall be replaced at the Contractor's expense.
8. Any earthwork required for the installation of curb will be considered incidental to the bid item "Island Header Curb Type 2."
9. The Contractor is to deliver and install 3500 linear feet of temporary concrete barrier wall from the KYTC Warren County Maintenance facility at 2098 Three Springs Road in Bowling Green. Payment for this work will be measured and paid per linear foot of "INSTALL TEMP CONC MED BARR". The remaining temporary barrier wall required for the completion of the project shall be provided by the Contractor. Payment for this work will be measured and paid per linear foot of "CONCRETE BARRIER WALL TYPE 9T". The barrier wall is to be delivered and installed from the KYTC Maintenance Facility prior to the delivery of any contractor supplied barrier wall. All barrier wall shall become the property of the contractor upon completion of the project.
10. Ditching is included with this project. The contractor shall remove all debris from ditches, including boulders and brush.
11. The cleaning of existing pipe culvert inlets and outlets 36 inches or less in diameter and perforated pipe headwalls are incidental to the bid item for "Ditching" in accordance with Section 209.03.01 of the 2012 Edition of the Standard Specifications for Road and Bridge Construction. There is a list of locations that have been identified to be cleaned. This list may not be complete and therefore there may be additional outlets which require cleaning. The Engineer will determine any additional outlets to be cleaned.
12. Delineators shall meet the requirements of Section 830 and 838 of the Standard Specifications. Delineators shall be placed in accordance with Section 3F of the M.U.T.C.D.
13. The Department will accept the compaction of asphalt mixtures furnished for the driving lanes at one inch or greater on this project by Option A according to subsections 402 and 403 of the Standard Specifications, Current Edition. Use joint cores as described in subsection 402.03.02 for surface mixtures only. The Department will accept the compaction of all other mixtures by option B.
14. Contrary to Section 723.04.01, "Conduit", of the Standard Specification for Road and Bridge Construction, the Department will measure the quantity in linear feet furnished and installed. Conduit fittings, ground lugs, test plugs, expansion joints, clamps, and weatherheads are incidental to this item of work.
15. Contrary to Section 723.04.03, "Trenching and Backfilling", of the Standard Specification for Road and Bridge Construction, the Department will measure the quantity in linear feet. Excavation, backfilling, underground utility warning tape, and the restoration of disturbed areas to original condition are incidental to this item of work.

16. Contrary to Section 723.04.05, "Loop Wire", of the Standard Specification for Road and Bridge Construction, the Department will measure the quantity in linear feet furnished and installed. Splice boots, cable rings, and any other hardware are incidental to this item of work.
17. Contrary to Section 723.04.06, "Cable", of the Standard Specification for Road and Bridge Construction, the Department will measure the quantity in linear feet furnished and installed. Splice boots, cable rings, and any other hardware are incidental to this item of work.
18. Contrary to Section 723.04.15, "Conduit", of the Standard Specification for Road and Bridge Construction, the Department will measure the quantity in linear feet. All sawing, cleaning and filling induction loop saw slot, loop sealant, backer rod, drilling hole for conduit, and grout are incidental to this item of work.

**TRAFFIC CONTROL PLAN
KY 446, WARREN COUNTY
MILEPOST 0.00 TO 0.79
FD52 114 0446 000-001
Item No. 3-2081.00**

<p>THIS PROJECT IS A PARTIALLY CONTROLLED ACCESS HIGHWAY</p>

TRAFFIC CONTROL GENERAL

Except as provided herein, maintain and control traffic in accordance with the 2012 Standard Specifications and the Standard Drawings, current editions. Except for the roadway and traffic control bid items listed, all items of work necessary to maintain and control traffic will be paid at the lump sum bid price to "Maintain and Control Traffic". All lane closures used on the Project will be in compliance with the appropriate Standard Drawings. Traffic Barrels will be used in the lane closure tapers only. Utilize Concrete Barrier Wall Type 9T throughout the remainder of the lane or shoulder closure areas as directed by the Engineer. During the closure of Ramp B and Ramp D, Tubular Markers spaced 25' on center will be placed between the driving lanes while two-way/two-lane traffic is being maintained on Ramp A. Do NOT use any other cones for lane closures or shoulder closures unless otherwise directed by the Engineer.

Contrary to Section 106.01, traffic control devices used on this project may be new, or used in like-new condition at the beginning of the work and maintained in like-new condition until completion of the work. Traffic Control Devices will conform to current MUTCD.

Reduce the speed limit in work areas to 45 miles per hour and establish double fines for work zone speeding violations. The extent of these areas within the project limits will be restricted to the proximity of actual work areas as determined by the Engineer. Notify the Engineer a minimum of 12 hours prior to using the double fine signs. At the beginning of the work zone, the "WARNING FINE DOUBLED IN WORK ZONE" signs will be dual mounted. At the end of the work zone, the "END DOUBLE FINE" signs will be dual mounted as well. Remove or cover the signs when the highway work zone does not have workers present for more than a two-hour period of time. Payment for the signs will be at the unit bid price for signs erected. Any relocation or covering of signs will be incidental to Maintain and Control Traffic.

Night work is permitted on this project. Obtain approval from the Engineer for the method of lighting prior to its use.

Traffic Control Plan
Warren County
KY 446
Page 2 of 7

PROJECT PHASING & CONSTRUCTION PROCEDURES

The contractor **shall maintain a minimum of one lane** in each direction during all days and hours unless otherwise stated in this proposal or approved by the Engineer. No traffic impacts of any type will be permitted on the following dates:

September 1, 2017 – September 4, 2017 Labor Day Weekend

No lane closures will be permitted on the following dates unless otherwise approved by the Engineer:

November 23, 2017 – November 27, 2017 Thanksgiving Weekend

The minimum clear lane width will be 11 feet. Use a lane closure all times when work is performed in the lane or adjacent shoulder. Shoulders used as temporary roadways will be inspected by the Engineer and if deemed necessary by the Engineer, repaired with Asphalt Mixture for Level & Wedging as directed prior to opening to traffic. Perform any maintenance of the shoulder as deemed necessary by the Engineer in order to maintain traffic. All removal of existing striping shall be by water blasting, unless otherwise directed by the Engineer, and this work shall be considered incidental to “Maintain and Control Traffic.” Remove edge lines as necessary and approved by the Engineer throughout the project. Paint temporary edge lines through the lane closure.

All pavement edge transitions must be smooth and level before opening both lanes up to traffic. A lane closure must be in place during all times that pavement edge drop-offs are present (see Pavement Edge Drop-off note).

Access to all ramps at all interchanges on the project shall be maintained at all times unless otherwise noted in this proposal or directed by the Engineer. All diversions to access ramps in areas of lane closures shall be approved by the Engineer prior to implementing the particular lane closure.

Ramp B and Ramp D may be closed for a period of 17 calendar days to complete all work associated with these ramps. The ramps will be closed beginning on a Friday at 9:00 p.m. (the first weekend) and will be reopened Monday after the third weekend at 6:00 a.m. Westbound traffic will be diverted to the eastbound lanes for access to US 31W during this time period. Tubular Markers spaced 25’ on center will be placed between the driving lanes. Appropriate signing for two-lane/two-way traffic shall be utilized in each direction as directed by the Engineer. Liquidated Damages, at the rate specified per hour in the “Special Note for Fixed Completion Date and Liquidated Damages”, will be assessed for each hour these ramps remain closed to traffic.

Two weekends (Friday 9:00 PM to Monday 6:00 AM) will be allotted for the construction of the Corvette Drive approaches and intersection with KY as directed/approved by the Engineer. The time periods allowed for this construction shall not coincide with the proposed ramp closures at US 31W. Liquidated Damages, at the rate specified per hour in the “Special Note for Fixed Completion Date and Liquidated Damages”, will be assessed for each hour beyond the allotted time that any movements at the Corvette Drive intersection are not permitted due to construction activities.

Note that lane shifts are required throughout the project. See the Exhibits for lane locations and widths. Stripe according to the MUTCD.

Traffic Control Plan
Warren County
KY 446
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During the days and hours when a lane closure is allowed, implement the following procedures: Maintain traffic as specified in the phasing notes. Any other work not requiring traffic lane widths to be restricted due to barrels or equipment encroaching into the interior lanes can be done during the remaining hours when two lanes of traffic must be maintained. Please refer to the "Special Note for Fixed Completion Date and Liquidated Damages" for damage rates per hour associated with failure to maintain the required number of lanes during the specified time period. Once pavement removal at a site has begun, full depth replacement must be completed within the time a lane closure is allowed. Liquidated Damages, at the rate specified per hour in the "Special Note for Fixed Completion Date and Liquidated Damages", will be assessed for each hour the existing number of lanes is not maintained.

The Department will furnish and install all temporary signal equipment for the three (3) signalized intersections on the project. The Contractor must notify the Engineer at least fourteen (14) days prior to beginning any construction activity that will require installation of temporary signal equipment at any location.

The Contractor must notify the Engineer at least fourteen (14) days prior to beginning construction in either direction.

SHOULDER PREPARATION AND RESTORATION

Prior to placing any lane closure that requires shifting traffic onto existing shoulders, patch and remove any foreign debris on the shoulders as directed by the Engineer. Remove failed materials and perform additional patching as directed by the Engineer during the time the shoulder is used as a travel lane. All work required for shoulder preparation and restoration is incidental to Maintenance of Traffic.

PHASE I TEMPORARY MEDIAN CROSSOVER

Utilizing temporary lane closures during working hours only, as needed, shift traffic to the outside lanes as directed by the Engineer and close the inside lanes and shoulders to traffic. On the inside shoulders and median, construct the temporary median crossover.

PHASE II RAMPS B AND D CONSTRUCTION

Eastbound Ramp A traffic is to be shifted to the outside lane. Utilizing the temporary median crossover, divert westbound traffic to the inside lane of eastbound Ramp A as directed by the Engineer. Close Ramp B and Ramp D to traffic. Construct full depth pavement on Ramp B from Sta. 33+40 to sta. 68+00 and full depth pavement for Ramp D. Ramp B and Ramp D may be closed for a period of 17 calendar days to complete all work associated with these ramps. The ramps will be closed beginning on a Friday at 9:00 p.m. (the first weekend) and will be reopened Monday after the third weekend at 6:00 a.m. Once the diversion is in place, the Contractor must work continuously until the pavement has been replaced. Complete any roadside work including guardrail installation and drainage structure repair and installation. The Engineer may restrict the number of locations being repaired at the same time.

Traffic Control Plan
Warren County
KY 446
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PHASE III OUTSIDE SHOULDER, PARTIAL OUTSIDE DRIVING LANE, AND RIGHT TURNING LANE CONSTRUCTION

Shift traffic to the inside lanes as directed by the Engineer and close the outside lanes and shoulder to traffic. On the outside shoulder, right turning lanes, and 6' of the outside driving lane, remove pavement and construct new pavement through the top lift of base. Once the pavement has been removed, the Contractor must work continuously until the pavement has been replaced. Complete any roadside work including guardrail installation and drainage structure repair and installation. The Engineer may restrict the number of locations being repaired at the same time.

PHASE IV INSIDE SHOULDER, INSIDE LANES, LEFT TURN LANES, PARTIAL OUTSIDE LANE, AND RAMPS

Shift traffic to the outside lanes and shoulder as directed by the Engineer and close the inside lanes to traffic. On the inside lanes, shoulder, ramps, and remaining 6' of outside driving lane, remove existing PCC pavement and construct new pavement through the final surface. Once the pavement has been removed, the Contractor must work continuously until the pavement has been replaced. Complete any median work including installation of island header curb, guardrail installation, and drainage structure repair and installation. The Engineer may restrict the number of locations being repaired at the same time. The ramps must remain open at all times.

PHASE V FINAL SURFACE OUTSIDE SHOULDER, LANES, AND RAMPS

Shift traffic to the inside lanes as directed by the Engineer and close the outside lanes and shoulder to traffic. On the outside lanes, shoulder, and ramps construct the final surface course. The Engineer may restrict the number of locations being repaired at the same time. The ramps must remain open at all times.

PHASE VI PLACE PERMANENT STRIPING

After all other work is completed, place permanent striping. Mobile operations may be utilized. In addition to newly paved areas, place permanent striping on bridge decks within the project limits. Place permanent striping in accordance with the latest edition of the MUTCD.

LANE CLOSURES

Limit the lengths of lane closures to only that needed for actual operations in accordance with the phasing specified herein, or as directed by the Engineer. Limit lane closures to allow one lane open per direction at any given time. Contrary to section 112, lane closures will **NOT** be measured for payment, but are considered incidental to Maintain and Control Traffic.

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SIGNS

Additional traffic control signs in addition to normal lane closure signing detailed on the Standard Drawings may be required by the Engineer. Additional signs needed for lane closures may include, but are not limited to, dual mounted TRUCKS USE LEFT/RIGHT LANE, LEFT/RIGHT LANE CLOSED 1 MILE, LEFT/RIGHT LANE CLOSED 2 MILE, LEFT/RIGHT LANE CLOSED 3 MILE, SLOWED/STOPPED TRAFFIC AHEAD. Signage for reduced speed limits and double fine work zones will be furnished, relocated, and maintained by the Contractor.

Contrary to section 112, individual signs will be measured only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. Replacements for damaged signs or signs directed to be replaced by the Engineer due to poor legibility or reflectivity will not be measured for payment.

A quantity of signs has been included for lane shifts, "Roadwork Ahead" signs on entrance ramps, and extra Double Fine signs and Speed Limit signs between interchanges to be paid only once no matter how many times they are moved or relocated.

FLASHING ARROWS

Flashing arrows will be paid for once, no matter how many times they are moved or relocated. The Department **WILL NOT** take possession of the flashing arrows upon completion of the work.

PORTABLE CHANGEABLE MESSAGE SIGNS

Provide portable changeable message signs in advance of and within the project at locations to be determined by the Engineer. If work is in progress concurrently in both directions, or if more than one lane closure is in place in the same direction of travel, provide additional portable changeable message signs. Place portable changeable message signs one mile in advance of the anticipated queue at each lane closure. As the actual queue lengthens and/or shortens relocate or provide additional portable changeable message signs so that traffic has warning of slowed or stopped traffic at least one mile but not more than two miles before reaching the end of the actual queue. The locations designated may vary as the work progresses. The messages required to be provided will be designated by the Engineer. The portable changeable message signs will be in operation at all times. In the event of damage or mechanical/electrical failure, the Contractor will repair or replace the Portable Changeable Message Sign immediately. Portable Changeable Message Signs will be paid for once, no matter how many times they are moved or relocated. The Department **WILL NOT** take possession of the signs upon completion of the work.

Traffic Control Plan
Warren County
KY 446
Page 6 of 7

PAVEMENT MARKINGS

If lane closures are in place during nighttime hours, remove or cover the lenses of raised pavement markers that do not conform to the traffic control scheme in use, or as directed by the Engineer. Replace or uncover lenses before a closed lane is reopened to traffic. No direct payment will be made for removing and replacing or covering and uncovering the lenses, but will be incidental to "Maintain and Control Traffic".

Place temporary and permanent striping in accordance with Section 112 and Section 71, except that:

1. Temporary and permanent striping will be 4" in width; and
2. If the contractor's operations or phasing requires temporary markings which must be subsequently removed from the ultimate pavement, an approved removable lane tape will be used; however removable tape will be measured and paid as Pavement Striping-Temporary Paint 4"; and
3. Edge lines will be required for temporary striping; and
4. Existing, temporary, or permanent striping will be in place before a lane is opened to Traffic.
5. Place permanent striping on pavement within the project limits.
6. Permanent striping will be Permanent Paint.

Should the Contractor change the existing striping pattern, the Contractor is to restripe the roadway back to its original configuration after a certain period of time, especially if no work is anticipated for a period of time (i.e. winter shutdown).

PAVEMENT EDGE DROP-OFFS

Pavement edge drop-offs will be protected by a lane or shoulder closure. Lane closures will be protected with temporary barrier walls, grabber delineator cones, vertical panels, or barricades as shown on the Standard Drawings.

A pavement edge between opposing directions of traffic or lanes that traffic is expected to cross in a lane change situation shall not have an elevation difference greater than 1 ½". Place warning signs (MUTCD W8-11 or W8-9A) in advance of and at 1500' intervals throughout the drop-off area. Dual posting on both sides of the traveled way shall be required. Wedge all transverse transitions between resurfaced and unresurfaced areas which traffic may cross with asphalt mixture for leveling and wedging. Remove the wedges prior to placement of the final surface course. Pavement edges that traffic is not expected to cross, except accidentally, shall be treated as follows:

Less than 2" – Protect with a lane closure.

2" to 4" – Protect with a lane closure. Place grabber delineator cones, vertical panels, or barricades every 50 feet. Traffic cones may not be used in place of grabber cones, panels, and barricades at any time. Construct a wedge with compacted cuttings from milling, trenching, or asphalt mixtures with a 3:1 or flatter slope, when work is not active in the drop-off area. Place Type III Barricades at the

Traffic Control Plan
Warren County
KY 446
Page 7 of 7

beginning of the lane closures, and place additional Type III Barricades spaced at 2,500 feet during the time the lane closure is in place.

Greater than 4" – Pavement Repair areas – In areas where pavement is to be removed, work should proceed continuously so that traffic is exposed to a drop-off for the minimum amount of time necessary to bring the pavement back up to existing grade. Temporary Barrier Wall Type 9T shall be installed and appropriate lighting should be utilized to illuminate the area during nighttime operations.

Guardrail Installation – Guardrail will be removed at the last practical moment and replaced as soon as the placement of all base courses in an area requiring guardrail is complete. All areas from which guardrail is removed shall be protected by a shoulder closure or other method approved by the Engineer until the new guardrail is installed.

TRAFFIC COORDINATOR

Designate an employee to be Traffic Coordinator. The designated Traffic Coordinator must be certified by an agency qualified for training in this area. 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.

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 queue lengths change. 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

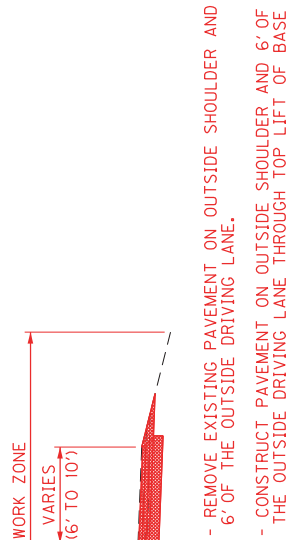
The Contractor is advised that other projects may be in progress within or in the near vicinity of this project. The traffic control of those projects may affect this project and the traffic control of this project may affect those projects. The Contractor will coordinate the work on this project with 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.

CONTRACTOR'S AND CONTRACTOR'S EMPLOYEES' VEHICLES

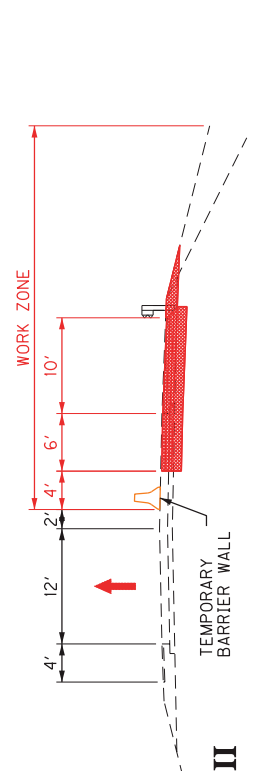
Do not use or allow employees to use median crossovers at any time except when inside lanes are closed for construction. In all other phases of construction, change vehicular direction of travel only at interchanges or signalized intersections.

COUNTY OF	ITEM NO.	SHEET NO.
WARREN	3-2081.00	

KY 446 MAINTENANCE OF TRAFFIC TYPICAL SECTIONS

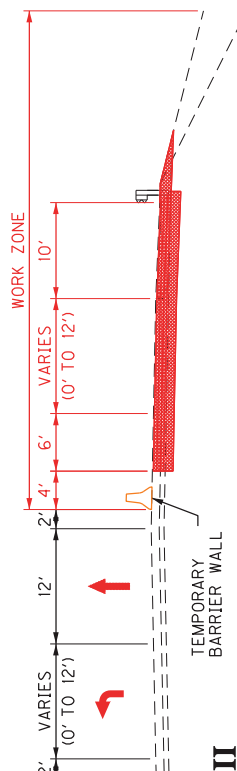


- REMOVE EXISTING PAVEMENT ON OUTSIDE SHOULDER AND 6' OF THE OUTSIDE DRIVING LANE.
- CONSTRUCT PAVEMENT ON OUTSIDE SHOULDER AND 6' OF THE OUTSIDE DRIVING LANE THROUGH TOP LIFT OF BASE



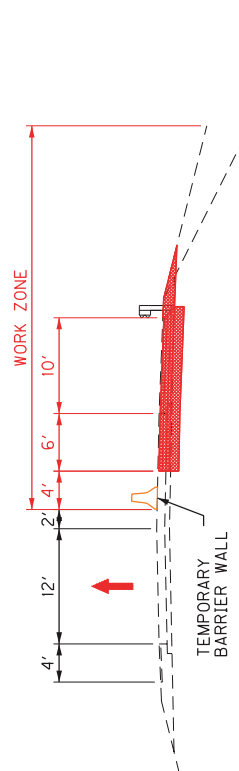
- REMOVE EXISTING PAVEMENT ON OUTSIDE SHOULDER AND 6' OF THE OUTSIDE DRIVING LANE THROUGH THE TOP LIFT OF BASE
- CONSTRUCT PAVEMENT ON OUTSIDE SHOULDER AND 6' OF THE OUTSIDE DRIVING LANE THROUGH THE TOP LIFT OF BASE

PHASE III KY 446 M.P. 0.43 TO M.P. 0.55



- REMOVE EXISTING PAVEMENT ON OUTSIDE SHOULDER, TURN LANE, AND 6' OF THE OUTSIDE DRIVING LANE.
- CONSTRUCT PAVEMENT ON OUTSIDE SHOULDER, TURN LANE, AND 6' OF THE OUTSIDE DRIVING LANE THROUGH TOP LIFT OF BASE

PHASE III KY 446 M.P. 0.73 TO M.P. 0.79



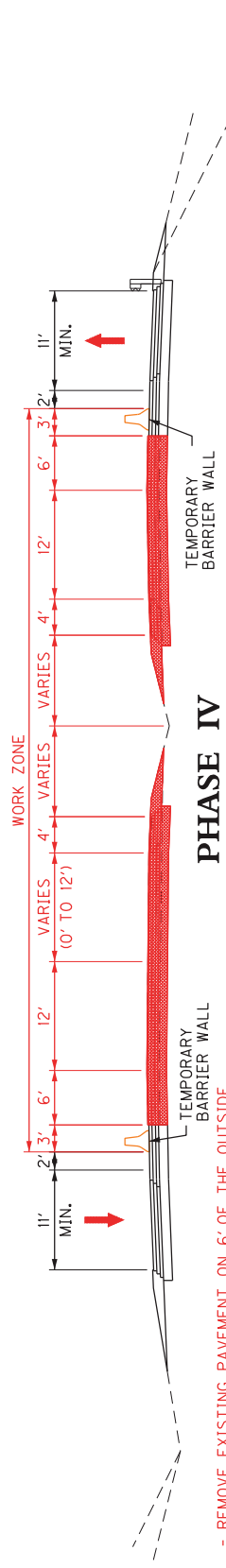
- REMOVE EXISTING PAVEMENT ON OUTSIDE SHOULDER AND 6' OF THE OUTSIDE DRIVING LANE
- CONSTRUCT PAVEMENT ON OUTSIDE SHOULDER AND 6' OF THE OUTSIDE DRIVING LANE THROUGH THE TOP LIFT OF BASE

NOT TO SCALE

KY 446
MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS

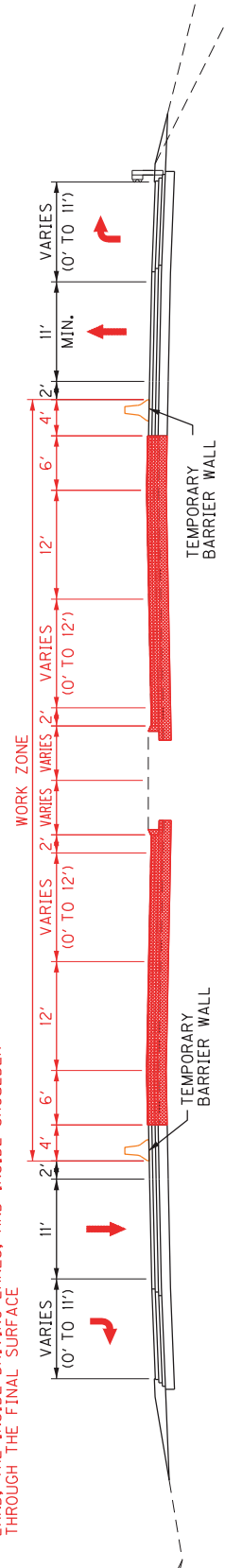
COUNTY OF	ITEM NO.	SHEET NO.
WARREN	3-2081.00	

KY 446 MAINTENANCE OF TRAFFIC TYPICAL SECTIONS



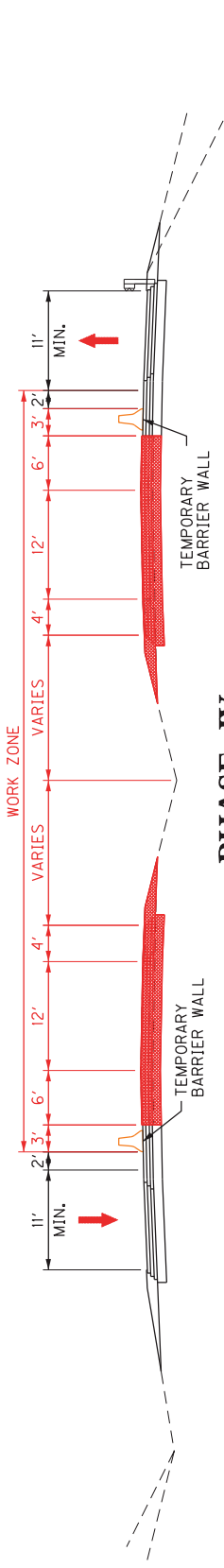
**PHASE IV
KY 446
M.P. 0.43 TO M.P. 0.55**

- REMOVE EXISTING PAVEMENT ON 6' OF THE OUTSIDE DRIVING LANE, THE INSIDE DRIVING LANES, AND INSIDE SHOULDER
- CONSTRUCT PAVEMENT ON 6' OF THE OUTSIDE DRIVING LAND, THE INSIDE DRIVING LANES, AND INSIDE SHOULDER THROUGH THE FINAL SURFACE



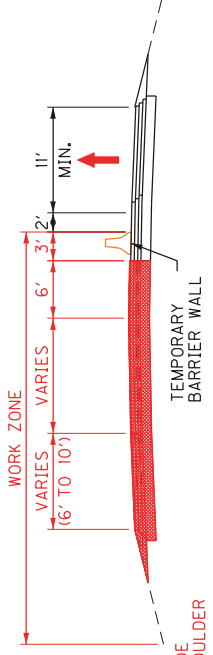
**PHASE IV
KY 446
M.P. 0.55 TO M.P. 0.73**

- REMOVE EXISTING PAVEMENT ON 6' OF THE OUTSIDE DRIVING LANE, THE INSIDE DRIVING LANES, AND SHOULDER
- CONSTRUCT ISLAND HEADER CURB ON MEDIAN
- CONSTRUCT PAVEMENT ON 6' OF THE OUTSIDE DRIVING LANE, THE INSIDE DRIVING LANES, AND SHOULDER THROUGH THE FINAL SURFACE



**PHASE IV
KY 446
M.P. 0.73 TO M.P. 0.79**

- REMOVE EXISTING PAVEMENT ON 6' OF THE OUTSIDE DRIVING LANE, THE INSIDE DRIVING LANES, AND INSIDE SHOULDER
- CONSTRUCT PAVEMENT ON 6' OF THE OUTSIDE DRIVING LAND, THE INSIDE DRIVING LANES, AND INSIDE SHOULDER THROUGH THE FINAL SURFACE



**PHASE IV
RAMPS**

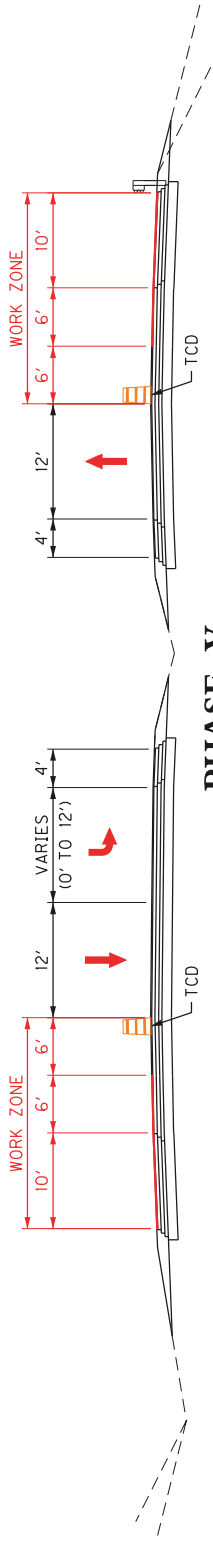
- REMOVE EXISTING PAVEMENT ON 6' OF THE OUTSIDE DRIVING LANE, THE INSIDE DRIVING LANE, AND SHOULDER
- CONSTRUCT PAVEMENT ON 6' OF THE OUTSIDE DRIVING LANE, THE INSIDE DRIVING LANE, AND SHOULDER THROUGH THE FINAL SURFACE

NOT TO SCALE

KY 446
MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS

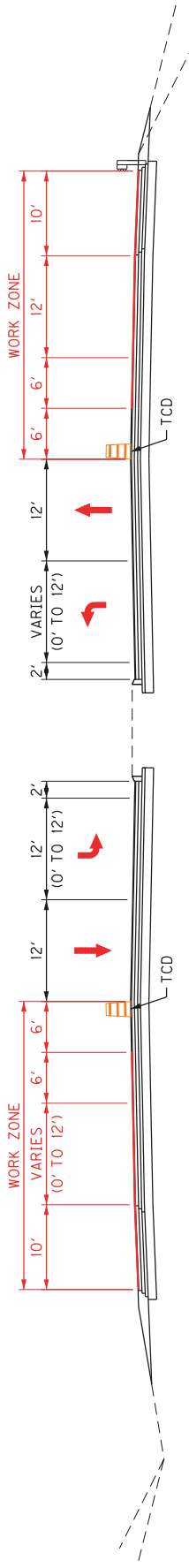
COUNTY OF	ITEM NO.	SHEET NO.
WARREN	3-2081.00	

KY 446
MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS



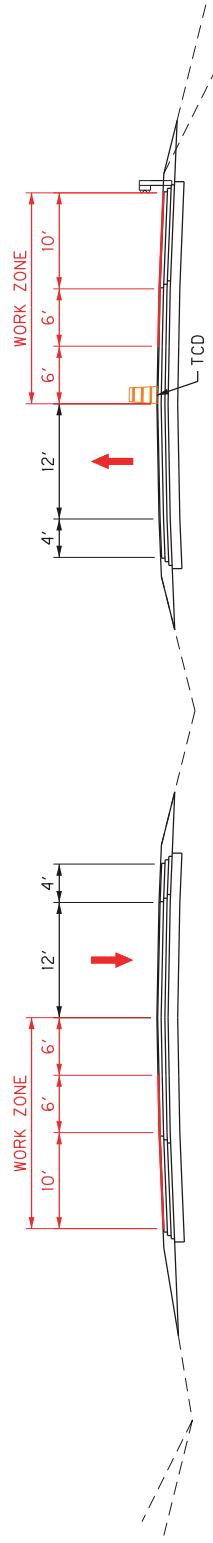
PHASE V
KY 446
M.P. 0.43 TO M.P. 0.55

- CONSTRUCT FINAL SURFACE ON THE OUTSIDE LANES AND SHOULDER



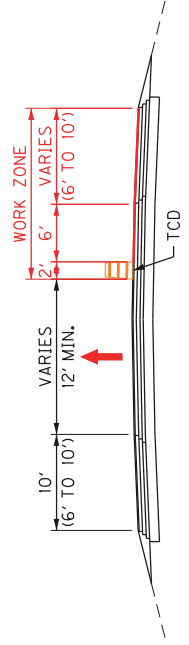
PHASE V
KY 446
M.P. 0.55 TO M.P. 0.73

- CONSTRUCT FINAL SURFACE ON THE OUTSIDE LANES AND SHOULDER



PHASE V
KY 446
M.P. 0.73 TO M.P. 0.79

- CONSTRUCT FINAL SURFACE ON THE OUTSIDE LANE AND SHOULDER



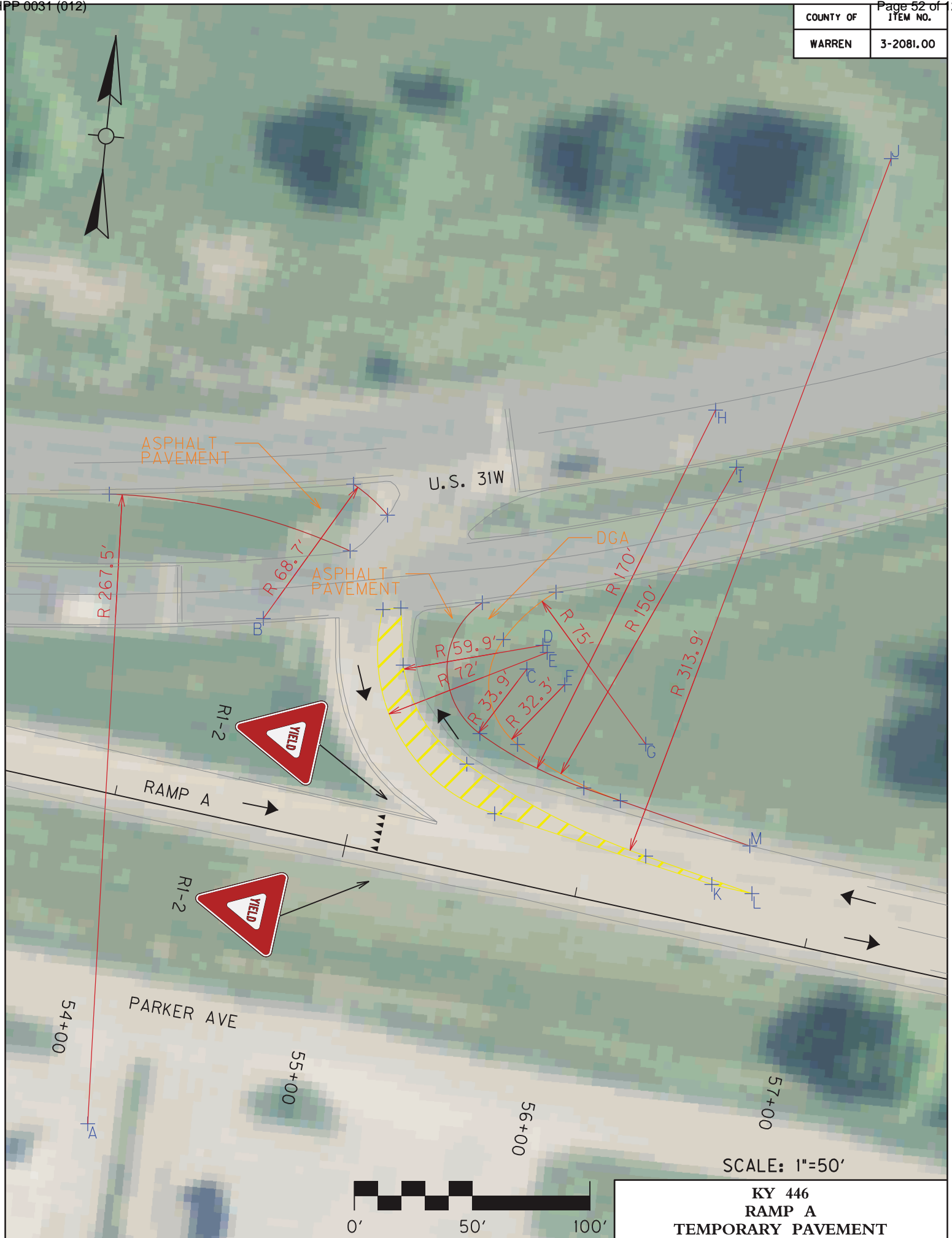
PHASE V
RAMPS

- CONSTRUCT FINAL SURFACE ON THE OUTSIDE LANE AND SHOULDER

NOT TO SCALE

KY 446
MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS

COUNTY OF	ITEM NO.
WARREN	3-2081.00



SCALE: 1"=50'

**KY 446
RAMP A
TEMPORARY PAVEMENT**

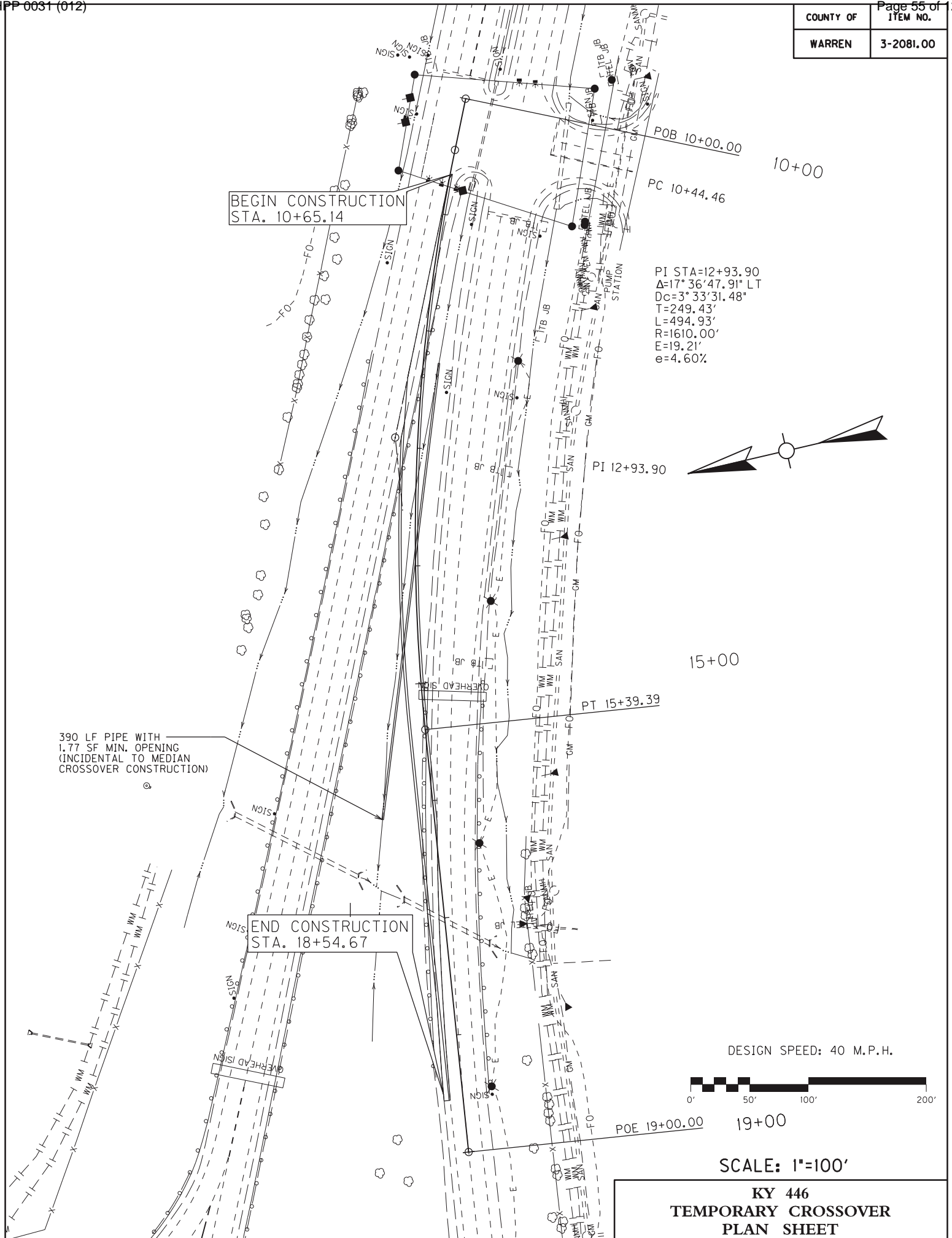
US 31W APPROACH TEMPORARY PAVEMENT POINT COORDINATES					
KY 446 - WARREN COUNTY					
MILEPOST 0.00 - 0.79					
ITEM NUMBER 3-2081.00					
POINT	DESCRIPTION	RAMP A STATION	OFFSET	STATE PLANE COORDIANTES	
				NORTH (Y)	EAST (X)
A	ARC A CENTER @ 267.5' RADIUS	54+18.99	138.94	3527670.4213	4736257.7167
-	ARC A BGN	53+70.02	124.09	3527937.4389	4736240.8657
-	ARC A END	54+75.09	122.66	3527923.3350	4736344.9919
B	ARC B CENTER @ 68.7' RADIUS	54+45.29	86.69	3527891.2237	4736311.0723
-	ARC B BGN	54+70.35	150.61	3527951.6575	4736343.6648
-	ARC B END	54+87.34	140.97	3527940.0300	4736359.3679
C	ARC C CENTER @ 33.9' RADIUS	55+59.23	89.94	3527880.6967	4736424.5639
-	ARC C BGN	55+34.67	113.35	3527906.9004	4736403.0102
-	ARC C END	55+45.66	58.84	3527851.4611	4736407.3454
D	ARC D CENTER @ 59.9' RADIUS	55+63.66	101.27	3527891.4110	4736430.3290
-	ARC D BGN	55+07.57	80.19	3527877.2604	4736372.1083
-	ARC D END	55+43.08	45.00	3527838.0353	4736403.1091
E	ARC E CENTER @ 72.0' RADIUS	55+66.10	98.69	3527888.5515	4736432.4388
-	ARC E BGN	54+94.11	101.35	3527899.8863	4736361.2979
-	ARC E END	55+59.17	26.98	3527818.2087	4736416.9024
F	ARC F CENTER @32.3' RADIUS	55+76.35	86.94	3527875.6537	4736441.1972
-	ARC F BGN	55+46.78	99.98	3527892.1641	4736413.4150
-	ARC F END	55+62.28	57.85	3527848.4710	4736423.7174
G	ARC G CENTER @ 75.0' RADIUS	56+15.40	69.72	3527853.8484	4736477.8891
-	ARC G BGN	55+64.22	124.54	3527914.4450	4736433.6958
-	ARC G END	55+46.78	99.98	3527892.1641	4736413.4150
H	ARC H CENTER @ 170.0' RADIUS	56+13.62	214.66	3527997.9438	4736493.6172
-	ARC H BGN	55+45.66	58.84	3527851.4611	4736407.3454
-	ARC H END	55+93.76	45.83	3527832.7415	4736453.5147
I	ARC I CENTER @ 150.0' RADIUS	56+27.58	192.88	3527974.6366	4736504.8483
-	ARC I BGN	55+62.28	57.85	3527848.4710	4736423.7174
-	ARC I END	56+10.06	43.91	3527828.8699	4736469.4638
J	ARC J CENTER @ 313.9' RADIUS	56+63.31	334.99	3528111.3871	4736557.4737
-	ARC J BGN	55+43.08	45.00	3527838.0353	4736403.1091
-	ARC J END	56+25.70	23.32	3527806.5425	4736482.5110
K	TANGENT POINT	56+55.69	17.65	3527797.2950	4736511.5916
L	TANGENT POINT	56+73.14	17.51	3527795.0451	4736528.8970
M	TANGENT POINT	56+67.92	37.10	3527815.1265	4736526.0799

**3-2081.00 WARREN
CROSSOVER X-SECTION PLAN SHEETS**

**CROSSOVER X-SECTION PLAN SHEETS WHICH ARE TO SCALE ARE
AVAILABLE TO VIEW AND PRINT IN THE PROJECT-RELATED INFORMATION
FOLDER FOR THIS LETTING AT THE CONSTRUCTION PROCUREMENT
WEBSITE:**

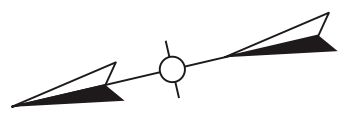
<http://transportation.ky.gov/Construction-Procurement/Pages/default.aspx>

COUNTY OF	ITEM NO.
WARREN	3-2081.00



BEGIN CONSTRUCTION
STA. 10+65.14

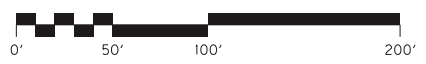
POB 10+00.00
 PC 10+44.46
 PI STA=12+93.90
 $\Delta=17^{\circ} 36' 47.91''$ LT
 $Dc=3^{\circ} 33' 31.48''$
 T=249.43'
 L=494.93'
 R=1610.00'
 E=19.21'
 e=4.60%



390 LF PIPE WITH
1.77 SF MIN. OPENING
(INCIDENTAL TO MEDIAN
CROSSOVER CONSTRUCTION)

END CONSTRUCTION
STA. 18+54.67

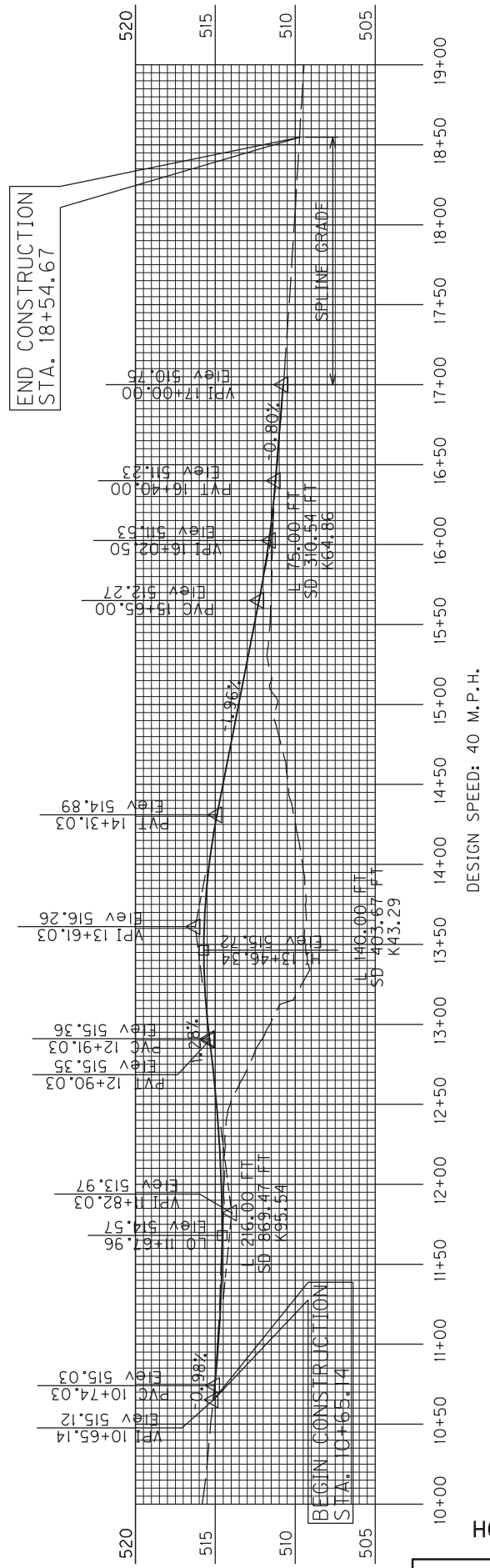
DESIGN SPEED: 40 M.P.H.



SCALE: 1"=100'

KY 446
 TEMPORARY CROSSOVER
 PLAN SHEET

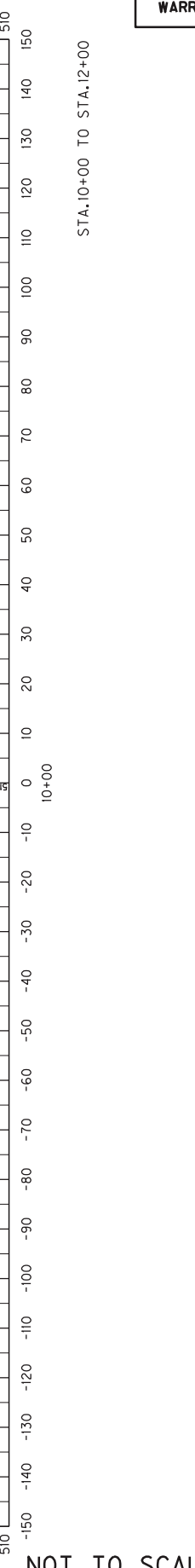
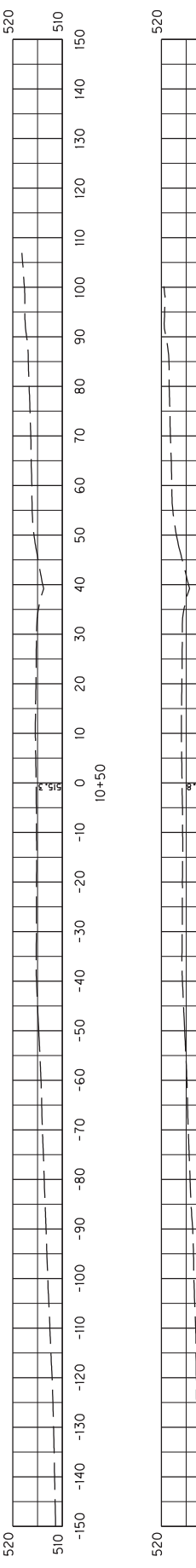
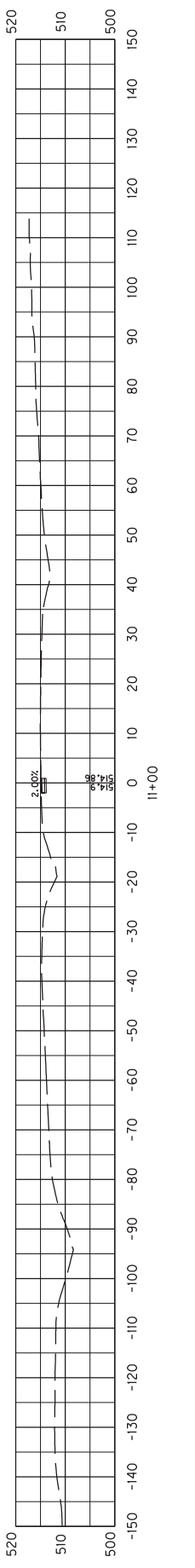
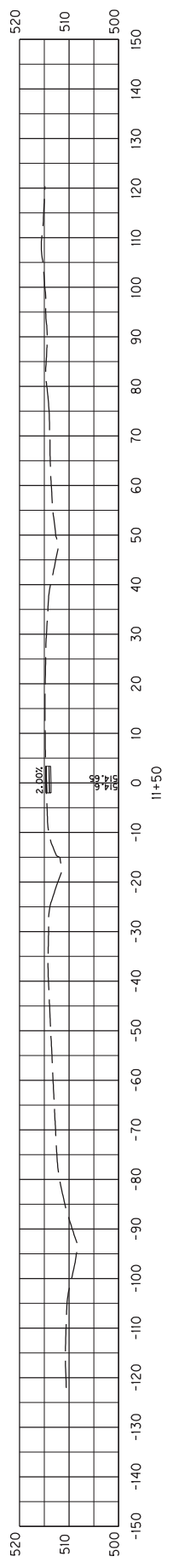
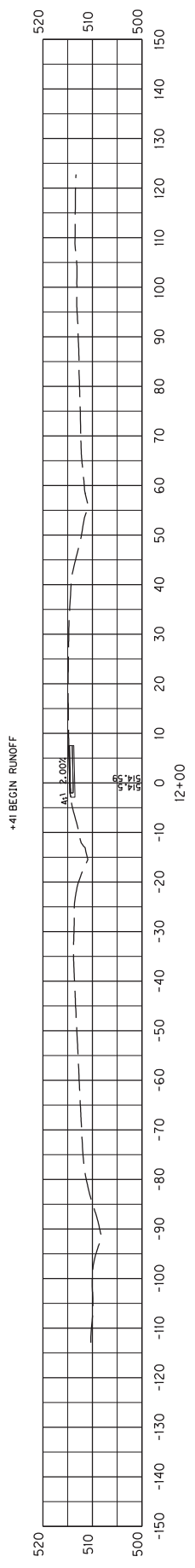
COUNTY OF	ITEM NO.
WARREN	3-2081.00



HORIZONTAL SCALE: 1"=100'
VERTICAL SCALE: 1"=10'

KY 446
TEMPORARY CROSSOVER
PROFILE SHEET

COUNTY OF	ITEM NO.
WARREN	3-2081.00

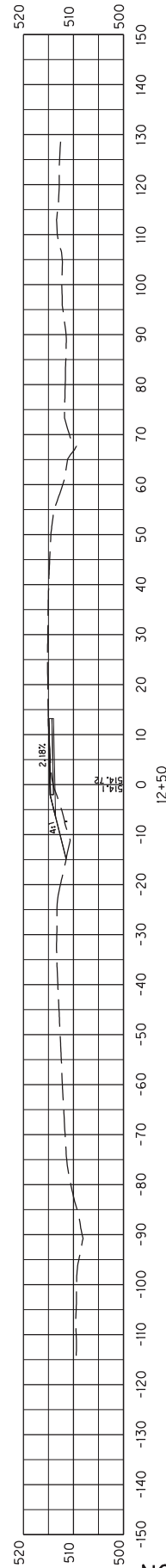
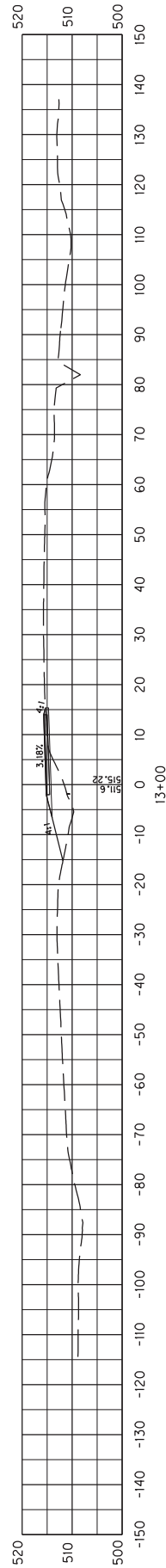
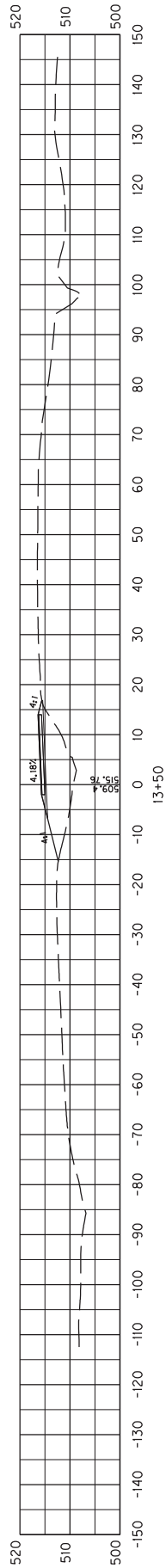
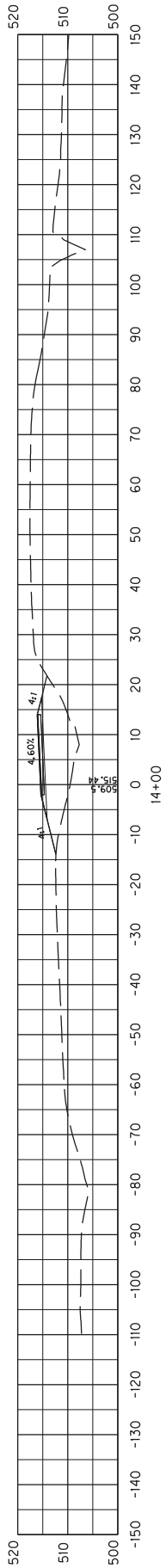


STA. 10+00 TO STA. 12+00

NOT TO SCALE

**KY 446
TEMPORARY CROSSOVER
X-SECTION (1 OF 6)**

COUNTY OF	ITEM NO.
WARREN	3-2081.00

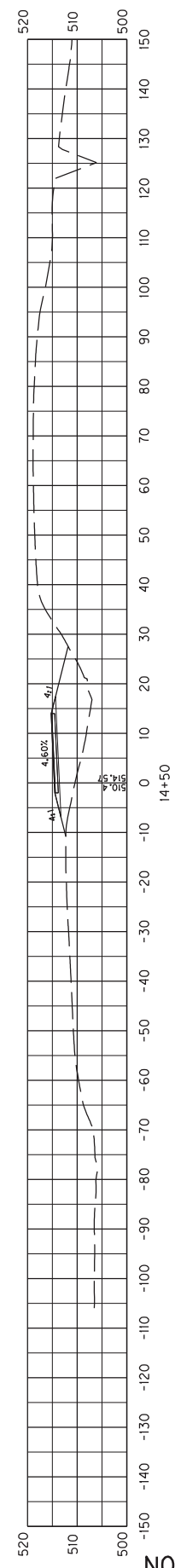
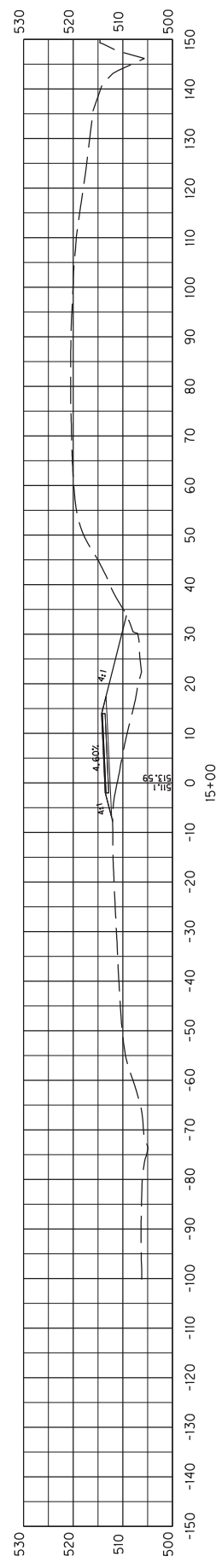
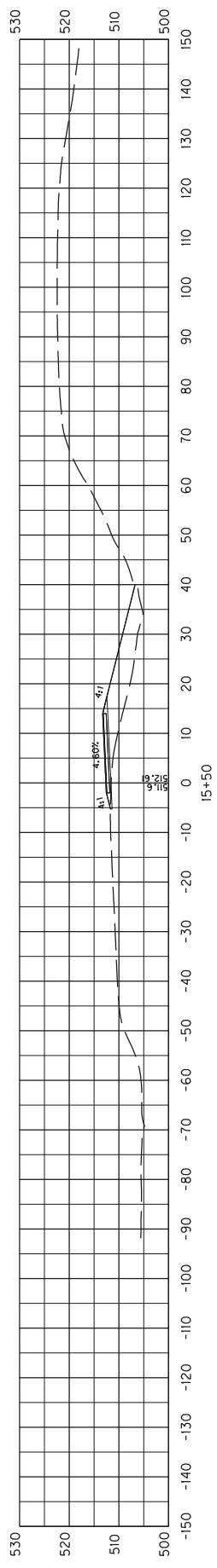


STA. 12+50 TO STA. 14+00

NOT TO SCALE

KY 446
TEMPORARY CROSSOVER
X-SECTION (2 OF 6)

COUNTY OF	ITEM NO.
WARREN	3-2081.00

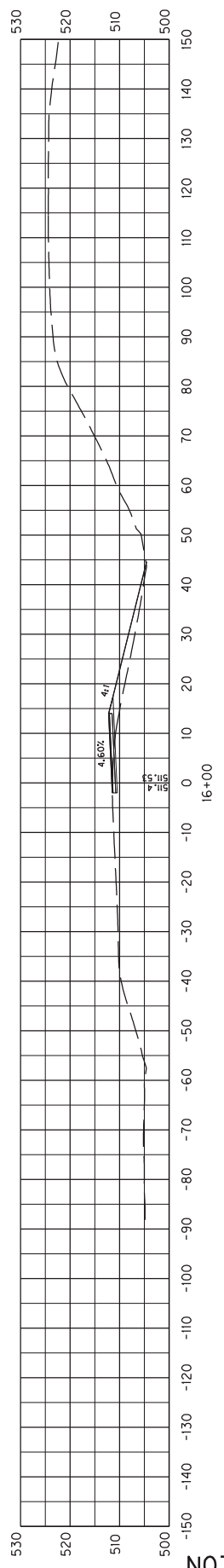
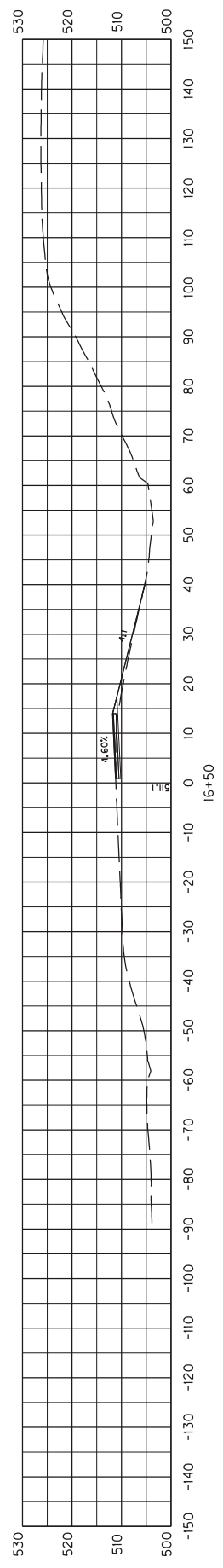
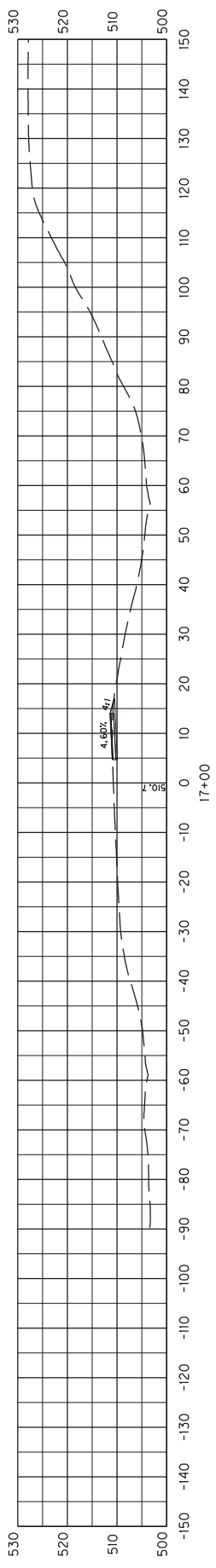


STA. 14+50 TO STA. 15+50

NOT TO SCALE

KY 446
TEMPORARY CROSSOVER
X-SECTION (3 OF 6)

COUNTY OF	ITEM NO.
WARREN	3-2081.00

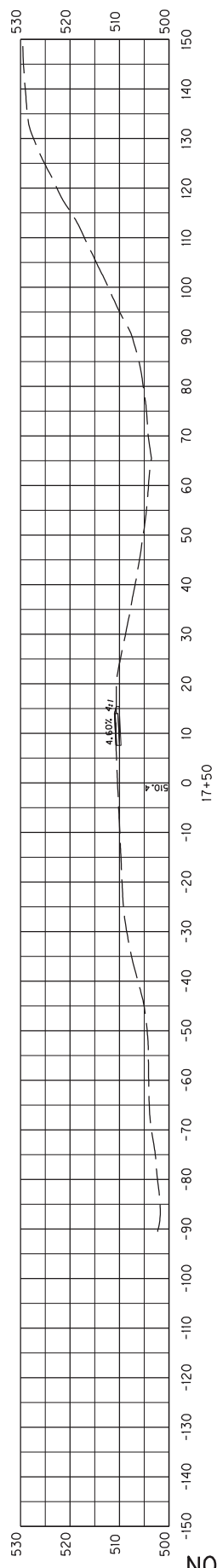
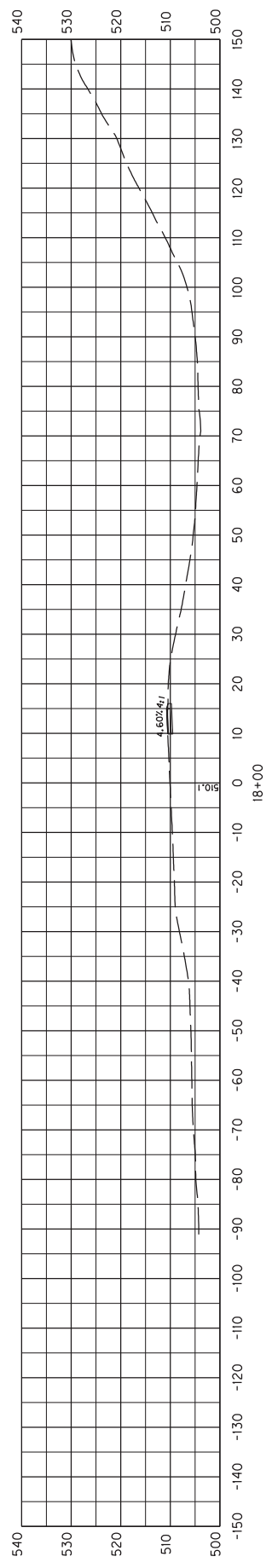
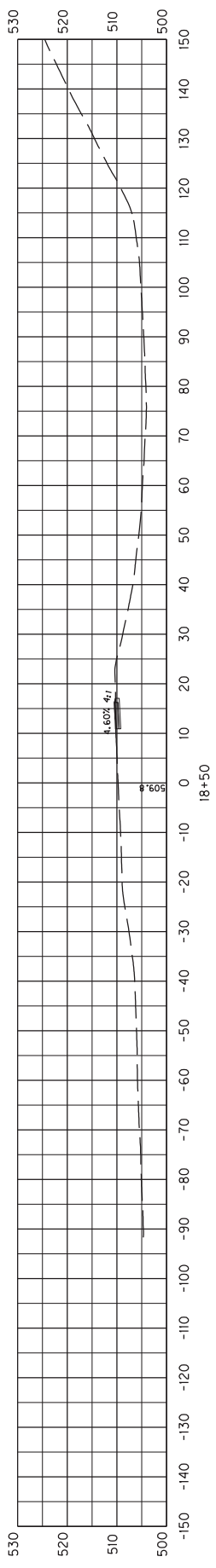


STA. 16+00 TO STA. 17+00

NOT TO SCALE

**KY 446
TEMPORARY CROSSOVER
X-SECTION (4 OF 6)**

COUNTY OF	ITEM NO.
WARREN	3-2081.00

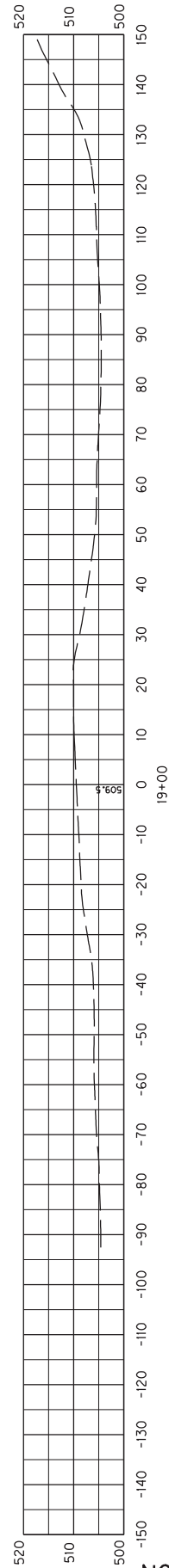


STA. 17+50 TO STA. 18+50

NOT TO SCALE

**KY 446
TEMPORARY CROSSOVER
X-SECTION (5 OF 6)**

COUNTY OF	ITEM NO.
WARREN	3-2081.00



NOT TO SCALE

**KY 446
TEMPORARY CROSSOVER
X-SECTION (6 OF 6)**

REFERENCES

1. *Kentucky Transportation Cabinet, Department of Highways, Standard Specifications for Road and Bridge Construction, Edition of 2012.*
2. FHWA Manual on Uniform Traffic Control Devices.
3. Active Sepia List

<u>Drawing No.</u>	<u>Drawing Name</u>
005	Shoulder & Edgeline Rumble Strip Details
008	Rumble Strip Details Multi-Lane Roadways and Ramps

4. Kentucky Department of Highways Standard Drawings, current editions, as applicable:

RBC-002	Guardrail Connector to Bridge End Type A Components
RBC-003	Guardrail Connector to Bridge End Type A and A-1 Components
RBC-005	Guardrail Connector to Bridge End Type A
RBC-006	Guardrail Connector to Bridge End Type A-1
RBI-001	Typical Guardrail Installations
RBI-002	Typical Guardrail Installations
RBI-003	Installation of Guardrail End Treatment Type 2A
RBI-004	Installation of Guardrail End Treatment Type 1
RBI-006	Guardrail Installation at Sign Supports
RBR-001	Steel Beam Guardrail ("W" Beam)
RBR-005	Guardrail Components
RBR-015	Guardrail Posts
RBR-016	Guardrail Posts
RBR-020	Guardrail End Treatment Type 1
RBR-025	Guardrail End Treatment Type 2A
RBR-055	Delineators for Guardrail
RDB-150	Metal End Section Type 1 And 2 (Parallel Structures)
RDB-160	Dimensions for Metal End Sections
RDD-040	Channel Lining Class II and III
RDH-005	Concrete Headwalls for 12"-27" Circular Pipe Culverts
RDH-110	Pipe Culvert Headwalls 0° Skew
RDH-210	Dimensions & Quantities 30"-108" Headwalls Circular Pipe 0° Skew
RDH-310	Bill of Reinforcement 30" to 90" Diameter Circular Pipe Headwalls 0° Skew
RDI-001	Culvert, Entrance & Storm Sewer Pipe Types and Cover Heights (12" – 24" Pipe)
RDI-002	Culvert, Entrance & Storm Sewer Pipe Types and Cover Heights (27" – 42" Pipe)
RDI-020	Pipe Bedding for Culverts, Entrance and Storm Sewer Pipe
RDI-021	Pipe Bedding for Culverts, Entrance, and Storm Sewer Reinforced Conc. Pipe
RDI-025	Pipe Bedding Trench Condition
RDI-026	Pipe Bedding Trench Condition Reinforced Conc. Pipe
RGS-002	Superelevation for Multilane Pavement
RGX-001	Miscellaneous Standards Part I
RPM-001	Permanent U-Turn Median Opening
RPM-100	Curb and Gutter, Curbs and Valley Gutter
RPM-110	Approaches, Entrances and Mail Box Turnout
TPM-100	Pavement Marker Arrangements Multi-Lane Roadways

TPM-105	Pavement Marker Arrangements Multi-Lane Roadways
TPM-125	Pavement Marker Arrangement Exit Gore and Off-Ramp
TPM-126	Pavement Marker Arrangement for Parallel Deceleration Lane
TPM-130	Pavement Marker Arrangement On-Ramp with Tapered Acceleration Lane
TPM-135	Pavement Marker Arrangement On-Ramp with Parallel Acceleration Lane
TPM-165	Shoulder & Edge Line Rumble Strip Details
TPM-171	Flexible Delineator Post Arrangements for Interchange Ramps and Crossovers
TTC-115	Lane Closure Multi-Lane Highway Case I
TTC-120	Lane Closure Multi-Lane Highway Case II
TTC-125	Double Lane Closure
TTD-110	Post Splicing Detail
TTD-120	Double Fines Zone Signs
TTD-125	Pavement Condition Warning Signs
TTS-110	Mobile Operation for Paint Striping Case III
TTS-115	Mobile Operation for Paint Striping Case IV
TTS-120	Mobile Operation for Durable Striping Case I
TTS-125	Mobile Operation for Durable Striping Case II

5. *Kentucky Transportation Cabinet, Department of Highways, Standard Specifications for Road and Bridge Construction, Edition of 2012, Appendix B - Supplemental Specifications, as applicable:*

Special Note	1I Portable Changeable Message Signs (6/15/2012)
Special Note	Typical Section Dimensions <i>attached</i>
Special Note	Before You Dig <i>attached</i>
Special Note	Guardrail Delivery Verification Sheet <i>attached</i>
Special Note	Fixed Completion Date and Liquidated Damages <i>attached</i>
Special Note	Inlaid Pavement Markers <i>attached</i>
Special Note	Shoulder Preparation and Restoration <i>attached</i> (See MOT Notes)

**SPECIAL NOTE FOR TYPICAL SECTION DIMENSIONS
KY 446 WARREN COUNTY
ITEM NO. 3-2081.00**

The dimensions shown on the typical sections for pavement and shoulder widths are nominal or typical dimensions. The actual dimensions to be constructed may be varied to fit existing conditions as directed or approved by the Engineer. It is not intended that existing pavement or shoulders be widened unless specified elsewhere in the Proposal.

SPECIAL NOTE FOR 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 members of the KY 811 one-call Before-U-Dig (BUD) service. The contractor must coordinate excavation 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 the area.

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: _____

**Special Note for Fixed Completion Date and
Liquidated Damages
KY 446, Warren County
Item No. 3-2081.00**

Contrary to Section 108.09, Liquidated Damages of \$5,000 per calendar day will be assessed for each day or fraction thereof work remains uncompleted beyond the Specified Completion Date. This project has a Fixed Completion Date of November 30, 2017.

In addition to the Liquidated Damages specified above, Liquidated Damages in the following amounts will be charged when a lane/road closure remains in place during the prohibited period outlined in the Traffic Control Plan:

Corvette Drive Intersection:	\$2,000 per hour or fraction thereof
Ramp Closures:	\$1,000 per hour or fraction thereof

Note: No additional time will be permitted due to quantity overruns.

These hourly disincentives will still be in effect after the Fixed Completion Date and will be charged in addition to the \$5,000 per calendar day if warranted. The contractor is expected to make every effort to complete the work in order to open the ramp or mainline lane closure within a specified timeframe.

Contrary to Section 108.09 of the Standard Specifications, **the disincentive fee will be charged during those periods when seasonal limitations of the Contract prohibit the Contractor from working on a controlling item or operation. This includes the months from December through March.**

All liquidated damages will be applied cumulatively.

All other applicable portions of Section 108 apply.

SPECIAL NOTE FOR INLAID PAVEMENT MARKERS

I. DESCRIPTION

Except as provided herein, perform all work in accordance with the Department's Standard and Supplemental Specifications and applicable Standard and Sepia Drawings, current editions. Article references are to the Standard Specifications. This work shall consist of:

- (1) Maintain and Control Traffic; and (2) Furnish and install Inlaid Pavement Markers (IPMs) in recessed grooves; and (3) Any other work as specified by these notes and the Contract.

II. MATERIALS

The Department will sample all materials in accordance with the Department's Sampling Manual. 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 unless otherwise specified in these Notes.

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Markers.** Provide reflective lenses with depth control breakaway positioning tabs. Before furnishing the markers, provide to the Engineer the manufacturer's current recommendations for adhesives and installation procedures. Use one brand and design throughout the project. Use markers meeting the specifications in the table below

SPECIFICATIONS FOR HOUSING AND REFLECTOR	
Material:	Polycarbonate Plastic
Weight:	Housing 2.00 oz.
	Reflector 2.00oz.
Housing Size:	5.00" x 3.00" x 0.70" high
Specific Intensity of Reflectivity at 0.2° Observation Angle	
White:	3.0 at 0°entrance angle
	1.2 at 20°entrance angle
Yellow:	60% of white values
Red:	25% of white values

- C. Adhesives.** Use adhesives that conform to the manufacturer's recommendations.

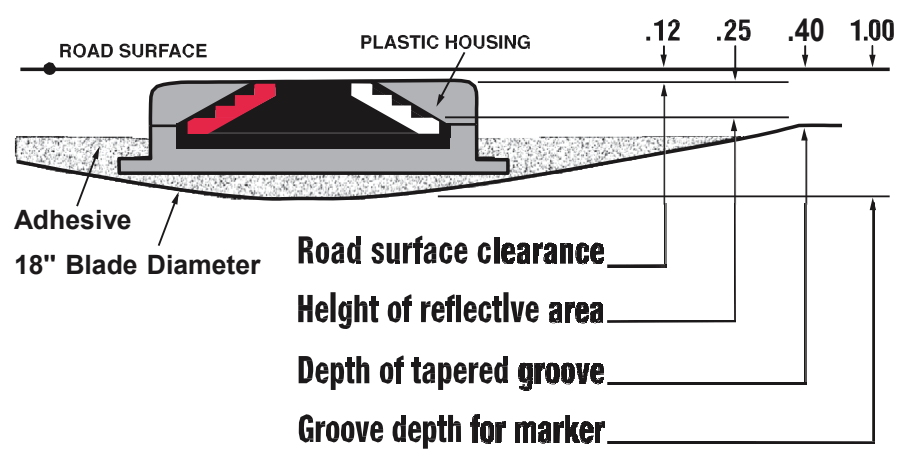
III. CONSTRUCTION

A. Experimental Evaluation. The University of Kentucky Transportation Center will be evaluating this installation of IPMs. Notify the Engineer a minimum of 14 calendar days prior to beginning work. The Engineer will coordinate the University's activities with the Contractor's work.

B. Maintain and Control Traffic. See Traffic Control Plan.

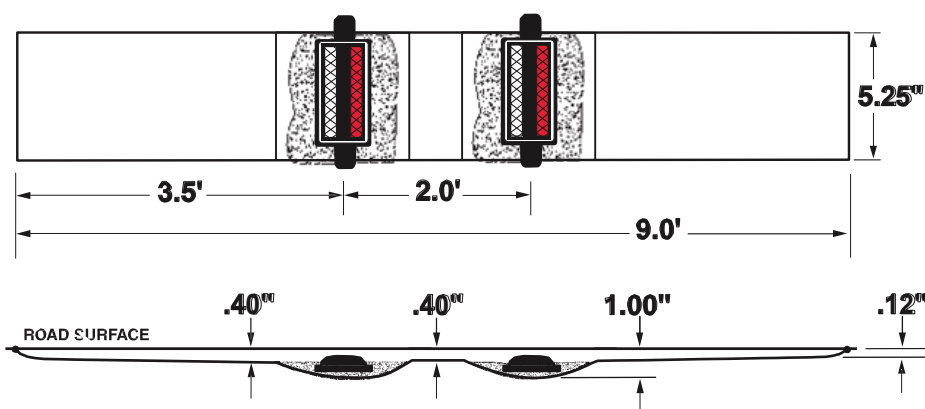
C. Installation. Install IPMs in recessed grooves cut into the final course of asphalt pavement according to the manufacturer's recommendations. Do not cut the grooves until the pavement has cured sufficiently to prevent tearing or raveling. Cut installation grooves using diamond blades on saws that accurately control groove dimensions. Remove all dirt, grease, oil, loose or unsound layers, and any other material from the marker area which would reduce the bond of the adhesive. Maintain pavement surfaces in a clean condition until placing markers.

Prepare the pavement surfaces, and install the markers in the recessed groove according to the drawing below. Use an approved snowplowable epoxy adhesive. Ensure that the adhesive bed area is equal to the bottom area of the marker, and apply adhesive in sufficient quantity to force excess out around the entire perimeter of the marker. Use materials, equipment, and construction procedures that ensure proper adhesion of the markers to the pavement surface according to the manufacturer's recommendations. Remove all excess adhesive from in front of the reflective faces. If any adhesive or foreign matter cannot be removed from the reflective faces, or if any marker fails to properly adhere to the pavement surface, remove and replace the marker at no additional cost to the Department.



D. Location and Spacing. Install the markers in the pattern for high reflectivity with two (2) IPMs per groove. Locate and space markers as shown in the current standard drawings or sepias (note: use Inlaid Pavement Markers wherever Type V Pavement Markers are called for). Do not install markers on bridge decks. Do not install a marker on top of a pavement joint or crack. Offset the recessed groove a minimum of 2 inches from any longitudinal pavement joint or crack and at least one inch from the painted stripe, ensuring that the finished line of markers is straight

with minimal lateral deviation. Give preference to maintaining the 2-inch offset between recessed groove and joint as opposed to keeping the line of markers straight.



Place inlaid markers as much in line with existing pavement striping as possible. Place markers installed along an edge line or channelizing line so that the near edge of the plastic housing is no more than one inch from the near edge of the line. Place markers installed along a lane line between and in line with the dashes. Do not place markers over the lines except where the lines deviate visibly from their correct alignment, and then only after obtaining the Engineer's prior approval of the location.

If conflicts between recessed groove placement in relation to pavement joint and striping cannot be resolved, obtain the Engineer's approval to eliminate the marker or revise the alignment.

- E. **Disposal of Waste.** Dispose of all removed asphalt pavement, debris, and other waste at sites off the right of way obtained by the Contractor at no additional cost to the Department. See Special Note for waste and Borrow.
- F. **Restoration.** Be responsible for all damage to public and/or private property resulting from the work. Restore all damaged features in like kind materials and design at no additional cost to the Department.
- G. **On-Site Inspection.** Make a thorough inspection of the site prior to submitting a bid and be thoroughly familiar with existing conditions so that the work can be expeditiously performed after a contract is awarded. The Department will consider submission of a bid as evidence of this inspection having been made and will not honor any claims for money or grant Contract time extensions resulting from site conditions.
- H. **Caution.** Do not take information shown on the drawings and in this proposal and the types and quantities of work listed as an accurate or complete evaluation of the material and conditions to be encountered during construction, but consider the types and quantities of work listed as approximate only. The bidder must draw his own conclusion as to the conditions encountered. The Department does not give any guarantee as to the accuracy of the data and no claim will be considered for additional

compensation or extension of Contract time if the conditions encountered are not in accordance with the information shown.

IV. MEASUREMENT

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

B. “INLAID PAYMENT MARKER” shall be measured as each. One (1) installation of “INLAID PAVEMENT MARKER” will consist of grooving the pavement, removing asphalt cuttings and debris, preheating pavement to remove moisture, adhesives, and installation of two (2) markers with all lenses in accordance with this note.

Note: Each pay item of Inlaid Pavement Marker will require two markers.

V. PAYMENT

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

B. Inlaid Pavement Markers. The Department will make payment for the completed and accepted quantity of completely installed “INLAID PAVEMENT MARKERS” at the Contract unit price, each. Accept payment as full compensation for all labor, equipment, materials, and incidentals to accomplish this work to the satisfaction of the Engineer. A system of one (1) groove and two (2) markers shall be paid as one “INLAID PAVEMENT MARKER”. The bid item “INLAID PAVEMENT MARKER” shall be used regardless of the color and type of lenses required.

Special Note for Bridge Demolition, Renovation and Asbestos Abatement

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

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



COMMONWEALTH OF KENTUCKY

Matthew G. Bevin
Governor

Memorandum

To: Dan Hite
CC:
From: O'Dail Lawson
Environmental Scientist IV
Division of Environmental Analysis
Date: 12/11/2015
Re: Asbestos Inspection Report for Warren 03-2081.00

This report is prepared to accompany the 10-Day NOI for Demolition to the Division of Air Quality. Please include all pages with submittal.

Project and Structure Information

Project # Warren 03-2081.00

Bridge # 114B00034N

Location: KY-446 over US31W

Description: The samples collected were negative for asbestos. No abatement necessary.

Inspection Date: December 1, 2015

Results

The results revealed that there is no ACM abatement required at this time.



MRS, INC. MRS, Inc. Analytical Laboratory Division

332 West Broadway, Suite 613
Louisville, Kentucky 40202

(502) 495-1212
Fax: (502) 491-7111

Client:	<u>KY Transportation Cabinet</u>	Project No:	<u>2112104 B</u>
Address:	<u>200 Mero Street</u>	Sample ID:	<u># 34 - 1</u>
	<u>Frankfort, KY</u>	Sampled:	<u>1-Dec-15</u>
	<u>40601</u>	Received:	<u>2-Dec-15</u>
	<u>Attention O'Dail Lawson</u>	Analyzed:	<u>10-Dec-15 - Point Count -</u>

Bulk Sample Analysis

Sampled by: O'Dail Lawson

Facility/Location: Warren County - 03 - 2081 Bridge # 114 B00034N

Field Description: Guard Rail Mastic

Laboratory Description:

Gray Material

Asbestos Materials:

Chrysotile = 2/400 = 0.50 % (< 1 %) Sample Is Negative

Non-asbestos Fibrous Materials & Matrix Materials:

<u>Cellulose</u>	<u>0.25 %</u>
<u>Binders</u>	<u>99.25 %</u>

Remarks: The sample was analyzed for asbestos content following the EPA Methodology (600/R-93/116). The test relates only to the items tested. This report does not represent endorsement by NVLAP or any agency of the U.S. Government.

Analyst: Winterford Mensah **Reviewed By:** *Winterford Mensah*
Signature

MRS, INC. MRS, Inc. Analytical Laboratory Division

332 West Broadway, Suite 613
Louisville, Kentucky 40202

(502) 495-1212
Fax: (502) 491-7111

Client:	<u>KY Transportation Cabinet</u>	Project No:	<u>2112104 B</u>
Address:	<u>200 Mero Street</u>	Sample ID:	<u># 34 - 3</u>
	<u>Frankfort, KY</u>	Sampled:	<u>1-Dec-15</u>
	<u>40601</u>	Received:	<u>2-Dec-15</u>
	<u>Attention O'Dail Lawson</u>	Analyzed:	<u>10-Dec-15 - Point Count -</u>

Bulk Sample Analysis

Sampled by: O'Dail Lawson

Facility/Location: Warren County - 03 - 2081 Bridge # 114 B00034N

Field Description: Old Joint Compound

Laboratory Description:
Black Material

Asbestos Materials:
Chrysotile = 2/400 = 0.50 % (< 1 %) Sample Is Negative

Non-asbestos Fibrous Materials & Matrix Materials:

<u>Cellulose</u>	<u>0.25 %</u>
<u>Binders</u>	<u>99.25 %</u>

Remarks: The sample was analyzed for asbestos content following the EPA Methodology (600/R-93/116). The test relates only to the items tested. This report does not represent endorsement by NVLAP or any agency of the U.S. Government.

Analyst: Winterford Mensah **Reviewed By:** *Winterford Mensah*
Signature

ENVIRONMENTAL TRAINING CONCEPTS, INC
P.O. Box 99603 Louisville, KY 40269
(502)640-2951

Certification Number: ETC-AIR-071415-00276

O'Dail Lawson

has on 07-14-2015, attended and successfully completed the requirements and passed the examination with a score of 70% of better on the entitled course.

ASBESTOS INSPECTOR REFRESHER


Training was in accordance with 40 CFR Part 763 (AHERA) approved by the Commonwealth of Kentucky, the Indiana Department of Environmental Management and Tennessee Department of Environment & Conservation The above student received requisite training for Asbestos Accreditation under Title II of the Toxic Substance Act (TSCA).

Conducted at: 1220 Kentucky Mills Drive, Louisville, KY


Name - Training Manager

Expiration Date: 07-14-2016


Name - Instructor

	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)	
03-2081.00		Warren		FD52 114 0446 000-001		STP 3011 (026)	
PROJECT DESCRIPTION							
PAVEMENT REHABILITATION ON KY 446 FROM US 31W TO I-65. (2014BOP)							
<input checked="" type="checkbox"/> No Additional Right of Way Required							
Construction will be within the limits of the existing right of way. The right of way was acquired in accordance to FHWA regulations under the Uniform Relocation Assistance and Real Property Acquisitions Policy Act of 1970, as amended. No additional right of way or relocation assistance were required for this project.							
<input type="checkbox"/> Condition # 1 (Additional Right of Way Required and Cleared)							
All necessary right of way, including control of access rights when applicable, have been acquired including legal and physical possession. Trial or appeal of cases may be pending in court but legal possession has been obtained. There may be some improvements remaining on the right-of-way, but all occupants have vacated the lands and improvements, and KYTC has physical possession and the rights to remove, salvage, or demolish all improvements and enter on all land. Just Compensation has been paid or deposited with the court. All relocations have been relocated to decent, safe, and sanitary housing or that KYTC has made available to displaced persons adequate replacement housing in accordance with the provisions of the current FHWA directive.							
<input type="checkbox"/> Condition # 2 (Additional Right of Way Required with Exception)							
The right of way has not been fully acquired, the right to occupy and to use all rights-of-way required for the proper execution of the project has been acquired. Some parcels may be pending in court and on other parcels full legal possession has not been obtained, but right of entry has been obtained, the occupants of all lands and improvements have vacated, and KYTC has physical possession and right to remove, salvage, or demolish all improvements. Just Compensation has been paid or deposited with the court for most parcels. Just Compensation for all pending parcels will be paid or deposited with the court prior to AWARD of construction contract							
<input type="checkbox"/> Condition # 3 (Additional Right of Way Required with Exception)							
The acquisition or right of occupancy and use of a few remaining parcels are not complete and/or some parcels still have occupants. All remaining occupants have had replacement housing made available to them in accordance with 49 CFR 24.204. KYTC is hereby requesting authorization to advertise this project for bids and to proceed with bid letting even though the necessary right of way will not be fully acquired, and/or some occupants will not be relocated, and/or the just compensation will not be paid or deposited with the court for some parcels until after bid letting. KYTC will fully meet all the requirements outlined in 23 CFR 635.309(c)(3) and 49 CFR 24.102(j) and will expedite completion of all acquisitions, relocations, and full payments after bid letting and prior to AWARD of the construction contract or force account construction.							
Total Number of Parcels on Project		-0-		EXCEPTION (S) Parcel #		ANTICIPATED DATE OF POSSESSION WITH EXPLANATION	
Number of Parcels That Have Been Acquired							
Signed Deed		-0-					
Condemnation		-0-					
Signed ROE		-0-					
Notes/ Comments (Use Additional Sheet if necessary)							
LPA RW Project Manager				Right of Way Supervisor			
Printed Name				Printed Name		Allen Ansell	
Signature				Signature		<i>Allen Ansell</i>	
Date				Date		5/24/17	
Asst. Right of Way Director				FHWA			
Printed Name		Kathy B. Divine		Printed Name		No Signature Required as per FHWA-KYTC Current Stewardship Agreement	
Signature		<i>Kathy B. Divine</i>		Signature			
Date		5/24/17		Date			

UTILITIES AND RAIL CERTIFICATION NOTE

COUNTY: WARREN; UNIFIED PROJECT NUMBER: SPP 114 C
ROAD NAME: KY-446 FROM MP 0 TO MP 0.97
PROJECT DESCRIPTION: PAVEMENT REHABILITATION ON KY 446
FROM US 31W TO I-65. (2014BOP)
PROJECT NUMBER: 3-2081.00 ; PARENT PROJECT: 99-397.02

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.

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.

UTILITIES AND RAIL CERTIFICATION NOTE

COUNTY: WARREN; UNIFIED PROJECT NUMBER: SPP 114 C
ROAD NAME: KY-446 FROM MP 0 TO MP 0.97
PROJECT DESCRIPTION: PAVEMENT REHABILITATION ON KY 446
FROM US 31W TO I-65. (2014BOP)
PROJECT NUMBER: 3-2081.00 ; PARENT PROJECT: 99-397.02

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.

AREA UTILITIES CONTACT LIST

<u>Utility Company/Agency</u>	<u>Contact Name</u>	<u>Contact Information</u>
Warren Rural Electric Coop. Corp.	Jonathan Lindsey	270-842-6541
ATT-KY	Travis Parsley	270-846-3196
Atmos Energy Corporation	Ryne White	270-929-1706
Spectrum Cable	Benny Burch	270-348-2955
Warren County Water District	Ryan Leisey	270-842-0052

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

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

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

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

Effective June 15, 2012

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

ATTACHMENTS

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

I. GENERAL

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

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.

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.

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).

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.

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.

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.

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 contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 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.

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.

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

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: KY170102 05/19/2017 KY102

Superseded General Decision Number: KY20160102

State: Kentucky

Construction Type: Highway

Counties: Allen, Ballard, Butler, Caldwell, Calloway, Carlisle, Christian, Crittenden, Daviess, Edmonson, Fulton, Graves, Hancock, Henderson, Hickman, Hopkins, Livingston, Logan, Lyon, Marshall, McCracken, McLean, Muhlenberg, Ohio, Simpson, Todd, Trigg, Union, Warren and Webster 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 \$10.20 for calendar year 2017 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 \$10.20 (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 2017. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/06/2017
1	03/10/2017
2	05/19/2017

BRIN0004-002 06/01/2016

BALLARD, BUTLER, CALDWELL, CARLISLE, CRITTENDEN, DAVIESS, EDMONSON, FULTON, GRAVES, HANCOCK, HENDERSON, HICKMAN, HOPKINS, LIVINGSTON, LYON, MARSHALL, MCCRACKEN, MCLEAN, MUHLENBERG, OHIO, UNION, and WEBSTER COUNTIES

	Rates	Fringes
BRICKLAYER		
Ballard, Caldwell, Carlisle, Crittenden, Fulton, Graves, Hickman, Livingston, Lyon, Marshall, and McCracken Counties.....	\$ 29.82	14.34
Butler, Edmonson, Hopkins,		

Muhlenberg, and Ohio Counties.....	\$ 25.96	11.38
Daviess, Hancock, Henderson, McLean, Union, and Webster Counties.....	\$ 29.32	14.34

BRTN0004-005 06/01/2016

ALLEN, CALLOWAY, CHRISTIAN, LOGAN, SIMPSON, TODD, TRIGG, and
WARREN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 25.96	11.38

CARP0357-002 04/01/2016

	Rates	Fringes
CARPENTER.....	\$ 27.70	17.03
Diver.....	\$ 41.93	17.03
PILEDRIVERMAN.....	\$ 27.95	17.03

ELEC0369-006 06/01/2016

BUTLER, EDMONSON, LOGAN, TODD & WARREN COUNTIES:

	Rates	Fringes
ELECTRICIAN.....	\$ 30.56	16.10

ELEC0429-001 06/01/2015

ALLEN & SIMPSON COUNTIES:

	Rates	Fringes
ELECTRICIAN.....	\$ 24.84	11.90

ELEC0816-002 06/01/2015

BALLARD, CALDWELL, CALLOWAY, CARLISLE, CHRISTIAN, CRITTENDEN,
FULTON (Except a 5 mile radius of City Hall in Fulton), GRAVES,
HICKMAN, LIVINGSTON, LYON, MARSHALL, MCCRACKEN & TRIGG COUNTIES:

	Rates	Fringes
ELECTRICIAN.....	\$ 31.03	25.5%+6.35

Cable spicers receive \$.25 per hour additional.

ELEC1701-003 06/01/2016

DAVISS, HANCOCK, HENDERSON, HOPKINS, MCLEAN, MUHLENBERG, OHIO,
UNION & WEBSTER COUNTIES:

	Rates	Fringes
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ELECTRICIAN.....\$ 30.36 15.49

Cable spicers receive \$.25 per hour additional.

* ELEC1925-002 01/01/2017

FULTON COUNTY (Up to a 5 mile radius of City Hall in Fulton):

	Rates	Fringes
CABLE SPLICER.....	\$ 25.00	10.27
ELECTRICIAN.....	\$ 25.30	17.14

ENGI0181-017 07/01/2016

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 1.....	\$ 31.05	14.65
GROUP 2.....	\$ 28.28	14.65
GROUP 3.....	\$ 28.71	14.65
GROUP 4.....	\$ 27.97	14.65

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 equals or exceeds 150 ft. - \$1.00 above 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.

IRON0070-005 06/01/2016

BUTLER COUNTY (Eastern eighth, including the Townships of
Decker, Lee & Tilford);
EDMONSON COUNTY (Northern three-fourths, including the
Townships of Asphalt, Bee Spring, Brownsville, Grassland, Huff,
Kyrock, Lindseyville, Mammoth Cave, Ollie, Prosperity, Rhoda,
Sunfish & Sweden)

Rates Fringes

IRONWORKER
Structural; Ornamental;
Reinforcing; Precast
Concrete Erectors.....\$ 27.91 21.11

IRON0103-004 08/01/2015

DAVIESS, HANCOCK, HENDERSON, HOPKINS, MCLEAN, OHIO, UNION &
WEBSTER COUNTIES
BUTLER COUNTY (Townships of Aberdeen, Bancock, Casey,
Dexterville, Dunbar, Elfie, Gilstrap, Huntsville, Logansport,
Monford, Morgantown, Provo, Rochester, South Hill & Welchs
Creek);
CALDWELL COUNTY (Northeastern third, including the Township of
Creswell);
CHRISTIAN COUNTY (Northern third, including the Townships of
Apex, Crofton, Kelly, Mannington & Wynns);
CRITTENDEN COUNTY (Northeastern half, including the Townships
of Grove, Mattoon, Repton, Shady Grove & Tribune);
MUHLENBERG COUNTY (Townships of Bavier, Beech Creek Junction,
Benton, Brennen, Browder, Central City, Cleaton, Depoy,
Drakesboro, Eunis, Graham, Hillside, Luzerne, Lynn City,

Martwick, McNary, Millport, Moorman, Nelson, Paradise,
Powderly, South Carrollton, Tarina & Weir)

	Rates	Fringes
Ironworkers:.....	\$ 28.14	18.675

IRON0492-003 05/01/2014		

ALLEN, LOGAN, SIMPSON, TODD & WARREN COUNTIES
 BUTLER COUNTY (Southern third, including the Townships of
 Boston, Berrys Lick, Dimple, Jetson, Quality, Sharer, Sugar
 Grove & Woodbury);
 CHRISTIAN COUNTY (Eastern two-thirds, including the Townships
 of Bennettstown, Casky, Herndon, Hopkinsville, Howell,
 Masonville, Pembroke & Thompsonville);
 EDMONSON COUNTY (Southern fourth, including the Townships of
 Chalybeate & Rocky Hill);
 MUHLENBERG COUNTY (Southern eighth, including the Townships of
 Dunnior, Penrod & Rosewood)

	Rates	Fringes
Ironworkers:.....	\$ 24.33	11.48

IRON0782-006 05/01/2016		

BALLARD, CALLOWAY, CARLISLE, FULTON, GRAVES, HICKMAN,
 LIVINGSTON, LYON, MARSHALL, MCCRACKEN & TRIGG COUNTIES
 CALDWELL COUNTY (Southwestern two-thirds, including the
 Townships of Cedar Bluff, Cider, Claxton, Cobb, Crowtown,
 Dulaney, Farmersville, Fredonia, McGowan, Otter Pond &
 Princeton);
 CHRISTIAN COUNTY (Western third, Excluding the Townships of
 Apex, Crofton, Kelly, Mannington, Wynns, Bennettstown, Casky,
 Herndon, Hopkinsville, Howell, Masonville, Pembroke &
 Thompsonville);
 CRITTENDEN COUNTY (Southwestern half, including the Townships
 of Crayne, Dycusburg, Frances, Marion, Mexico, Midway,
 Sheridan & Told)

	Rates	Fringes
Ironworkers:		
Projects with a total contract cost of \$20,000,000.00 or above.....	\$ 27.59	22.94
All Other Work.....	\$ 26.00	21.52

LABO0189-005 07/01/2015		

BALLARD, CALLOWAY, CARLISLE, FULTON, GRAVES, HICKMAN,
 LIVINGSTON, LYON, MARSHALL & MCCRACKEN COUNTIES

Rates	Fringes
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GROUP 4.....\$ 23.56 11.10

LABORER 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; Blaster; 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

LABO0561-001 07/01/2016

CRITTENDEN, HENDERSON, UNION & WEBSTER COUNTIES

	Rates	Fringes
Laborers:		
GROUP 1.....	\$ 22.01	14.00
GROUP 2.....	\$ 22.26	14.00
GROUP 3.....	\$ 22.31	14.00
GROUP 4.....	\$ 22.91	14.00

LABORER 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; Blaster; 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

PAIN0032-002 05/01/2016

BALLARD COUNTY

	Rates	Fringes
Painters:		
Bridges.....	\$ 33.56	15.18
All Other Work.....	\$ 31.26	15.18

Spray, Blast, Steam, High & Hazardous (Including Lead Abatement) and All Epoxy - \$1.00 Premium

PAIN0118-003 06/01/2014

EDMONSON COUNTY:

	Rates	Fringes
Painters:		
Brush & Roller.....	\$ 18.50	11.97
Spray, Sandblast, Power Tools, Waterblast & Steam		

Cleaning.....\$ 19.50 11.97

PAIN0156-006 04/01/2015

DAVISS, HANCOCK, HENDERSON, MCLEAN, OHIO, UNION & WEBSTER
COUNTIES

Rates Fringes

Painters:

BRIDGES

GROUP 1.....\$ 27.60	12.85
GROUP 2.....\$ 27.85	12.85
GROUP 3.....\$ 28.60	12.85
GROUP 4.....\$ 29.60	12.85

ALL OTHER WORK:

GROUP 1.....\$ 26.45	12.85
GROUP 2.....\$ 26.70	12.85
GROUP 3.....\$ 27.45	12.85
GROUP 4.....\$ 28.45	12.85

PAINTER CLASSIFICATIONS

GROUP 1 - Brush & Roller

GROUP 2 - Plasterers

GROUP 3 - Spray; Sandblast; Power Tools; Waterblast;
Steamcleaning; Brush & Roller of Mastics, Creosotes, Kwinch
Koate & Coal Tar Epoxy

GROUP 4 - Spray of Mastics, Creosotes, Kwinch Koate & Coal
Tar Epoxy

PAIN0456-003 01/01/2015

ALLEN, BUTLER, LOGAN, MUHLENBERG, SIMPSON, TODD & WARREN
COUNTIES:

Rates Fringes

Painters:

BRIDGES

Brush & Roller.....\$ 23.25	9.95
Spray; Sandblast; Power Tools; Waterblast & Steam Cleaning.....\$ 24.25	9.95

ALL OTHER WORK

Brush & Roller.....\$ 19.25	9.95
Spray; Sandblast; Power Tools; Waterblast & Steam Cleaning.....\$ 20.25	9.95

ALL OTHER WORK - HIGH TIME PAY

Over 35 feet (up to 100 feet) - \$1.00 above base wage

100 feet and over - \$2.00 above base wage

DURING SPRAY PAINTING AND SANDBLASTING OPERATIONS, POT
TENDERS SHALL RECEIVE THE SAME WAGE RATES AS THE SPRAY
PAINTER OR NOZZLE OPERATOR

PAIN0500-002 06/01/2015

CALDWELL, CALLOWAY, CARLISLE, CHRISTIAN, CRITTENDEN, FULTON,
GRAVES, HICKMAN, HOPKINS, LIVINGSTON, LYON, MARSHALL, MCCRACKEN
& TRIGG COUNTIES:

	Rates	Fringes
Painters:		
Bridges.....	\$ 26.85	12.35
All Other Work.....	\$ 20.60	12.35

Waterblasting units with 3500 PSI and above - \$.50 premium
Spraypainting and all abrasive blasting - \$1.00 premium
Work 40 ft. and above ground level - \$1.00 premium

PLUM0184-002 07/01/2016

BALLARD, CALDWELL, CALLOWAY, CARLISLE, CHRISTIAN, CRITTENDEN,
FULTON, GRAVES, HICKMAN, LIVINGSTON, LYON, MARSHALL, MCCRACKEN
and TRIGG COUNTIES

	Rates	Fringes
Plumber; Steamfitter.....	\$ 34.36	16.78

PLUM0502-004 08/01/2016

ALLEN, BUTLER, EDMONSON, SIMPSON & WARREN

	Rates	Fringes
Plumber; Steamfitter.....	\$ 32.00	20.13

PLUM0633-002 07/01/2015

DAVISS, HANCOCK, HENDERSON, HOPKINS, LOGAN, MCLEAN,
MUHLENBERG, OHIO, TODD, UNION & WEBSTER COUNTIES:

	Rates	Fringes
PLUMBER/PIPEFITTER.....	\$ 31.54	14.78

TEAM0089-003 03/27/2016

ALLEN, BUTLER, EDMONSON, LOGAN, SIMPSON & WARREN COUNTIES

	Rates	Fringes
Truck drivers:		
Zone 1:		

Group 1.....	\$ 19.88	19.61
Group 2.....	\$ 20.06	19.61
Group 3.....	\$ 20.14	19.61
Group 4.....	\$ 20.16	19.61

GROUP 1 - Greaser; Tire Changer

GROUP 2 - Truck Mechanic; Single Axle Dump; Flat Bed; All Terrain Vehicles when used to haul materials; Semi Trailer or Pole Trailer when used to pull building materials and equipment; Tandem Axle Dump; Driver of Distributors

GROUP 3 - Mixer All Types

GROUP 4 - Winch and A-Frame when used in transporting materials; Ross Carrier; Fork Lift when used to transport building materials; Driver on Pavement Breaker; Euclid and Other Heavy Earth Moving Equipment; Low Boy; Articulator Cat; Five Axle Vehicle

TEAM0215-003 03/27/2016

DAVISS, HANCOCK, HENDERSON, HOPKINS, MCLEAN, MUHLENBERG, OHIO & WEBSTER COUNTIES

	Rates	Fringes
TRUCK DRIVER		
Group 1.....	\$ 21.43	19.61
Group 2.....	\$ 21.66	19.61
Group 3.....	\$ 21.73	19.61
Group 4.....	\$ 21.74	19.61

GROUP 1: Greaser, Tire Changer

GROUP 2: Truck Mechanic

GROUP 3: Single Axle Dump; Flat Bed; All Terrain Vehicle when used to haul materials; Semi Trailer or Pole Trailer when used to pull building materials and equipment; Tandem Axle Dump; Driver of Distributors; Mixer All Types

GROUP 4: Euclid and other heavy earth moving equipment; Low Boy; Articulator Cat; 5 Axle Vehicle; Winch and A- Frame when used in transporting materials; Ross Carrier; Fork Lift when used to transport building materials; Driver on Pavement Breaker

TEAM0236-001 03/27/2016

BALLARD, CALDWELL, CALLOWAY, CARLISLE, CHRISTIAN, CRITTENDEN, FULTON, GRAVES, HICKMAN, LIVINGSTON, LYON, MARSHALL, MCCRACKEN, TODD & TRIGG COUNTIES

	Rates	Fringes
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TRUCK DRIVER

Group 1.....	\$ 19.88	19.61
Group 2.....	\$ 20.06	19.61
Group 3.....	\$ 20.06	19.61
Group 4.....	\$ 20.16	19.61
Group 5.....	\$ 20.14	19.61

GROUP 1: Greaser, Tire Changer

GROUP 2: Truck Mechanic

GROUP 3: Single Axle Dump; Flat Bed; All Terrain Vehicle when used to haul materials; Semi Trailer or Pole Trailer when used to pull building materials and equipment; Tandem Axle Dump; Drivers of Distributors

GROUP 4: Euclid and other heavy earth moving equipment; Low Boy; Articulator Cat; Five Axle Vehicle; Winch and A-Frame when used in transporting materials; Ross Carrier

GROUP 5: Mixer All Types

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
12.0%	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 Warren 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

171229

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Report Date 7/3/17

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00001		DGA BASE	20,284.00	TON		\$	
0020	00008		CEMENT STABILIZED ROADBED	47,651.00	SQYD		\$	
0030	00100		ASPHALT SEAL AGGREGATE	213.00	TON		\$	
0040	00103		ASPHALT SEAL COAT	26.00	TON		\$	
0050	00212		CL2 ASPH BASE 1.00D PG64-22	4,843.00	TON		\$	
0060	00214		CL3 ASPH BASE 1.00D PG64-22	17,528.00	TON		\$	
0070	00301		CL2 ASPH SURF 0.38D PG64-22	708.00	TON		\$	
0080	00358		ASPHALT CURING SEAL	48.00	TON		\$	
0090	02542		CEMENT	929.00	TON		\$	
0100	02702		SAND FOR BLOTTER	119.00	TON		\$	
0110	22906ES403		CL3 ASPH SURF 0.38A PG64-22	2,453.00	TON		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0120	00078		CRUSHED AGGREGATE SIZE NO 2	6,000.00	TON		\$	
0130	01891		ISLAND HEADER CURB TYPE 2	1,390.00	LF		\$	
0140	01982		DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	66.00	EACH		\$	
0150	01983		DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL YELLOW	37.00	EACH		\$	
0160	01992		INSTALL TEMP CONC MED BARR	3,500.00	LF		\$	
0170	02003		RELOCATE TEMP CONC BARRIER	6,000.00	LF		\$	
0180	02014		BARRICADE-TYPE III	21.00	EACH		\$	
0190	02058		REMOVE PCC PAVEMENT	30,625.00	SQYD		\$	
0200	02200		ROADWAY EXCAVATION	12,638.00	CUYD		\$	
0210	02237		DITCHING	20,072.00	LF		\$	
0220	02363		GUARDRAIL CONNECTOR TO BRIDGE END TY A	2.00	EACH		\$	
0230	02367		GUARDRAIL END TREATMENT TYPE 1	10.00	EACH		\$	
0240	02369		GUARDRAIL END TREATMENT TYPE 2A	11.00	EACH		\$	
0250	02381		REMOVE GUARDRAIL	6,335.00	LF		\$	
0260	02387		GUARDRAIL CONNECTOR TO BRIDGE END TY A-1	2.00	EACH		\$	
0270	02483		CHANNEL LINING CLASS II	33.00	TON		\$	
0280	02562		TEMPORARY SIGNS	2,500.00	SQFT		\$	
0290	02585		EDGE KEY	1,648.00	LF		\$	
0300	02599		FABRIC-GEOTEXTILE TYPE IV	4,500.00	SQYD		\$	
0310	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0320	02671		PORTABLE CHANGEABLE MESSAGE SIGN	6.00	EACH		\$	
0330	02676		MOBILIZATION FOR MILL & TEXT	1.00	LS		\$	
0340	02677		ASPHALT PAVE MILLING & TEXTURING	143.00	TON		\$	
0350	02696		SHOULDER RUMBLE STRIPS	21,438.00	LF		\$	
0360	02704		SILT TRAP TYPE B	3.00	EACH		\$	
0370	02707		CLEAN SILT TRAP TYPE B	3.00	EACH		\$	
0380	02775		ARROW PANEL	4.00	EACH		\$	
0390	02898		RELOCATE CRASH CUSHION	5.00	EACH		\$	

PROPOSAL BID ITEMS

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0400	03171		CONCRETE BARRIER WALL TYPE 9T	2,500.00	LF		\$	
0410	03225		TUBULAR MARKERS	64.00	EACH		\$	
0420	04795		CONDUIT-2 IN	200.00	LF		\$	
0430	04820		TRENCHING AND BACKFILLING	200.00	LF		\$	
0440	04830		LOOP WIRE	6,550.00	LF		\$	
0450	04895		LOOP SAW SLOT AND FILL	1,970.00	LF		\$	
0460	05950		EROSION CONTROL BLANKET	5,678.00	SQYD		\$	
0470	05963		INITIAL FERTILIZER	1.00	TON		\$	
0480	05964		20-10-10 FERTILIZER	1.00	TON		\$	
0490	06401		FLEXIBLE DELINEATOR POST-M/W	98.00	EACH		\$	
0500	06404		FLEXIBLE DELINEATOR POST-M/Y	89.00	EACH		\$	
0510	06510		PAVE STRIPING-TEMP PAINT-4 IN	40,810.00	LF		\$	
0520	06514		PAVE STRIPING-PERM PAINT-4 IN	24,648.00	LF		\$	
0530	06516		PAVE STRIPING-PERM PAINT-8 IN	1,436.00	LF		\$	
0540	06568		PAVE MARKING-THERMO STOP BAR-24IN	255.00	LF		\$	
0550	06574		PAVE MARKING-THERMO CURV ARROW	20.00	EACH		\$	
0560	06575		PAVE MARKING-THERMO COMB ARROW	2.00	EACH		\$	
0570	08903		CRASH CUSHION TY VI CLASS BT TL3	5.00	EACH		\$	
0580	10020NS		FUEL ADJUSTMENT	53,835.00	DOLL	\$1.00	\$	\$53,835.00
0590	10030NS		ASPHALT ADJUSTMENT	99,821.00	DOLL	\$1.00	\$	\$99,821.00
0600	20071EC		JOINT ADHESIVE	31,326.00	LF		\$	
0610	20259ED		TEMPORARY MEDIAN CROSSOVER	1.00	EACH		\$	
0620	21802EN		G/R STEEL W BEAM-S FACE (7 FT POST)	6,950.00	LF		\$	
0630	23556NC		ADJUST LIGHTING JUNCTION BOX	1.00	EACH		\$	
0640	24489EC		INLAID PAVEMENT MARKER	210.00	EACH		\$	

Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0650	00461		CULVERT PIPE-15 IN	8.00	LF		\$	
0660	00462		CULVERT PIPE-18 IN	16.00	LF		\$	
0670	00464		CULVERT PIPE-24 IN	4.00	LF		\$	
0680	00468		CULVERT PIPE-36 IN	12.00	LF		\$	
0690	00469		CULVERT PIPE-42 IN	4.00	LF		\$	
0700	01202		PIPE CULVERT HEADWALL-15 IN	2.00	EACH		\$	
0710	01204		PIPE CULVERT HEADWALL-18 IN	3.00	EACH		\$	
0720	01208		PIPE CULVERT HEADWALL-24 IN	1.00	EACH		\$	
0730	01214		PIPE CULVERT HEADWALL-42 IN	1.00	EACH		\$	
0740	01375		METAL END SECTION TY 1-36 IN	1.00	EACH		\$	
0750	01458		CURB BOX INLET TYPE A T	1.00	EACH		\$	

Section: 0004 - DEMOBILIZATION &/OR MOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0760	02568		MOBILIZATION	1.00	LS		\$	
0770	02569		DEMOBILIZATION	1.00	LS		\$	