



CALL NO. 101

CONTRACT ID. 191224

FLEMING COUNTY

FED/STATE PROJECT NUMBER STP 0321 (027)

DESCRIPTION KY 32

WORK TYPE GRADE & DRAIN WITH ASPHALT SURFACE

PRIMARY COMPLETION DATE 6/30/2020

LETTING DATE: July 26, 2019

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN DAYLIGHT TIME July 26, 2019. Bids will be publicly announced at 10:00 AM EASTERN DAYLIGHT TIME.

NO PLANS ASSOCIATED WITH THIS PROJECT.

DBE CERTIFICATION REQUIRED - 7.50%

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

TABLE OF CONTENTS

PART I	SCOPE OF WORK <ul style="list-style-type: none">• PROJECT(S), COMPLETION DATE(S), & LIQUIDATED DAMAGES• CONTRACT NOTES• FEDERAL CONTRACT NOTES• EXPEDITE WORK ORDER• ASPHALT MIXTURE• DGA BASE• DGA BASE FOR SHOULDERS• INCIDENTAL SURFACING• FUEL AND ASPHALT PAY ADJUSTMENT• COMPACTION OPTION A• SPECIAL NOTE(S) APPLICABLE TO PROJECT• SPECIAL NOTE FOR INTELLIGENT COMPACTION FOR ASPHALT MIXTURES• SPECIAL NOTE FOR PAVER MOUNTED TEMPERATURE PROFILES• BRIDGE DEMOLITION, RENOVATION• ASBESTOS ABATEMENT REPORT• RIGHT OF WAY NOTES• UTILITY IMPACT & RAIL CERTIFICATION NOTES• KPDES STORM WATER PERMIT, BMP AND APPROVAL LETTER• GUARDRAIL DELIVERY VERIFICATION SHEET
PART II	SPECIFICATIONS AND STANDARD DRAWINGS <ul style="list-style-type: none">• SPECIFICATIONS REFERENCE• SUPPLEMENTAL SPECIFICATION• [SN-1I] PORTABLE CHANGEABLE SIGNS
PART III	EMPLOYMENT, WAGE AND RECORD REQUIREMENTS <ul style="list-style-type: none">• FEDERAL-AID CONSTRUCTION CONTRACTS - FHWA 1273• NONDISCRIMINATION OF EMPLOYEES• EXECUTIVE BRANCH CODE OF ETHICS• PROJECT WAGE RATES LOCALITY 3 / FEDERAL• NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EEO FLEMING
PART IV	INSURANCE
PART V	BID ITEMS

PART I

SCOPE OF WORK

ADMINISTRATIVE DISTRICT - 09

CONTRACT ID - 191224
STP 0321 (027)
COUNTY - FLEMING
PCN - DE03500321924
STP 0321 (027)

KY 32 (MP 17.450) ADDRESS PAVEMENT CONDITION OF AC PAVEMENT (MP 28.290), A DISTANCE OF 010.84 MILES.GRADE & DRAIN WITH ASPHALT SURFACE SYP NO. 09-20009.00.
GEOGRAPHIC COORDINATES LATITUDE 38:00:00.00 LONGITUDE 84:00:00.00

COMPLETION DATE(S):
COMPLETED BY 06/30/2020 APPLIES TO ENTIRE CONTRACT

CONTRACT NOTES

PROPOSAL ADDENDA

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

BID SUBMITTAL

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

JOINT VENTURE BIDDING

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

UNDERGROUND FACILITY DAMAGE PROTECTION

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

REGISTRATION WITH THE SECRETARY OF STATE BY A FOREIGN ENTITY

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

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

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

SPECIAL NOTE FOR PROJECT QUESTIONS DURING ADVERTISEMENT

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

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

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

HARDWOOD REMOVAL RESTRICTIONS

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

INSTRUCTIONS FOR EXCESS MATERIAL SITES AND BORROW SITES

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

ACCESS TO RECORDS

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

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

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

April 30, 2018

FEDERAL CONTRACT NOTES

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

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

CIVIL RIGHTS ACT OF 1964

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

NOTICE TO ALL BIDDERS

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

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

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

SECOND TIER SUBCONTRACTS

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

DISADVANTAGED BUSINESS ENTERPRISE PROGRAM

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

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

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

DBE GOAL

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

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

OBLIGATION OF CONTRACTORS

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

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

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

CERTIFICATION OF CONTRACT GOAL

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

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

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

DBE PARTICIPATION PLAN

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

The DBE Participation Plan shall include the following:

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

- b) The dollar value of services provided by DBEs such as quality control testing, equipment repair and maintenance, engineering, staking, etc.;
 - c) The dollar value of joint ventures. DBE credit for joint ventures will be limited to the dollar amount of the work actually performed by the DBE in the joint venture;
- 4 Written and signed documentation of the bidder's commitment to use a DBE contractor whose participation is being utilized to meet the DBE goal; and
- 5 Written and signed confirmation from the DBE that it is participating in the contract as provided in the prime contractor's commitment.

UPON AWARD AND BEFORE A WORK ORDER WILL BE ISSUED

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

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

CONSIDERATION OF GOOD FAITH EFFORTS REQUESTS

If the DBE participation submitted in the bid by the apparent lowest responsive bidder does not meet or exceed the DBE contract goal, the apparent lowest responsive bidder must submit a Good Faith Effort Package to satisfy the Cabinet that sufficient good faith efforts were made to meet the contract goals prior to submission of the bid. Efforts to increase the goal after bid submission will not be considered in justifying the good faith effort, unless the contractor can show that the proposed DBE was solicited prior to the letting date. DBEs utilized in achieving the DBE goal must be certified and prequalified for the work items at the time the bid is submitted. One complete set and nine (9) copies of this information must be received in the office of the Division of Contract Procurement no later than 12:00 noon of the tenth calendar day after receipt of notification that they are the apparent low bidder.

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

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

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

FAILURE TO MEET GOOD FAITH REQUIREMENT

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

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

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

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

SANCTIONS FOR FAILURE TO MEET DBE REQUIREMENTS OF THE PROJECT

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

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

PROMPT PAYMENT

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

CONTRACTOR REPORTING

All contractors must keep detailed records and provide reports to the Cabinet on their progress in meeting the DBE requirement on any highway contract. These records may include, but shall not be limited to payroll, lease agreements, cancelled payroll checks, executed subcontracting agreements, etc. Prime contractors will be required to complete and submit a signed and notarized affidavit (TC 18-7) and copies of checks for any monies paid to each DBE subcontractor or supplier utilized to meet a DBE goal. **These documents must be submitted within 10 days of being paid by the Cabinet.**

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

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

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

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

EXPEDITE PROJECT WORK ORDER

The Contractor may request that the Department expedite the work order for this project to allow for maximization of time to complete the work. In order for the Department to accomplish this task, the Contractor may be required to “hand carry” all required project documentation to facilitate the process. Immediately UPON NOTIFICATION OF AWARD OF THE CONTRACT, deliver required project documentation to:

Division of Construction Procurement
200 Mero St.
Frankfort, KY 40602

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

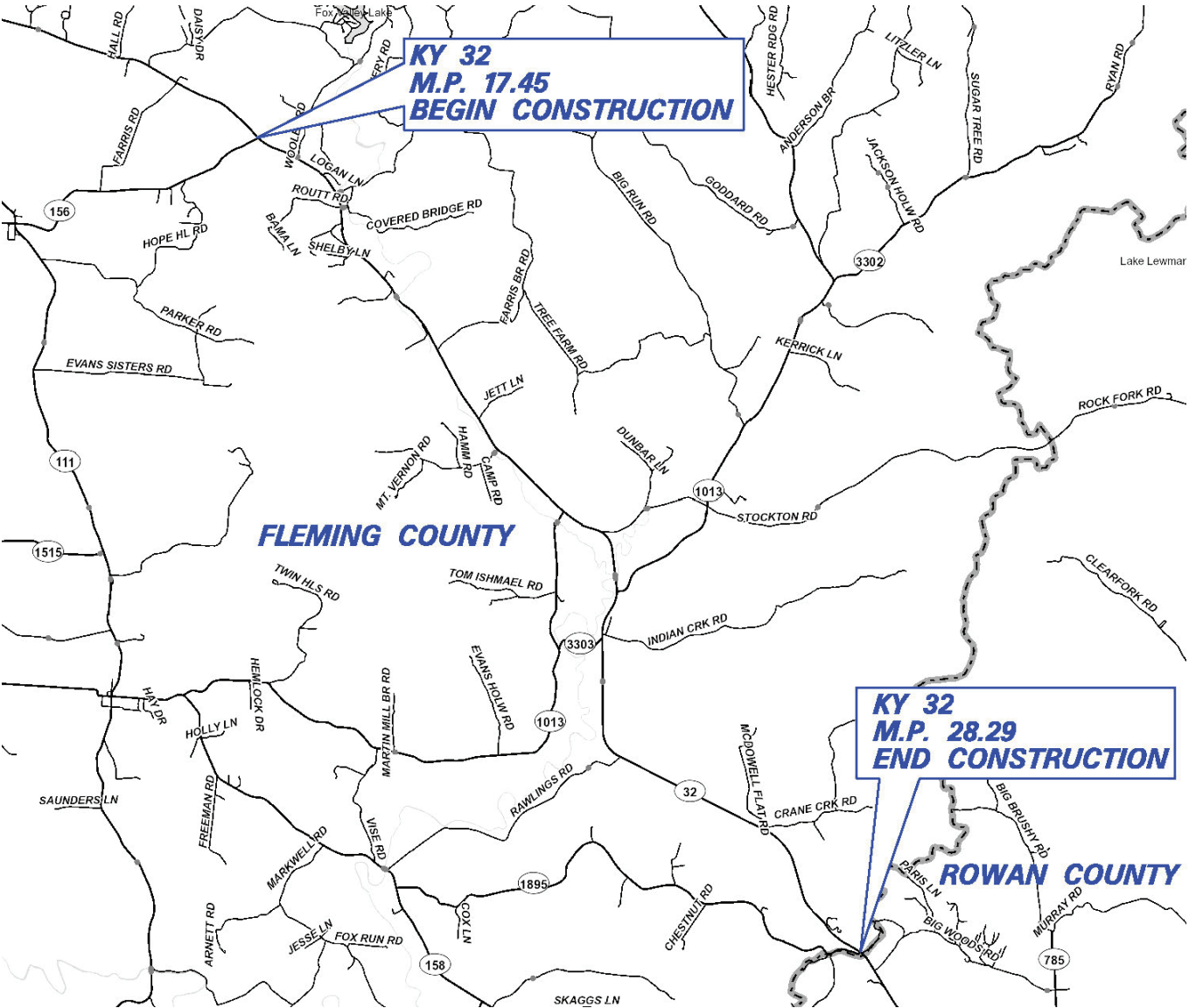
The Department has included in the quantities of asphalt mixtures established in the proposal estimated quantities required for resurfacing or surfacing mailbox turnouts, farm field entrances, residential and commercial entrances, curve widening, ramp gores and tapers, and road and street approaches, 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: FLEMING

ITEM NUMBER: 9-20009

PROJECT NUMBER: FD52 035 0032 017-029

CONSTRUCTION NUMBER: STP 0321 (027)

LETTING DATE: 7/26/2019

RECOMMENDED BY: _____	DATE: _____
Project Manager	
PLAN APPROVED BY: _____	DATE: _____
State Highway Engineer	
FHWA APPROVED BY: _____	DATE: _____

COUNTY OF	ITEM NO.
FLEMING	9-20009.00

MATCHLINE (SEE SHEET 2)

BEGIN CONSTRUCTION
KY 32 M.P. 17.45

1020+00

KY 32

1025+00

KY 156



SCALE: 1"=200'

KY 32
STATIONING INFORMATION SHEETS
PLAN SHEET 1 OF 28

COUNTY OF	ITEM NO.
FLEMING	9-20009.00



COUNTY OF	ITEM NO.
FLEMING	9-20009.00



KY 32
STATIONING INFORMATION SHEETS
PLAN SHEET 3 OF 28

COUNTY OF	ITEM NO.
FLEMING	9-20009.00

MATCHLINE (SEE SHEET 5)



COUNTY OF	ITEM NO.
FLEMING	9-20009.00



MATCHLINE (SEE SHEET 7)

COUNTY OF	ITEM NO.
FLEMING	9-20009.00

HELPHENSTINE RD. (19.57 M.P.)

STATION EQUATION
STA. 907+17.76 BACK=
STA. 911+50.00 AHEAD

915+00

920+00
REEDS LN. (19.38 M.P.)

925+00

KY 32

930+00

MATCHLINE (SEE SHEET 5)



SCALE: 1"=200'

KY 32
STATIONING INFORMATION SHEETS
PLAN SHEET 6 OF 28

COUNTY OF	ITEM NO.
FLEMING	9-20009.00

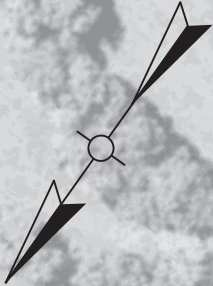


COUNTY OF	ITEM NO.
FLEMING	9-20009.00



COUNTY OF	ITEM NO.
FLEMING	9-20009.00

MATCHLINE (SEE SHEET 10)



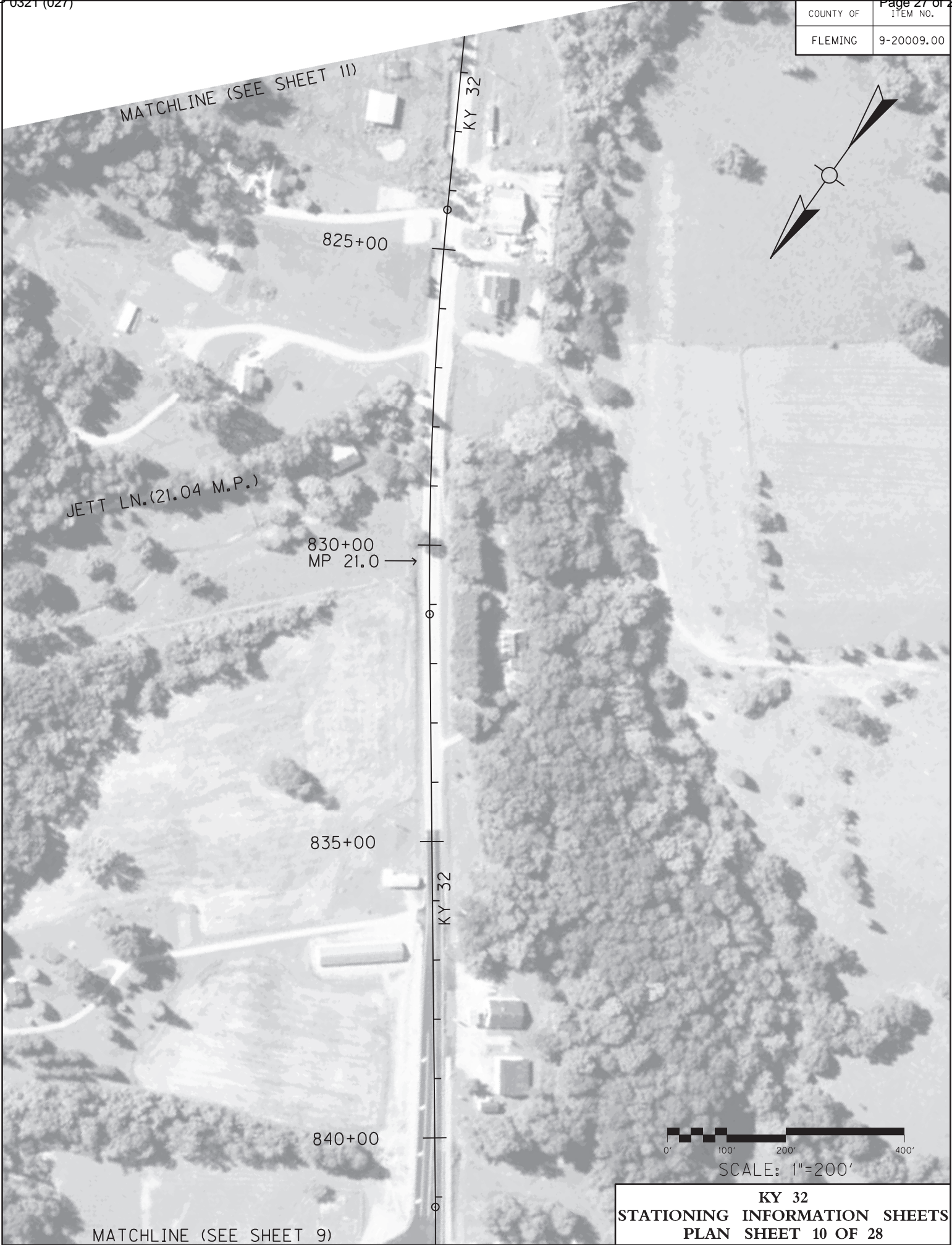
MATCHLINE (SEE SHEET 8)



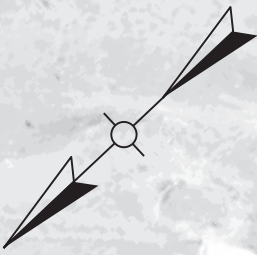
SCALE: 1"=200'

KY 32
STATIONING INFORMATION SHEETS
PLAN SHEET 9 OF 28

COUNTY OF	ITEM NO.
FLEMING	9-20009.00



COUNTY OF	ITEM NO.
FLEMING	9-20009.00



SCALE: 1"=200'

KY 32
STATIONING INFORMATION SHEETS
PLAN SHEET 11 OF 28

MATCHLINE (SEE SHEET 10)

MATCHLINE (SEE SHEET 13)

COUNTY OF	ITEM NO.
FLEMING	9-20009.00

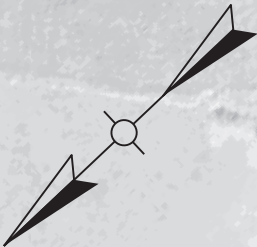
780+00

KY 32

790+00

795+00

KY 32



SCALE: 1"=200'

MATCHLINE (SEE SHEET 11)

MATCHLINE (SEE SHEET 14)

COUNTY OF	ITEM NO.
FLEMING	9-20009.00

760+00

KY 32

WATSON RD. (KY 1013) (22.36 M.P.)

765+00

770+00

KY 32

775+00

← MP 22.0



SCALE: 1"=200'

MATCHLINE (SEE SHEET 12)

COUNTY OF	ITEM NO.
FLEMING	9-20009.00



PLUMMERS LANDING RD. (22.75 M.P.)

740+00

745+00

750+00

755+00



SCALE: 1"=200'

KY 32
STATIONING INFORMATION SHEETS
PLAN SHEET 14 OF 28

MATCHLINE (SEE SHEET 13)

MATCHLINE (SEE SHEET 15)

MATCHLINE (SEE SHEET 16)

COUNTY OF	ITEM NO.
FLEMING	9-20009.00

715+00

KY 32

720+00

MP 23.0

725+00

730+00

KY 32

735+00

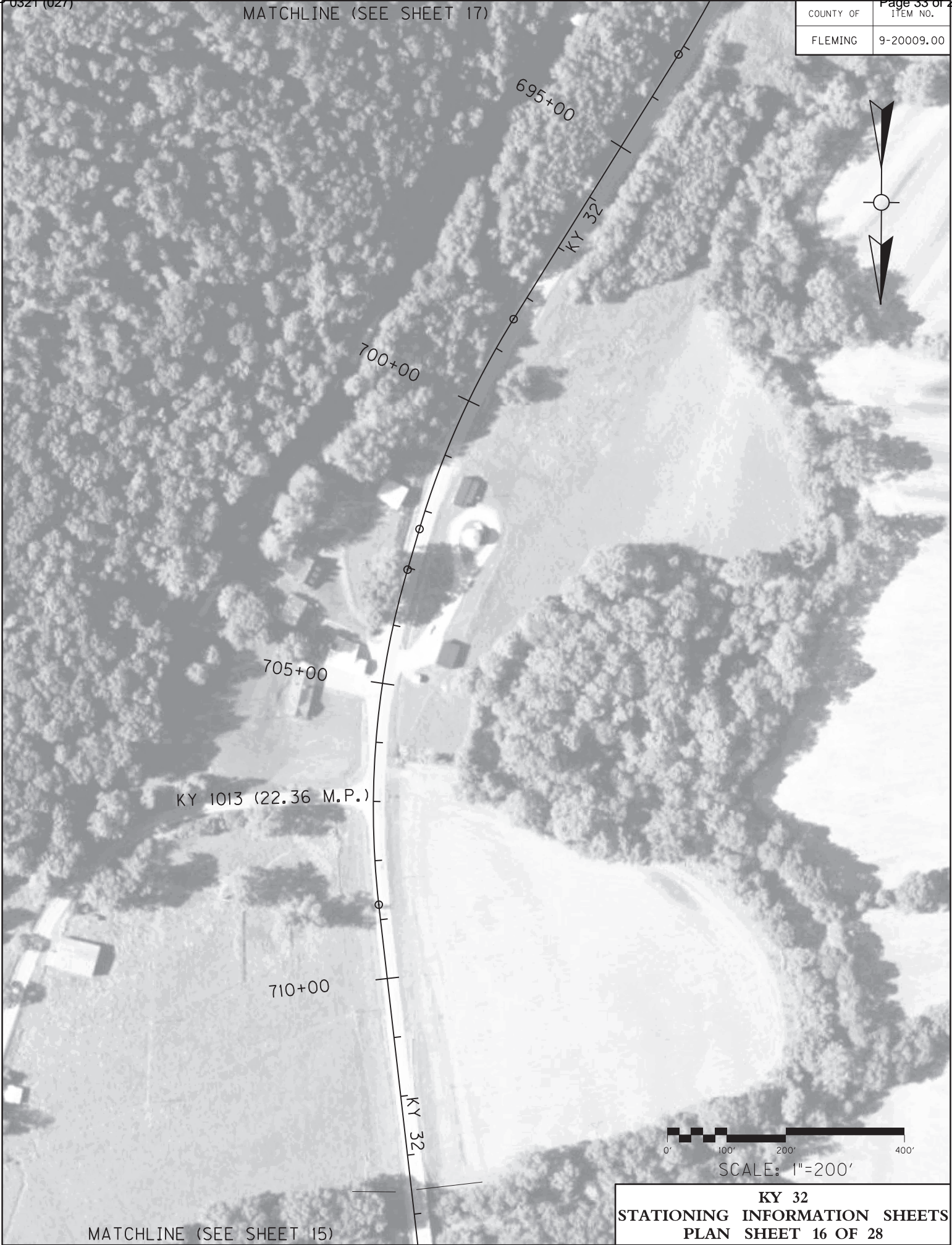
MATCHLINE (SEE SHEET 14)



SCALE: 1"=200'

MATCHLINE (SEE SHEET 17)

COUNTY OF	ITEM NO.
FLEMING	9-20009.00



MATCHLINE (SEE SHEET 15)

KY 32
STATIONING INFORMATION SHEETS
PLAN SHEET 16 OF 28

MATCHLINE (SEE SHEET 18)

COUNTY OF	ITEM NO.
FLEMING	9-20009.00

← MP 24.0

KY 32

675+00

680+00

KY 3303 (23.91 M.P.)

INDIAN CREEK RD. (23.87 M.P.)

685+00

KY 32

690+00



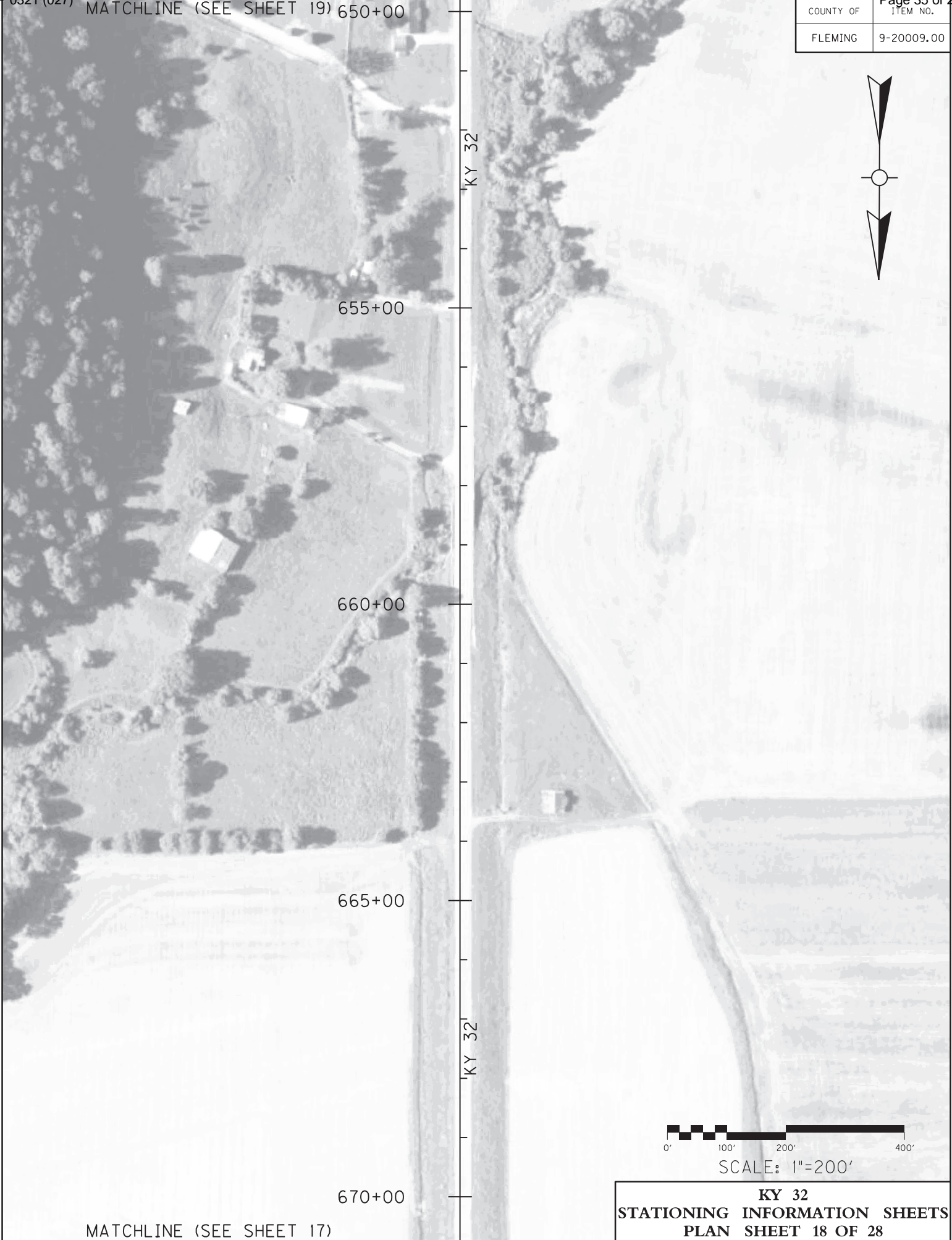
SCALE: 1"=200'

MATCHLINE (SEE SHEET 16)

KY 32
STATIONING INFORMATION SHEETS
PLAN SHEET 17 OF 28

MATCHLINE (SEE SHEET 19) 650+00

COUNTY OF	ITEM NO.
FLEMING	9-20009.00



MATCHLINE (SEE SHEET 17)



SCALE: 1"=200'

KY 32
STATIONING INFORMATION SHEETS
PLAN SHEET 18 OF 28

COUNTY OF	ITEM NO.
FLEMING	9-20009.00

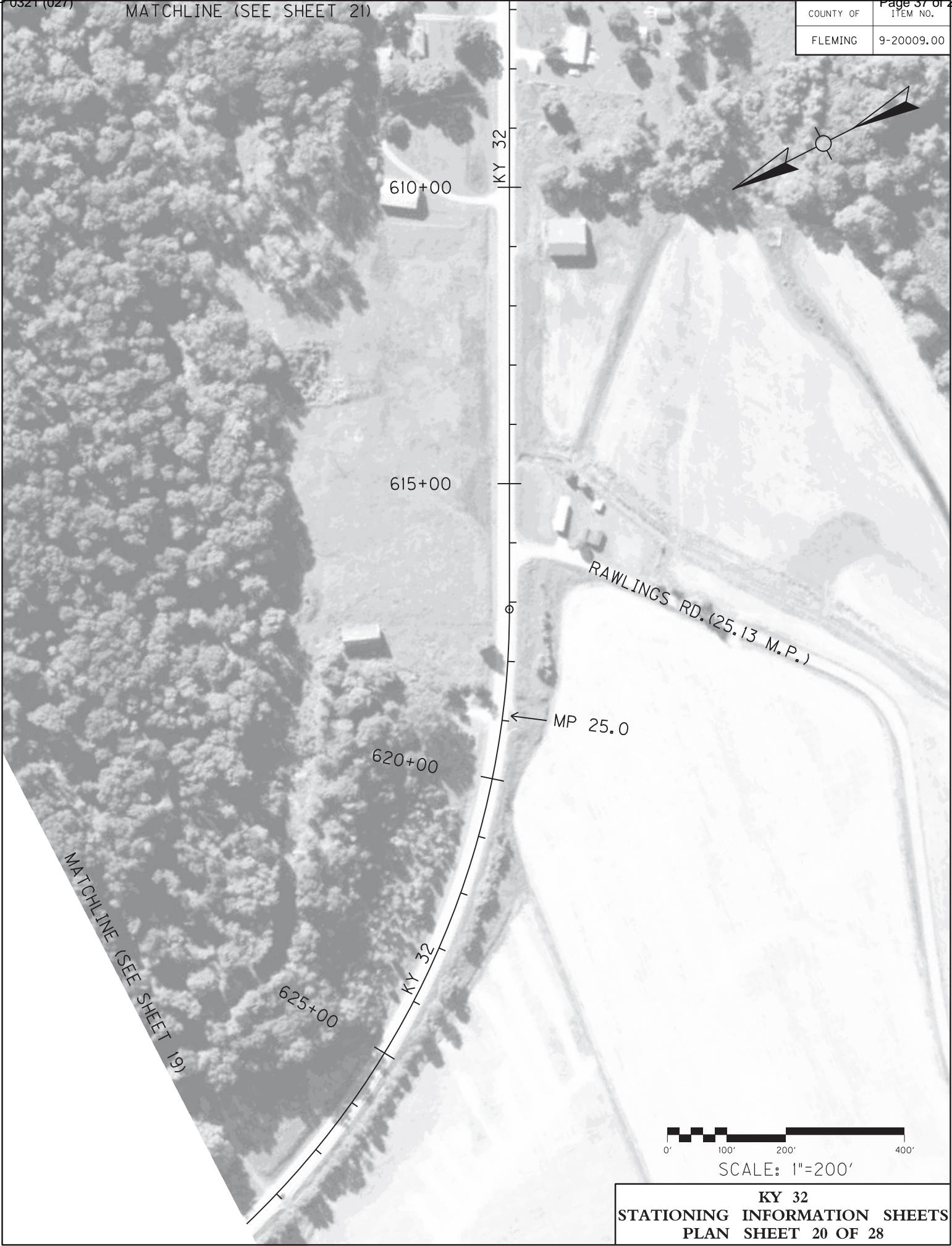


SCALE: 1"=200'

KY 32
STATIONING INFORMATION SHEETS
PLAN SHEET 19 OF 28

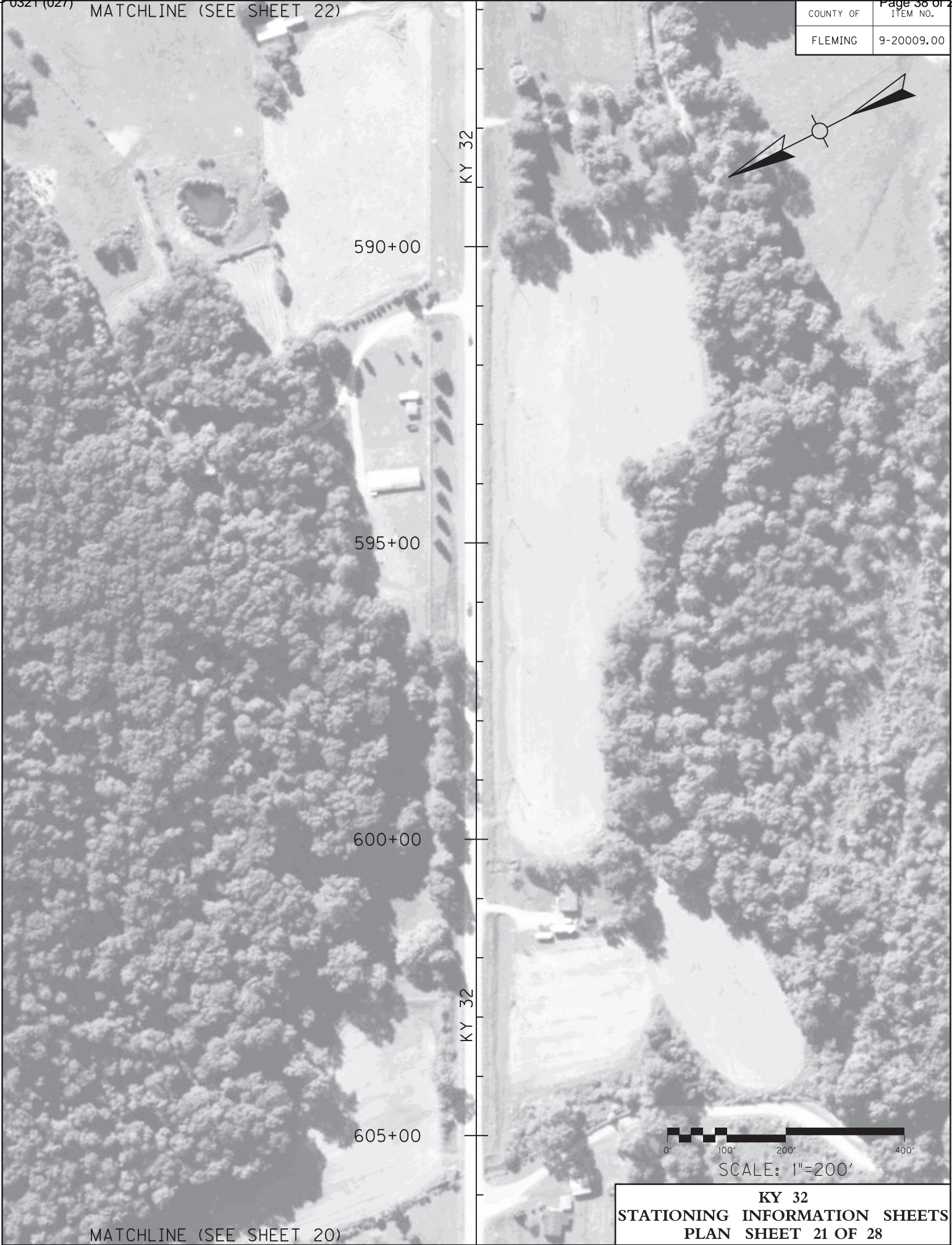
MATCHLINE (SEE SHEET 18)

COUNTY OF	ITEM NO.
FLEMING	9-20009.00

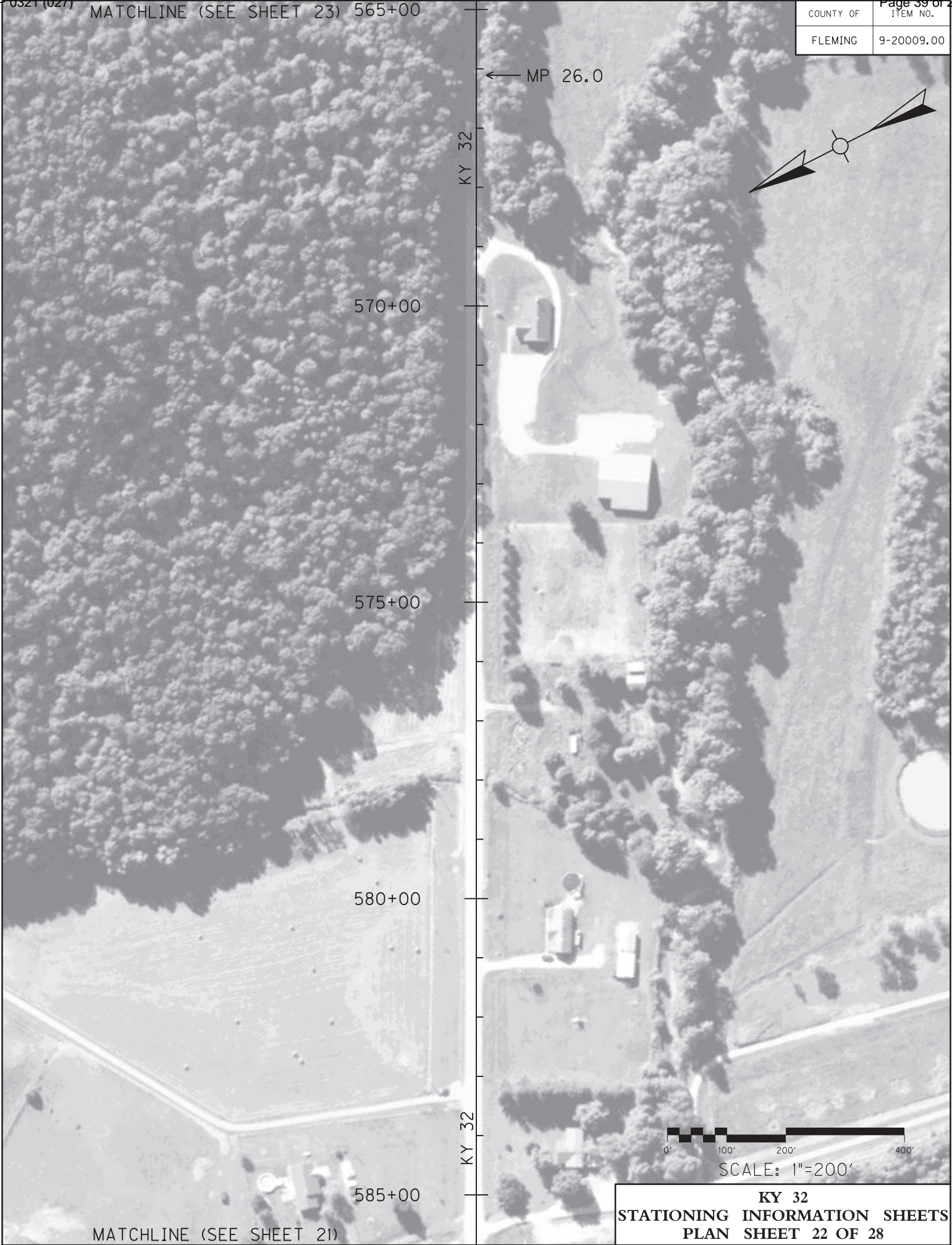


MATCHLINE (SEE SHEET 22)

COUNTY OF	ITEM NO.
FLEMING	9-20009.00

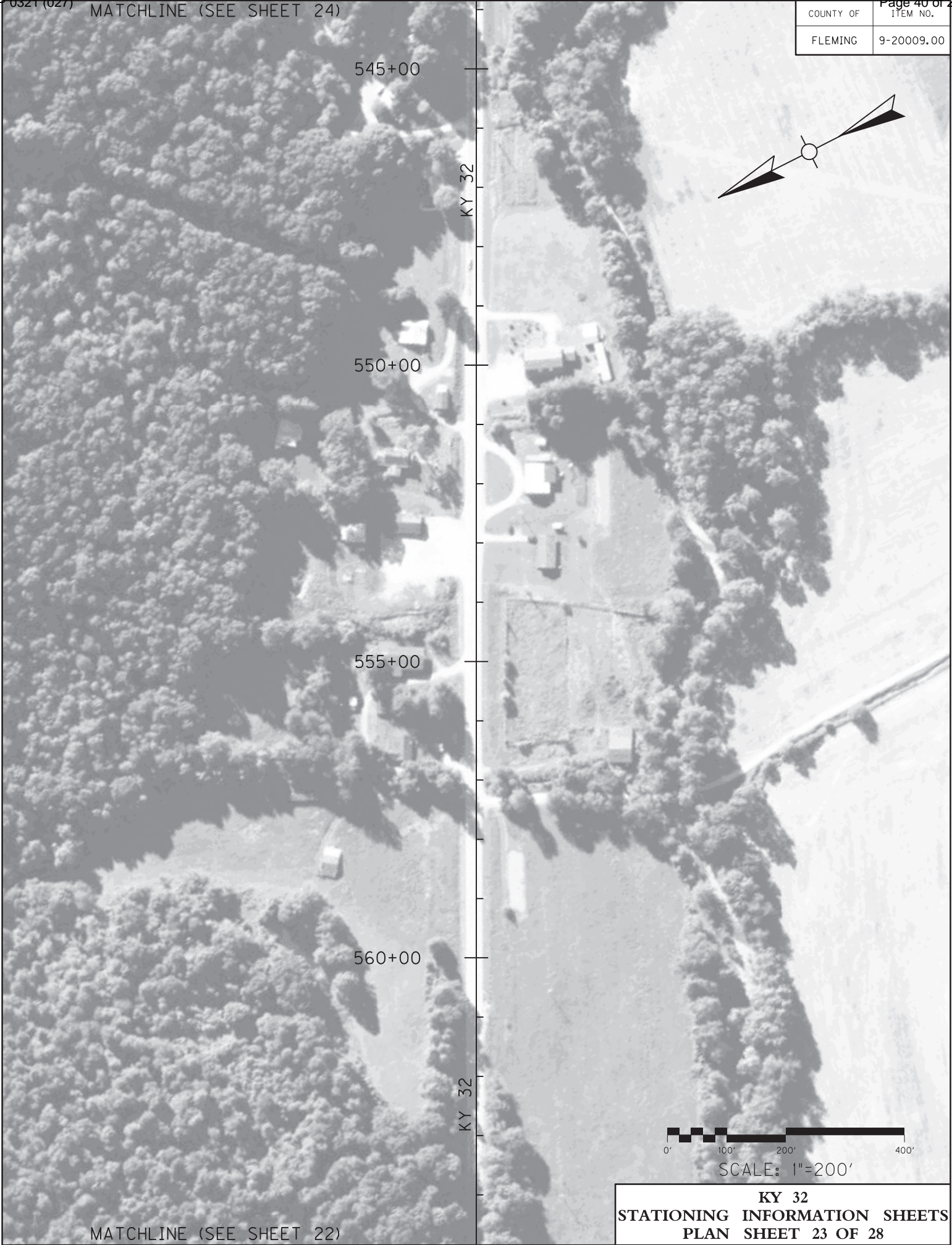


COUNTY OF	ITEM NO.
FLEMING	9-20009.00



MATCHLINE (SEE SHEET 24)

COUNTY OF	ITEM NO.
FLEMING	9-20009.00



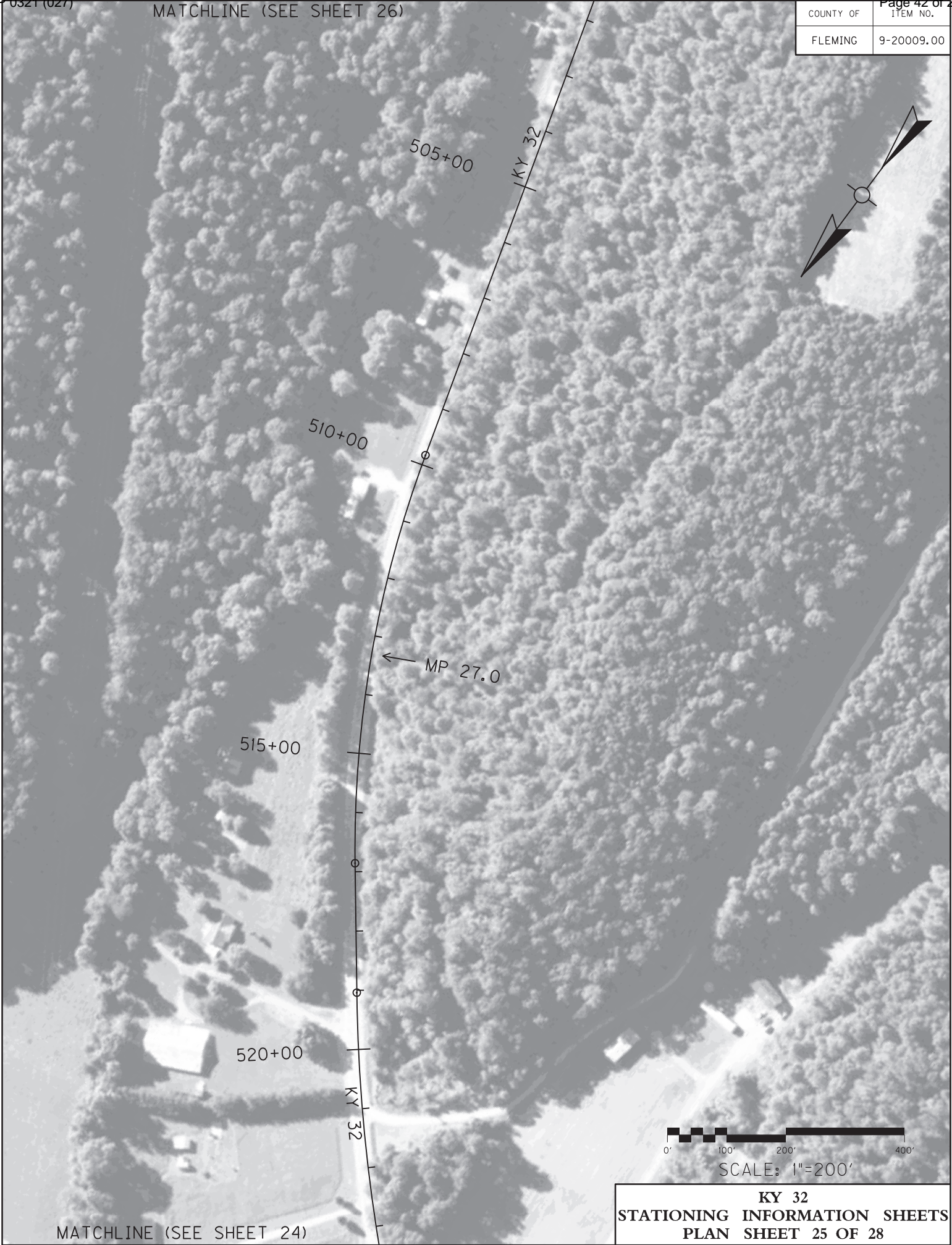
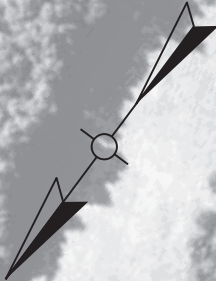
MATCHLINE (SEE SHEET 22)

COUNTY OF	ITEM NO.
FLEMING	9-20009.00



COUNTY OF	ITEM NO.
FLEMING	9-20009.00

MATCHLINE (SEE SHEET 26)

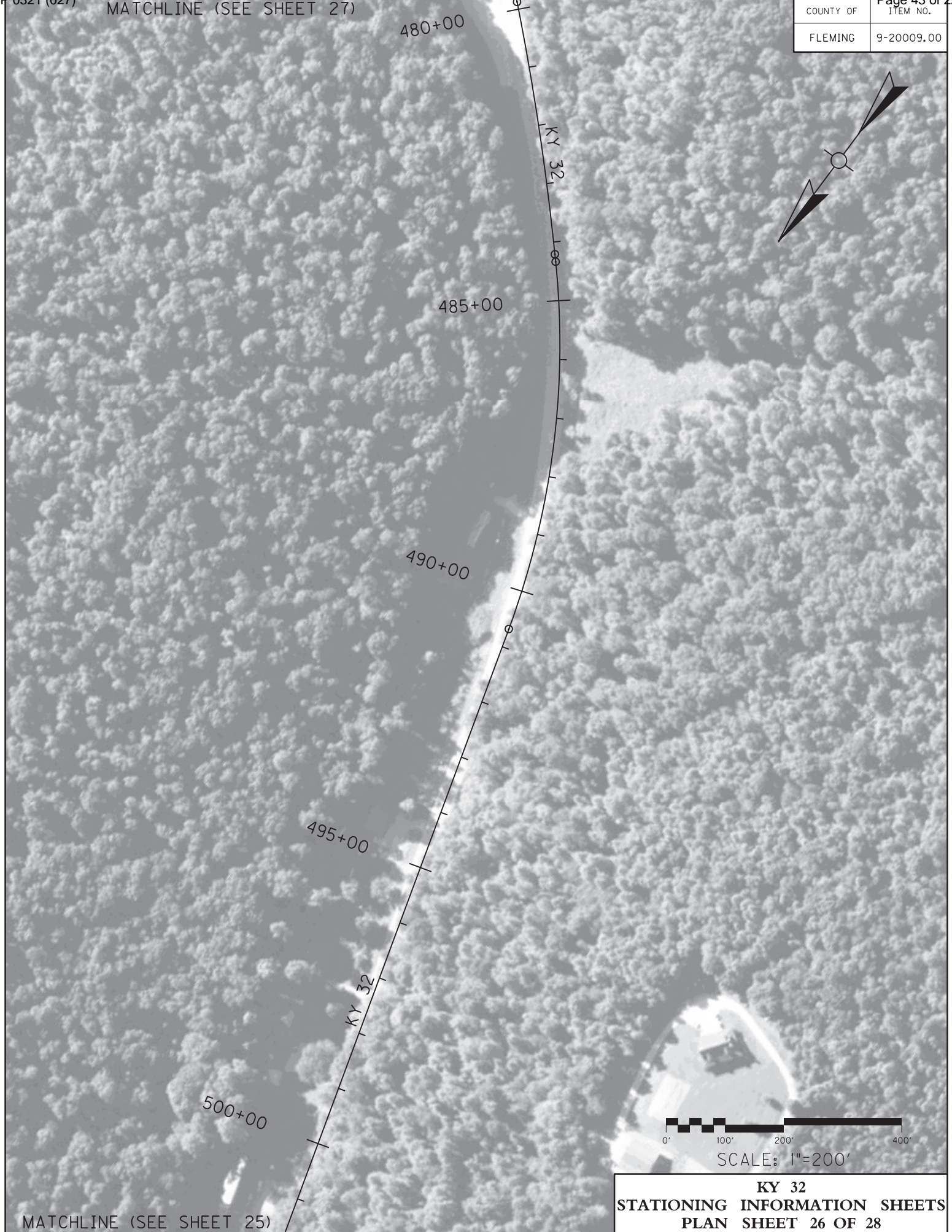


MATCHLINE (SEE SHEET 24)

KY 32
STATIONING INFORMATION SHEETS
PLAN SHEET 25 OF 28

MATCHLINE (SEE SHEET 27)

COUNTY OF	ITEM NO.
FLEMING	9-20009.00



MATCHLINE (SEE SHEET 25)

MATCHLINE (SEE SHEET 28)

COUNTY OF	ITEM NO.
FLEMING	9-20009.00

460+00 ← MP 28.0

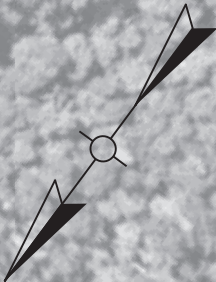
KY 32

465+00

470+00

475+00

KY 32

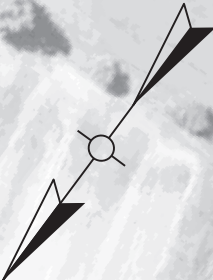


SCALE: 1"=200'

MATCHLINE (SEE SHEET 26)

KY 32
STATIONING INFORMATION SHEETS
PLAN SHEET 27 OF 28

COUNTY OF	ITEM NO.
FLEMING	9-20009.00



440+00

KY 32

445+00

END CONSTRUCTION
KY 32 M.P. 28.29

BIG WOODS RD. (28.24 M.P.)

450+00

KY 1895 (28.28 M.P.)

KY 32

455+00



SCALE: 1"=200'

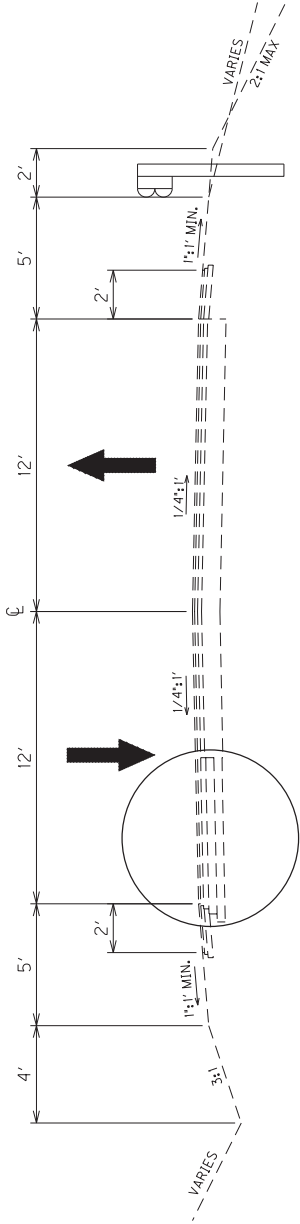
MATCHLINE (SEE SHEET 27)

KY 32
STATIONING INFORMATION SHEETS
PLAN SHEET 28 OF 28

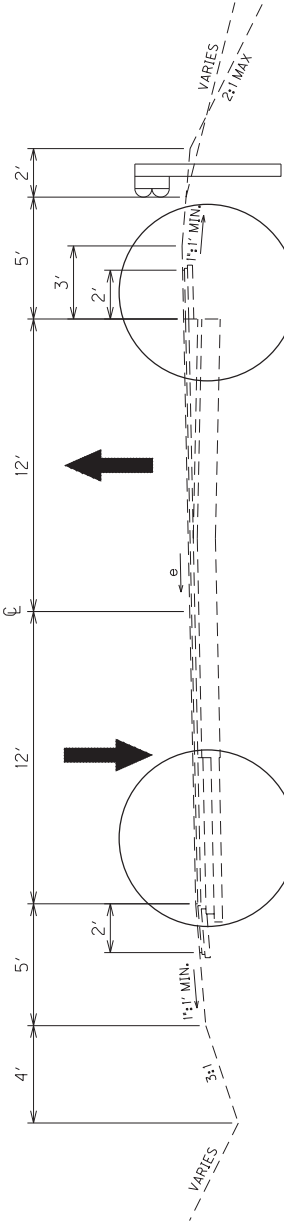
KY 32

EXISTING TYPICAL SECTIONS

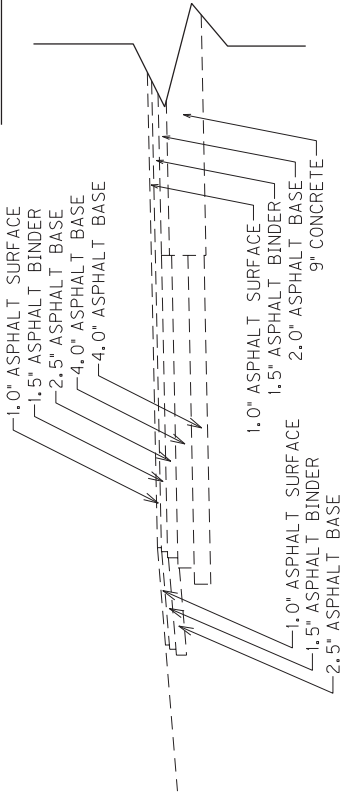
M.P. 17.45 TO M.P. 18.25
M.P. 18.46 TO M.P. 20.50
M.P. 20.90 TO M.P. 26.27
M.P. 26.42 TO M.P. 28.29



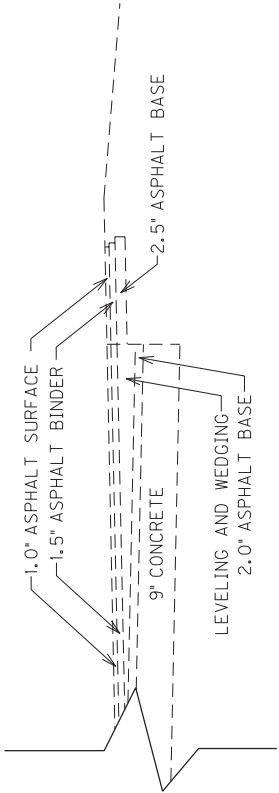
NORMAL SECTION



SUPERELEVATED SECTION



DETAIL 'A'



DETAIL 'B'

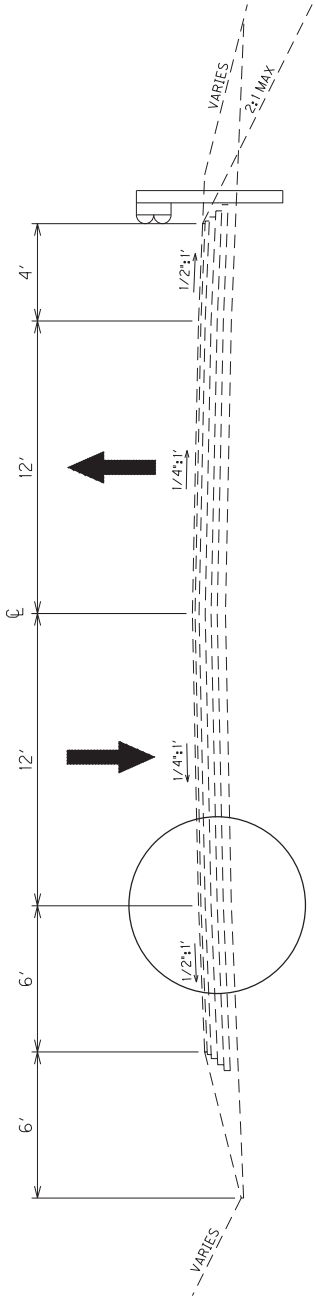
NOT TO SCALE
KY 32
TYPICAL SECTIONS

KY 32

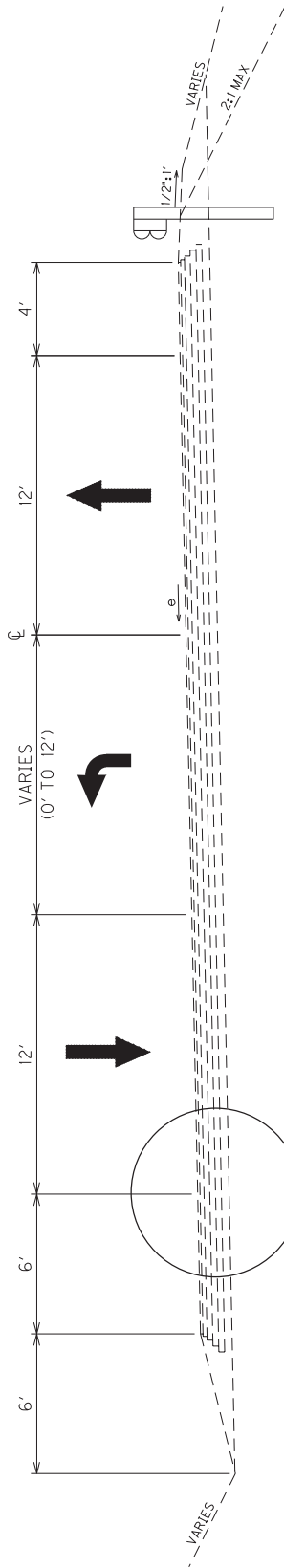
EXISTING TYPICAL SECTIONS

M.P. 18.25 TO M.P. 18.46

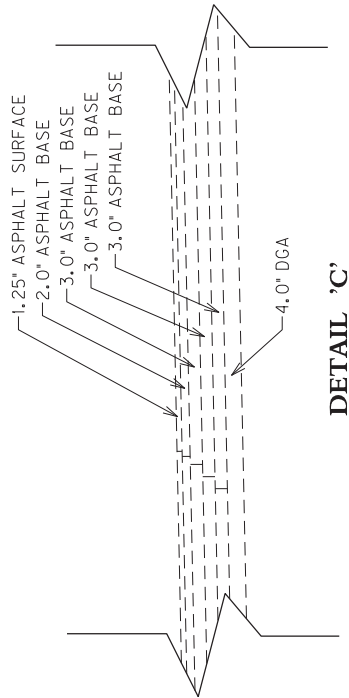
COUNTY OF	ITEM NO.
FLEMING	9-20009



NORMAL SECTION



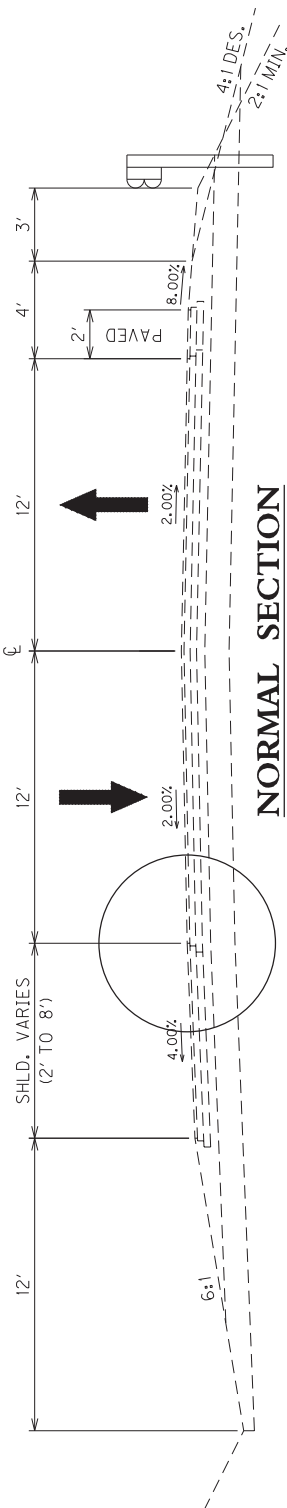
SUPERELEVATED SECTION



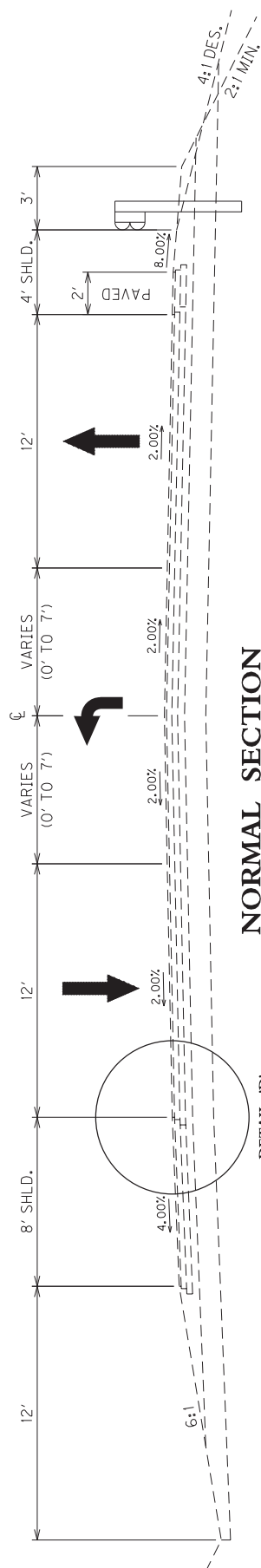
NOT TO SCALE

KY 32

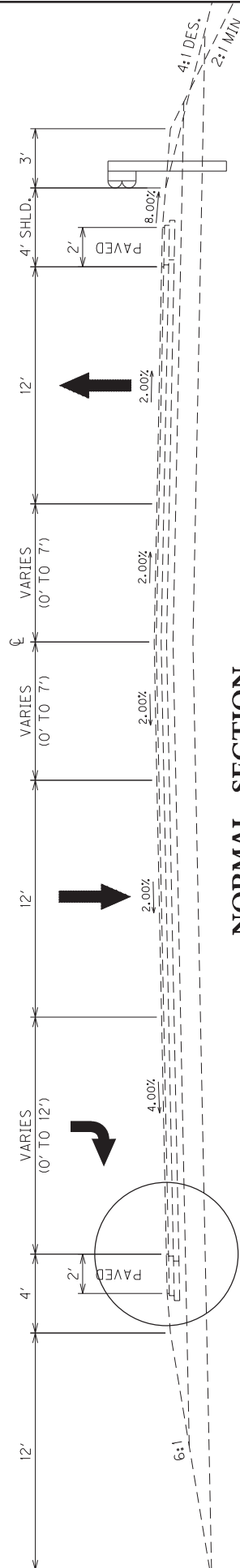
COUNTY OF	ITEM NO.
FLEMING	9-20009



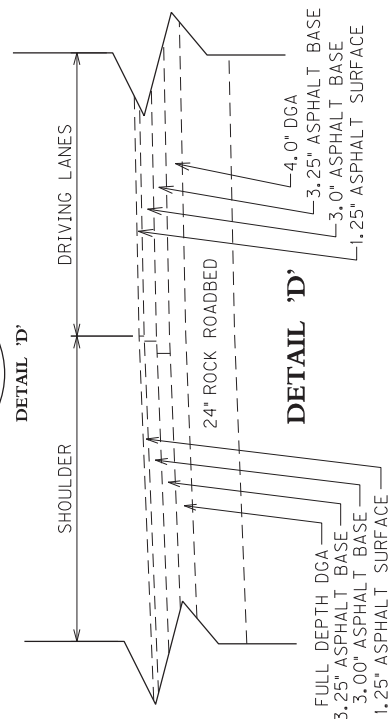
NORMAL SECTION
M.P. 20.50 TO M.P. 20.54



NORMAL SECTION
M.P. 20.54 TO M.P. 20.74



NORMAL SECTION
M.P. 20.74 TO 20.90



NOT TO SCALE

KY 32

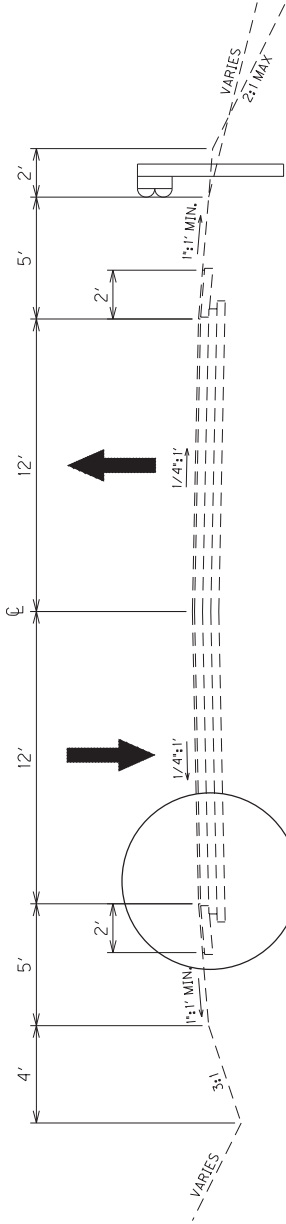
TYPICAL SECTIONS

KY 32

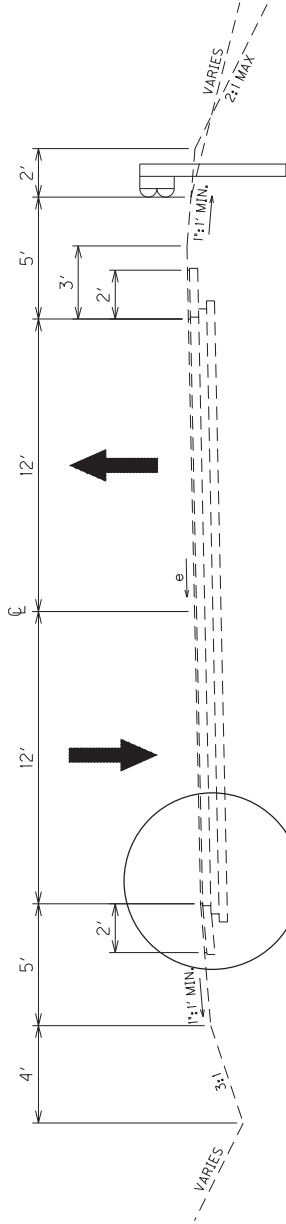
EXISTING TYPICAL SECTIONS

M.P. 26.27 TO M.P. 26.42

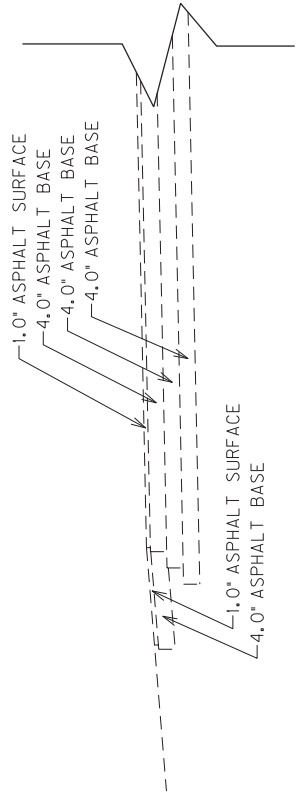
COUNTY OF FLEMING	ITEM NO. 9-20009
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NORMAL SECTION



SUPERELEVATED SECTION



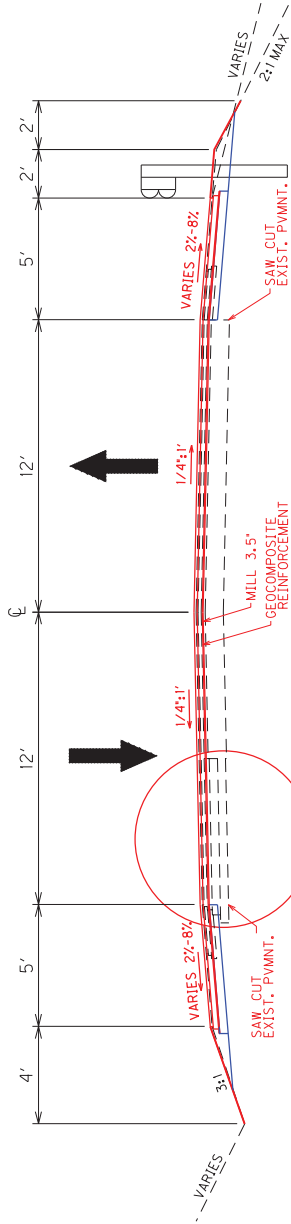
DETAIL 'E'

KY 32

PROPOSED TYPICAL SECTIONS

M.P. 17.45 TO M.P. 18.25
M.P. 18.46 TO M.P. 19.12
M.P. 19.18 TO M.P. 20.50
M.P. 20.90 TO M.P. 26.27
M.P. 26.42 TO M.P. 28.29

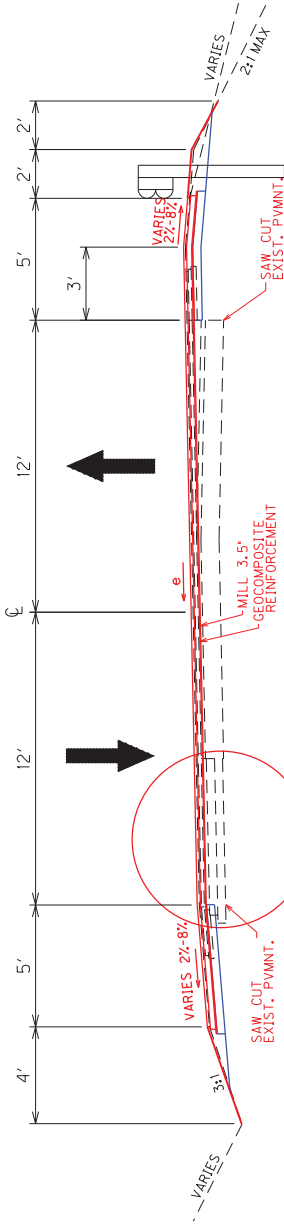
COUNTY OF	ITEM NO.
FLEMING	9-20009



DETAIL 'F'

NORMAL SECTION

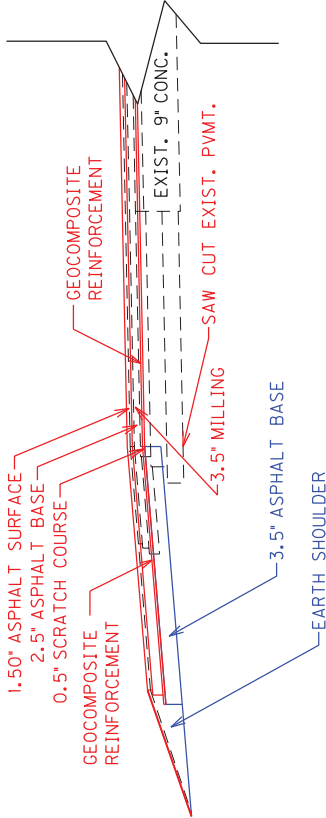
- PAVEMENT REHABILITATION
- DRIVING LANES - MILLING AND OVERLAY
- 1.50" CL3 ASPHALT SURFACE 0.38B PG64-22
 - 2.5" CL2 ASPHALT BASE 0.75D PG64-22
 - GEOCOMPOSITE REINFORCEMENT FOR ASPHALT
 - 0.5" SCRATCH COURSE
 - 3.5" ASPHALT MILLING AND TEXTURING
- SHOULDERS - FULL DEPTH WIDENING
- 3.5" CL2 ASPHALT BASE 1.00D PG64-22



- SHOULDERS - OVERLAY
- 1.50" CL2 ASPHALT SURFACE 0.38D PG64-22
 - 2.5" CL2 ASPHALT BASE 0.75D PG64-22
 - GEOCOMPOSITE REINFORCEMENT FOR ASPHALT
 - 0.5" SCRATCH COURSE

DETAIL 'F'

SUPERELEVATED SECTION



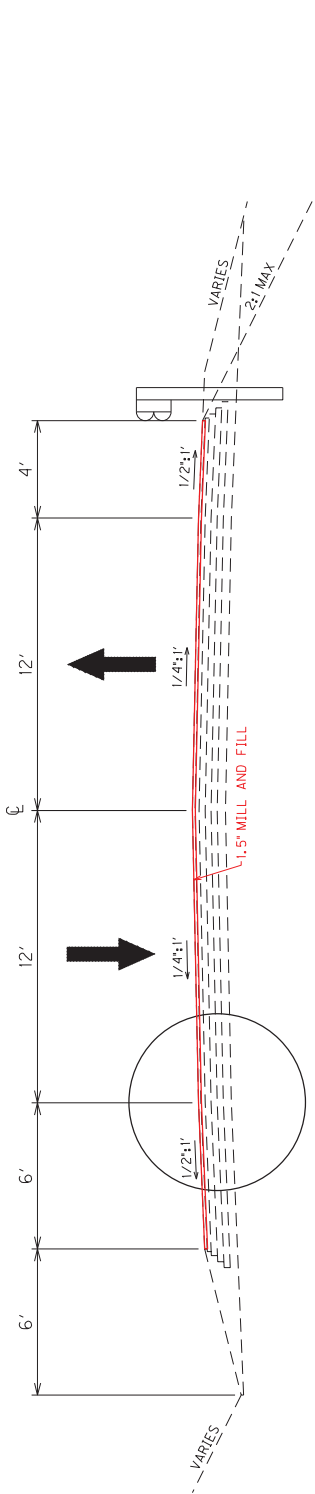
DETAIL 'F'

KY 32

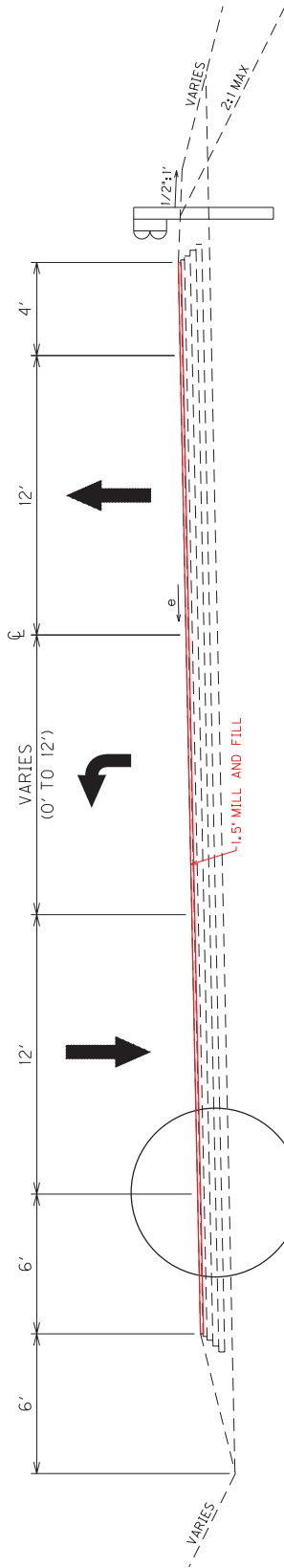
PROPOSED TYPICAL SECTIONS

M.P. 18.25 TO M.P. 18.46

COUNTY OF	ITEM NO.
FLEMING	9-20009

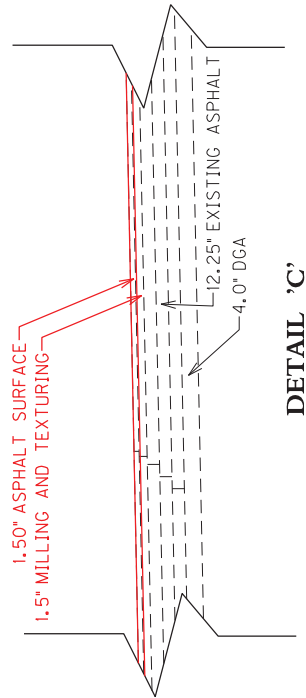


NORMAL SECTION



SUPERELEVATED SECTION

- PAVEMENT REHABILITATION
- DRIVING LANES - MILLING AND OVERLAY
 - 1.50" CL3 ASPHALT SURFACE 0.38B PG76-22
 - 1.5" ASPHALT MILLING AND TEXTURING
 - SHOULDERS - MILLING AND OVERLAY
 - 1.50" CL2 ASPHALT SURFACE 0.38D PG64-22
 - 1.5" ASPHALT MILLING AND TEXTURING



NOT TO SCALE

KY 32
TYPICAL SECTIONS

KY 32

PROPOSED TYPICAL SECTIONS

M.P. 19.12 TO M.P. 19.18
SLIDE REPAIR

PAVEMENT REHABILITATION

DRIVING LANES - MILLING AND OVERLAY

- 1.50" CL3 ASPHALT SURFACE 0.38B PG76-22
- 2.5" CL2 ASPHALT BASE 0.75D PG64-22
- GEOCOMPOSITE REINFORCEMENT FOR ASPHALT
- 0.5" SCRATCH COURSE
- 3.5" ASPHALT MILLING AND TEXTURING

SHOULDERS - FULL DEPTH WIDENING

- 3.5" CL2 ASPHALT BASE 1.00D PG64-22

SHOULDERS - OVERLAY

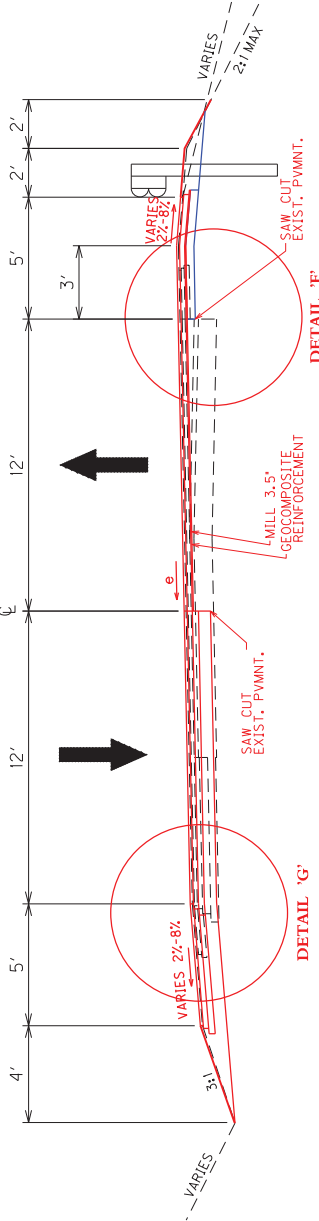
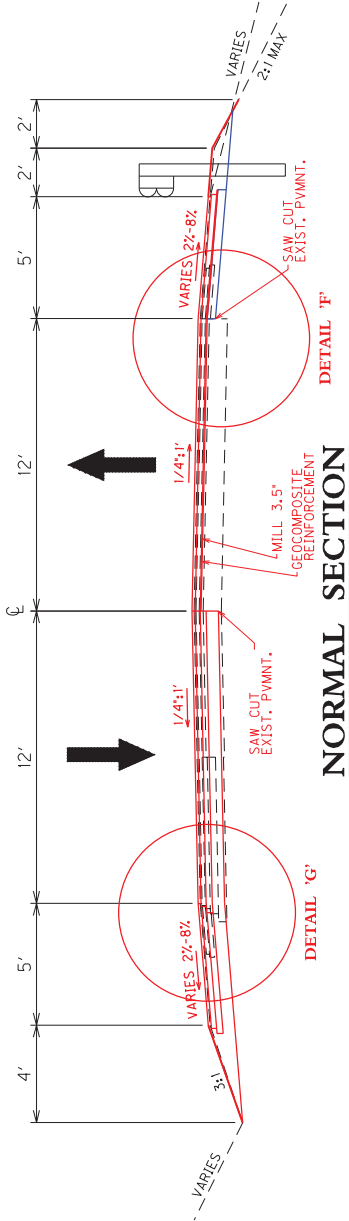
- 1.50" CL2 ASPHALT SURFACE 0.38D PG64-22
- 2.5" CL2 ASPHALT BASE 0.75D PG64-22
- GEOCOMPOSITE REINFORCEMENT FOR ASPHALT
- 0.5" SCRATCH COURSE

SLIDE REPAIR DRIVING LANES - FULL DEPTH PAVEMENT

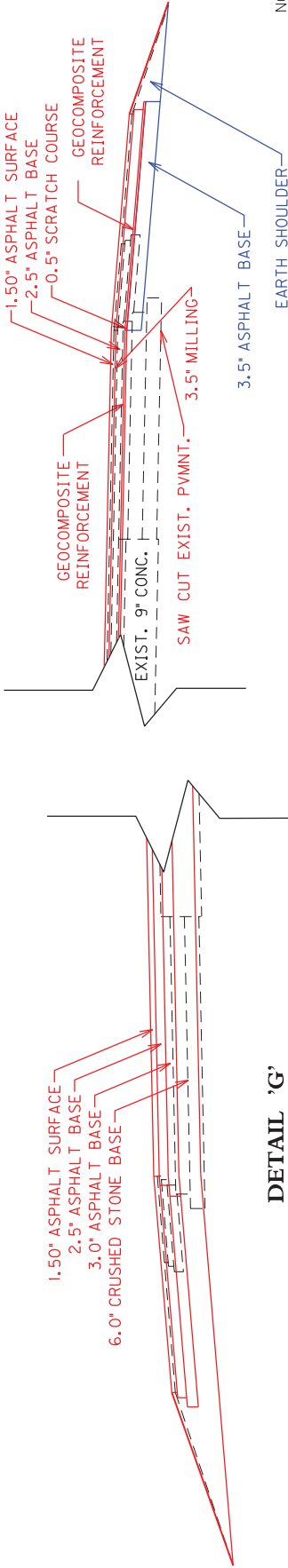
- 1.50" CL3 ASPHALT SURFACE 0.38B PG76-22
- 2.5" CL2 ASPHALT BASE 0.75D PG64-22
- 3.0" CL2 ASPHALT BASE 0.75D PG64-22
- 6.0" CRUSHED STONE BASE

SLIDE REPAIR SHOULDER - FULL DEPTH PAVEMENT

- 1.50" CL3 ASPHALT SURFACE 0.38B PG76-22
- 2.5" CL2 ASPHALT BASE 0.75D PG64-22
- 3.0" CL2 ASPHALT BASE 0.75D PG64-22
- 6.0" CRUSHED STONE BASE



SUPERELEVATED SECTION

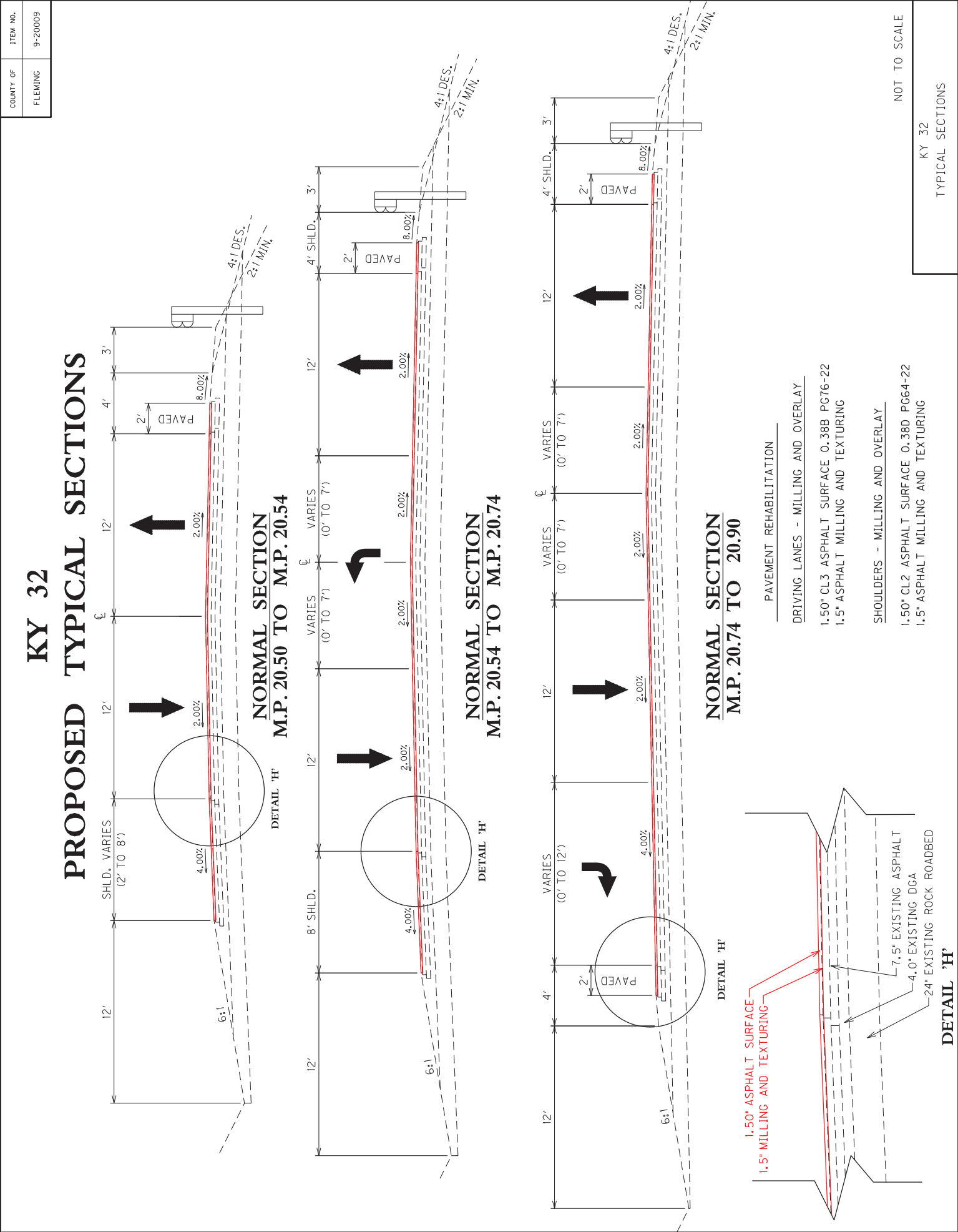


DETAIL 'F'

NOT TO SCALE

KY 32

TYPICAL SECTIONS

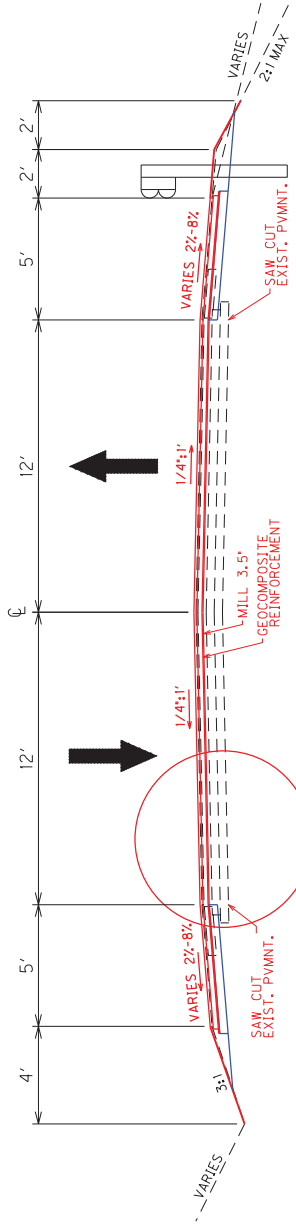


KY 32

PROPOSED TYPICAL SECTIONS

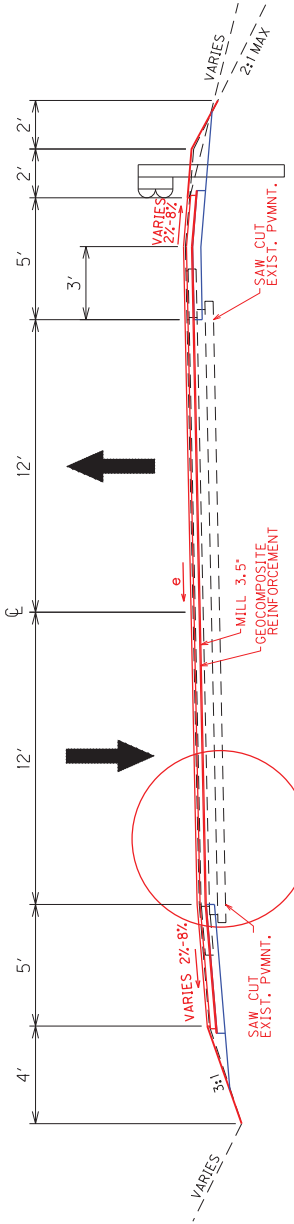
M.P. 26.27 TO M.P. 26.42

COUNTY OF	ITEM NO.
FLEMING	9-20009

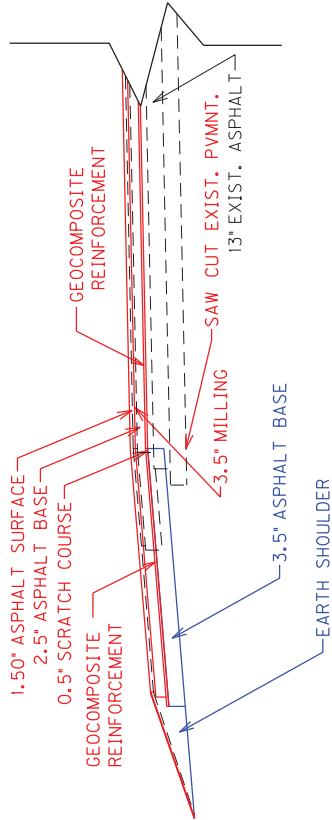


DETAIL 'E'
NORMAL SECTION

- PAVEMENT REHABILITATION
- DRIVING LANES - MILLING AND OVERLAY
- 1.50" CL3 ASPHALT SURFACE 0.38B PG64-22
 - 2.5" CL2 ASPHALT BASE 0.75D PG64-22
 - GEOCOMPOSITE REINFORCEMENT FOR ASPHALT
 - 0.5" SCRATCH COURSE
 - 3.5" ASPHALT MILLING AND TEXTURING
- SHOULDER - FULL DEPTH WIDENING
- 3.5" CL2 ASPHALT BASE 1.00D PG64-22
- SHOULDER - OVERLAY
- 1.50" CL2 ASPHALT SURFACE 0.38D PG64-22
 - 2.5" CL2 ASPHALT BASE 0.75D PG64-22
 - GEOCOMPOSITE REINFORCEMENT FOR ASPHALT
 - 0.5" SCRATCH COURSE

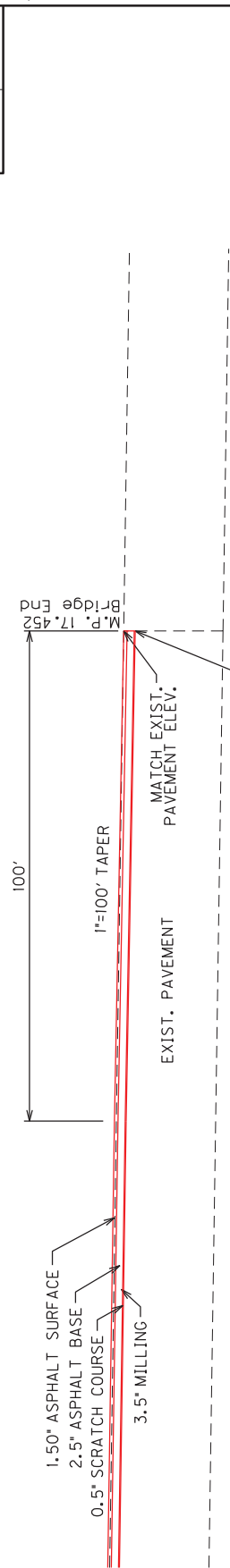


DETAIL 'E'
SUPERELEVATED SECTION

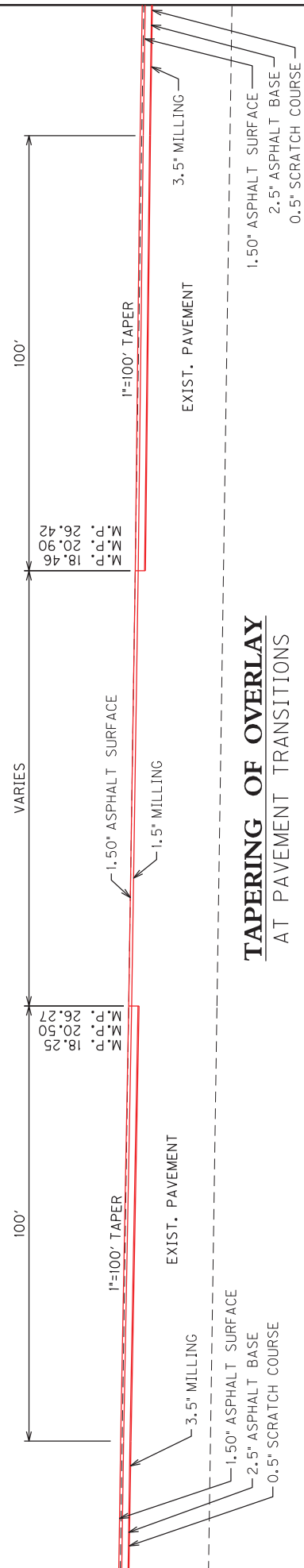


DETAIL 'E'

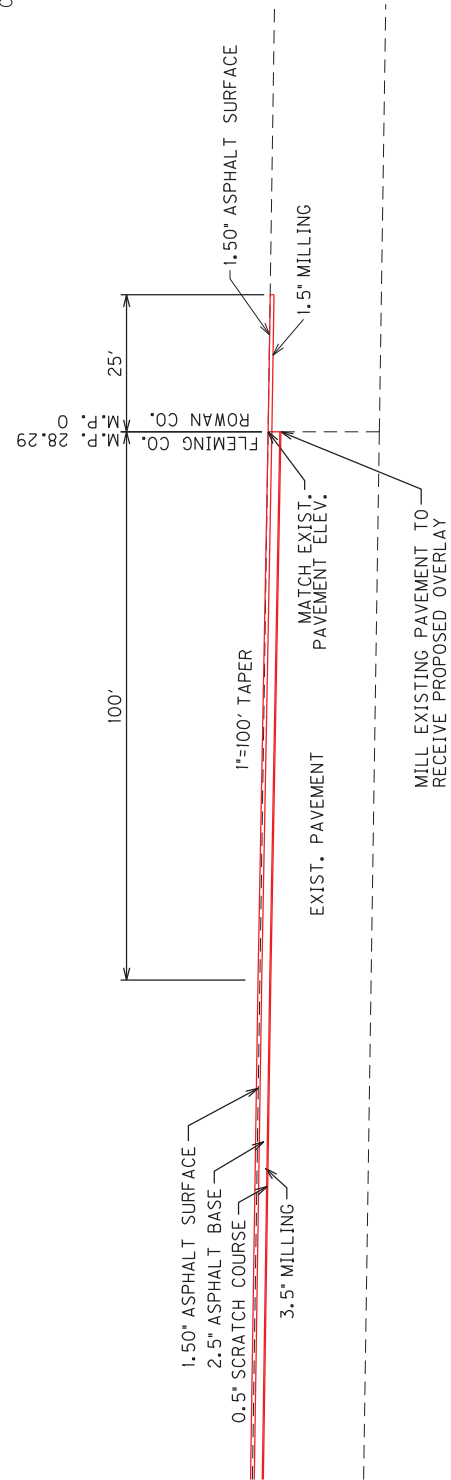
COUNTY OF	ITEM NO.
FLEMING	9-20009



TAPERING OF OVERLAY



TAPERING OF OVERLAY AT PAVEMENT TRANSITIONS

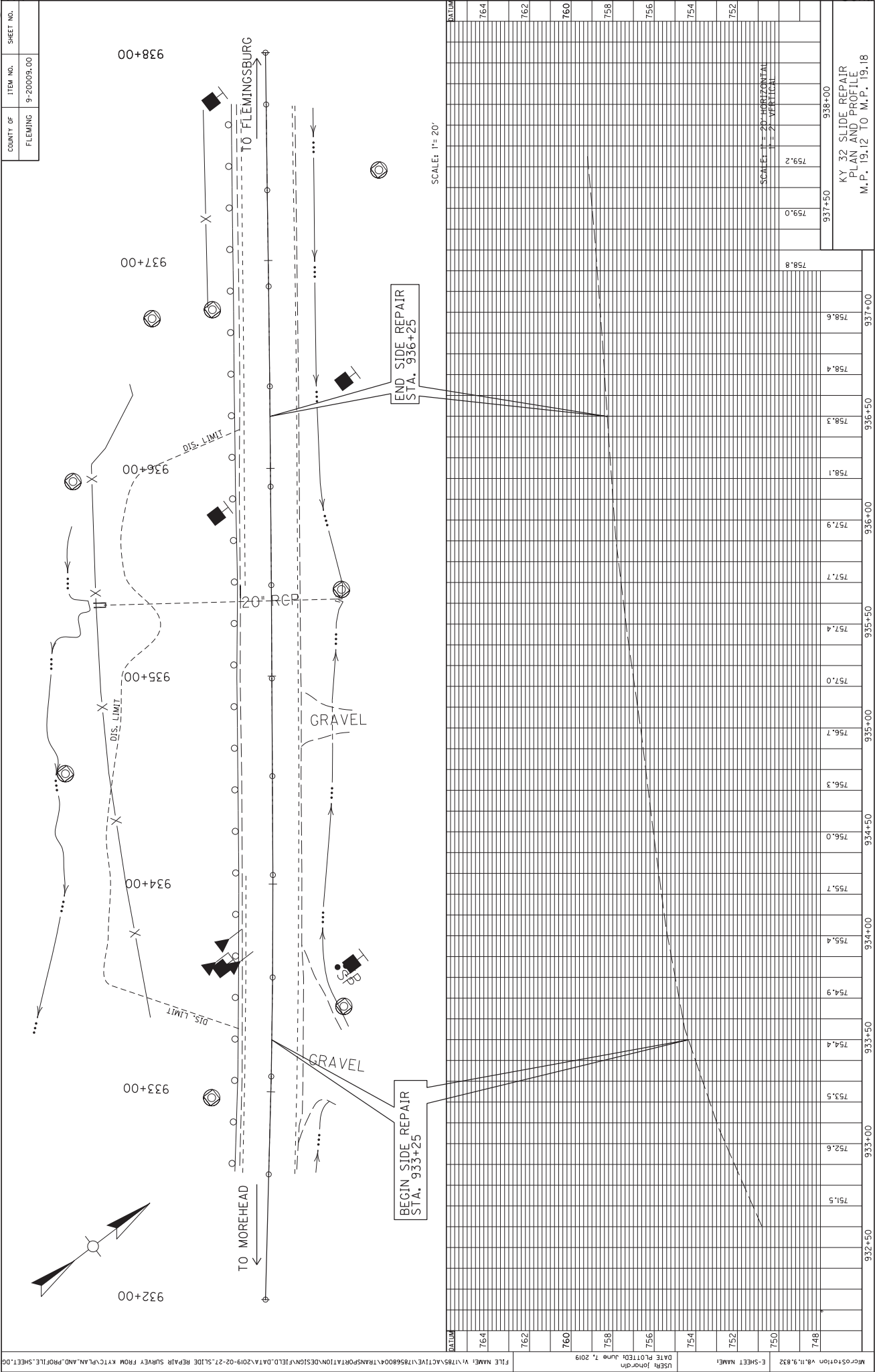


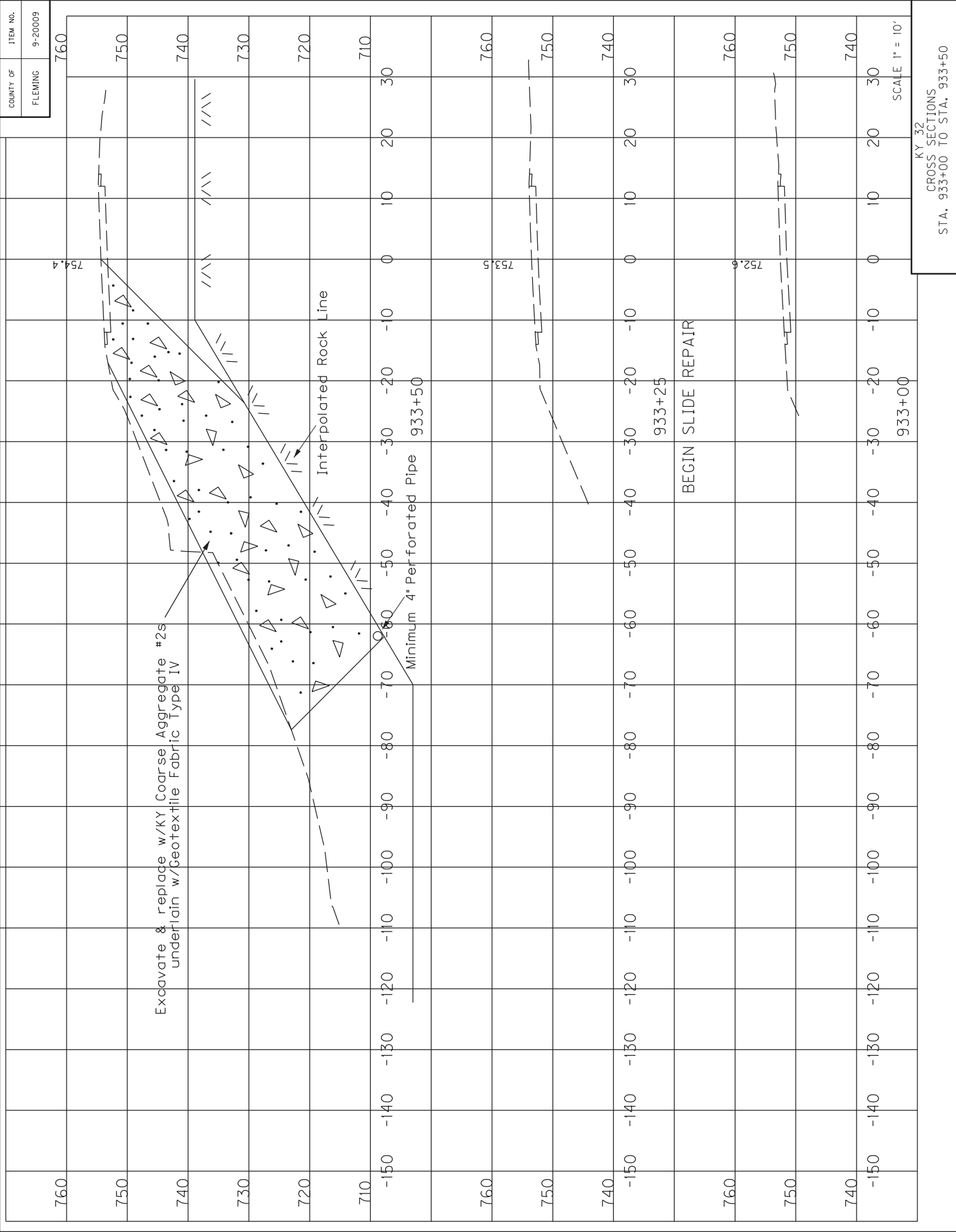
TAPERING OF OVERLAY
AT EASTERN PROJECT TERMINUS
FLEMING COUNTY AND ROWAN COUNTY LINE

NOT TO SCALE

KY 32
TYPICAL SECTIONS

COUNTY OF	ITEM NO.	SHEET NO.
FLEMING	9-20009.00	



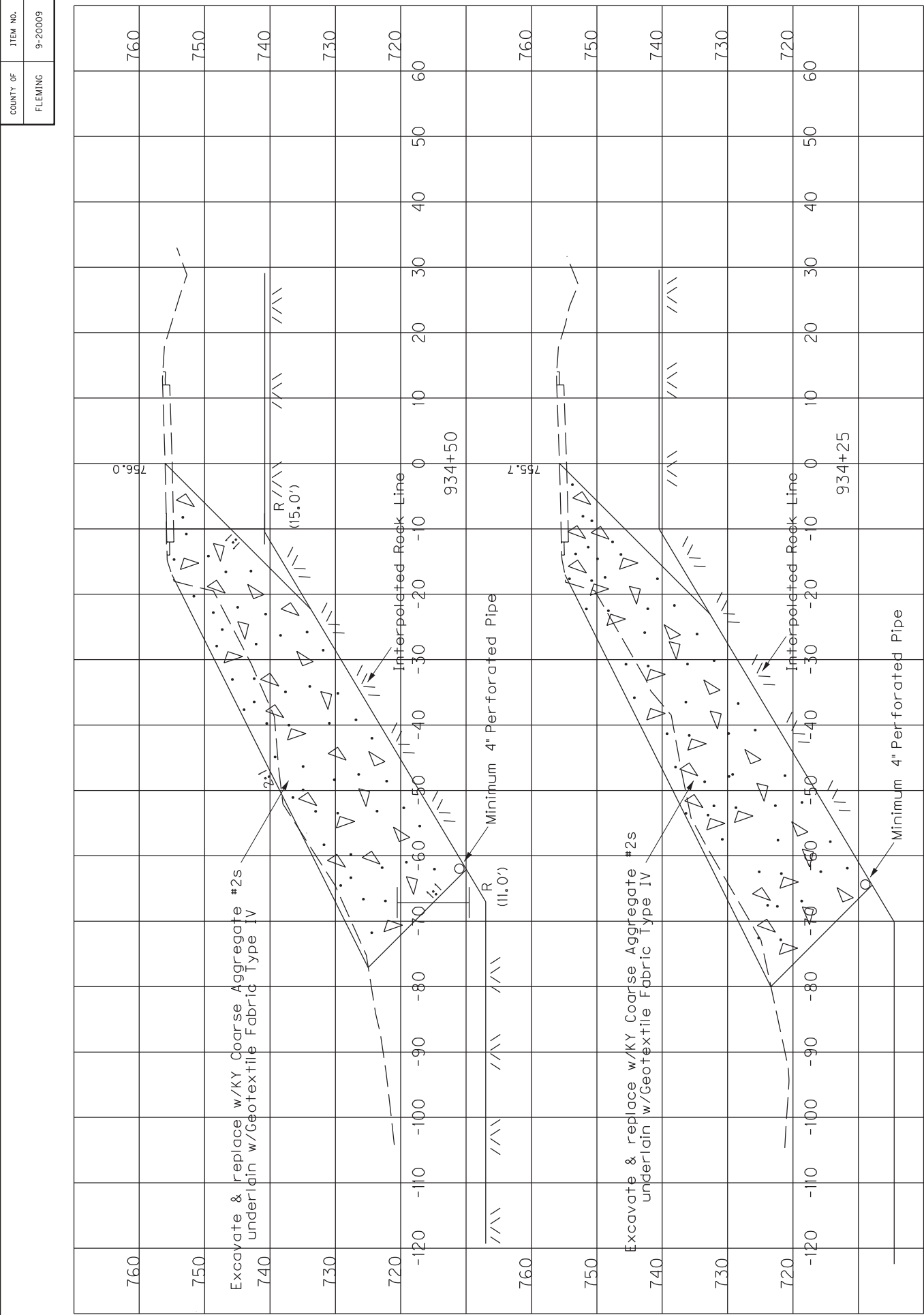


COUNTY OF																			ITEM NO.
FLEMING																			9-20009
760																			
750																			
740																			
730																			
720																			
710																			
-120	-110	-100	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	
<p>Excavate & replace w/KY Coarse Aggregate #2s underlain w/Geotextile Fabric Type IV</p> <p>Interpolated Rock Line</p> <p>Minimum 4" Perforated Pipe</p> <p>755.4</p> <p>934+00</p>																			
760																			
750																			
740																			
730																			
720																			
710																			
-120	-110	-100	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	
<p>Excavate & replace w/KY Coarse Aggregate #2s underlain w/Geotextile Fabric Type IV</p> <p>Interpolated Rock Line</p> <p>Minimum 4" Perforated Pipe</p> <p>754.9</p> <p>933+75</p>																			
760																			
750																			
740																			
730																			
720																			
710																			
-120	-110	-100	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	

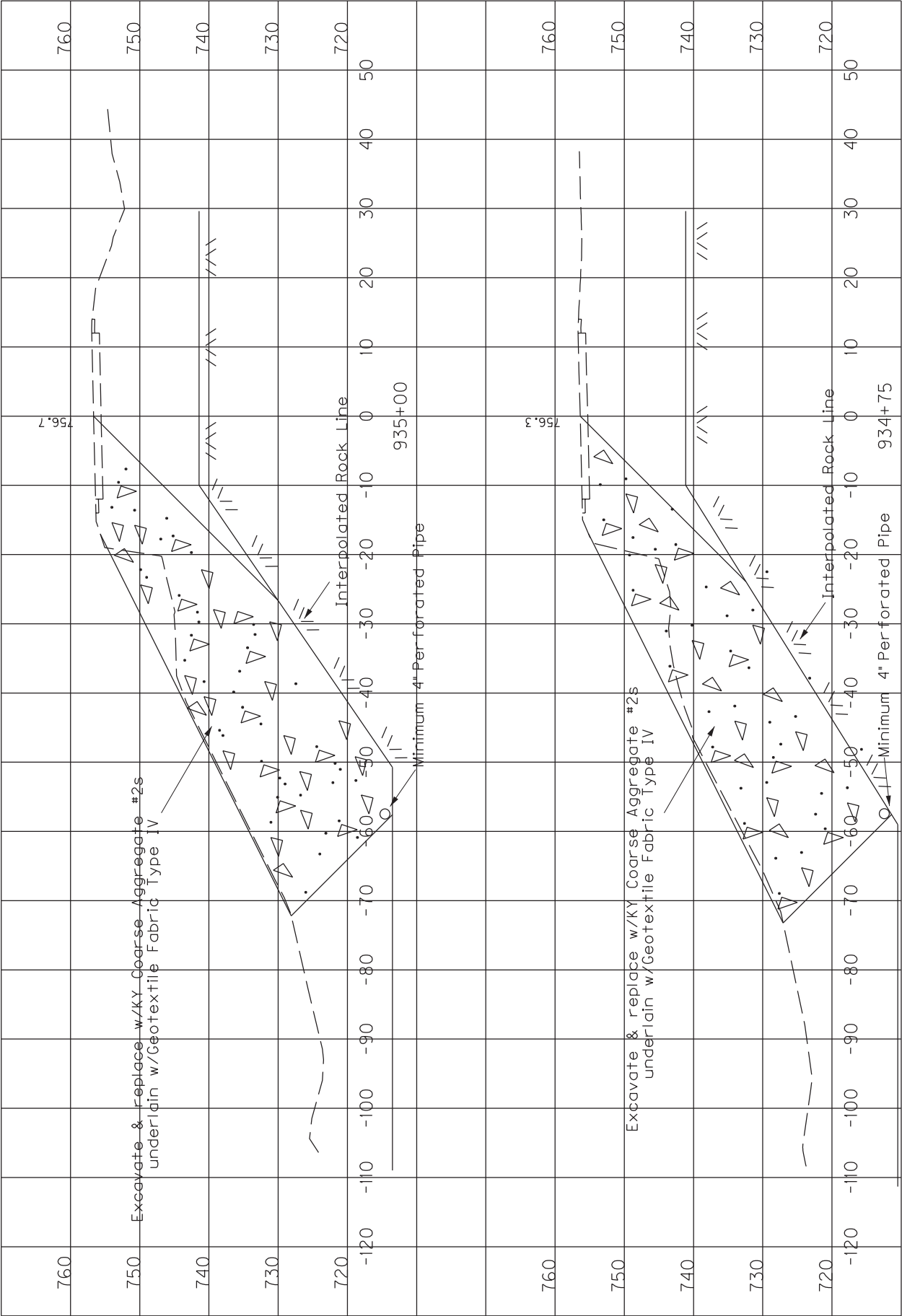
KY 32

CROSS SECTIONS

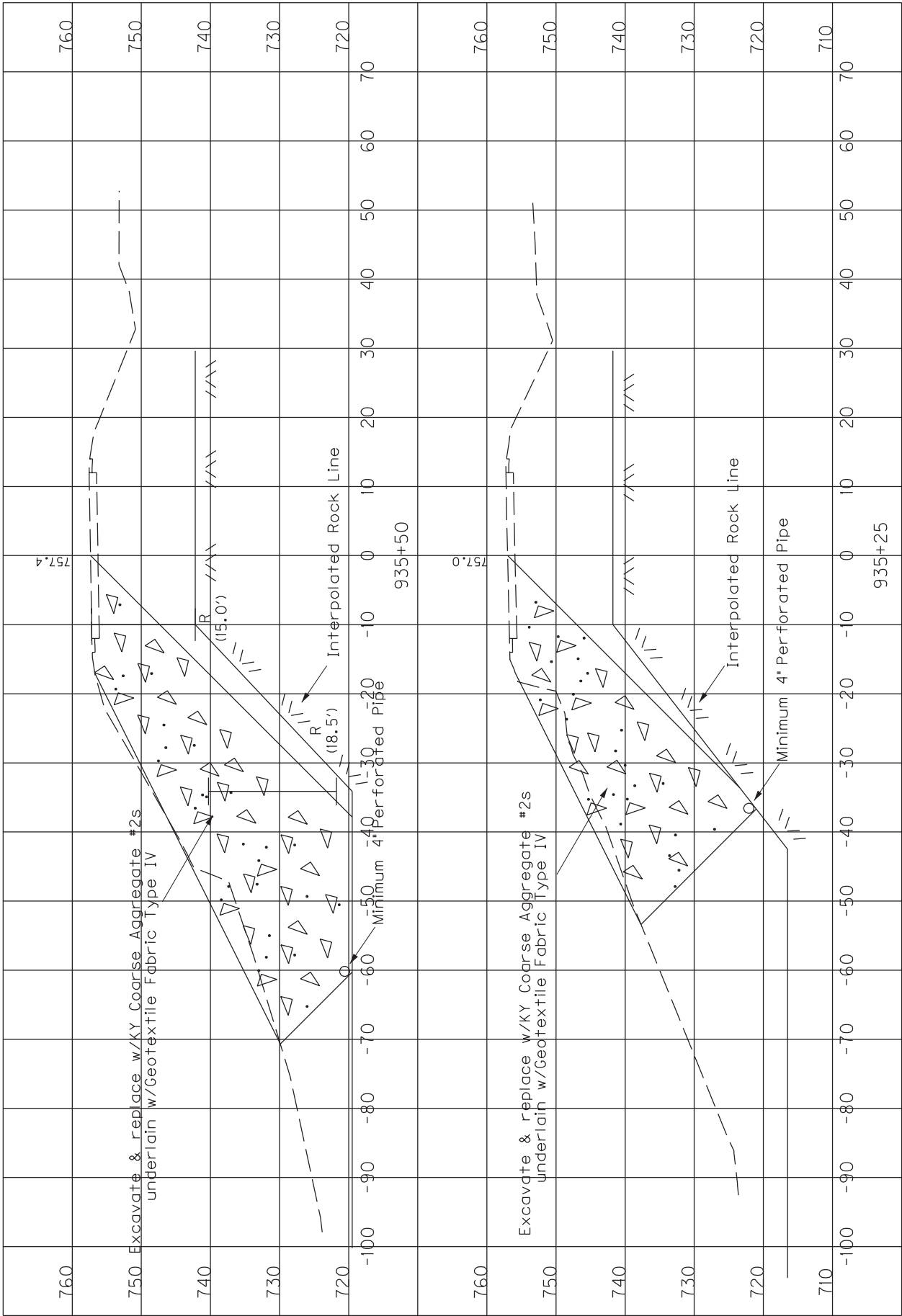
STA 933+75 TO STA. 934+00



COUNTY OF	ITEM NO.
FLEMING	9-20009



COUNTY OF	ITEM NO.
FLEMING	9-20009



COUNTY OF																		ITEM NO.
FLEMING																		9-20009
760																		
750																		
740																		
730																		
-100	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	
760																		
750																		
740																		
730																		
-100	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	
760																		
750																		
740																		
730																		
-100	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	
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750																		
740																		
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750																		
740																		
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-100	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	
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750																		
740																		
730																		
-100	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	
760																		
750																		
740																		
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760																		
750																		
740																		
730																		
-100	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	
760																		
750																		
740																		
730																		
-100	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	
760																		
750																		
740																		
730																		
-100	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	
760																		
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730																		
-100	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	
760																		
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740																		
730																		
-100	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	
760																		
750																		
740																		
730																		
-100	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	
760																		
750																		
740																		
730																		
-100	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	
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730																		
-100	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	
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750																		
740																		
730																		
-100	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	
760																		
750																		
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730																		
-100	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	
760																		
750																		
740																		
730																		
-100	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	
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740																		
730																		
-100	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	
760																		
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730																		
-100	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	
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740																		
730																		
-100	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	
760																		
750																		
740																		
730																		
-100	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	
760																		
750																		
740																		
730																		
-100	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	
760																		
750																		
740																		
730																		
-100	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	
760																		
750																		
740																		
730																		
-100	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	
760																		
750																		
740																		

KY 32 PAVEMENT REHABILITATION FLEMING COUNTY MILEPOST 17.452 TO 28.29 ITEM NUMBER: 9-20009 GENERAL SUMMARY			
ITEM NUMBER	ITEM	QUANTITY	UNIT
1	DGA	206	TON
78	CRUSHED AGGREGATE SIZE NO 2 (1A)	34,117	TON
191	ASPHALT SCRATCH COURSE PG64-22 (2)	5,718	TON
212	CL2 ASPH BASE 1.00D PG64-22	11,519	TON
221	CL2 ASPH BASE 0.75D PG64-22	28,190	TON
301	CL2 ASPH SURF 0.38D PG64-22	5,176	TON
356	ASPHALT MATERIAL FOR TACK (8)	178	TON
387	CL3 ASPH SURF 0.38B PG76-22 KY 32	12,992	TON
387	CL3 ASPH SURF 0.38B PG76-22 Bridge (035B00012N)	49	TON
387	CL3 ASPH SURF 0.38B PG76-22 Bridge (035B00013N)	89	TON
387	CL3 ASPH SURF 0.38B PG76-22 Bridge (035B00014N)	31	TON
387	CL3 ASPH SURF 0.38B PG76-22 Bridge (035B00015N)	32	TON
440	ENTRANCE PIPE -15 IN	8	LIN FT
462	CULVERT PIPE - 18 INCH	119	LIN FT
464	CULVERT PIPE - 24 INCH	24	LIN FT
1000	PERFORATED PIPE - 4 IN (9)	300	LF
1010	NON-PERFORATED PIPE - 4 IN (9)	50	LF
1020	PERF PIPE HEADWALL TYPE 1 - 4 IN (9)	1	EACH
1204	PIPE CULVERT HEADWALL-18 IN	1	EACH
1310	REMOVE PIPE	52	LIN FT
1433	SLOPED BOX OUTLET TY. 1 - 18 IN	2	EACH
1450	S & F BOX INLET-OUTLET-18 IN	8	EACH
1451	S & F BOX INLET-OUTLET-24 IN	2	EACH
1691	FLUME INLET TYPE 2	8	EACH
1890	ISLAND HEADER CURB TYPE 1	200	LIN FT
1983	DELINEATOR FOR GUARDRAIL - M/Y	231	EACH
2091	REMOVE PAVEMENT	2,259	SQ YD
2200	ROADWAY EXCAVATION (4)	42,065	CU YD
2220	FLOWABLE FILL	21	CUYD
2237	DITCHING	57,618	LIN FT
2360	GUARDRAIL TERMINAL SECTION NO. 1	41	EACH
2363	GUARDRAIL CONNECTOR TO BRIDGE END TY A	16	EACH
2367	GUARDRAIL END TREATMENT TYPE 1	1	EACH
2369	GUARDRAIL END TREATMENT TYPE 2A	2	EACH
2373	GUARDRAIL END TREATMENT TYPE 3	6	EACH
2381	REMOVE GUARDRAIL	26,125	LIN FT
2391	GUARDRAIL END TREATMENT TYPE 4A	33	EACH
2403	REMOVE CONCRETE MASONRY	17	CU YD
2483	CHANNEL LINING CLASS II	175	TON
2562	TEMPORARY SIGNS (7)	1,500	SQ FT
2568	MOBILIZATION	1	LUMP SUM
2569	DEMOBILIZATION	1	LUMP SUM
2599	FABRIC-GEOTEXTILE TYPE IV (1B)	39,122	SQ YD
2650	MAINTAIN AND CONTROL TRAFFIC	1	LUMP SUM
2671	PORTABLE CHANGEABLE MESSAGE SIGN (7)	4	EACH
2676	MOBILIZATION FOR MILLING & TEXTURING	1	LUMP SUM
2677	ASPHALT PAVE MILLING & TEXTURING	29,085	TON
2696	SHOULDER RUMBLE STRIPS-SAWED	114,449	LIN FT
2704	SILT TRAP TYPE B	13	EACH
2707	CLEAN SILT TRAP TYPE B	13	EACH
2726	STAKING	1	LUMP SUM
2775	ARROW PANEL (7)	4	EACH
3000	PRECAST BOX SECT 3 X 3	9	LIN FT

KY 32 PAVEMENT REHABILITATION FLEMING COUNTY MILEPOST 17.452 TO 28.29 ITEM NUMBER: 9-20009 GENERAL SUMMARY			
ITEM NUMBER	ITEM	QUANTITY	UNIT
3000	PRECAST BOX SECT 3 X 2.5	9	LIN FT
3000	PRECAST BOX SECT 4 X 2	9	LIN FT
3000	PRECAST BOX SECT 5 X 3	9	LIN FT
3000	PRECAST BOX SECT 6 X 2	9	LIN FT
3000	PRECAST BOX SECT 10 X 4	9	LIN FT
3000	PRECAST BOX SECT 14 X 4	9	LIN FT
3171	CONCRETE BARRIER WALL TYPE 9T (7)	500	LIN FT
3250	WATERPROOFING MEMBRANE Bridge (035B00012N)	440	SQ YD
3250	WATERPROOFING MEMBRANE Bridge (035B00013N)	812	SQ YD
3250	WATERPROOFING MEMBRANE Bridge (035B00014N)	281	SQ YD
3250	WATERPROOFING MEMBRANE Bridge (035B00015N)	290	SQ YD
4934	TEMP SIGNAL - MULTI PHASE (7)	1	EACH
5950	EROSION CONTROL BLANKET	61,222	SQ YD
5963	INITIAL FERTILIZER	2	TON
5964	20-10-10 FERTILIZER	3	TON
5985	SEEDING AND PROTECTION	59,720	SQYD
6412	STEEL POST MILE MARKERS	22	EACH
6511	PAVE STRIPING-TEMP PAINT-6 IN	402,373	LIN FT
6549	PAVE STRIPING-TEMP REM TAPE-B	2,500	LIN FT
6550	PAVE STRIPING-TEMP REM TAPE-W	1,250	LIN FT
6551	PAVE STRIPING-TEMP REM TAPE-Y	1,250	LIN FT
8003	FOUNDATION PREPARATION (6)	1	LS
8100	CONCRETE - CLASS A	34	CU YD
8103	CONCRETE - CLASS D - MODIFIED	6	CU YD
8150	STEEL REINFORCEMENT	1,951	LB
8510	REM EPOXY BIT FOREIGN OVERLAY Bridge (035B00012N)	440	SQ YD
8510	REM EPOXY BIT FOREIGN OVERLAY Bridge (035B00013N)	812	SQ YD
8510	REM EPOXY BIT FOREIGN OVERLAY Bridge (035B00014N)	281	SQ YD
8510	REM EPOXY BIT FOREIGN OVERLAY Bridge (035B00015N)	290	SQ YD
8903	CRASH CUSHION TY VI CLASS BT TL3 (7)	2	EACH
10020NS	FUEL ADJUSTMENT	65,742	DOLLAR
10030NS	ASPHALT ADJUSTMENT	126,439	DOLLAR
20458ES403	CENTERLINE RUMBLE STRIPS	57,225	LIN FT
20366NN	REPLACE GRATE	20	EACH
20550ND	SAWCUT PAVEMENT	110,194	LIN FT
21533EN	EMBANKMENT (5)	9,520	CU YD
21802EN	GUARDRAIL - STEEL W BEAM S-FACE (7FT POST)	23,125	LIN FT
23010EN	PAVE MARK TEMP PAINT STOP BAR-24 IN	24	LF
24489EC	INLAID PAVEMENT MARKER	715	EACH
24544EC	REMOVE (3)	2,850	LF
24781EC	INTELLIGENT COMPACTION FOR ASPHALT	63,495	TON
24891EC	PAVE MOUNT INFRARED TEMP EQUIPMENT	1,373,645	SQ FT
24995EC	PAVE STRIPING-SPRAY THERMO-6 IN W	113,584	LIN FT
24995EC	PAVE STRIPING-SPRAY THERMO-6 IN W Bridge (035B00012N)	232	LIN FT
24995EC	PAVE STRIPING-SPRAY THERMO-6 IN W Bridge (035B00013N)	430	LIN FT
24995EC	PAVE STRIPING-SPRAY THERMO-6 IN W Bridge (035B00014N)	150	LIN FT
24995EC	PAVE STRIPING-SPRAY THERMO-6 IN W Bridge (035B00015N)	153	LIN FT
24996EC	PAVE STRIPING-SPRAY THERMO-6 IN Y	86,808	LIN FT
24996EC	PAVE STRIPING-SPRAY THERMO-6 IN Y Bridge (035B00012N)	145	LIN FT
24996EC	PAVE STRIPING-SPRAY THERMO-6 IN Y Bridge (035B00013N)	269	LIN FT
24996EC	PAVE STRIPING-SPRAY THERMO-6 IN Y Bridge (035B00014N)	19	LIN FT
24996EC	PAVE STRIPING-SPRAY THERMO-6 IN Y Bridge (035B00015N)	96	LIN FT
24986EC	HMA ELECTRONIC DELIVERY MANAGEMENT SYSTEM	1	LS

KY 32 PAVEMENT REHABILITATION FLEMING COUNTY MILEPOST 17.452 TO 28.29 ITEM NUMBER: 9-20009 GENERAL SUMMARY			
ITEM NUMBER	ITEM	QUANTITY	UNIT
25010EC	GEOCOMPOSITE REINFORCEMENT FOR ASPHALT	252,067	SQ YD
(1A)	Includes quantity 10,000 Tons for shoulder stabilization to be used as directed by the Engineer.		
(1B)	Includes quantity 36,000 SQ-YD for fabric geotextile type IV to be used as directed by the Engineer.		
(2)	Includes quantity 100 Tons to be used as directed by the Engineer for Level and Wedging.		
(3)	Remove rail at slide repair location, all removed rail becomes property of the contractor upon removal.		
(4)	Quantity includes the sum total excavation from pavement, slide repair, and drainage totals.		
(5)	Quantity includes 500 cuyd embankment for culvert extensions, guardrail entreatments, and other ares as directed by the engineer.		
(6)	Quantity included for box culvert section replacements at Mileposts 20.0, 21.52, 22.20, 22.60, 24.54, 25.14, 27.55. This lump sum quantity includes crushed limestone no. 57, excavation, geotextile fabric, and any other incidentals or expenses required for foundation preparation for culvert repair and extension at these locations.		
(7)	Includes initial placement, any relocation required will not be paid for directly, but will be considered incidental to the bid item "maintain and control traffic."		
(8)	To be used under asphalt scratch course and asphalt surface. Asphalt Material for Tack is estimated at 0.84 lbs per sq.yd.		
(9)	To be used at slope repair area as directed by the engineer.		
NOTE:	Quantities from all summaries have been carried over and included in this General Summary		

PAVING AREAS			
M.P. 17.45 TO M.P. 18.25			
M.P. 18.46 TO M.P. 19.12			
M.P. 19.18 TO M.P. 20.50			
M.P. 20.90 TO M.P. 26.27			
M.P. 26.42 TO M.P. 28.29			
MILLING AND OVERLAY		FULL DEPTH WIDENING & SLIDE REPAIR	
ITEM	TOTAL	ITEM	TOTAL
DRIVING LANES	S.Y.	SHOULDERS	S.Y.
1.50" CL3 ASPH SURF 0.38B PG76-22	140368	3.5" CL2 ASPH BASE 1.00D PG64-22	58784
2.5" CL2 ASPH BASE 0.75D PG64-22	141586		
0.5" ASPHALT SCRATCH COURSE PG64-22	141586		
ASPHALT PAVE MILLING & TEXTURING (3.5")	141586		
SHOULDERS	S.Y.		
1.50" CL2 ASPH SURF 0.38D PG64-22	58487		
2.5" CL2 ASPH BASE 0.75D PG64-22	58487		
0.5" ASPHALT SCRATCH COURSE PG64-22	58487		
DRIVING LANES & SHOULDERS	S.Y.		
GEOGRID REINFORCEMENT FOR ASPHALT	246893		
M.P. 18.25 TO M.P. 18.46			
DRIVING LANES	S.Y.		
1.50" CL3 ASPH SURF 0.38B PG76-22	4435		
ASPHALT PAVE MILLING & TEXTURING (1.5")	4474		
SHOULDERS	S.Y.		
1.50" CL2 ASPH SURF 0.38D PG64-22	1232		
	1232		
ASPHALT PAVE MILLING & TEXTURING (1.5")	1232		
M.P. 19.12 TO M.P. 19.18			
DRIVING LANES	S.Y.	WIDENING	
1.50" CL3 ASPH SURF 0.38B PG76-22	422	SHOULDERS	S.Y.
2.5" CL2 ASPH BASE 0.75D PG64-22	426	3.5" CL2 ASPH BASE 1.00D PG64-22	176
0.5" ASPHALT SCRATCH COURSE PG64-22	426		
ASPHALT PAVE MILLING & TEXTURING (3.5")	426		
SHOULDERS	S.Y.	SLIDE REPAIR	
1.50" CL2 ASPH SURF 0.38D PG64-22	176	DRIVING LANES	S.Y.
2.5" CL2 ASPH BASE 0.75D PG64-22	178	1.50" CL3 ASPH SURF 0.38B PG76-22	422
0.5" ASPHALT SCRATCH COURSE PG64-22	178	2.5" CL2 ASPH BASE 0.75D PG64-22	426
DRIVING LANES & SHOULDERS	S.Y.	3.0" CL2 ASPH BASE 0.75D PG64-22	430
GEOGRID REINFORCEMENT FOR ASPHALT	1478	SHOULDERS	S.Y.
		1.50" CL3 ASPH SURF 0.38D PG76-22	176
		2.5" CL2 ASPH BASE 0.75D PG64-22	178
		3.0" CL2 ASPH BASE 0.75D PG64-22	179
		DRIVING LANES & SHOULDERS	S.Y.
		6" DGA	598
M.P. 20.50 TO M.P. 20.54			
M.P. 20.54 TO M.P. 20.74			
M.P. 20.74 TO M.P. 20.90			
DRIVING LANES	S.Y.		
1.50" CL3 ASPH SURF 0.38B PG76-22	563		
1.50" CL3 ASPH SURF 0.38B PG76-22	4459		
1.50" CL3 ASPH SURF 0.38B PG76-22	4693		
ASPHALT PAVE MILLING & TEXTURING (1.5")	9715		
SHOULDERS	S.Y.		
1.50" CL2 ASPH SURF 0.38D PG64-22	235		
1.50" CL2 ASPH SURF 0.38D PG64-22	1173		
1.50" CL2 ASPH SURF 0.38D PG64-22	375		
	S.Y.		
ASPHALT PAVE MILLING & TEXTURING (1.5")	1783		
M.P. 26.27 TO M.P. 26.42			
DRIVING LANES	S.Y.	SHOULDERS	S.Y.
1.50" CL3 ASPH SURF 0.38B PG76-22	2112	3.5" CL2 ASPH BASE 1.00D PG64-22	880
2.5" CL2 ASPH BASE 0.75D PG64-22	2130		
0.5" ASPHALT SCRATCH COURSE PG64-22	2130		
ASPHALT PAVE MILLING & TEXTURING (3.5")	2130		
SHOULDERS	S.Y.		
1.50" CL2 ASPH SURF 0.38D PG64-22	880		
2.5" CL2 ASPH BASE 0.75D PG64-22	880		
0.5" ASPHALT SCRATCH COURSE PG64-22	880		

KY 32 FLEMING COUNTY PAVEMENT REHABIILITATION, MILE POST 17.452 TO 28.29 ITEM NO. 9-20009				
DRIVING LANES & SHOULDERS GEOGRID REINFORCEMENT FOR ASPHALT		S.Y. 3696		
M.P. 17.54 TO M.P. 28.29				
SHOULDER RUMBLE STRIPS SAWED (LF)		S.Y. 114449		
CENTERLINE RUMBLE STRIPS (LF)		57225		
SAWCUT PAVEMENT (LF)		110194		
ROADWAY EXCAVATION (CU YDS)		30936		
EMBANKMENT (CU YDS)		9020		
ASPHALT MATERIAL FOR TACK (TONS)		423896		
PAVING SUMMARY				
CODE		ITEM	UNITS	
1		DGA	206	TON
191		ASPHALT SCRATCH COURSE PG64-22	5618	TON
212		CL2 ASPH BASE 1.00D PG64-22	11519	TON
221		CL2 ASPH BASE 0.75D PG64-22	28190	TON
301		CL2 ASPH SURF 0.38D PG64-22	5176	TON
356		ASPHALT MATERIAL FOR TACK	178	TON
387		CL3 ASPH SURF 0.38B PG76-22	12992	TON
2200		ROADWAY EXCAVATION	30936	CU YD
2677		ASPHALT PAVE MILLING & TEXTURING	29085	TON
2696		SHOULDER RUMBLE STRIPS-SAWED	114449	LF
20458ES403		CENTERLINE RUMBLE STRIPS	57225	LF
20550ND		SAWCUT PAVEMENT	110194	LF
21533EN		EMBANKMENT	9020	CU YD
25010EC		GEOCOMPOSITE REINFORCEMENT FOR ASPHALT	252067	SQ YD
*QUANTITY TO BE USED AS DIRECTED BY THE ENGINEER				
QUANTITIES HAVE BEEN CARRIED OVER AND INCLUDED IN THE GENERAL SUMMARY				

FLEMING COUNTY
STP 0321 (027)

FLEMING COUNTY
STP 0321 (027)

KY 32 FLEMING COUNTY PAVEMENT REHABILITATION, MILE POST 17.452 TO 28.29 ITEM NO. 9-20009 DRAINAGE SUMMARY																																						
STATION	KY 32 ROADSIDE	MILE POST	MILE POST	TYPE	EXISTING PIPE SIZE	CLEAN INLET/OUTLET (1)	15" ENTRANCE PIPE	18" CULVERT PIPE	24" CULVERT PIPE	PIPE CULVERT HEADWALL-18 IN	REMOVE PIPE	18" SLOPED BOX OUTLET TY. 1	S & F BOX INLET- OUTLET-18 IN	S & F BOX INLET- OUTLET-24 IN	FLUME INLET TYPE 2	ISLAND HEADER CURB TYPE 1	EXCAVATION	REMOVE CONCRETE MASONRY (2)	FLOWABLE FILL	CHANNEL LINING CL II	3000 PRECAST BOX SECT 3 X 3	3000 PRECAST BOX SECT 3 X 2.5	3000 PRECAST BOX SECT 4 X 2	3000 PRECAST BOX SECT 5 X 3	3000 PRECAST BOX SECT 6 X 2	3000 PRECAST BOX SECT 10 X 4	3000 PRECAST BOX SECT 14 X 4	FOUNDATION PREPARATION	8100 CONCRETE - CLASS A	8103 CONCRETE - CLASS D - MODIFIED	STEEL REINFORCEMENT	REPLACE GRATE	EMBANKMENT	COMMENTS				
																																			UNIT	ITEM NUMBER		
649+69	LT	24.54	24.54	5' X 3'	-	--		EACH	1204	1310	1433	1450	1451	EACH				CU YD	2403	CULD	TON	3000	3000	3000	3000	3000	3000	3000	3000	8003	8100	8103	LB	EACH	CU YD	21533EN	REMOVE HEADWALL AND 3' OF CULVERT, CONSTRUCT CHANNEL LINING ON EACH SIDE OF INLET IN DITCH, BOX CULVERT HEADWALL, AND BOX CULVERT	
618+57	RT	25.14	25.14	6' X 2'	-												21	1		15						9			8	1	486			70	CONSTRUCT CHANNEL LINING ON EACH SIDE OF INLET IN DITCH, BOX CULVERT HEADWALL, AND BOX CULVERT			
490+99	RT	27.55	27.55	14' X 4'	-												50	3		35						9			8	2	486			70	CONSTRUCT CHANNEL LINING ON EACH SIDE OF INLET IN DITCH, BOX CULVERT HEADWALL, AND BOX CULVERT			
PROJECT TOTALS					3	8	119	24	1	52	2	8	2	8	2	8	200	161	17	21	175	9	9	9	9	9	9	1	34	6	1,951	20	500					
(1) - CLEAN INLET/OUTLET IS INCIDENTAL TO DITCHING																																						
(1) - INCLUDES HEADWALL AND CULVERT REMOVAL																																						

GUARDRAIL SUMMARY FLEMING COUNTY KY 32, M.P. 17.452 - M.P. 28.29 Item Number: 9-20009													
Location	SIDE	BEGIN MP	END MP	GUARDRAIL - STEEL W BEAM S-FACE (7FT POST)	REMOVE GUARDRAIL (*)	TERMINAL SECTION 1	BRIDGE END TY A	ENT. TY1	2A	TY3	4A	COMMENTS	
Units													
Item Number				LIN. FT.		Each							
				21802EN	2381	2360	2363	2367	2369	2373	2391		
KY 32	LT	17.45	17.48	162.5	162.5							1	
KY 32	LT	17.49	17.62	687.5	687.5							2	
KY 32	LT	17.87	18.05	950	950							2	
KY 32	LT	18.15	18.29	662.5	750	1						1	
KY 32	LT	18.30	18.36	225	325	2							
KY 32	LT	18.37	18.50	587.5	687.5	2							
KY 32	RT	18.49	18.50	-	50	2							
KY 32	RT	18.51	18.52	-	50	2							
KY 32	LT	18.52	18.61	450	487.5					1	1		
KY 32	LT	18.65	18.71	325	325				1	1			
KY 32	RT	18.67	18.72	225	275	1			1				
KY 32	RT	18.97	19.38	2087.5	2175	1					1		
KY 32	LT	19.46	19.67	1075	1112.5		1				1		
KY 32	RT	19.52	19.67	750	800	1	1						
KY 32	RT	19.69	19.83	712.5	750		1				1		
KY 32	LT	19.69	19.73	212.5	212.5		1			1			
KY 32	RT	20.06	20.24	900	950	1				1			
KY 32	RT	20.29	20.37	337.5	425	1					1		
KY 32	LT	20.29	20.34	162.5	262.5	2							
KY 32	RT	20.63	20.82	912.5	1000	1					1		
KY 32	RT	20.86	20.93	275	375	2							
KY 32	RT	21.09	21.14	212.5	262.5	1				1			
KY 32	LT	21.13	21.14	-	50	1				1			
KY 32	RT	21.27	21.48	1025	1112.5	1					1		
KY 32	RT	21.59	21.67	350	425						2		
KY 32	RT	23.20	23.25	225	262.5		1				1		
KY 32	LT	23.20	23.25	262.5	262.5		2						
KY 32	RT	23.29	23.33	175	212.5		1				1		
KY 32	LT	23.29	23.34	225	262.5		1				1		
KY 32	RT	23.54	23.70	775	850						2		
KY 32	LT	24.28	24.32	175	212.5		1				1		
KY 32	RT	24.29	24.33	175	212.5		1				1		
KY 32	LT	24.33	24.34	-	50	1	1						
KY 32	RT	24.34	24.38	175	212.5		1				1		

Note (*): Quantity includes removal of guardrail with entreatments

**FLEMING COUNTY
KY 32
MP 17.452 TO MP 28.29
FD52 035 0032 017-029
STP 3021(027)**

Item No. 9-20009

<p>THIS PROJECT IS AN ACCESS BY PERMIT HIGHWAY</p>

I. DESCRIPTION

Perform all work in accordance with the Department's 2019 Standard Specifications, 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) Constructing embankment, ditches and shoulders; (3) Remove and replace Guardrail and Guardrail End treatments at the locations listed and/or as directed by the Engineer; (4) Inlaid pavement markers; (5) Asphalt Pavement Milling and Texturing; (6) Asphalt Surface and Asphalt Base at locations listed and/or as directed by the Engineer; and (7) 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 - 6 inch Spray Thermoplastic.** Use 6-inch Thermoplastic markings for permanent striping.

- D. **Crushed Aggregate Size No. 2.** Crushed Aggregate Size No. 2 will be limestone
- E. **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.
- F. **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. **Embankment.** After the Engineer's approval of the layout, construct backfill. Construct embankments conforming to the attached sheets or as directed by the Engineer. Provide positive drainage of slopes and ditches at all times during and upon completion of construction.
- D. **Channel Lining.** Place channel lining as directed by the engineer.
- E. **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.
- F. **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. I. These items are incidental to other items in the contract.
- G. **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 shoulder 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 2019 Standard Specifications.

The Contractor shall deliver existing salvaged guardrail system materials to the Guardrail and Sign Center on Wilkinson Blvd in Frankfort, KY and shall be neatly stacked in accordance with section 719.03.07 of the Standard Specifications. Contact Section Supervisor at (502) 564-8187 to schedule the delivery of material. Deliver the material between the hours of 8:00AM and 3:00PM, Monday through Friday. 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.

H. Pavement Striping and Pavement Markers. Permanent striping will be in accordance with Section 112, except that:

- (1). Striping will be 6" in width;
- (2). Permanent striping will be in place before a lane is opened to traffic; and
- (3). Permanent striping will be 6" Spray Thermoplastic Markings.

Pavement markers will be in accordance with Section 712, except that:

- (1). Contrary to 712.03.04 the offset shall be 3 inches.

- I. 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.
- J. 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.
- K. 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.

- L. **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.

IV. METHOD OF MEASUREMENT

- A. **Maintain and Control Traffic.** See Traffic Control Plan.
- B. **Dense Graded Aggregate.** DGA will be used as embankment for guardrail end treatments.
- C. **Crushed Aggregate Size No. 2.** Payment will be based on the tons used.
- D. **Inlaid Pavement Markers and Permanent Striping.** 6" Spray Thermoplastic Striping 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. **Embankment.** Embankment is measured by cubic yard and is to be used for shoulder wedging, placed in pipe repair/extension locations, slope stabilization areas and as directed by the Engineer. Contrary to the Standard Specifications, payment will be based on measured quantity **NOT** plan quantity.

V. BASIS OF PAYMENT

No direct payment will be made other than for the bid items listed in the contract. 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 Graded Aggregate.** See Section 302 of the Standard Specifications.
- D. **Inlaid Pavement Markers and Permanent Striping.** See Traffic Control Plan.

NOTES APPLICABLE TO PROJECT
PAVEMENT REHABILITATION
FLEMING COUNTY
KY 32
Item No. 9-20009

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 except where specified in the Proposal.

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

M.P. 17.43	M.P. 20.35	M.P. 24.04
M.P. 17.51	M.P. 20.43	M.P. 24.45
M.P. 17.63	M.P. 20.49	M.P. 24.60
M.P. 17.73	M.P. 20.54	M.P. 24.71
M.P. 17.90	M.P. 20.57	M.P. 24.90
M.P. 17.99	M.P. 20.85	M.P. 25.16
M.P. 18.11	M.P. 20.94	M.P. 25.28
M.P. 18.12	M.P. 20.99	M.P. 25.31
M.P. 18.14	M.P. 21.08	M.P. 25.40
M.P. 18.19	M.P. 21.28	M.P. 25.42
M.P. 18.26	M.P. 21.24	M.P. 25.58
M.P. 18.34	M.P. 21.63	M.P. 25.62
M.P. 18.44	M.P. 21.69	M.P. 25.72
M.P. 18.50	M.P. 21.72	M.P. 25.73
M.P. 18.52	M.P. 21.91	M.P. 25.94
M.P. 18.63	M.P. 21.14	M.P. 25.97
M.P. 18.67	M.P. 21.18	M.P. 26.26
M.P. 18.80	M.P. 22.15	M.P. 26.32
M.P. 18.86	M.P. 22.54	M.P. 26.35
M.P. 18.96	M.P. 22.55	M.P. 26.40
M.P. 19.00	M.P. 22.67	M.P. 26.46
M.P. 19.12	M.P. 22.69	M.P. 26.47
M.P. 19.14	M.P. 22.78	M.P. 26.48
M.P. 19.15	M.P. 22.82	M.P. 26.56
M.P. 19.17	M.P. 22.84	M.P. 26.59
M.P. 19.31	M.P. 22.93	M.P. 26.76
M.P. 19.39	M.P. 22.98	M.P. 27.50
M.P. 19.40	M.P. 23.38	M.P. 27.54
M.P. 19.47	M.P. 23.46	M.P. 27.59
M.P. 19.66	M.P. 23.85	M.P. 27.65
M.P. 19.70	M.P. 23.86	M.P. 27.69
M.P. 19.81	M.P. 23.91	M.P. 27.73
M.P. 19.87	M.P. 23.93	M.P. 28.34
M.P. 20.11	M.P. 23.95	
M.P. 20.35	M.P. 23.98	

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 shoulder 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 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. 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. The cleaning of existing pipe culvert inlets and outlets 36 inches or less in diameter are incidental to the bid item for "Ditching" in accordance with Section 209.03.01 of the 2019 Edition of the Standard Specifications for Road and Bridge Construction.
8. Overlay pavement shall be tapered to create a smooth transition to the existing pavement at the tie in and approaches/entrances.
9. A quantity of DGA has been included for new wedging associated with pavement overlay. Washout areas may exist and should be repaired under the direction of the engineer. All asphalt seal coat applications shall be completed following construction of proposed earth embankment wedge.
10. All "green" milepost signs shall be replaced with this project. Payment for these signs will be made by "each" for the bid item "Steel Post Mile Marker." The existing milepost signs are not in the correct locations in the field. The mileposts are to be replaced in accordance with the official milepost locations shown at the intersections on the stationing information sheets.
11. Remove pavement and install erosion control blanket as directed by the engineer between right side mileposts 1.49 and 1.51. Pavement is to be removed within these limits and not beyond the right-of-way. The contractor shall locate and verify existing right-of-way location and this shall be approved by the engineer.
12. Option A compaction and Category A ride-ability shall be utilized with this project.

13. **CAUTION:** Underground utilities are present in areas where reconstruction will occur with this project. The contractor must call BUD (1-800-752-6007 to reach KY 811) before any construction activity begins. See Special note for BUD for more details.
14. A Material Transfer Vehicle shall be required for this project.

**TRAFFIC CONTROL PLAN
FLEMING COUNTY
KY 32
FD52 103 0035 0032 017-029
STP 3021 (027)
Item No. 9-20009**

THE CONTROL OF ACCESS ON THIS PROJECT SHALL BE BY PERMIT

TRAFFIC CONTROL GENERAL

Except as provided herein, maintain and control traffic in accordance with the 2019 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. Do NOT use cones for lane closures or shoulder closures.

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 the current MUTCD.

Reduce the posted 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. All signs shall be placed as directed and/or approved by the Engineer.

Traffic Control Plan
Fleming County
KY 32
Page 2 of 9

PROJECT PHASING & CONSTRUCTION PROCEDURES

No lane closures will be allowed during the following days and hours unless otherwise directed and/or approved by the Engineer:

July 4-7, 2019	Independence Day Weekend
August 30- September 2, 2019	Labor Day Weekend
October 5-6, 2019	Fleming County Court Days
November 28- December 1, 2019	Thanksgiving Weekend
December 20-January 1, 2019	Christmas/ New Years
April 10-12, 2020	Easter Weekend
May 22-25, 2020	Memorial Day Weekend

NOTE: Other projects may be occurring in the area at the same time. Coordination with area projects shall be maintained to minimize disruption to the travelling public.

Place Type III Barricades immediately in front of pavement removal areas. Type III Barricades will not be measured for payment and will be considered incidental to “Maintain and Control Traffic.”

Access to all approaches and entrances on the project shall be maintained at all times unless otherwise directed by the Engineer.

There are no designated detours for this project. Provisions shall be made for wide loads by the contractor as needed.

All removal of existing striping shall be by waterblasting, unless otherwise directed by the Engineer, and this work shall be considered incidental to “Maintain and Control Traffic.”

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

During the days and hours when a lane closure is allowed, implement the following procedures: Maintain traffic as specified in the phasing notes and typical sections. Any other work not requiring traffic lane widths to be restricted due to barrels or equipment encroaching into the driving lanes can be done during the remaining hours when lane closures are not permitted. 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. 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 a lane closure is in place beyond the specified time allowed.

During the days and hours when the slide repair is being constructed, implement the following

Traffic Control Plan
Fleming County
KY 32
Page 3 of 9

procedures: Maintain traffic as specified in the phasing notes and typical sections. Construction of the slide repair is limited to 30 calendar days. Once work on the slide repair has begun, the Contractor is to work continuously to complete the repair within the allotted time. 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. 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 a lane closure is in place beyond the specified time allowed.

The contractor must notify District Office Traffic 48 hours prior to any traffic pattern changes at the intersections to prepare for any signal modifications required.

The contractor must notify the Engineer at least fourteen (14) days prior to the beginning of each construction phase.

Lane closures and construction shall be limited to a single 2 mile section at any given time, unless otherwise directed/approved by the Engineer. The cross section of pavement shall be flush at the end of every work day no pavement edge drop-offs will be permitted during non-working hours. Traffic will not be permitted to drive on milled pavement for more than 48 hours unless otherwise approved by the engineer. During winter break, no asphalt base shall be exposed for any section of the project. Failure to comply with these restrictions will result in liquidated damages at the same hourly rate as lane closures as described in the "Special Note for Fixed Completion Date and Liquidated Damages."

The clear lane width will be 10 feet; however, make provisions for the passage of wide loads up to 16'. Use a lane closure all times when work is performed in the lane or adjacent shoulder, unless specified by these plans or as directed by the Engineer. Perform any maintenance of the shoulder as deemed necessary by the Engineer in order to maintain traffic. Remove failed materials and perform additional patching as directed by the Engineer during the time the shoulder is used as a travel lane. Patch and remove any foreign debris on the shoulders as directed by the Engineer. Remove existing striping by water blasting. Paint temporary edge lines through the lane closure as directed and/or approved by the Engineer.

The shoulders are to be inspected and low spots refilled to the satisfaction of the Engineer prior to placing traffic on the shoulders. Daytime shoulder closures will be permitted to repair the stabilized shoulders. Install delineators for the existing guardrail and bridges before shifting traffic onto the shoulders. All work required for shoulder preparation and restoration is incidental to Maintenance of Traffic.

Traffic Control Plan
Fleming County
KY 32
Page 4 of 9

PHASE IA

Shift traffic as directed by the Engineer. Close the eastbound driving lane and shoulder. Traffic shall be shifted to westbound lane in “one lane - two direction” pattern with use of temporary traffic signal and alternating traffic flow. Length of “one lane – two direction” lane configurations shall be limited to 500 feet or less segments and one closure at a time or as directed by the engineer. Unless otherwise directed by the engineer, the contractor shall conduct the construction in one direction and in continuous sections. Temporary signal timing and signal placement shall be directed by the engineer. Maintain traffic in existing driving lanes except where shifted and reduced to “one lane – two direction” traffic signal-controlled configuration. Reduce lane width with barrels as needed for milling and paving operations as directed by the engineer. Mill the eastbound driving lane and shoulder 3.5 inches.

PHASE IB

Shift traffic as directed by the Engineer. Close the westbound driving lane and shoulder. Traffic shall be shifted to eastbound lane in “one lane - two direction” pattern with use of temporary traffic signal and alternating traffic flow. Length of “one lane – two direction” lane configurations shall be limited to 500 feet or less segments and one closure at a time or as directed by the engineer. Unless otherwise directed by the engineer, the contractor shall conduct the construction in one direction and in continuous sections. Temporary signal timing and signal placement shall be directed by the engineer. Maintain traffic in existing driving lanes except where shifted and reduced to “one lane – two direction” traffic signal-controlled configuration. Reduce lane width with barrels as needed for milling and paving operations as directed by the engineer. Mill the westbound driving lane and shoulder 3.5 inches.

PHASE II

Shift traffic as directed by the Engineer. Close the westbound driving lane and shoulder. Traffic shall be shifted to eastbound lane in “one lane - two direction” pattern with use of temporary traffic signal and alternating traffic flow. Length of “one lane – two direction” lane configurations shall be limited to 500 feet or less segments and one closure at a time or as directed by the engineer. Unless otherwise directed by the engineer, the contractor shall conduct the construction in one direction and in continuous sections. Temporary signal timing and signal placement shall be directed by the engineer. Maintain traffic in existing driving lanes except where shifted and reduced to “one lane – two direction” traffic signal-controlled configuration. Reduce lane width with barrels as needed for milling and paving operations as directed by the engineer. Construct 3.5 inch milling and paving of westbound shoulder and complete all box culvert replacement and/or extensions and other drainage repairs.

Traffic Control Plan
Fleming County
KY 32
Page 5 of 9

NOTE on pavement construction operations on shoulders: Once the pavement has been removed, the contractor must work continuously until the pavement has been replaced. Unless otherwise directed by the engineer, the contractor shall conduct the construction in one direction and in continuous sections and brought back up to existing grade by the end of the workday. The Engineer may restrict the length of shoulder being constructed at any one time.

PHASE III

Shift traffic as directed by the Engineer. Close the eastbound driving lane and shoulder. Traffic shall be shifted to westbound lane in “one lane - two direction” pattern with use of temporary traffic signal and alternating traffic flow. Length of “one lane – two direction” lane configurations shall be limited to 500 feet or less segments and one closure at a time or as directed by the engineer. Unless otherwise directed by the engineer, the contractor shall conduct the construction in one direction and in continuous sections. Temporary signal timing and signal placement shall be directed by the engineer. Maintain traffic in existing driving lanes except where shifted and reduced to “one lane – two direction” traffic signal-controlled configuration. Reduce lane width with barrels as needed for milling and paving operations as directed by the engineer. Construct 3.5 inch milling and paving of eastbound shoulder and complete all box culvert replacement and/or extensions and other drainage repairs.

NOTE on pavement construction operations on shoulders: Once the pavement has been removed, the contractor must work continuously until the pavement has been replaced. Unless otherwise directed by the engineer, the contractor shall conduct the construction in one direction and in continuous sections and brought back up to existing grade by the end of the workday. The Engineer may restrict the length of shoulder being constructed at any one time.

PHASE IV

Shift traffic as directed by the engineer to complete all paving through the top lift of base on the westbound lane and shoulder. Traffic shall be shifted to eastbound lane in “one lane - two direction” pattern with use of temporary traffic signal and alternating traffic flow. Length of “one lane – two direction” lane configurations shall be limited to 500 feet or less segments and one closure at a time or as directed by the engineer. Unless otherwise directed by the engineer, the contractor shall conduct the construction in one direction and in continuous sections. Temporary signal timing and signal placement shall be directed by the engineer. Maintain traffic in existing driving lanes except where shifted and reduced to “one lane – two direction” traffic signal-controlled configuration. Reduce lane width with barrels as needed for paving operations as directed by the engineer.

Traffic Control Plan
Fleming County
KY 32
Page 6 of 9

PHASE V

Shift traffic as directed by the engineer to complete all paving through the top lift of base on the eastbound lane and shoulder. Traffic shall be shifted to westbound lane in “one lane - two direction” pattern with use of temporary traffic signal and alternating traffic flow. Length of “one lane – two direction” lane configurations shall be limited to 500 feet or less segments and one closure at a time or as directed by the engineer. Unless otherwise directed by the engineer, the contractor shall conduct the construction in one direction and in continuous sections. Temporary signal timing and signal placement shall be directed by the engineer. Maintain traffic in existing driving lanes except where shifted and reduced to “one lane – two direction” traffic signal-controlled configuration. Reduce lane width with barrels as needed for paving operations as directed by the engineer.

PHASE VI

Mill 1.5 inches in the areas to be surfaced only. Construct the final surface course, construct all guardrail, and install permanent pavement markings for the project. After all other work is completed, place permanent striping. Mobile paving and marking operations with rolling lane closures and flaggers may be utilized with appropriate traffic control, as approved and directed by the engineer.

LANE/SHOULDER CLOSURES

Limit the lengths of lane and shoulder closures to only that needed for actual operations in accordance with the phasing specified herein, or as directed by the Engineer. Any deviation from this scheme shall be approved by the Engineer. Contrary to section 112, lane and shoulder closures will **NOT** be measured for payment, but are considered incidental to “Maintain and Control Traffic,” lump sum.

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 LEFT/RIGHT LANE CLOSED 1 MILE, LEFT/RIGHT LANE CLOSED 2 MILES, 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.

Traffic Control Plan
Fleming County
KY 32
Page 7 of 9

FLASHING ARROWS

Provide flashing arrow panels in advance of or on the project at locations to be determined by the Engineer. The arrow panels shall be in operation at all times. In the event of damage or mechanical failure, immediately repair or replace the arrow panels. The Department will measure for payment the maximum number of arrow panels in concurrent use at the same time on a single day on all sections of the contract. Individual arrow panels will be measured only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. Replacements for damaged arrow panels directed by the Engineer to be replaced due to poor condition will not be measured for payment. Arrow panels will become the property of the Contractor after construction is complete.

PORTABLE CHANGEABLE MESSAGE SIGNS

Provide portable changeable message signs (PCMS) in advance of or on the project at locations to be determined by the Engineer. The Engineer will designate the locations and messages to be provided. Unless directed otherwise by the Engineer, use messages and abbreviations according to the Policy for the Use and Placement of Changeable Message Signs. The PCMS shall be in operation at all times. In the event of damage or mechanical failure, immediately repair or replace the PCMS. The Department will measure for payment the maximum number of signs in concurrent use at the same time on a single day on all sections of the contract. Individual signs will be measured only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. Replacements for damaged signs directed by the Engineer to be replaced due to poor condition or readability will not be measured for payment. PCMS will become the property of the Contractor after construction is complete.

TRUCK MOUNTED ATTENUATORS

Furnish and install MUTCD approved truck mounted attenuators (TMA) in advance of work areas when workers are present less than 12 feet from traffic. If there is less than 500 feet between work sites, only a single TMA will be required at a location directed by the Engineer. Locate the TMAs at the individual work sites and move them as the work zone moves within the project limits. All details of the TMA installations shall be approved by the Engineer. TMA will not be measured for payment, but are incidental to "Maintain and Control Traffic," lump sum. The Department **WILL NOT** take possession of the TMAs upon completion of the work.

PAVEMENT MARKINGS

If lane closures are in place during nighttime hours, remove or cover the lenses of inlaid 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," lump sum.

Traffic Control Plan
Fleming County
KY 32
Page 8 of 9

Place temporary and permanent striping in accordance with Sections 112, 714 and the Special Note for Spray Applied Thermo, except that:

1. Temporary and permanent striping will be 6" in width
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.
3. Edge lines will be required for temporary striping
4. Existing, temporary, or permanent striping will be in place before a lane is opened to traffic
5. Place permanent striping on bridge decks and pavement within the project limits.
6. Permanent striping will be Spray Applied Thermo

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 plastic drums, vertical panels, or barricades as shown on the Standard Drawings.

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

Less than 2" – No protection required. Warning signs should be placed in advance and throughout the drop-off area.

2" to 4" – Protect with a lane closure. Place plastic drums, vertical panels, or barricades every 50 feet. Cones may not be used in place of plastic drums, 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 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" – Full Depth Pavement Repair and Widening 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. Barrel spacing should be 20 feet and appropriate lighting should be utilized to illuminate the area during nighttime operations.

Guardrail Installation – Guardrail installation is to take place one week after the general milling & filling paving operations are completed. 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. A maximum of seven calendar days will be allowed between the removal of a guardrail section and the installation of new guardrail at that same location.

Traffic Control Plan
Fleming County
KY 32
Page 9 of 9

Pavement edges that traffic is expected to cross, either in a lane or in a lane change, shall not have an elevation difference greater than 1.5 inches. Drops greater than 1.5 inches shall have a temporary 1:25 asphalt taper constructed at the drop. A warning sign shall be placed in advance of the work area when pavement drops are greater than 0.5 inches.

TRAFFIC COORDINATOR

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

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

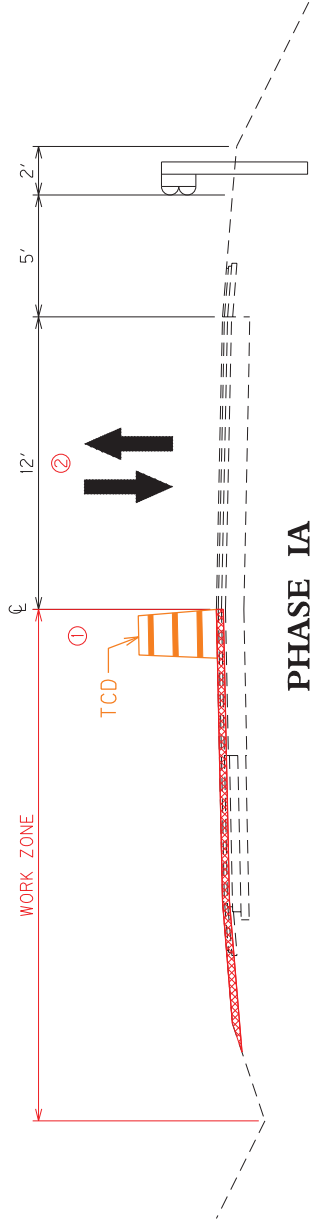
The Contractor is advised that other projects may be in progress within or in the near vicinity of this project. The traffic control of those projects may affect this project and the traffic control of this project may affect those projects. The Contractor will coordinate the work on this project with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

KY 32

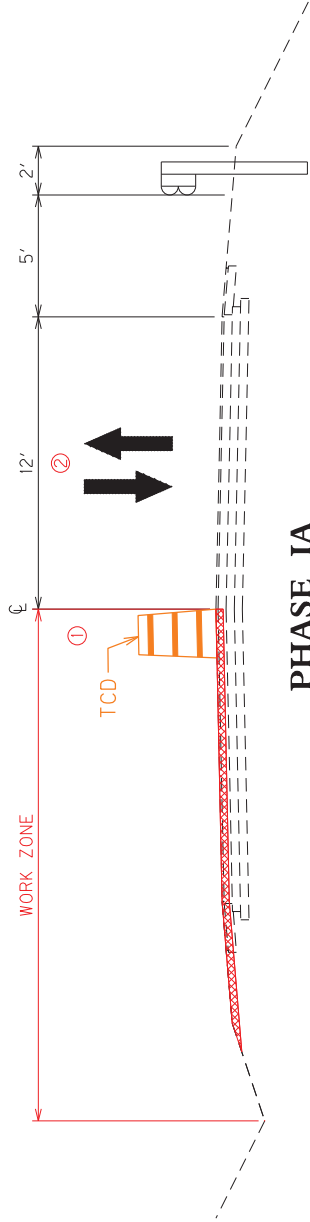
MAINTENANCE OF TRAFFIC

TYPICAL SECTIONS

COUNTY OF	ITEM NO.
FLEMING	9-20009



PHASE IA
M.P. 17.45 TO M.P. 18.25
M.P. 18.46 TO M.P. 19.12
M.P. 19.18 TO M.P. 20.50
M.P. 20.90 TO M.P. 26.27
M.P. 26.42 TO M.P. 28.29

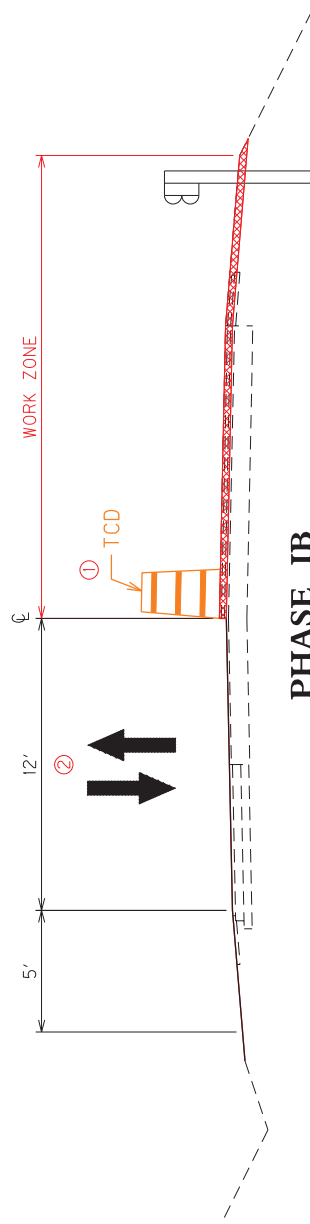


PHASE IA
M.P. 26.27 TO M.P. 26.42

① BARRELS WILL NEED TO BE CONTINUOUSLY SHIFTED INTO THE ADJACENT LANE FOR SHORT PERIODS TO ALLOW PASSAGE OF THE MILLING AND PAVING EQUIPMENT AND THEN RESET.

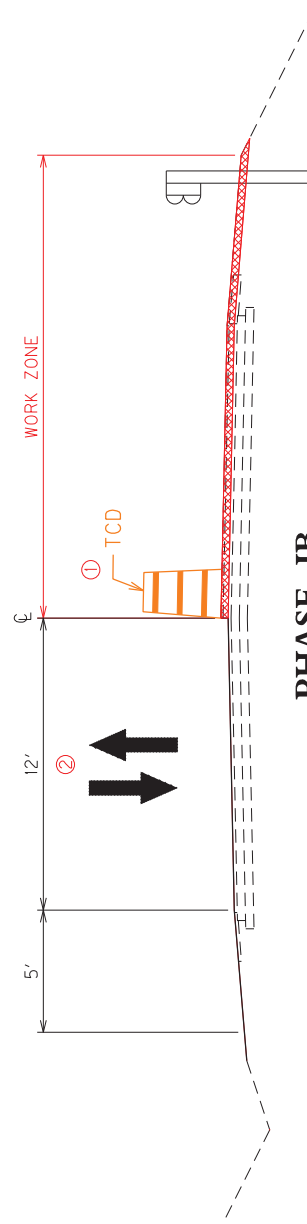
② "ONE LANE - TWO DIRECTION" TRAFFIC CONFIGURATION USING TEMPORARY SIGNAL. LIMIT ONE LANE TRAFFIC CONFIGURATION TO 500 FEET OR LESS AND ONE CLOSURE AT A TIME OR AS DIRECTED BY THE ENGINEER.

KY 32
MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS



PHASE IB

M.P. 17.45 TO M.P. 18.25
M.P. 18.46 TO M.P. 19.12
M.P. 19.18 TO M.P. 20.50
M.P. 20.90 TO M.P. 26.27
M.P. 26.42 TO M.P. 28.29



PHASE IB

M.P. 26.27 TO M.P. 26.42

- ① BARRELS WILL NEED TO BE CONTINUOUSLY SHIFTED INTO THE ADJACENT LANE FOR SHORT PERIODS TO ALLOW PASSAGE OF THE MILLING AND PAVING EQUIPMENT AND THEN RESET.
- ② *ONE LANE - TWO DIRECTION* TRAFFIC CONFIGURATION USING TEMPORARY SIGNAL. LIMIT ONE LANE TRAFFIC CONFIGURATION TO 500 FEET OR LESS AND ONE CLOSURE AT A TIME OR AS DIRECTED BY THE ENGINEER.

NOT TO SCALE

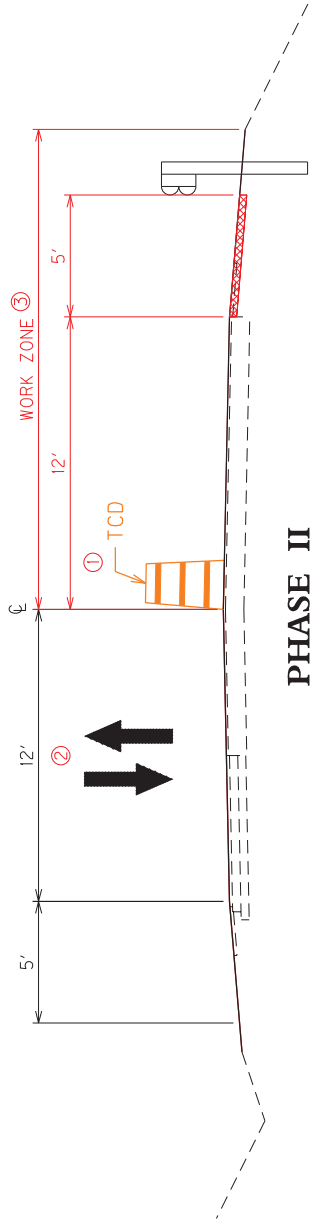
KY 32
 MAINTENANCE OF TRAFFIC
 TYPICAL SECTIONS

KY 32

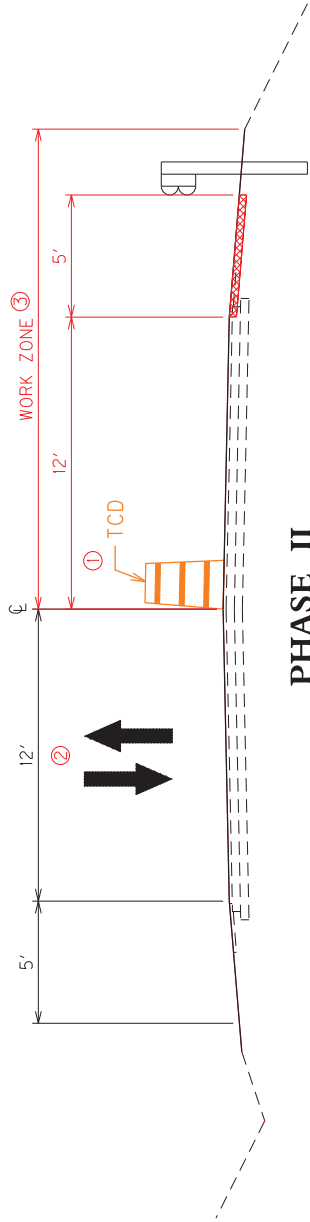
MAINTENANCE OF TRAFFIC

TYPICAL SECTIONS

COUNTY OF	ITEM NO.
FLEMING	9-20009



PHASE II
M.P. 17.45 TO M.P. 18.25
M.P. 18.46 TO M.P. 19.12
M.P. 19.18 TO M.P. 20.50
M.P. 20.90 TO M.P. 26.27
M.P. 26.42 TO M.P. 28.29



PHASE II
M.P. 26.27 TO M.P. 26.42

- ① BARRELS WILL NEED TO BE CONTINUOUSLY SHIFTED INTO THE ADJACENT LANE FOR SHORT PERIODS TO ALLOW PASSAGE OF THE MILLING AND PAVING EQUIPMENT AND THEN RESET.
- ② *ONE LANE - TWO DIRECTION* TRAFFIC CONFIGURATION USING TEMPORARY SIGNAL. LIMIT ONE LANE TRAFFIC CONFIGURATION TO 500 FEET OR LESS AND ONE CLOSURE AT A TIME OR AS DIRECTED BY THE ENGINEER.
- ③ PERFORM ROADSIDE DRAINAGE AND BOX CULVERT EXTENSION

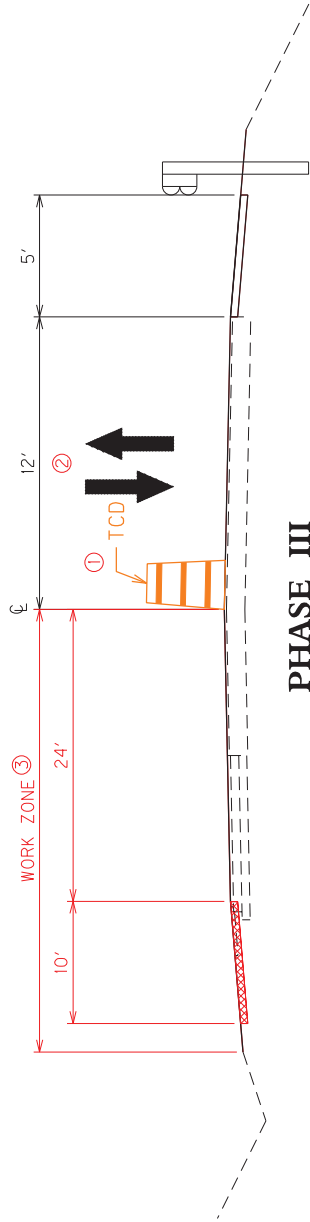
NOT TO SCALE

KY 32

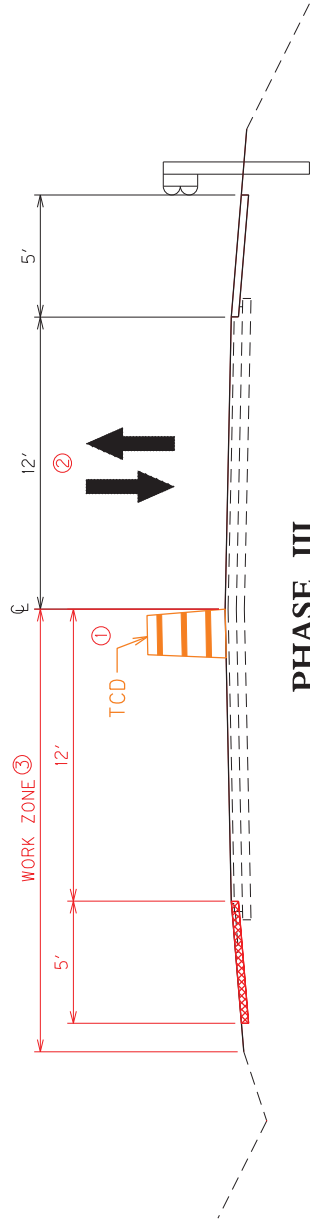
MAINTENANCE OF TRAFFIC

TYPICAL SECTIONS

COUNTY OF	ITEM NO.
FLEMING	9-20009



PHASE III
M.P. 17.45 TO M.P. 18.25
M.P. 18.46 TO M.P. 19.12
M.P. 19.18 TO M.P. 20.50
M.P. 20.90 TO M.P. 26.27
M.P. 26.42 TO M.P. 28.29



PHASE III
M.P. 26.27 TO M.P. 26.42

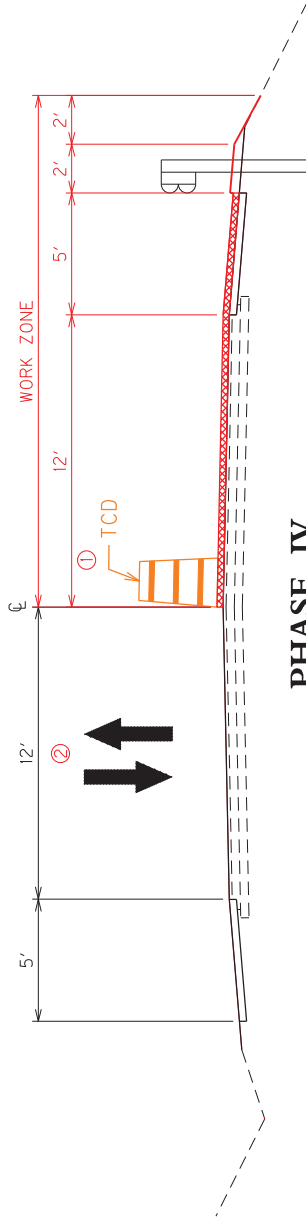
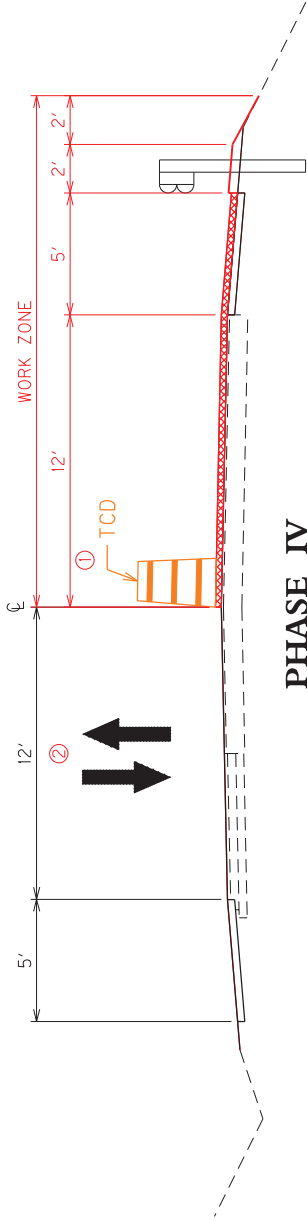
- ① BARRELS WILL NEED TO BE CONTINUOUSLY SHIFTED INTO THE ADJACENT LANE FOR SHORT PERIODS TO ALLOW PASSAGE OF THE MILLING AND PAVING EQUIPMENT AND THEN RESET.
- ② *ONE LANE - TWO DIRECTION* TRAFFIC CONFIGURATION USING TEMPORARY SIGNAL. LIMIT ONE LANE TRAFFIC CONFIGURATION TO 500 FEET OR LESS AND ONE CLOSURE AT A TIME OR AS DIRECTED BY THE ENGINEER.
- ③ PERFORM ROADSIDE DRAINAGE AND BOX CULVERT EXTENSION

NOT TO SCALE

KY 32

MAINTENANCE OF TRAFFIC

TYPICAL SECTIONS



① BARRELS WILL NEED TO BE CONTINUOUSLY SHIFTED INTO THE ADJACENT LANE FOR SHORT PERIODS TO ALLOW PASSAGE OF THE MILLING AND PAVING EQUIPMENT AND THEN RESET.

② "ONE LANE - TWO DIRECTION" TRAFFIC CONFIGURATION USING TEMPORARY SIGNAL. LIMIT ONE LANE TRAFFIC CONFIGURATION TO 500 FEET OR LESS AND ONE CLOSURE AT A TIME OR AS DIRECTED BY THE ENGINEER.

COUNTY OF FLEMING	ITEM NO. 9-20009
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NOT TO SCALE

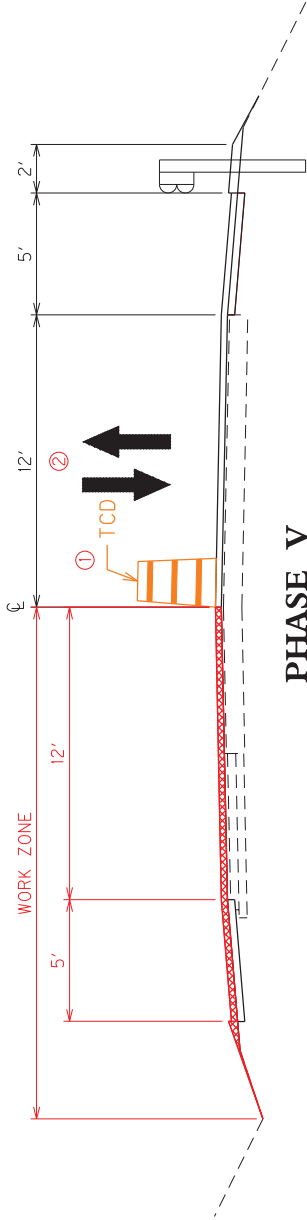
KY 32
MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS

KY 32

MAINTENANCE OF TRAFFIC

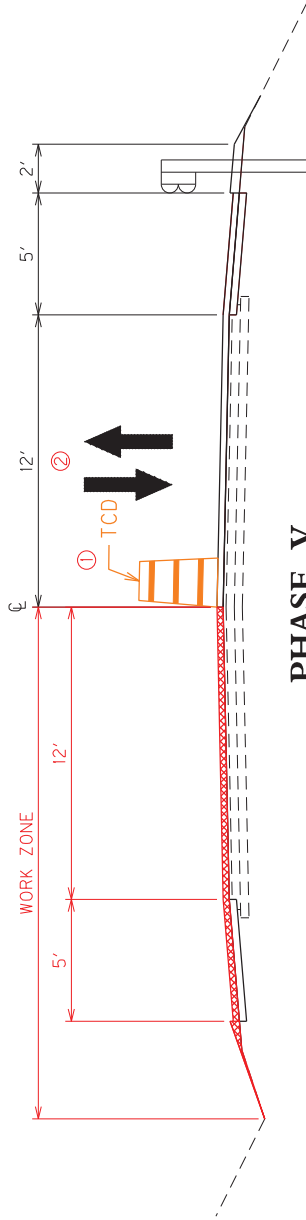
TYPICAL SECTIONS

COUNTY OF	ITEM NO.
FLEMING	9-20009



PHASE V

M.P. 17.45 TO M.P. 18.25
M.P. 18.46 TO M.P. 19.12
M.P. 19.18 TO M.P. 20.50
M.P. 20.90 TO M.P. 26.27
M.P. 26.42 TO M.P. 28.29



M.P. 26.27 TO M.P. 26.42

- ① BARRELS WILL NEED TO BE CONTINUOUSLY SHIFTED INTO THE ADJACENT LANE FOR SHORT PERIODS TO ALLOW PASSAGE OF THE MILLING AND PAVING EQUIPMENT AND THEN RESET.
- ② "ONE LANE - TWO DIRECTION" TRAFFIC CONFIGURATION USING TEMPORARY SIGNAL. LIMIT ONE LANE TRAFFIC CONFIGURATION TO 500 FEET OR LESS AND ONE CLOSURE AT A TIME OR AS DIRECTED BY THE ENGINEER.

REFERENCES

- 1. Kentucky Transportation Cabinet, Department of Highways, Standard Specifications for Road and Bridge Construction, Edition of 2019.
- 2. FHWA Manual on Uniform Traffic Control Devices (MUTCD), latest edition.
- 3. Active Sepia List

<u>Drawing No.</u>	<u>Drawing Name</u>
002	Centerline Rumble Strips
003	Centerline Rumble Strips 4-inch Striping
005	Shoulder and Edge Line Rumble Strip Details
007	Shoulder Rumble Strip Details Two Lane Roadway
013	Guardrail Connector to Bridge End Type A and A-1 Components
015	Guardrail Connector to Bridge End Type A
024	Typical Guardrail Installations
025	Installation of Guardrail End Treatment Type 1
027	Steel beam Guardrail “W” Beam
028	Steel Guardrail Posts
029	Guardrail End Treatment Type 1
030	Guardrail End Treatment type 4A
032	Delineators for Guardrail
037	Guardrail and Bridge End Drainage for Single Structures
038	Guardrail End Treatment Type 2A
042	Typical Markings for Turn Lanes
043	Typical Markings for Turn Lanes
060	Curb and Gutter, Curbs and Valley Gutter

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

RBI-002	Typical Guardrail Installations
RBI-003	Installation of Guardrail End Treatment Type 2A
RBR-005	Guardrail Components
RBR-010	Guardrail Terminal Sections
RBR-016	Guardrail Posts
RDB-001	Drop Box Inlet Type 1
RDB-007	Drop Box Inlet Type 7 (Layout & Steel Pattern)
RDB-008	Drop Box Inlet Type 7 (Dimension & Steel Charts)
RDB-110	Sloped Box Inlet or Outlet Type 1
RDD-040	Channel Lining Class II and III
RDH-020	Sloped and Flared Headwalls for 12” to 27” Pipe
RDH-110	Pipe Culvert Headwalls 0° Skew
RDH-210	Dimensions and Quantities 30”-108” Headwalls Circular Pipe 0° Skew
RDH-310	Bill of Reinforcement 30” to 90” Diameter Circular Pipe Headwalls 0° Skew

RDH-1000	Precast Box Culvert Headwalls - 0° Skew
RDH-1100	Dimensions 3'x 2' - 6'x 6' Headwalls Precast Box Culvert 0° Skew
RDH-1200	Quantities 3'x 2' – 12'x 12' Headwalls Precast Box Culverts 0° Skew
RDH-1300	Bill of Reinforcement 3'x 2' – 7'x4' Headwalls Precast Box Culverts 0° Skew
RDI-001	Culvert, Entrance, and Storm Sewer Pipe Types and Cover Heights
RDI-002	Culvert, Entrance, and Storm Sewer Pipe Types and Cover Heights
RDI-003	Culvert and Storm Sewer Pipe Types and Cover Heights
RDI-020	Pipe Bedding for Culverts, Entrance and Storm Sewer Pipe
RDI-021	Pipe Bedding for Culverts, Entrance and Storm Sewer Reinforced Concrete Pipe
RDI-025	Pipe Bedding Trench Condition
RDI-026	Pipe Bedding Trench Condition Reinforced Conc. Pipe
RDI-120	Bedding for Precast Box Culverts, Sewers, Storm Drains, and Their Combinations
RDX-001	Junction Box
RDX-002	Junction Box (Dimensions & Quantities)
RDX-160	Security Devices for Frames, Grates and Lids
RDX-210	Temporary Silt Fence
RDX-220	Silt Trap Type A
RDX-225	Silt Trap Type B
RDX-230	Silt Trap Type C
RDX-300	Precast Box Culvert Extension
RGS-001	Curve Widening and Superelevation Transitions
RGS-002	Superelevation for Multilane Pavement
RGX-001	Miscellaneous Standards Part I
RGX-050	Gabion Retaining Walls
RGX-200	One Point Proctor Family of Curves
RDX-300	Precast Box Culvert Extension
RPM-110	Approaches, Entrances, and Mail Box Turnout
RPM-140	Rumble Strips
TPM-115	Pavement Marker Arrangements Two-Lane, Two Way Roadways
TTC-100	Lane Closure Two-Lane Highway
TTC-110	Lane Closure Using Traffic Signals
TTC-135	Shoulder Closure
TTD-110	Post Splicing Detail
TTD-120	Work Zone Speed Limit and Double Fine Signs
TTD-125	Pavement Condition Warning Signs
TTS-105	Mobile Operation for Paint Striping Case II

5. Kentucky Transportation Cabinet, Department of Highways, Standard Specifications for Road and Bridge Construction, Edition of 2019 - Supplemental Specifications, as applicable:

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	Asphalt Milling and Texturing <i>attached</i>

Special Note	Geocomposite Reinforcement for Asphalt <i>attached</i>
Special Note	Spray Applied Thermoplastic Pavement Marking Materials <i>attached</i>
Special Note	Experimental KYTC and Hamburg Testing <i>attached</i>
Special Note	Culvert Extension <i>attached</i>
Special Note	Intelligent Compaction of Asphalt Mixtures <i>attached</i>
Special Note	Bridge Deck Waterproofing Membrane <i>attached</i>
Special Note	Paver Mounted Temperature Profiles <i>attached</i>
Special Note	Bridge Demolition, Renovation and Abatement <i>attached</i>
Special Note	Material Transfer Vehicle <i>attached</i>
Special Note	Paver Mounted Temperature Profiles <i>attached</i>

**SPECIAL NOTE FOR TYPICAL SECTION DIMENSIONS
KY 32**

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.

**Special Note for Fixed Completion Date and
Liquidated Damages
Fleming County
Item No. 9-20009**

Contrary to Section 108.09, Liquidated Damages of \$5,000 per calendar day will be assessed for each day or fraction thereof of work remains uncompleted beyond the Specified Completion Date. The completion date is June 30, 2020.

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

Mainline: \$5,000 for the first hour or fraction thereof
 \$10,000 for any additional hour or fraction thereof

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 mainline lane closure within the 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:
Asphalt Milling and Texturing
Fleming Co. Item No. 9-20009**

The contractor will take possession of the millings on this project. If contractor chooses to dispose of the millings, he must do so off Right-of-Way limits at sites obtained by the Contractor at no additional cost to the Department.

Removal of the existing pavement markers prior to the milling operation is considered incidental to the bid item "Asphalt Pavement Milling and Texturing".

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

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

1.0 DESCRIPTION. Incorporate a GPS Fleet Management System for all HMA delivered to the project in order to monitor, track, and report loads of HMA during the construction processes from the point of measurement and loading to the point of incorporation to the project.

2.0 MATERIALS AND EQUIPMENT. Submit to the Engineer for approval, no fewer than 30 days prior to HMA placement activities, a GPS fleet management system supplier that can provide a qualified representative for on-site technical assistance during the initial setup, pre-construction verifications, and data management and processing as needed during the Project to maintain equipment.

Provide operator settings, user manuals, training videos, and required viewing/export software for review. Provide equipment that will meet the following:

1. A wireless fleet management or GPS device that is capable of tracking all delivery trucks (both company-owned and third-party) must be installed on all trucks and equipment (dump trucks, belly dumps, side-load dumps, transfer vehicles, pavers, or any other trucks/vehicles) used to transfer and incorporate HMA into the project. KYTC personnel shall have the ability to access Real Time monitoring through the use of a mobile device such as an iPad, smartphone, etc.
2. The fleet management system shall be fully integrated with the Contractor's Load Read-Out scale system at the HMA plant site.
3. The fleet management system shall have the ability to measure and track vehicles and their contents (weights and material types) continuously from the plant site to the project site. The system shall have internal battery backup capabilities due to loss of power, and have the ability to store data if GPS connectivity is lost and transmit that same data when unit re-establishes connectivity. To be considered continuous, no two data points shall be more than 60 seconds apart unless the vehicle is stopped. Duration of stop time for any reason shall be recorded.

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

A. Construction Requirements

1. Install and operate equipment in accordance with the manufacturer's specifications.
2. Verify the GPS is working within the requirements of this Special Note.

B. Data Deliverables

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

1. Real-time Continuous Data Items

Provide the Engineer access to a GIS map-based data viewer which displays the following information in real-time with a web-based system compatible with iOS and Windows environments.

- Each Truck

- UniqueTruck ID
 - Truck status
 - Time At Source
 - Time At Destination
 - Time At Paver
 - Time At Scale
 - Time to and from plant/job
 - Time Stopped with Engine Running
 - Time of last transmission
 - Location (Latitude and Longitude in decimal degrees to nearest 0.0000001) every 60 seconds
 - Description of Material being transported (i.e. asphalt base, asphalt surface)
 - Mix Design Number
 - Net Weight of material being transported to the nearest 0.01 ton
 - Running Daily Total of Net Weight of material being transported to nearest 0.01 ton.
 - Project Number
- Scale Location
 - Project Location
 - Point of Delivery (i.e. paver)

2. Daily Summary

The following summary information shall be provided to the Engineer electronically within 4 hours of beginning operations on the next working day

- For each Material
 - List of Individual Loads
 - Contractor Name
 - Project Number
 - Unique Truck ID
 - Net Weight For Payment (nearest 0.01 tons)
 - Date
 - Mix Temperature at Time of Loading, Fahrenheit (to be key entered by plant)
 - Time Loaded
 - Time Unloaded
 - Delivery Location (Latitude/Longitude in decimal degrees to nearest 0.0000001)
- For each Bid Item
 - Total Quantity for Payment (nearest 0.01 tons)

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

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

1. Payment is full compensation for all work associated with providing all required equipment, training, and documentation.
2. Delays due to GPS satellite reception of signals or equipment breakdowns will not be considered justification for contract modifications or contract extensions.
3. Payment will be full compensation for costs related to providing the GPS system, including all equipped pavers and transfer vehicles, integration with plant load-out systems, and any software required for the construction and reporting process. All quality control procedures including the GPS systems representative's technical support and on-site training shall be included in the Contract lump sum price.

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
24986EC	HMA ELECTRONIC DELIVERY MANAGEMENT SYSTEM	LS

July 19, 2019

SPECIAL NOTE FOR GEOCOMPOSITE REINFORCEMENT FOR ASPHALT

This Special Note will apply where indicated on the plans or in the proposal. Section references herein are to the Department’s 2019 Standard Specifications for Road and Bridge Construction.

1.0 DESCRIPTION. This specification covers geocomposites used as an interlayer in asphalt pavements.

2.0 MATERIALS AND EQUIPMENT.

2.1 Geocomposite. The geocomposite shall consist of a geogrid component with a non-woven geotextile (paving fabric) backing. Furnish fiberglass-reinforced or polyester geogrid coated with an elastomeric polymer. Ensure the geogrid forms a stable network such that the ribs, filaments, or yarns retain their dimensional stability, including selvages. Furnish geogrid with a non-woven paving fabric backing composed of long chain synthetic polymers that are 95 percent by weight polyolefins or polyesters.

A) Physical Requirements. Furnish the specified geogrid type conforming to the Physical Requirements Table and ASTM D 4759. Ensure that each geogrid shipment is accompanied by a manufacturer’s certification listing minimum average roll specification values (MARV) of each lot number for those properties listed in the table below. Furnish geogrid with a non-woven geotextile backing that conforms to AASHTO M288 Type II paving fabric with the exception of mass per unit area. Products that meet all Type II requirements except mass per unit area will be acceptable.

PROPERTY	TEST METHOD	SPECIFICATION
Geogrid Tensile Strength, lb/in (min.)	ASTM D6637 Test Method A	560
Geogrid Elongation, % (max.)	ASTM D6637	< 3
Melting Point of Paving Fabric Component, °F (min.)	ASTM D 276	320
Grid Size, inch (min/max)	Calipered	0.5/1.25

B) Packaging, Shipment, and Storage. Ensure that each roll is labeled with the manufacturer’s name, product type, style number, lot number, roll number, manufactured date, roll dimensions, chemical composition, and applicable physical properties. Protect the geocomposite from direct sunlight, ultraviolet rays, flames, aggressive chemicals, mud, dirt, dust, and debris during all periods of shipment and storage. Keep geocomposite dry until installation, and do not store directly on the ground.

July 19, 2019

2.2 Asphalt Distributor. Conform to 406.02.05.

2.3 Rolling Equipment. Use pneumatic-tired rollers that weigh at least 12 tons and have 7 to 9 tires capable of inflation pressures up to 125 psi. Maintain an inflation pressure in all tires within ± 5 psi of the manufacturer's recommended pressure. Arrange the tires so that the gap between the tires of the front axle is covered by the tires of the rear axle. Mount wheels to provide equal contact pressure under each wheel. Use a tire tread that is satisfactory to the Engineer. Maintain tire size and inflation pressure such that the contact pressure is at least 80 psi.

3.0 CONSTRUCTION.

3.1 Geocomposite Representative. Ensure that a representative of the geocomposite manufacturer is on the project when work begins, and remains on call as the project progresses, to advise the Engineer.

3.2 Weather Restrictions. Do not place the geocomposite when weather conditions, in the opinion of the Engineer, are not suitable. Ensure the air and pavement temperatures are sufficient to allow the tack coat to hold the geocomposite in place. Specifically, ensure the temperature is at least 50 °F and rising.

3.3 Surface Preparation. Perform any needed base repairs and repair all potholes, cracks greater than 1/4 inch, and any badly damaged or rough pavement, which may require milling or placement of leveling, course. Ensure the surface is dry, clean, dust-free, and between 40 and 140 °F. Unless the geocomposite is precoated with an adhesive, apply tack according to the manufacturer's recommendations. This tack coat will not be measured for payment and will be considered incidental to the geocomposite. Distributor truck must be calibrated to supply the tack at the manufacturer's recommended rate before the job begins and this calibration is to be witnessed by the representative of the geocomposite manufacturer on the project. No work to install the geocomposite shall take place unless a representative from the geocomposite manufacture is on site.

3.4 Geocomposite Placement. Place the geocomposite while the tack coat is still tacky/broken. Keep the material flat and wrinkle free throughout the installation. Roll the geocomposite until the adhesive is activated or the geocomposite is seated in the tack coat. Clean the roller with an asphalt release agent. Brooming may be required. On sharp curves, cut the edges and fold the geocomposite over in the direction of the placement of the asphalt overlay. Overlap side joints by one to 2 inches. Overlap all end-of-roll joints by 3 to 6 inches. Ensure that the overlaps are shingled in the direction of paving.

3.5 Asphalt Placement. Place the asphalt overlay at a minimum 2-inch compacted thickness. Pave over the geocomposite on the same day of its placement. Except for paving equipment and vehicles, allow no traffic on the grid. Do not place tack coat on top of the interlayer grid.

3.6 Geocomposite Repair. Repair any visible distress that occurs due to movement of the geocomposite immediately after rolling. For small areas, remove the asphalt

July 19, 2019

mixture from the affected area; replace the geocomposite in its original position, and replace, level, and compact the asphalt mixture. Cut the geocomposite if necessary for it to lie flat.

3.7 Sampling and Testing. The Department will sample the geocomposite at the project site according to ASTM D 4354 and KM 64-113 at a frequency the Engineer determines. The Department will test the geocomposite for all properties possible given the testing equipment availability. When the Department determines that an individual sample fails to meet any specification requirement, the Department will reject that roll and sample two additional rolls from the same lot. When the Department determines that either of these two additional samples fails to comply with any part of the specification, the Department will reject the entire quantity of rolls represented by that sample.

4.0 MEASUREMENT. The Department will measure the quantity of geocomposite in square yards. The Department will not measure geocomposite when the contract indicates that the geocomposite are incidental to the work being performed or when no separate bid item for geocomposite is listed in the proposal. The Department will not measure providing the geocomposite manufacturer’s representative for payment and will consider it incidental to the geocomposite. Tack coat, applied per the geocomposite manufacturer’s recommendations, will not be paid and will be considered incidental to the geocomposite.

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

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
25010EC	Geocomposite Reinforcement for Asphalt	Square Yard

SPECIAL NOTE FOR SPRAY APPLIED THERMOPLASTIC
PAVEMENT MARKING MATERIALS

I. DESCRIPTION

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

- (1) Spray applied thermoplastic pavement marking materials with reflectorized glass beads for permanent applications

II. MATERIALS

- A. **DROP ON BEADS.** Use beads that will ensure the pavement marking material will meet retroreflectivity requirements. The Department will evaluate the beads as part of the marking system through retroreflectivity readings.
- B. **APPROVAL.** Select materials that conform to the composition and physical characteristic requirements below when evaluated in accordance with AASHTO T-250 or other test methods as cited. The Department will sample and evaluate for approval each lot of thermoplastic material delivered for use per contract prior to installation of the thermoplastic material. Do not allow the installation of thermoplastic material until it has been approved by the Division of Materials. Allow the Department a minimum of 10 working days to evaluate and approve thermoplastic material from the date sampled.
- C. **Composition.** Use a maleic-modified glycerol ester resin (alkyd binder) to formulate the thermoplastic material. Ensure the pigment, pre-mix beads, and filler are uniformly dispersed in the resin. Use material that is free from all dirt and foreign material. Provide independent analysis data and certification for each formulation stating the total concentration of each heavy metal present, the test method used for each determination, and compliance to 40 CFR 261 for leachable heavy metals content.

COMPOSITION (Percentage by Weight)		
Component	White	Yellow
Binder, ⁽¹⁾	26.0 min.	26.0 min.
Glass Beads (Premixed)	30 - 40	30 - 40
Titanium Dioxide (Rutile, Type II)	10.0 min.	—
Calcium Carbonate & Inert Fillers ⁽²⁾	42.0 max.	50.0 max.
Heavy Metals Content	Comply with 40 CFR 261	Comply with 40 CFR 261

⁽¹⁾Use a binder that consists of a mixture of synthetic resins, at least one being solid at room temperature, and high boiling point plasticizers. Ensure that at least one-third of the binder composition is solid maleic-modified glycerol ester resin and is not less than 8 percent by weight of the entire material formulation. Do not use alkyd binder that contains petroleum based hydrocarbon resins.

⁽²⁾The manufacturer may choose the amount of calcium carbonate and inert fillers, providing all other requirements of this section are met.

Spray Applied Thermoplastic
Page 2 of 3

D. Physical Characteristics. For thermoplastic material heated for 4 hours at 425°F under agitation, conform to the following requirements.

a) **Color.** As determined with a spectrophotometer using D65 illuminant with a 45 degree entrance angle and 0 degree observation angle geometry.

CIELAB Color Coordinates		
	Yellow	White
Daytime Color (CIELAB) Spectrophotometer using illuminant D65 at 45° illumination and 0° viewing with a 2° observer	L* 81.76 a* 19.79 b* 89.89 Maximum allowable variation 6.0ΔE*	L* 93.51 a* -1.01 b* 0.70 Maximum allowable variation 6.0ΔE*
Nighttime Color (CIELAB) Spectrophotometer using illuminant A at 45° illumination and 0° viewing with a 2° observer	L* 86.90 a* 24.80 b* 95.45 Maximum allowable variation 6.0ΔE*	L* 93.45 a* -0.79 b* 0.43 Maximum allowable variation 6.0ΔE*

b) **Set Time.** Use material that, when applied at a temperature range of 375 ± 25 °F and thickness of 60 ± 10 mils, sets to bear traffic in not more than 2 minutes when the air and road surface temperature is approximately ≥ 50 ± 3 °F, and not more than 10 minutes when the air and road surface temperature is approximately < 50 ± 3 °F.

c) **Softening Point.** Ensure that the thermoplastic material has a softening point of 180 ± 15 °F.

d) **Bond Strength.** Ensure that the bond strength of the thermoplastic material to concrete exceeds 180 psi.

e) **Cracking Resistance at Low Temperature.** Ensure that the thermoplastic material shows no cracks when observed from a distance exceeding one foot.

f) **Impact Resistance.** Ensure the impact resistance of the thermoplastic material is a minimum of 50 inch-pounds.

g) **Flash Point.** Use thermoplastic material that has a flash point not less than 475 °F.

E. PACKAGING. Package thermoplastic material in suitable 50 pound containers to which the material shall not adhere during shipment or storage. Include a label stating that the thermoplastic material is to be maintained with a temperature range of 350 – 400°F during application. Provide the thermoplastic material in granular form.

F. SHELF LIFE. Ensure that the thermoplastic material conforms to this section for a period of one year. Replace any thermoplastic material not conforming to the above requirements.

G. MANUFACTURER’S TESTING. Perform testing in accordance with AASHTO T-250 on a minimum of one composite sample per 10,000 pounds, or portion thereof, per lot of thermoplastic produced.

H. CERTIFICATION. Submit manufacturer’s certification stating conformance to the requirements of this section for each lot of extruded thermoplastic delivered for use on projects. Clearly state the manufacture, formulation identification, product name, color, date of manufacturer, total quantity of lot produced, actual quantity of thermoplastic material represented, sampling method utilized to obtain the samples, and required manufacturer’s testing data for each composite sample tested to represent each lot produced.

III. CONSTRUCTION METHODS

- A. **SURFACE PREPARATION.** Contrary to Section 714.03.02 the removal of existing pavement markings will not be required for installation of thermoplastic markings. The contractor will be required to sweep all pavement surfaces prior to striping and maintain the cleaning operation far enough in advance of the striping operation to prevent any dust from the cleaning operation from mixing with the paint. The sweeper must maintain contact with the roadway. When the Engineer determines abnormal amounts of debris or other material have accumulated beyond the capability of the required sweeping unit which will require shoveling or other means to remove, the Engineer will make arrangements, prior to painting, to have the material removed by the Department.
- B. **INSTALLATION.** Install thermoplastic materials in accordance with Section 714, Durable Pavement Striping, and the following exceptions:
- Install the thermoplastic materials at a minimum thickness of 60 mils.
 - Ensure the material temperature is maintained between 350 and 400°F.
 - Do not allow the material temperature to exceed 400°F.
- C. **RETROREFLECTIVITY.** The Department will evaluate installed markings in accordance with Section 714.03.06, Proving Period for Durable Markings.

IV. METHOD OF MEASUREMENT

- A. **ACCEPTANCE AND PAYMENT.** The Department will accept spray applied thermoplastic materials based on compliance of the manufacturer’s certification and conformance of test results obtained by the Department to the requirements of this special note.

Contrary to Section 714.03.08, Acceptance of Non-Specification Thermoplastic Markings, the Department will not accept non-specification compliant markings. Remove non-specification compliant markings by water blasting. The Department will perform random thickness tests on applied markings to determine compliance to thickness requirements

IV. BASIS OF PAYMENT

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

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
24995EC	PAVE STRIPING-SPRAY THERMO-6 IN W	LF
24996EC	PAVE STRIPING-SPRAY THERMO-6 IN Y	LF

The Department will consider payment as full compensation for furnishing all labor, materials, equipment, and incidentals required to construct spray applied thermoplastic pavement markings.

SPECIAL NOTE FOR EXPERIMENTAL KYCT AND HAMBURG TESTING

1.0 General

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

2.0 Equipment

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

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

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

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

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

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

3.0 Testing Requirements

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

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

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

3.2.2 Number of Specimens and Conditioning. Fabricate specimens in accordance with the Kentucky Method for KYCT Index Testing. Contrary to the method, fabricate a minimum of 3 and up to 6 test specimens. The specimens shall be compacted at the temperature in accordance to KM 64-411. KYCT mix design specimens shall be short-term aged conditioned for four hours at compaction temperature in accordance to KM 64-411. Plant produced bituminous material will not be required for age conditioning and shall be fabricated immediately after the gyratory acceptance specimens have been fabricated. An acceptable transport container will be required to prevent the asphalt mixture from losing heat and to maintain the compaction temperature of the asphalt mixture until the KYCT gyratory samples can be fabricated. This will eliminate reheating of the asphalt mixture. To insure confidence and reliability of the test results provided by KYCT testing and Hamburg testing, reheating of the asphalt mixture is strongly discouraged. If reheating does occur, provide documentation on the Asphalt Mixtures Acceptance Workbook (AMAW).

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

3.2.4 File Name. As according to section 7.12 of The Kentucky Method for KYCT Index Testing, save the filename with the following format; "CID_Aproved Mix Number_Lot Number_Sublot Number_Date"

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

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

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

3.3.3 File Name. Save the Excel spreadsheet with the following file name; “Hamburg_CID_Approved Mix Number_Lot Number_Sublot Number_Date” and upload the file into the AMAW.

4.0 Data

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

5.0 KYCT Video Demonstration

<https://youtu.be/84j0bM45-hg>

6.0 Payment

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

June 3, 2019

SPECIAL NOTES FOR CULVERT EXTENSION

I. DESCRIPTION

Except as specified herein, perform all work in accordance with the Department's 2019 Standard Specifications and current Supplemental Specifications, Special Provisions and Special Notes, and Standard and Sepia Drawings. Section references are to the Standard Specifications. This work shall consist of:

(1) Site preparation and erosion control; (2) Removal of existing headwalls/wing walls; (3) Drilling and blasting, if required, and common and solid rock excavation; (4) Constructing Precast Concrete Box Sections; (5) Constructing embankment, ditches and shoulders; (6) Install guardrail system; (7) Restoration, final dressing, cleanup, and seeding; (8) Maintaining and controlling traffic; and (9) Any other work as specified by this contract.

I. MATERIALS AND DESIGN

All materials shall be sampled and tested 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. Precast Concrete Box Sections. Provide Precast Concrete Box Sections conforming to the Standard Drawings Headwall Supplement.

B. Foundation Preparation. Contrary to Section 701.02.04, furnish Crushed Limestone Size No. 57 wrapped in Geotextile Fabric Type III to stabilize the foundation.

C. Channel Lining. Use Channel Lining Class II.

D. Guardrail See Special Notes for Guardrail.

E. Erosion Control. Use appropriate erosion control items as directed by the engineer.

F. Maintain and Control Traffic. See Traffic Control Plan.

III. CONSTRUCTION METHODS

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

B. Erosion Control. Use appropriate erosion control items as directed by the engineer.

C. Site Preparation. Be responsible for all site preparation, including, but not limited to: clearing and grubbing; tree removal; removal of obstructions, or any other items; disposal of materials, waste, and debris; cleaning inlet and outlet ditches. Perform all site preparation only as approved or directed by the Engineer.

D. Excavation. Be responsible for all excavation (structure, common, rock, and unclassified) required for foundation preparation, wing walls, and all other excavation required by the work. Be responsible for all common and solid rock excavation, and removal of the existing wing walls. Excavate rock in channel as required to allow for installation of bedding and pipe. Provide positive drainage of slopes and ditches at all times during and upon completion of construction. Waste all removed materials 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). Perform all excavation and removal of existing structure only as approved or directed by the Engineer.

E. Foundation Preparation. Contrary to Section 701.02.04, construct foundation of Crushed Limestone Size No. 57 wrapped in Geotextile Fabric Type III as directed by the Engineer. Construct minimum 2-foot thickness.

F. Precast Concrete Box Sections. Except as specified in these notes, construct the precast concrete box sections according to the Standard Drawings Headwall Supplement. Be responsible for field layout and survey of the proposed concrete box section. See the attached sheets for extension locations and approximate skew angles. The actual skew angle will be determined by the Engineer at the time of Construction. Obtain the Engineer's approval of the final centerline, flow line and skew prior to backfilling. Provide positive drainage upon completion of the project.

G. Embankment After Engineer's approval of the layout, construct backfill. Construct embankments conforming to the attached sheets or as directed by the Engineer. Warp finished slopes to match adjacent undisturbed slopes as directed by the Engineer. Provide positive drainage of slopes and ditches at all times during and upon completion of construction.

I. Channel Lining. Place channel lining to as directed by the Engineer. In addition to the requirements of section 703, additional hand placement may be required.

J. Clean and Re-establish the Existing Shoulders and Ditches. Grade and restore the shoulders and ditches in the project limits to match the existing adjacent features to be left in place or as directed by the Engineer. Provide positive drainage of slopes and ditches at all times during and upon completion of construction.

K. Guardrail See Special notes for Guardrail.

L. Final Dressing, Clean Up, and Seeding and Protection. After all work is completed, completely remove debris from the construction site. Perform Class A Final Dressing on all

disturbed areas, both on and off the Right-of-Way. Sow all disturbed earthen areas according to the Erosion Control Plan.

M. Disposal of Waste. Dispose of all excess materials, waste, and debris off the right-of-way at approved sites obtained by the Contractor at no additional cost to the Department. See Special Note for waste and borrow.

N. 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.

O. 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 resulting from site conditions.

P. Caution. Do not take information shown on the plans 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. Without regard to the materials encountered, all excavation shall be unclassified. It shall be distinctly understood that any reference to rock, earth, or any other material on the plans or cross sections, whether in numbers or words, letters, or lines, is solely for the Department's information and is not to be taken as an indication of classified excavation or the quantity of either rock, earth, or any other material involved. 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 if the conditions encountered are not in accordance with the information shown.

Q. Right-of-Way Limits. The Department has not determined exact limits of Right-of-Way. Limit work activities to obvious Right-of-Way, permanent or temporary Easements, and work areas secured by the Department through consent and release of the adjacent property owners. Be responsible for all encroachments onto private lands.

R. Utility Clearance. Work around and do not disturb existing utilities. It is not anticipated that any utility facilities will require relocation and/or adjustment; however, in the event utilities are discovered that require relocation, the utility companies will work concurrently with the Contractor while relocating their facilities. Working days will not be charged for those days on which work on the controlling item is delayed due to the utility company's phase of the work, as provided in the Specifications. If the total delay exceeds ten working days, an extension of the specified completion date will be negotiated with the Contractor for delay to the Contractor's work.

IV. METHOD OF MEASUREMENT

Only the bid items listed will be measured for payment. All other items required to complete the work shall be incidental to the listed items.

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

B. Site Preparation. Other than the bid items listed, the Department will not measure Site Preparation for payment.

C. Foundation Preparation. The Department will measure Foundation Preparation as one lump sum. The Department will not measure Crushed Limestone and Geotextile Fabric used in foundation preparation, but shall be incidental to Foundation Preparation.

D. Erosion Control. The department will measure each erosion control item per the unit specific.

E. Restoration, Final Dressing, Clean Up, and Seeding and Protection. The Department will not measure Restoration, Final Dressing, clean up, and Seeding and Protection for separate payment, but shall be incidental to Site Preparation and Erosion Control as applicable.

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 shall be incidental to the bid items listed.

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

B. Foundation Preparation. Accept payment at the contract lump sum unit price as full compensation for all materials, equipment, labor, and incidentals for structure excavation, geotextile fabric wrapped crushed limestone foundation, bedding, and all other expenses and all incidentals to prepare foundation and bedding for the pipe.

C. Erosion Control. Items will be paid at the contract unit bid price for each item approved and used on the project.

SPECIAL NOTE FOR INTELLIGENT COMPACTION OF ASPHALT MIXTURES

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

1.0 DESCRIPTION. Provide and use Intelligent Compaction (IC) Rollers for compaction of all asphalt mixtures.

2.0 MATERIALS AND EQUIPMENT. In addition to the equipment specified in Subsection 403.02, a minimum of one (1) IC roller is to be used on the project at all times, two (2) IC rollers will be required when the paving train consists of three (3) or more rollers. The Contractor is to only use the IC roller(s) for compaction as the breakdown and/or intermediate roller(s). All IC rollers will meet the following minimum characteristics:

1. Are self propelled double-drum vibratory rollers equipped with accelerometers mounted in or about the drum to measure the interactions between the rollers and compacted materials in order to evaluate the applied compactive effort. The IC rollers must have the approval of the Engineer prior to use. Examples of rollers equipped with IC technology can be found at www.IntelligentCompaction.com.
2. Are equipped with non-contact temperature sensors for measuring pavement surface temperatures.
3. The output from the roller is designated as the IC-MV which represents the stiffness of the materials based on the vibration of the roller drums and the resulting response from the underlying materials.
4. Are equipped with integrated on-board documentation systems that are capable of displaying real-time color-coded maps of IC measurement values including the stiffness response values, location of the roller, number of roller passes, machine settings, together with the material temperature, speed and the frequency and amplitude of roller drums. Ensure the display unit is capable of transferring the data by means of a cloud based system.
5. Are equipped with a mounted Global Positioning System GPS radio and receiver either a Real Time Kinematic (RTK-GPS) or Global Navigational Satellite System (GNSS) units that monitor the location and track the number of passes of the rollers. Accuracy of the positioning system is to be a minimum of 12 inches. Data is to be transferred to the Cabinet via a cloud based system within 30 minutes of collection.

3.0 WORK PLAN. Submit to the Engineer an IC Work Plan at the Preconstruction Conference and at least 2 weeks prior to beginning construction. Describe in the work plan the following:

1. Compaction equipment to be used including:
 - Vendor(s)
 - Roller model(s),
 - Roller dimensions and weights,
 - Description of IC measurement system,
 - GPS capabilities,
 - Documentation system,
 - Temperature measurement system, and
 - Software.
2. Roller data collection methods including sampling rates and intervals and data file types.
3. Transfer of data to the Engineer including method, timing, and personnel responsible. At the preconstruction meeting, provide the Cabinet with rights to allow for web access to the data file location. Access to the data is not to be hindered in any way. The Contractor will provide the Cabinet with any vendor specific software, user id, passwords, etc. needed to access the data through this service, cost of this access is incidental to the thermal profile bid item. The Cabinet is to have access to all data as it is being collected. If a third party is used for collecting and distributing the data the Cabinet is to have the same access rights and time as the Contractor.
4. Training plan and schedule for roller operators, project foreman, project surveyors, and Cabinet personnel; including both classroom and field training. Training should be conducted at least 1 week before beginning IC construction. The training is to be performed by a qualified representative(s) from the IC Roller manufacture(s) to be used on the project. This training shall include how to access and use the data from the cloud data source.

4.0 CONSTRUCTION. Do not begin work until the Engineer has approved the IC submittals and the IC equipment.

Follow requirements established in Section 400 for production and placement, materials, equipment, acceptance plans and adjustments except as noted or modified in this Specification. Provide the Engineer at least one day's notice prior to beginning construction or prior to resuming production if operations have been temporarily suspended. Ensure paving equipment complies with all requirements specified in Section 400. The IC roller temperatures will be evaluated by the Department with the data from a Paver Mounted Infrared Temperature Gauge.

A. Pre-Construction Test Section(s) Requirements.

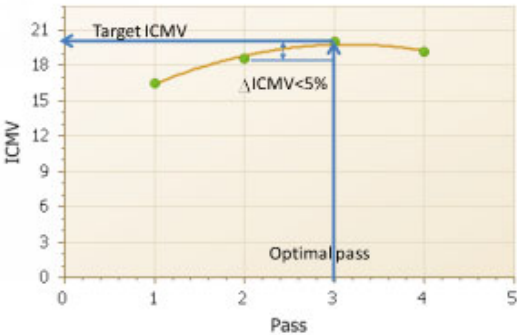
Three to five days prior to the start of production, ensure the proper setup of the GPS, IC roller(s) and the rover(s) by conducting joint GPS correlation and verification testing between the Contractor, GPS representative and IC roller manufacturer using the same datum.

1. Ensure GPS correlation and verification testing includes the following minimum processes:
 - a. Establish the GPS system to be used either one with a base station or one with mobile receivers only. Ensure all components in the system are set to the correct coordinate system; then,
 - b. Verify that the roller and rover are working properly and that there is a connection with the base station; then,
 - c. Record the coordinates of the two edges where the front drum of the roller is in contact with the ground from the on-board, color-coded display; then,
 - d. Mark the locations of the roller drum edges and move the roller, and place the mobile receiver at each mark and record the readings; then,
2. Compare coordinates between the roller and rover receivers. If the coordinates are within 12.0 in. of each other, the comparison is acceptable. If the coordinates are not within 12.0 in., diagnose and perform necessary corrections and repeat the above steps until verification is acceptable.
3. Do not begin work until acceptable GPS correlation and verification has been obtained.
4. The Contractor and the Department should conduct random GPS verification testing during production to ensure data locations are accurate. The recommended rate is once per day with a requirement of at least once per week.
5. All acceptance testing shall be as outlined in Standard Specifications section 400.

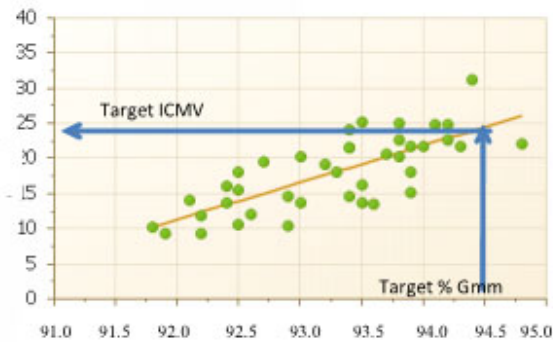
B. Construction Test Section(s) Requirements.

Construct test section(s) at location(s) agreed on by the Contractor and the Engineer within the project limits. The test section is required to determine a compaction curve of the asphalt mixtures in relationship to number of roller passes and to the stiffness of mixture while meeting the Department in-place compaction requirements. All rollers and the respective number of passes for each is to be determined via control strip each time a material change, equipment change or when the Engineer deems necessary.

Conduct test section(s) on every lift and every asphalt mixture. Ensure test section quantities of 500 to 1,000 tons of mainline mixtures. Operate IC rollers in the low to medium amplitude range and at the same settings (speed, frequency) throughout the section while minimizing overlapping of the roller, **the settings are to be used throughout the project with no changes**. After each roller pass, the qualified technician from the contractor observed by the Department will use a nondestructive nuclear gauge that has been calibrated to the mixture to estimate the density of the asphalt at 10 locations uniformly spaced throughout the test section within the width of a single roller pass. The density readings and the number of roller passes needed to achieve the specified compaction will be recorded. The estimated target density will be the peak of the average of the nondestructive readings within the desired compaction temperature range for the mixture. The IC roller data in conjunction with the Veda software will create an IC compaction curve for the mixture. The target IC-MV is the point when the increase in the IC-MV of the material between passes is less than 5 percent on the compaction curve. The IC compaction curve is defined as the relationship between the IC-MV and the roller passes. A compaction curve example is as follows:



Subsequent to the determination of the target IC-MV, compact an adjoining > 250 < 500 tons section using same roller settings and the number of estimated roller passes and allow the Department to verify the compaction with the same calibrated nondestructive nuclear gauge following the final roller pass. **The Department will obtain cores at 10 locations (No cores for calibration are to be taken in the surface layer, use non-destructive density results only!!)** uniformly spaced throughout the test section within the width of the single roller. Obtain GPS measurement of the core locations with a GPS rover. Use the Veda software to perform least square linear regression between the core data and IC-MV in order to correlate the production IC-MV values to the Department specified in-place air voids. A sample linear regression curve example is as follows.



C. Construction Requirements.

Use the IC roller on all lifts and types of asphalt within the limits of the project.

Ensure the optimal number of roller passes determined from the test sections has been applied to a minimum coverage of 80% of the individual IC Construction area. Ensure a minimum of 75% of the individual IC Construction area meets the target IC-MV values determined from the test sections.

Do not continue paving operations if IC Construction areas not meeting the IC criteria are produced until they have been investigated by the Department. Obtain the Engineer’s approval to resume paving operations. Non-IC rollers are allowed to be used as the third roller on the project; one of the breakdown or the finish rollers is to be equipped with IC technology.

IC Construction areas are defined as subsections of the project being worked continuously by the Contractor. The magnitude of the IC Construction areas may vary with production but must be at least 750 tons per mixture for evaluation. Partial IC Construction areas of < 750 tons will be included in the previous area evaluation. IC Construction areas may extend over multiple days depending on the operations.

The IC Construction Operations Criteria does not affect the Department’s acceptance processes for the materials or construction operations

5.0 MEASUREMENT. The Department will measure the total tons of asphalt mixtures compacted using the IC roller(s). Compaction is to be performed by a minimum of one (1) IC roller for a two (2) roller operation and a minimum of two (2) IC rollers when three (3) or more rollers are used for compaction. Material compacted by rollers not equipped with properly functioning IC equipment will not be accepted for payment of the bid item asphalt mixtures IC rolled. Use of

non-IC rollers can be accepted on small areas due to equipment malfunctions at the written approval of the Engineer. Paving operations should be suspended for equipment malfunctions that will extend over three days of operation.

Data is to be transferred to the cabinet in usable form no later than 30 minutes after collection. Data is to be transferred via a cloud based system.

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

- 1. Payment is full compensation for all work associated with providing IC equipped rollers, laptop computer, transmission of electronic data files, two copies of IC roller manufacturer software, and training.
- 2. Delays due to GPS satellite reception of signals to operate the IC equipment or IC roller breakdowns will not be considered justification for contract modifications or contract extensions.
- 3. Delays in data transfer will result in a reduction payment. Delays over 1 hour after collection are 75% pay, over 90 minutes are 50% pay, over 2 hours are 25% pay.

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
24781EC	Intelligent Compaction for Asphalt	Ton

March 14, 2019

SPECIAL NOTE FOR PAVER MOUNTED TEMPERATURE PROFILES

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

1.0 DESCRIPTION. Provide a paver mounted infrared temperature equipment to continually monitor the temperature of the asphalt mat immediately behind all paver(s) during the placement operations for all mainline pavements (including ramps for Interstates and Parkways) within the project limits. Provide thermal profiles that include material temperature and measurement locations.

2.0 MATERIALS AND EQUIPMENT. In addition to the equipment specified in Subsection 403.02 Utilize a thermal equipment supplier that can provide a qualified representative for on-site technical assistance during the initial setup, pre-construction verification, and data management and processing as needed during the Project to maintain equipment within specifications and requirements.

Provide operator settings, user manuals, required viewing/export software for analysis. Ensure the temperature equipment will meet the following:

- A. A device with one or more infrared sensors that is capable of measuring in at least 1 foot intervals across the paving width, with a minimum width of 12 feet, or extending to the recording limits of the equipment, whichever is greater. A **Maximum of two (2)** brackets are allowed in the influence area under the sensors. A temperature profile must be made on at least 1 foot intervals longitudinally down the road:
- B. Infrared sensor(s):
 - 1. Measuring from 32°F to 400°F with an accuracy of $\pm 2.0\%$ of the sensor reading.
- C. Ability to measure the following:
 - 1. The placement distance using a Global Positioning System (GPS) or a Distance Measuring Instrument (DMI) and a Global Positioning System (GPS).
 - 2. Stationing
- D. GPS: Accuracy ± 4 feet in the X and Y Direction
- E. Latest version of software to collect, display, retain and analyze the mat temperature readings during placement. The software must have the ability to create and analyze:
 - 1. Full collected width of the thermal profiles,
 - 2. Paver speed and
 - 3. Paver stops and duration for the entire Project.
- F. Ability to export data automatically to a remote data server ("the cloud").

At the preconstruction meeting, provide the Cabinet with rights to allow for web access to the data file location. Access to the data is not to be hindered in any way. The Contractor will provide the Cabinet with any vendor specific software, user id, passwords, etc. needed to access the data through this service, cost of this access is incidental to the thermal profile bid item. The Cabinet is to have access to all data as it is being collected. If a third party is used for collecting and distributing the data the Cabinet is to have the same access rights and time as the Contractor.

This web-based software must also provide the Department with the ability to download the raw files and software and to convert them into the correct format.
- G. The thermal profile data files must provide the following data in a neat easy to read table format.
 - 1. Project information including Road Name and Number, PCN, Beginning and Ending MPs.
 - 2. IR Bar Manufacturer and Model number
 - 3. Number of Temperature Sensors (N)
 - 4. Spacing between sensors and height of sensors above the asphalt mat
 - 5. Total number of individual records taken each day (DATA BLOCK)
 - a. Date and Time reading taken
 - b. Latitude and Longitude
 - c. Distance paver has moved from last test location
 - d. Direction and speed of the paver
 - e. Surface temperature of each of the sensors

3.0 CONSTRUCTION. Provide the Engineer with all required documentation at the pre-construction conference.

- A. Install and operate equipment in accordance with the manufacturer's specifications.
- B. Verify that the temperature sensors are within $\pm 2.0\%$ using an independent temperature device on a material of known temperature. Collect and compare the GPS coordinates from the equipment with an independent measuring device.
 - 1. Ensure the independent survey grade GPS measurement device is calibrated to the correct coordinate system (using a control point), prior to using these coordinates to validate the equipment GPS.
 - 2. The comparison is considered acceptable if the coordinates are within 4 feet of each other in the X and Y direction.
- C. Collect thermal profiles on all mainline pavements during the paving operation and transfer the data to the "cloud" network or if automatic data transmission is not available, transfer the data to the Engineer at the end of daily paving.
- D. Contact the Department immediately when System Failure occurs. Daily Percent Coverage will be considered zero when the repairs are not completed within two (2) working days of System Failure. The start of this two (2) working day period begins the next working day after System Failure.
- E. Evaluate thermal profile segments, every 150 feet, and summarize the segregation of temperature results. Results are to be labeled as Minimal 0° - 25° F, Moderate 25.1° - 50° F and Severe $>50^{\circ}$. Severe readings over 3 consecutive segments or over 4 or more segments in a day warrant investigation on the cause of the differential temperature distribution.

4.0 MEASUREMENT. The Department will measure the total area of the pavement lanes mapped by the infrared scanners. Full payment will be provided for all lanes with greater than 85% coverage. Partial payment will be made for all areas covered from 50% coverage to 85% coverage at the following rate Coverage area percentage X Total bid amount. And area with less than 50% coverage will not be measured for payment.

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

- 1. Payment is full compensation for all work associated with providing all required equipment, training, and documentation.
- 2. Delays due to GPS satellite reception of signals or equipment breakdowns will not be considered justification for contract modifications or contract extensions.

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
24891EC	Pave Mount Infrared Temp Equipment	Square Foot

March 14, 2019

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.



Matthew G. Bevin
Governor

COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET
Frankfort, Kentucky 40622
www.transportation.ky.gov/

Greg Thomas
Secretary

Asbestos Inspection Report

To: Andre Johannes

District: Central Office

Date: October 24, 2018

Conducted By: O'Dail Lawson

Report Prepared By: O'Dail Lawson

Project and Structure Identification

Project Number: Fleming 09-20009

Structure ID: 035B00012N

Structure Location: KY-32 (Morehead Road) over Sand Lick Creek

Sample Description: The samples collected were negative for asbestos.

Inspection Date: October 16, 2018

Results and Recommendations

The results of the samples collected were negative for the presence of asbestos above 1%.
No abatement is required at this time.

It is recommended that this report accompany the 10-Day Notice of Intent for Demolition ([DEP7036 Form](#)) which is to be submitted to the Kentucky Division of Air Quality prior to abatement, demolition, or renovation of any building or structure in the Commonwealth.





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

Analysis N #	# 10224 A	Address:	Fleming County - 9 - 20009
Client Name:	KYTC		035B00012N
Sampled By:	O'Dail Lawson		

[illegible]


Date Analyzed : 22-Oct-18
Analyst : Winterford Mensah

Reviewed By: Kintaros Meraf
Signature

AIHA # 102459

AJHA #1 02459

MRS, INC.		<u>MRS, Inc. Analytical Laboratory Division</u>	
332 West Broadway, Suite 613		(502) 495-1212	
Louisville, Kentucky 40202		Fax: (502) 491-7111	
Client:	<u>KY Transportation Cabinet</u>	Project No:	<u># 10224 B</u>
Address:	<u>200 Mero Street</u>	Sample ID:	<u># 12-1</u>
	<u>Frankfort, KY</u>	Sampled:	<u>16-Oct-18</u>
	<u>40601</u>	Received:	<u>17-Oct-18</u>
		Analyzed:	<u>22-Oct-18 - Point Count -</u>
	<u>Attention O'Dail Lawson</u>		

Bulk Sample Analysis					
Sampled by:	<u>O'Dail Lawson</u>				
Facility/Location:	<u>Fleming County / 9 - 20004 035B00012N</u>				
Field Description:	<u>Joint Compound</u>				
Laboratory Description:	<u>Thick Black Masterial</u>				
Asbestos Materials:	<u>Chrysotile = 2/400 = 0.50 % (< 1 %) Sample Is Negative</u>				
Non-asbestos Fibrous Materials & Matrix Materials:					
	<table><tr><td>Cellulose</td><td>0.25 %</td></tr><tr><td>Binders</td><td>99.25 %</td></tr></table>	Cellulose	0.25 %	Binders	99.25 %
Cellulose	0.25 %				
Binders	99.25 %				
Remarks:	<p>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.</p>				
Analyst:	<u>Winterford Mensah</u>				
Reviewed By:	<u></u> <small>Signature</small>				

Kentucky Transportation Cabinet

(502) 564-7250 fax (502) 564-5655

Date/Time:

ENVIRONMENTAL TRAINING CONCEPTS, INC

P.O Box 99603 Louisville, KY 40269
(502)640-2951

Certification Number: ETC-AIR-060518-00303

O'Dail Lawson

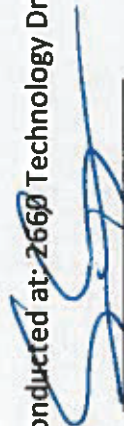
has on 06-05-2018, attended and successfully completed the requirements and passed the examination with a score of 70% of better on the entitled course.

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, Tennessee Department of Environment & Conservation and the Arkansas Department of Environmental Quality. The above student received requisite training for Asbestos Accreditation under Title II of the Toxic Substance Act (TSCA).

Conducted at: 2660 Technology Drive, Louisville, KY

Expiration Date: 06-05-2019


Name - Training Manager


Name - Instructor



Matthew G. Bevin
Governor

**COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET**

Frankfort, Kentucky 40622
www.transportation.ky.gov/

Greg Thomas
Secretary

Asbestos Inspection Report

To: Andre Johannes

District: Central Office

Date: October 24, 2018

Conducted By: O'Dail Lawson

Report Prepared By: O'Dail Lawson

Project and Structure Identification

Project Number: Fleming 09-20009

Structure ID: 035B00013N

Structure Location: KY-32 (Morehead Road) over Fox Creek

Sample Description: The samples collected were negative for asbestos.

Inspection Date: October 16, 2018

Results and Recommendations

The results of the samples collected were negative for the presence of asbestos above 1%.
No abatement is required at this time.

It is recommended that this report accompany the 10-Day Notice of Intent for Demolition ([DEP7036 Form](#)) which is to be submitted to the Kentucky Division of Air Quality prior to abatement, demolition, or renovation of any building or structure in the Commonwealth.





Fax: (502) 491-7111


Address: Fleming County - 9 - 20009

[illegible]

Reviewed By: Kintana Mercap
Signature

AJHA #1 02459

MRS, INC.		<i>MRS, Inc. Analytical Laboratory Division</i>	
332 West Broadway, Suite 613		(502) 495-1212	
Louisville, Kentucky 40202		Fax: (502) 491-7111	
Client:	<u>KY Transportation Cabinet</u>	Project No:	<u># 10225 B</u>
Address:	<u>200 Mero Street</u>	Sample ID:	<u># 13N - 1</u>
	<u>Frankfort, KY</u>	Sampled:	<u>16-Oct-18</u>
	<u>40601</u>	Received:	<u>17-Oct-18</u>
		Analyzed:	<u>22-Oct-18 - Point Count -</u>
	<u>Attention O'Dail Lawson</u>		

Bulk Sample Analysis	
Sampled by:	<u>O'Dail Lawson</u>
Facility/Location:	<u>Fleming County / 9 - 20004 035B00013N</u>
Field Description:	<u>Joint Compound</u>
Laboratory Description:	<u>Thick Black Masterial</u>
Asbestos Materials:	<u>Chrysotile = 2/400 = 0.50 % (< 1 %) Sample Is Negative</u>
Non-asbestos Fibrous Materials & Matrix Materials:	
	<u>Cellulose 0.25 %</u>
	<u>Binders 99.25 %</u>
Remarks:	<u>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.</u>
Analyst:	<u>Winterford Mensah</u>
Reviewed By:	<u></u> <small>Signature</small>

Kentucky Transportation Cabinet

200 Mero Street, 5th Floor West

Frankfort, Kentucky 40622

(502) 564-7250 fax (502) 564-5655

[illegible]

ENVIRONMENTAL TRAINING CONCEPTS, INC

P.O. Box 99603 Louisville, KY 40269
(502)640-2951

Certification Number: ETC-AIR-060518-00303

O'Dail Lawson

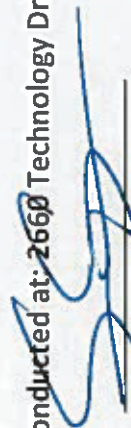
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Conducted at: 2660 Technology Drive, Louisville, KY

Expiration Date: 06-05-2019


Name - Training Manager


Name - Instructor



Matthew G. Bevin
Governor

**COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET**

Frankfort, Kentucky 40622
www.transportation.ky.gov/

Greg Thomas
Secretary

Asbestos Inspection Report

To: Andre Johannes

District: Central Office

Date: October 24, 2018

Conducted By: O'Dail Lawson

Report Prepared By: O'Dail Lawson

Project and Structure Identification

Project Number: Fleming 09-20009

Structure ID: 035B00014N

Structure Location: KY-32 (Morehead Road) over Indian Creek

Sample Description: The samples collected were negative for asbestos.

Inspection Date: October 16, 2018

Results and Recommendations

The results of the samples collected were negative for the presence of asbestos above 1%.
No abatement is required at this time.

It is recommended that this report accompany the 10-Day Notice of Intent for Demolition ([DEP7036 Form](#)) which is to be submitted to the Kentucky Division of Air Quality prior to abatement, demolition, or renovation of any building or structure in the Commonwealth.





Fax: (502) 491-7111


Analysis N #	# 10226	Address:	Fleming County / 9-20009
Client Name:	KYTC		035B00014N
Sampled By:	O'Dail Lawson		

[illegible]

Reviewed By: *Kintous Mercal*
Signature

AJHA #1 02459

MRS, INC.		<u>MRS, Inc. Analytical Laboratory Division</u>	
332 West Broadway, Suite 613		(502) 495-1212	
Louisville, Kentucky 40202		Fax: (502) 491-7111	
Client:	<u>KY Transportation Cabinet</u>	Project No:	<u># 10226 B</u>
Address:	<u>200 Mero Street</u>	Sample ID:	<u># 14 - 1</u>
	<u>Frankfort, KY</u>	Sampled:	<u>16-Oct-18</u>
	<u>40601</u>	Received:	<u>17-Oct-18</u>
		Analyzed:	<u>22-Oct-18 - Point Count -</u>
	<u>Attention O'Dail Lawson</u>		

Bulk Sample Analysis					
Sampled by:	<u>O'Dail Lawson</u>				
Facility/Location:	<u>Fleming County / 9 - 20004 035B00014N</u>				
Field Description:	<u>Joint Compound</u>				
Laboratory Description:	<u>Thick Black Masterial</u>				
Asbestos Materials:	<u>Chrysotile = 2/400 = 0.50 % (< 1 %) Sample Is Negative</u>				
Non-asbestos Fibrous Materials & Matrix Materials:					
	<table><tr><td><u>Cellulose</u></td><td><u>0.25 %</u></td></tr><tr><td><u>Binders</u></td><td><u>99.25 %</u></td></tr></table>	<u>Cellulose</u>	<u>0.25 %</u>	<u>Binders</u>	<u>99.25 %</u>
<u>Cellulose</u>	<u>0.25 %</u>				
<u>Binders</u>	<u>99.25 %</u>				
Remarks:	<u>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.</u>				
Analyst:	<u>Winterford Mensah</u>				
Reviewed By:	<u></u> <small>Signature</small>				

Kentucky Transportation Cabinet

200 Mero Street, 5th Floor West
Frankfort, Kentucky 40622
(502) 564-7250 fax (502) 564-5



KYTC

Address: 200 Mero Street

Frankfort KY

Phone: 502-564-7250

Fax: 502-564-5655

PO#:

Client Information **KY TRANS CABINET**

Results Code:

ND = None Detected

FTD = Filter Tampering or Damaged

N/A = Not Applicable

K9-32 over Indian Creek

Samplers (signature):

Project or Subject Reference

Fleming 9-20009

035B 00014W

David	Erin
-------	------

[illegible]

Relinquished By:

Date/Time:

Received By:

Date/Time:

Relinquished By:

Date/Time:

Received at Lab By:

Date/Time:

ENVIRONMENTAL TRAINING CONCEPTS, INC

P.O Box 99603 Louisville, KY 40269
(502)640-2951

Certification Number: ETC-AIR-060518-00303

O'Dail Lawson

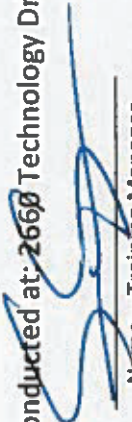
has on 06-05-2018, attended and successfully completed the requirements and passed the examination with a score of 70% of better on the entitled course.

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, Tennessee Department of Environment & Conservation and the Arkansas Department of Environmental Quality. The above student received requisite training for Asbestos Accreditation under Title II of the Toxic Substance Act (TSCA).

Conducted at: ~~2660~~ Technology Drive, Louisville, KY

Expiration Date: ~~06-05-2019~~


Name - Training Manager


Name - Instructor



Matthew G. Bevin
Governor

**COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET**

Frankfort, Kentucky 40622
www.transportation.ky.gov/

Greg Thomas
Secretary

Asbestos Inspection Report

To: Andre Johannes

District: Central Office

Date: October 24, 2018

Conducted By: O'Dail Lawson

Report Prepared By: O'Dail Lawson

Project and Structure Identification

Project Number: Fleming 09-20009

Structure ID: 035B00015N

Structure Location: KY-32 (Morehead Road) over Crane Creek

Sample Description: The samples collected were negative for asbestos.

Inspection Date: October 16, 2018

Results and Recommendations

The results of the samples collected were negative for the presence of asbestos above 1%.
No abatement is required at this time.

It is recommended that this report accompany the 10-Day Notice of Intent for Demolition ([DEP7036 Form](#)) which is to be submitted to the Kentucky Division of Air Quality prior to abatement, demolition, or renovation of any building or structure in the Commonwealth.





Fax: (502) 491-7111


Analysis N #	# 10227	Address:	Fleming County / 9-20009
Client Name:	KYTC		035B00015N
Sampled By:	O'Dail Lawson		

[illegible]

Reviewed By: *Kristina Mena*
Signature

AJHA #1 02459

<i>MRS, INC.</i>		<i>MRS, Inc. Analytical Laboratory Division</i>	
332 West Broadway, Suite 613		(502) 495-1212	
Louisville, Kentucky 40202		Fax: (502) 491-7111	
Client:	<u>KY Transportation Cabinet</u>	Project No:	<u># 10227 B</u>
Address:	<u>200 Mero Street</u>	Sample ID:	<u># 15 - 1</u>
	<u>Frankfort, KY</u>	Sampled:	<u>16-Oct-18</u>
	<u>40601</u>	Received:	<u>17-Oct-18</u>
		Analyzed:	<u>22-Oct-18 - Point Count -</u>
	<u>Attention O'Dail Lawson</u>		

Bulk Sample Analysis					
Sampled by:	<u>O'Dail Lawson</u>				
Facility/Location:	<u>Fleming County / 9 - 20004 035B00015N</u>				
Field Description:	<u>Joint Compound</u>				
Laboratory Description:	<u>Thick Black Masterial</u>				
Asbestos Materials:	<u>Chrysotile = 2/400 = 0.50 % (< 1 %) Sample Is Negative</u>				
Non-asbestos Fibrous Materials & Matrix Materials:					
	<table><tr><td><u>Cellulose</u></td><td><u>0.25 %</u></td></tr><tr><td><u>Binders</u></td><td><u>99.25 %</u></td></tr></table>	<u>Cellulose</u>	<u>0.25 %</u>	<u>Binders</u>	<u>99.25 %</u>
<u>Cellulose</u>	<u>0.25 %</u>				
<u>Binders</u>	<u>99.25 %</u>				
Remarks:	<p>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.</p>				
Analyst:	<u>Winterford Mensah</u>				
Reviewed By:	<u></u> <small>Signature</small>				

ENVIRONMENTAL TRAINING CONCEPTS, INC

P.O. Box 99603 Louisville, KY 40269
(502)640-2951

Certification Number: ETC-AIR-060518-00303

O'Dail Lawson

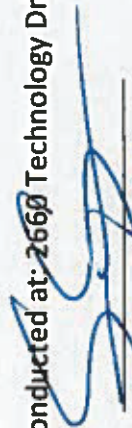
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Conducted at: 2660 Technology Drive, Louisville, KY

Expiration Date: 06-05-2019


Name - Training Manager




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)
9-20009.00	Fleming	FD52 035 0032 017-029	STP 0321 (027)
PROJECT DESCRIPTION			
Address pavement condition of AC pavement			
<input type="checkbox"/> No Additional Right of Way Required			
Construction will be within the limits of the existing right of way. The right of way was acquired in accordance to FHWA regulations under the Uniform Relocation Assistance and Real Property Acquisitions Policy Act of 1970, as amended. No additional right of way or relocation assistance were required for this project.			
<input checked="" type="checkbox"/> Condition # 1 (Additional Right of Way Required and Cleared)			
All necessary right of way, including control of access rights when applicable, have been acquired including legal and physical possession. Trial or appeal of cases may be pending in court but legal possession has been obtained. There may be some improvements remaining on the right-of-way, but all occupants have vacated the lands and improvements, and KYTC has physical possession and the rights to remove, salvage, or demolish all improvements and enter on all land. Just Compensation has been paid or deposited with the court. All relocations have been relocated to decent, safe, and sanitary housing or that KYTC has made available to displaced persons adequate replacement housing in accordance with the provisions of the current FHWA directive.			
<input type="checkbox"/> Condition # 2 (Additional Right of Way Required with Exception)			
The right of way has not been fully acquired, the right to occupy and to use all rights-of-way required for the proper execution of the project has been acquired. Some parcels may be pending in court and on other parcels full legal possession has not been obtained, but right of entry has been obtained, the occupants of all lands and improvements have vacated, and KYTC has physical possession and right to remove, salvage, or demolish all improvements. Just Compensation has been paid or deposited with the court for most parcels. Just Compensation for all pending parcels will be paid or deposited with the court prior to AWARD of construction contract			
<input type="checkbox"/> Condition # 3 (Additional Right of Way Required with Exception)			
The acquisition or right of occupancy and use of a few remaining parcels are not complete and/or some parcels still have occupants. All remaining occupants have had replacement housing made available to them in accordance with 49 CFR 24.204. KYTC is hereby requesting authorization to advertise this project for bids and to proceed with bid letting even though the necessary right of way will not be fully acquired, and/or some occupants will not be relocated, and/or the just compensation will not be paid or deposited with the court for some parcels until after bid letting. KYTC will fully meet all the requirements outlined in 23 CFR 635.309(c)(3) and 49 CFR 24.102(j) and will expedite completion of all acquisitions, relocations, and full payments after bid letting and prior to AWARD of the construction contract or force account construction.			
Total Number of Parcels on Project		EXCEPTION (S) Parcel #	ANTICIPATED DATE OF POSSESSION WITH EXPLANATION
Number of Parcels That Have Been Acquired			
Signed Deed			
Condemnation			
Signed ROE			
Notes/ Comments (Use Additional Sheet if necessary)			
LPA RW Project Manager		Right of Way Supervisor	
Printed Name		Printed Name	
Signature		Signature	 Digitally signed by Darrin L. Eldridge Date: 2019.06.03 06:49:36 -04'00'
Date		Date	
Right of Way Director		FHWA	
Printed Name		Printed Name	
Signature	 Digitally signed by DM Loy Date: 2019.06.03 07:49:12 -04'00'	Signature	No Signature Required as per FHWA-KYTC Current Stewardship Agreement
Date		Date	

UTILITIES AND RAIL CERTIFICATION NOTE

FLEMING COUNTY
FD52 035 0032 017-029 STP 0321 (027)
KY 32 REHAB FROM KY 156 TO THE ROWAN COUNTY LINE
ITEM NUMBER 9-20009.00

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

FLEMING COUNTY
FD52 035 0032 017-029 STP 0321 (027)
KY 32 REHAB FROM KY 156 TO THE ROWAN COUNTY LINE
ITEM NUMBER 9-20009.00

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 AS PROVIDED BY KY 811

<u>Utility Company/Agency</u>	<u>Contact Name</u>	<u>Contact Information</u>
Fleming / Mason RECC	Brandon Hunt	606-845-2661
Fleming County Water	Kevin Cornett	606-845-3981
Spectrum Cable	Steve Smith	859-302-3475
Windstream Communication	Larry Potter	606-748-9830

SPECIAL NOTE

Filing of eNOI for KPDES Construction Stormwater Permit

County: Fleming

Route: KY 32

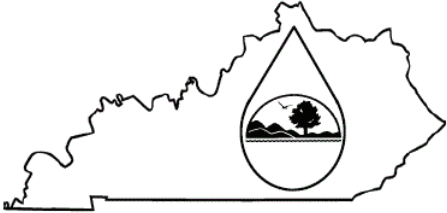
Item No.: 9-20009.00

KDOW Submittal ID: 158146

Project Description: Address pavement condition of AC pavement

A Notice of Intent for obtaining coverage under the Kentucky Pollutant Discharge Elimination System (KPDES) General Permit for Stormwater Discharges Associated with Construction Activities (KYR10) has been drafted, copy of which is attached. Upon award, the Contractor will be identified in Section III of the form as the “Building Contractor” and it will be submitted for approval to the Kentucky Division of Water. The Contractor shall be responsible for advancing the work in a manner that is compliant with all applicable and appropriate KYTC specifications for sediment and erosion control as well as meeting the requirements of the KYR10 permit and the KDOW.

If there are any questions regarding this note, please contact Director, Division of Environmental Analysis, TCOB, 200 Mero Street, Frankfort, KY 40622, Phone: (502) 564-7250.

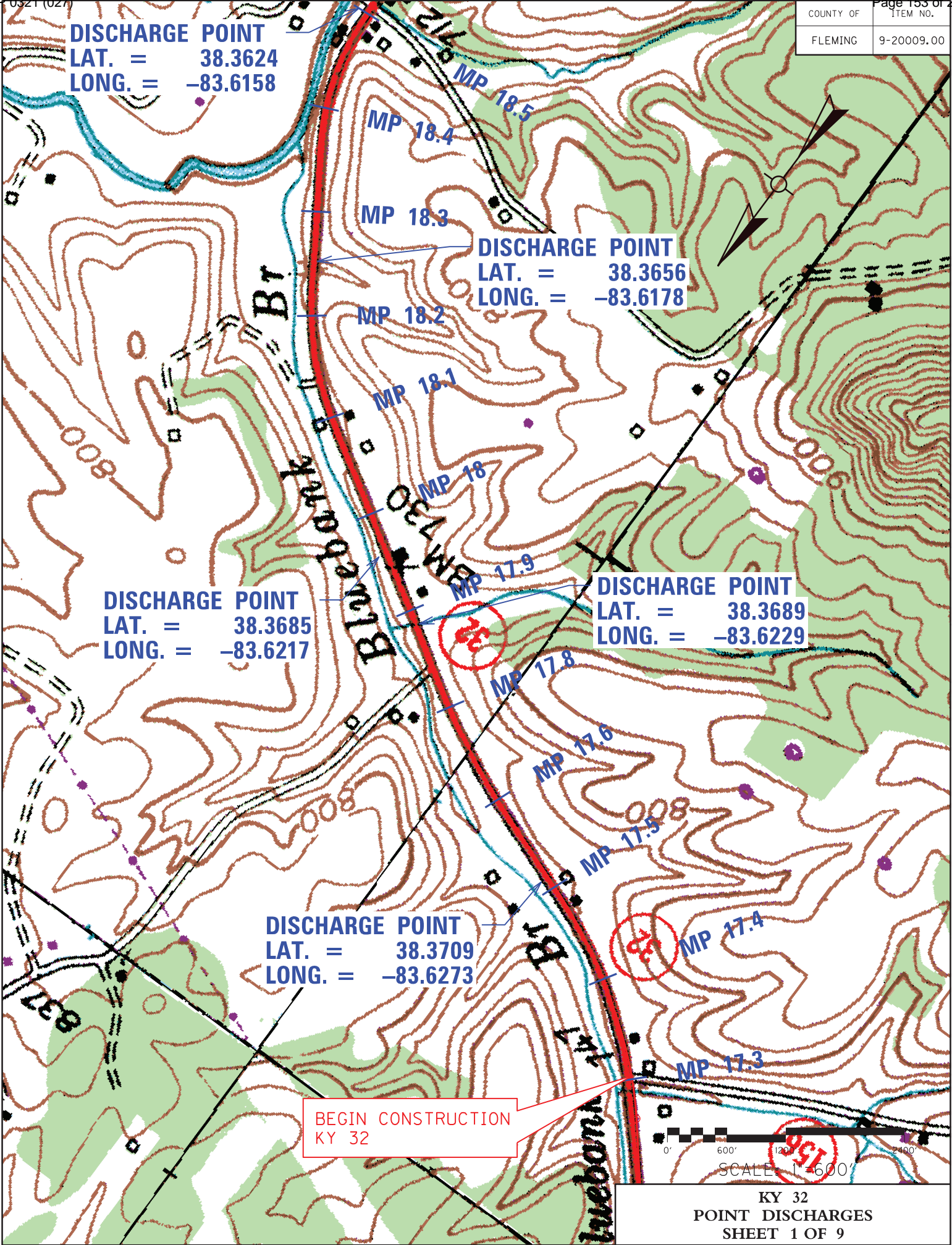
	<p>KENTUCKY POLLUTION DISCHARGE ELIMINATION SYSTEM (KPDES)</p> <p>Notice of Intent (NOI) for coverage of Storm Water Discharge Associated with Construction Activities Under the KPDES Storm Water General Permit KYR100000</p> <p>Click here for Instructions (Controls/KPDES_FormKYR10_Instructions.htm)</p> <p><small>Click here to obtain information and a copy of the KPDES General Permit. (http://dep.ky.gov/formslibrary/Documents/KYR10PermitPage.pdf)</small></p> <p><small>(*) indicates a required field; (✓) indicates a field may be required based on user input or is an optionally required field</small></p>
---	---

Reason for Submittal:(*) Application for New Permit Coverage ▼	Agency Interest ID: Agency Interest ID	Permit Number:(✓) KPDES Permit Number
If change to existing permit coverage is requested, describe the changes for which modification of coverage is being sought:(✓) <input type="text"/>		
ELIGIBILITY: Stormwater discharges associated with construction activities disturbing individually one (1) acre or more, including, in the case of a common plan of development, contiguous construction activities that cumulatively equal one (1) acre or more of disturbance.		
EXCLUSIONS: The following are excluded from coverage under this general permit: 1) Are conducted at or on properties that have obtained an individual KPDES permit for the discharge of other wastewaters which requires the development and implementation of a Best Management Practices (BMP) plan; 2) Any operation that the DOW determines an individual permit would better address the discharges from that operation; 3) Any project that discharges to an Impaired Water listed in the most recent Integrated Report, §305(b) as impaired for sediment and for which an approved TMDL has been developed.		
SECTION I -- FACILITY OPERATOR INFORMATION (PERMITTEE)		
Company Name:(✓) Kentucky Transportation Cabinet - D9 Flemingsburg	First Name:(✓) Steve	M.I.: MI
Last Name:(✓) Gunnell		
Mailing Address:(*) 822 Elizaville Avenue	City:(*) Flemingsburg	State:(*) Kentucky ▼
Zip:(*) 41041		
eMail Address:(*) steve.gunnell@ky.gov	Business Phone:(*) 606-845-2551	Alternate Phone: Phone
SECTION II -- GENERAL SITE LOCATION INFORMATION		
Project Name:(*) KY 32 Pavement Rehab & Slide Repair; CID #: Item # 9-20009	Status of Owner/Operator(*) State Government ▼	SIC Code(*) 1611 Highway and Street (▼
Company Name:(✓) Kentucky Transportation Cabinet - D9 Flemingsburg	First Name:(✓) Steve	M.I.: MI
Last Name:(✓) Gunnell		
Site Physical Address:(*) KY 32		
City:(*) Hillsboro	State:(*) Kentucky ▼	Zip:(*) 41049
County:(*) Fleming ▼	Latitude(decimal degrees)(*)DMS to DD Converter (https://www.fcc.gov/media/radio/dms-decimal) 38.322778	Longitude(decimal degrees)(*) -83.582222
SECTION III -- SPECIFIC SITE ACTIVITY INFORMATION ?		
Project Description:(*) Pavement rehabilitation to include paving earth shoulders and repairing a slide.		
a. For single projects provide the following information		
Total Number of Acres in Project:(✓)	Total Number of Acres Disturbed:(✓)	

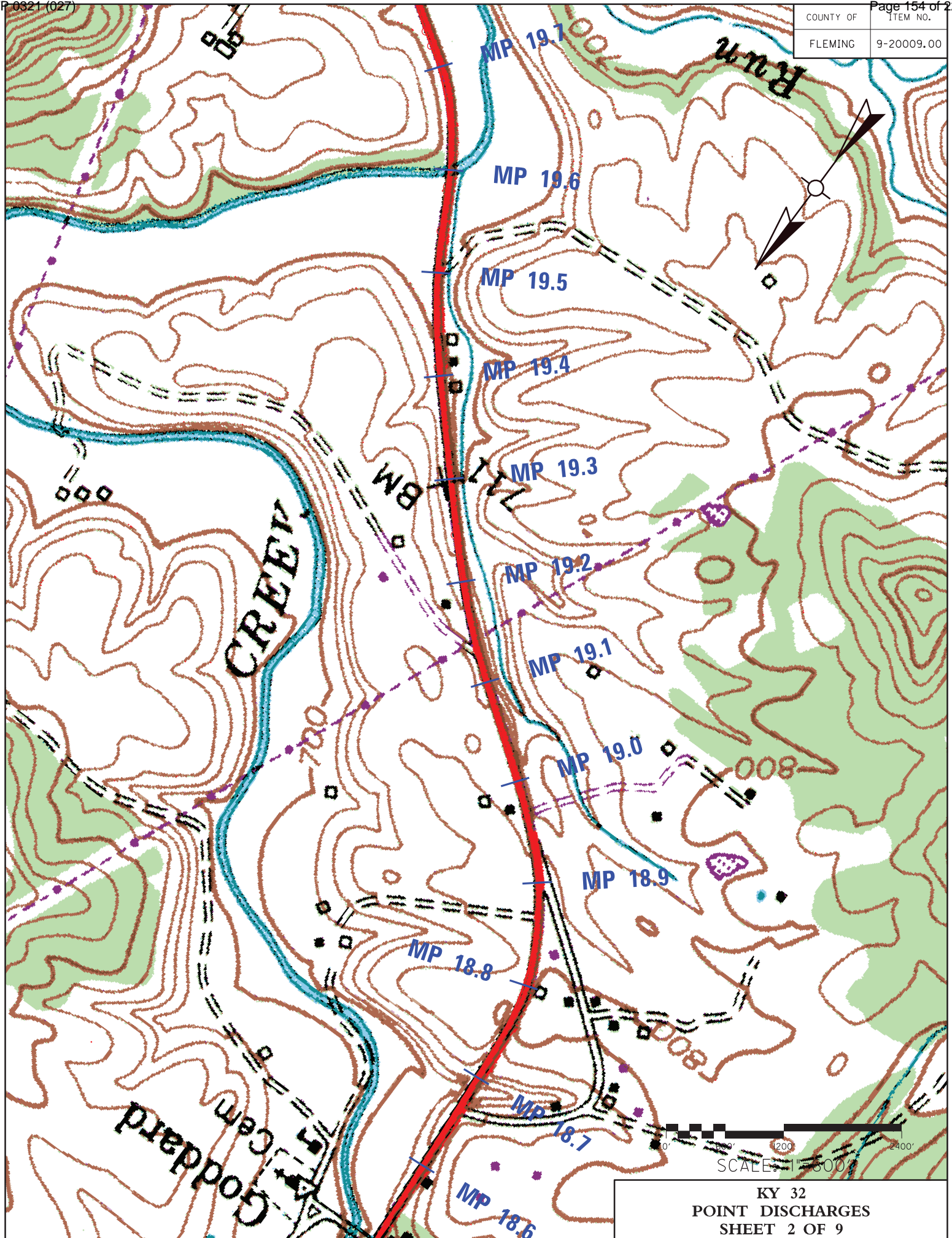
15	15																																																																		
Anticipated Start Date:(✓) <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	Anticipated Completion Date:(✓) <div style="border: 1px solid black; height: 20px; width: 100%;"></div>																																																																		
b. For common plans of development provide the following information																																																																			
Total Number of Acres in Project:(✓) # Acre(s) <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	Total Number of Acres Disturbed:(✓) # Acre(s) <div style="border: 1px solid black; height: 20px; width: 100%;"></div>																																																																		
Number of individual lots in development, if applicable:(✓) # lot(s) <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	Number of lots in development:(✓) # lot(s) <div style="border: 1px solid black; height: 20px; width: 100%;"></div>																																																																		
Total acreage of lots intended to be developed:(✓) Project Acres <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	Number of acres intended to be disturbed at any one time:(✓) Disturbed Acres <div style="border: 1px solid black; height: 20px; width: 100%;"></div>																																																																		
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List Building Contractor(s) at the time of Application:(*)																																																																			
<div style="border: 1px solid black; height: 80px; position: relative;"> <div style="position: absolute; top: 5px; left: 5px;">Company Name</div> <div style="position: absolute; top: 10px; left: 10px;">+</div> <div style="position: absolute; bottom: 5px; left: 5px;"><</div> <div style="position: absolute; bottom: 5px; right: 5px;">></div> </div>																																																																			
SECTION IV -- IF THE PERMITTED SITE DISCHARGES TO A WATER BODY THE FOLLOWING INFORMATION IS REQUIRED ?																																																																			
Discharge Point(s):																																																																			
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Unnamed Tributary?</th> <th>Latitude</th> <th>Longitude</th> <th>Receiving Water Name</th> <th></th> </tr> </thead> <tbody> <tr><td>24</td><td>Yes</td><td>38.2834</td><td>-83.5672</td><td>Crane Creek</td><td>Delete</td></tr> <tr><td>25</td><td>Yes</td><td>38.284</td><td>-83.5686</td><td>Crane Creek</td><td>Delete</td></tr> <tr><td>26</td><td>Yes</td><td>38.286</td><td>-83.5704</td><td>Crane Creek</td><td>Delete</td></tr> <tr><td>27</td><td>Yes</td><td>38.2706</td><td>-83.5399</td><td>Crane Creek</td><td>Delete</td></tr> <tr><td>28</td><td>No</td><td>38.2738</td><td>-83.5446</td><td>Crane Creek</td><td>Delete</td></tr> <tr><td>29</td><td>No</td><td>38.2751</td><td>-83.5477</td><td>Crane Creek</td><td>Delete</td></tr> <tr><td>30</td><td>Yes</td><td>38.2759</td><td>-83.5495</td><td>Crane Creek</td><td>Delete</td></tr> <tr><td>31</td><td>No</td><td>38.2599</td><td>-83.5322</td><td>Spice Lick</td><td>Delete</td></tr> <tr><td>32</td><td>No</td><td>38.263</td><td>-83.5352</td><td>Spice Lick</td><td>Delete</td></tr> <tr><td>33</td><td></td><td></td><td></td><td></td><td>Delete</td></tr> </tbody> </table>			Unnamed Tributary?	Latitude	Longitude	Receiving Water Name		24	Yes	38.2834	-83.5672	Crane Creek	Delete	25	Yes	38.284	-83.5686	Crane Creek	Delete	26	Yes	38.286	-83.5704	Crane Creek	Delete	27	Yes	38.2706	-83.5399	Crane Creek	Delete	28	No	38.2738	-83.5446	Crane Creek	Delete	29	No	38.2751	-83.5477	Crane Creek	Delete	30	Yes	38.2759	-83.5495	Crane Creek	Delete	31	No	38.2599	-83.5322	Spice Lick	Delete	32	No	38.263	-83.5352	Spice Lick	Delete	33					Delete
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SECTION V -- IF THE PERMITTED SITE DISCHARGES TO A MS4 THE FOLLOWING INFORMATION IS REQUIRED ?																																																																			
Name of MS4: <div style="border: 1px solid black; height: 20px; width: 100%;"></div>																																																																			
Date of application/notification to the MS4 for construction site permit coverage: Date <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	Discharge Point(s):(*) <div style="border: 1px solid black; height: 100px; position: relative;"> <div style="position: absolute; top: 5px; left: 5px;">Latitude</div> <div style="position: absolute; top: 5px; left: 100px;">Longitude</div> <div style="position: absolute; top: 10px; left: 10px;">+</div> <div style="position: absolute; bottom: 5px; left: 5px;"><</div> <div style="position: absolute; bottom: 5px; right: 5px;">></div> </div>																																																																		
SECTION VI -- WILL THE PROJECT REQUIRE CONSTRUCTION ACTIVITIES IN A WATER BODY OR THE RIPARIAN ZONE?																																																																			
Will the project require construction activities in a water body or the riparian zone?:(*)	Yes <div style="float: right;">▼</div>																																																																		
If Yes, describe scope of activity: (✓)	minor extensions of culverts along route																																																																		
Is a Clean Water Act 404 permit required?:(*)	Yes <div style="float: right;">▼</div>																																																																		
Is a Clean Water Act 401 Water Quality Certification required?:(*)	Yes <div style="float: right;">▼</div>																																																																		
SECTION VII -- NOI PREPARER INFORMATION																																																																			

First Name:(*) <input type="text" value="Karen"/>	M.I.: <input type="text" value="L"/>	Last Name:(*) <input type="text" value="Mynhier"/>	Company Name:(*) <input type="text" value="Kentucky Transportation Cabinet - D9 Flemingsburg"/>					
Mailing Address:(*) <input type="text" value="822 Elizaville Avenue"/>		City:(*) <input type="text" value="Flemingsburg"/>	State:(*) <input type="text" value="Kentucky"/>	Zip:(*) <input type="text" value="41041"/>				
eMail Address:(*) <input type="text" value="karen.mynhier@ky.gov"/>		Business Phone:(*) <input type="text" value="606-845-2551"/>	Alternate Phone: <input type="text" value="Phone"/>					
SECTION VIII -- ATTACHMENTS								
Facility Location Map:(*)		<input type="button" value="Upload file"/> <table border="1"> <thead> <tr> <th>Files</th> <th></th> </tr> </thead> <tbody> <tr> <td> 9-20009_point discharges.pdf (4.0MB)</td> <td><input type="button" value="Remove"/></td> </tr> </tbody> </table>			Files		9-20009_point discharges.pdf (4.0MB)	<input type="button" value="Remove"/>
Files								
9-20009_point discharges.pdf (4.0MB)	<input type="button" value="Remove"/>							
Supplemental Information:		<input type="button" value="Upload file"/>						
SECTION IX -- CERTIFICATION								
<p>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</p>								
Signature:(*) <input type="text" value="Signature"/>		Title:(*) <input type="text" value="Title"/>						
First Name:(*) <input type="text" value="First Name"/>	M.I.: <input type="text" value="MI"/>	Last Name:(*) <input type="text" value="Last Name"/>						
eMail Address:(*) <input type="text" value="eMail Address"/>	Business Phone:(*) <input type="text" value="Phone"/>	Alternate Phone: <input type="text" value="Phone"/>	Signature Date:(*) <input type="text" value="Date"/>					
<div> <input type="button" value="Click to Save Values for Future Retrieval"/> <input type="button" value="Click to Submit to EEC"/> </div>								

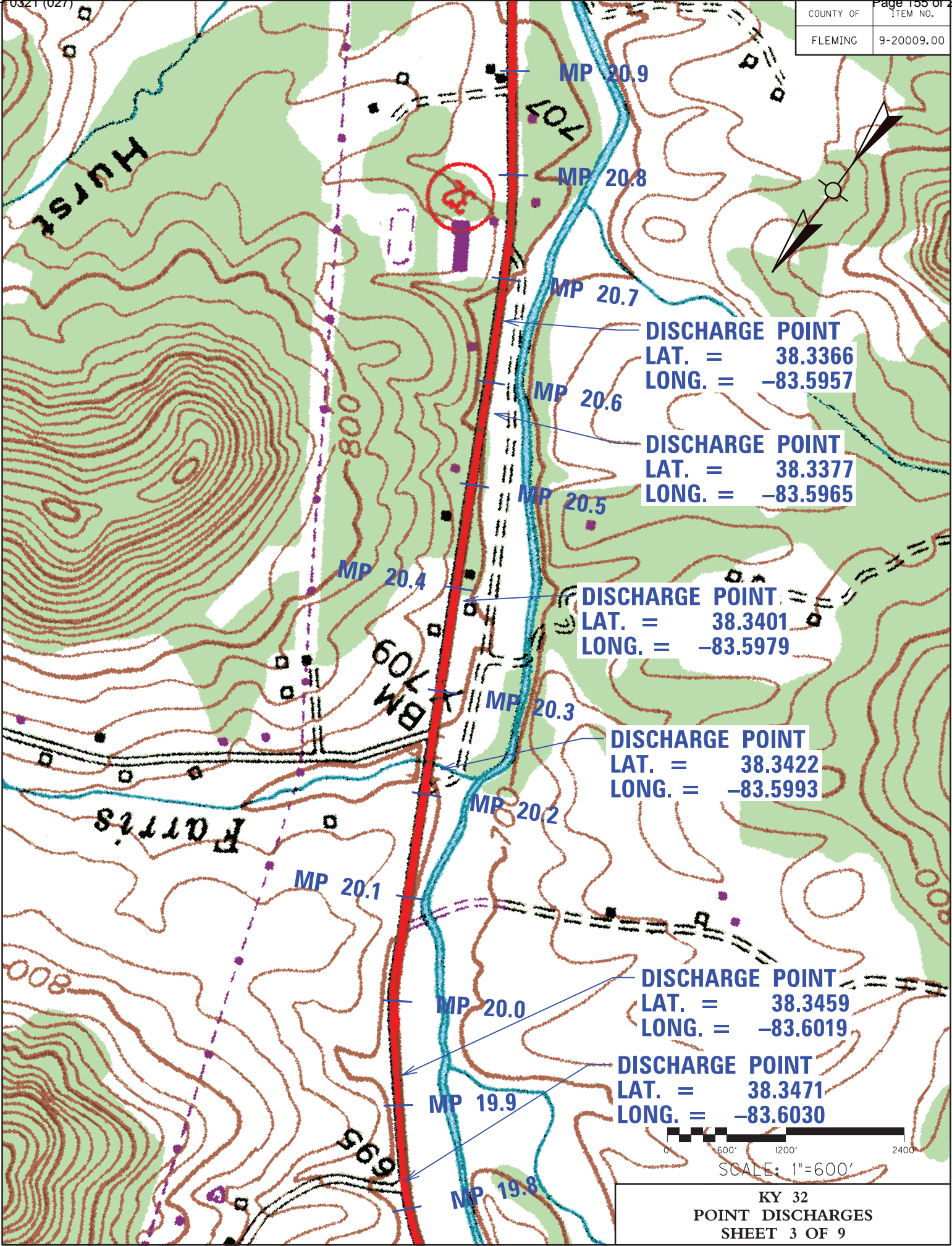
COUNTY OF	ITEM NO.
FLEMING	9-20009.00



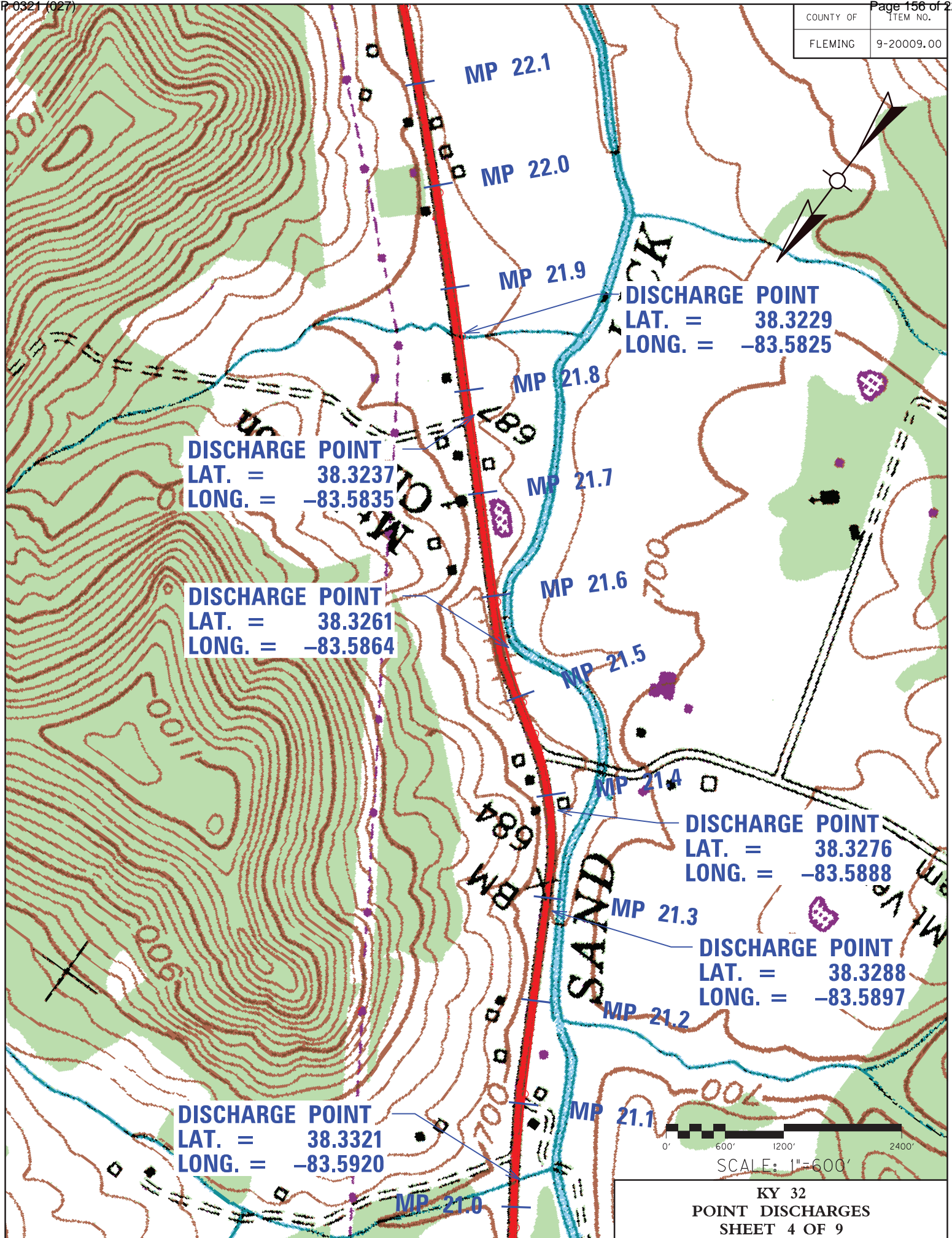
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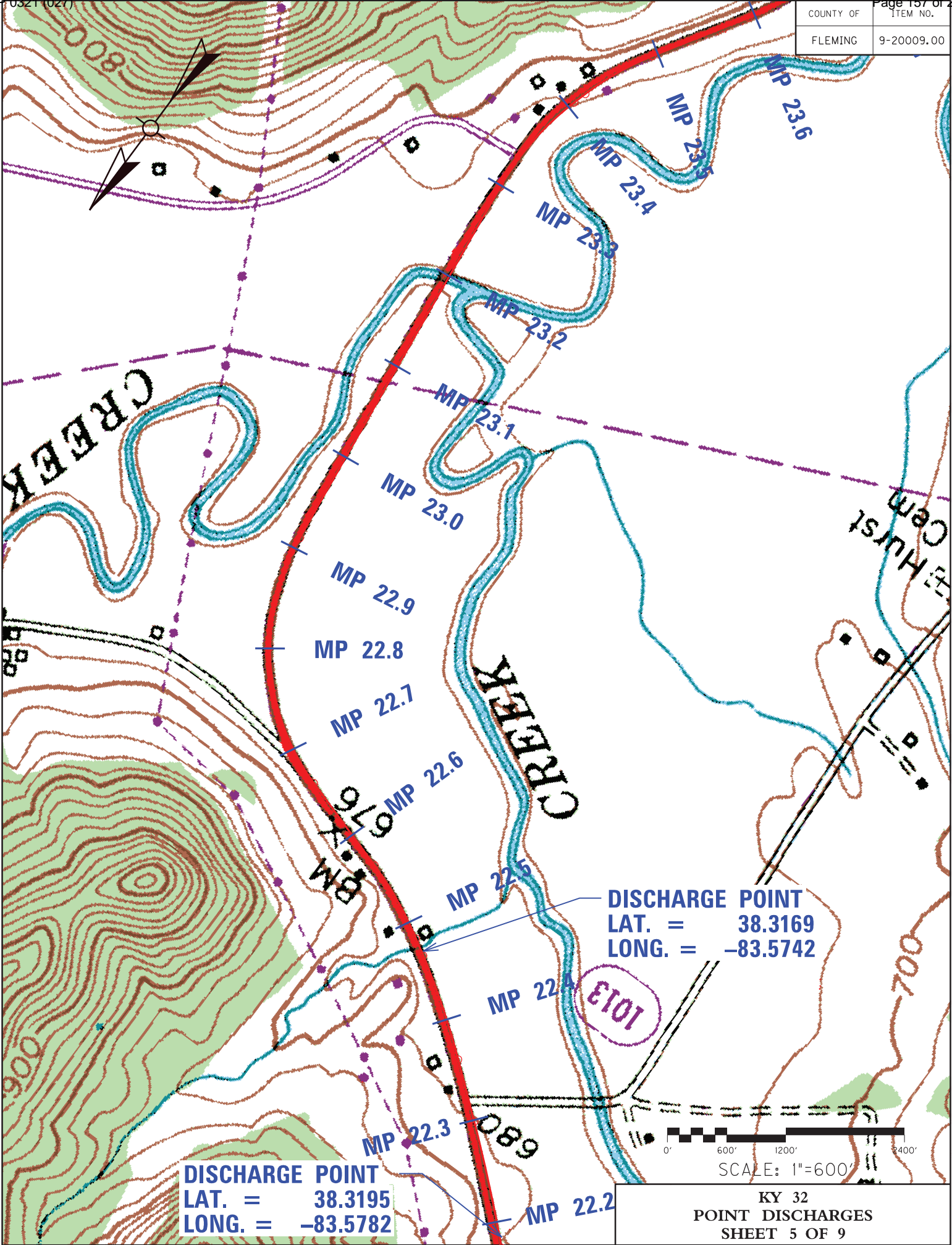
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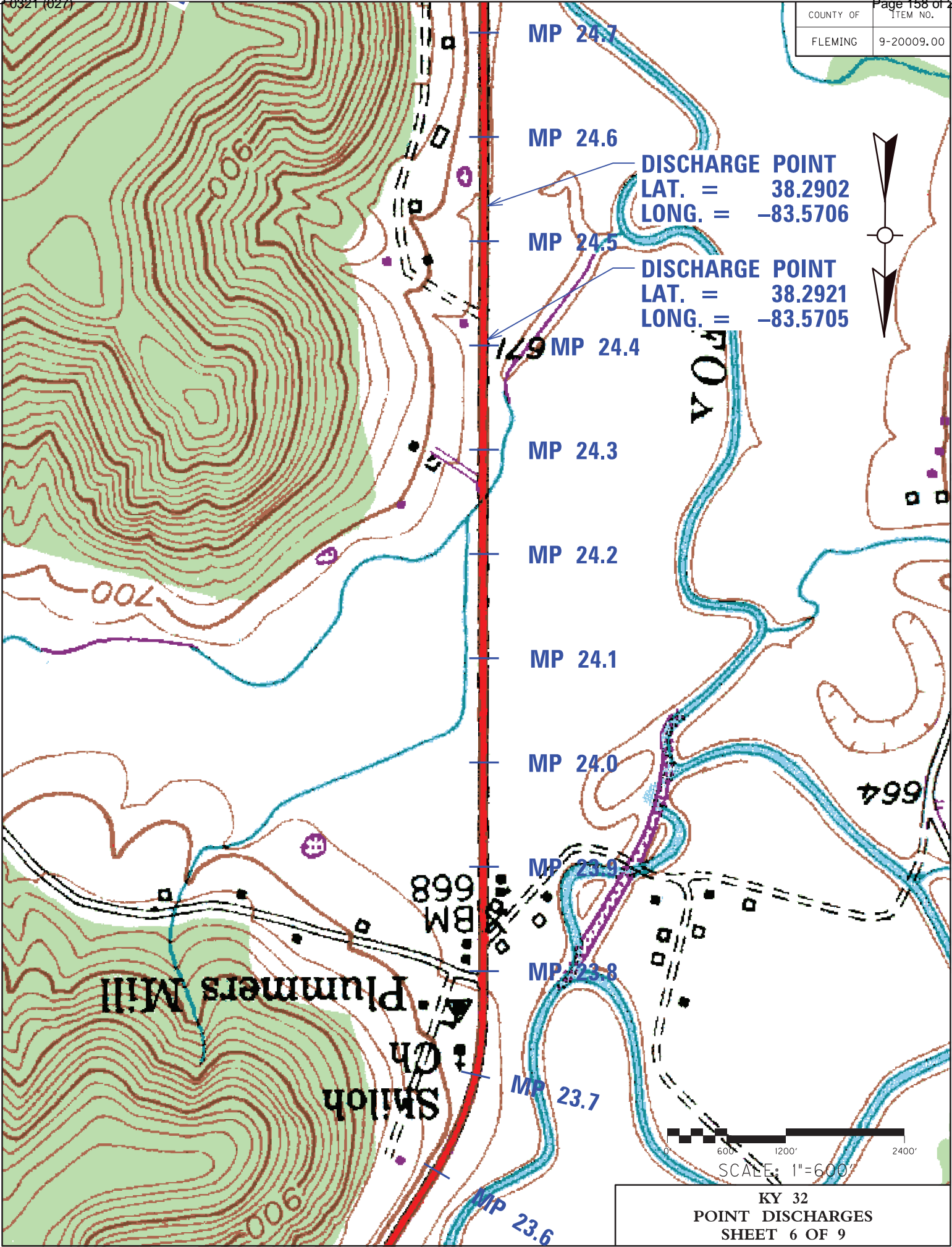
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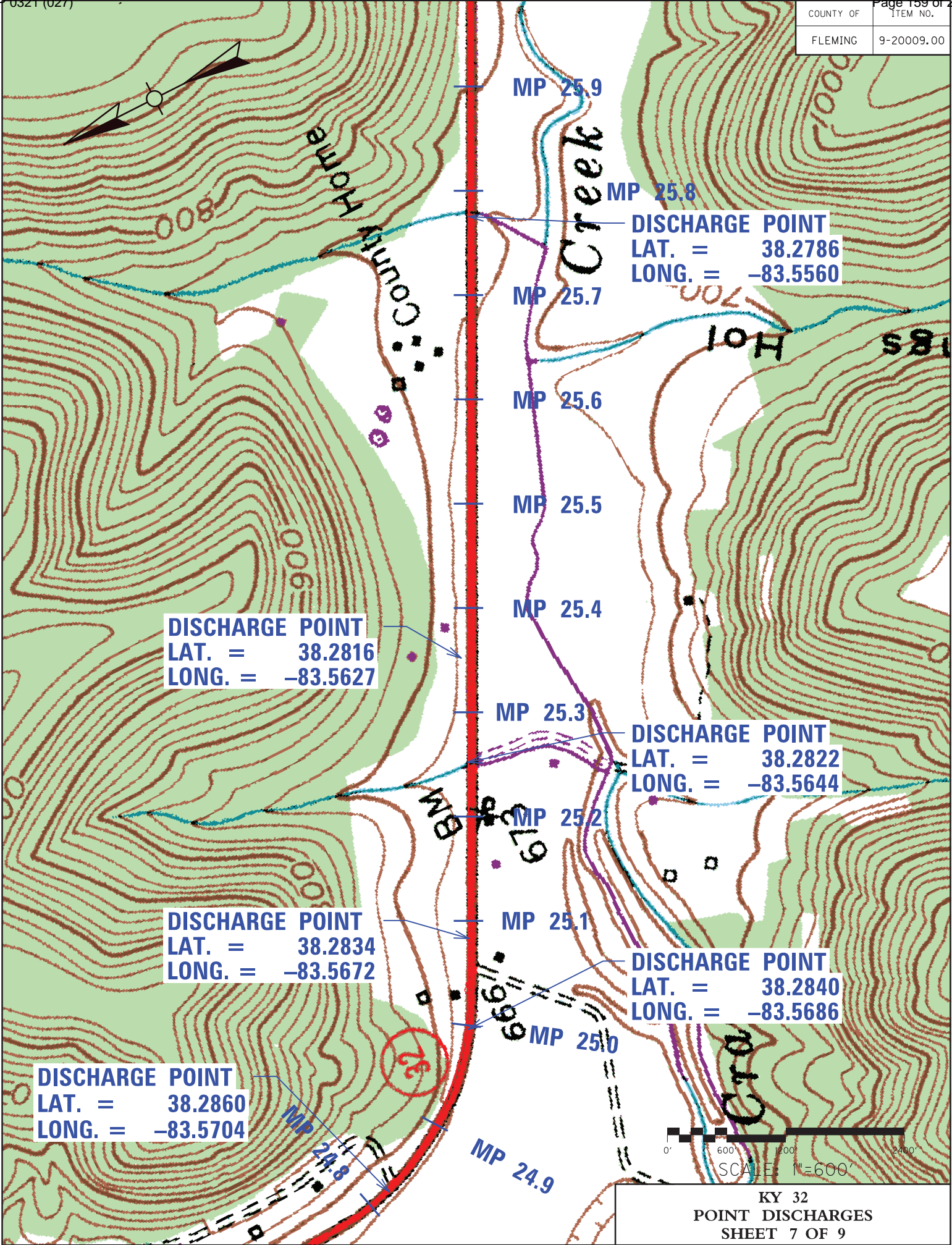
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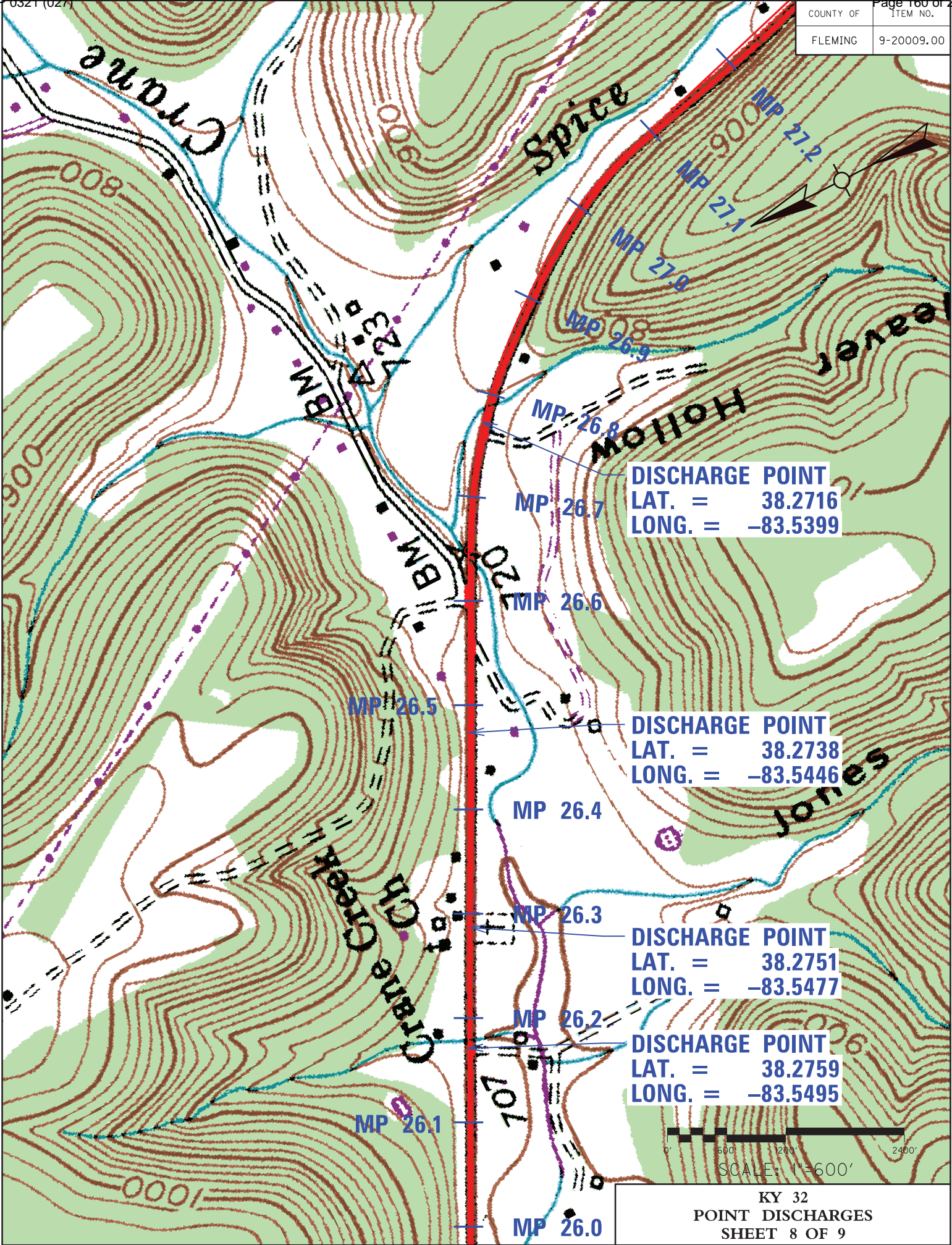
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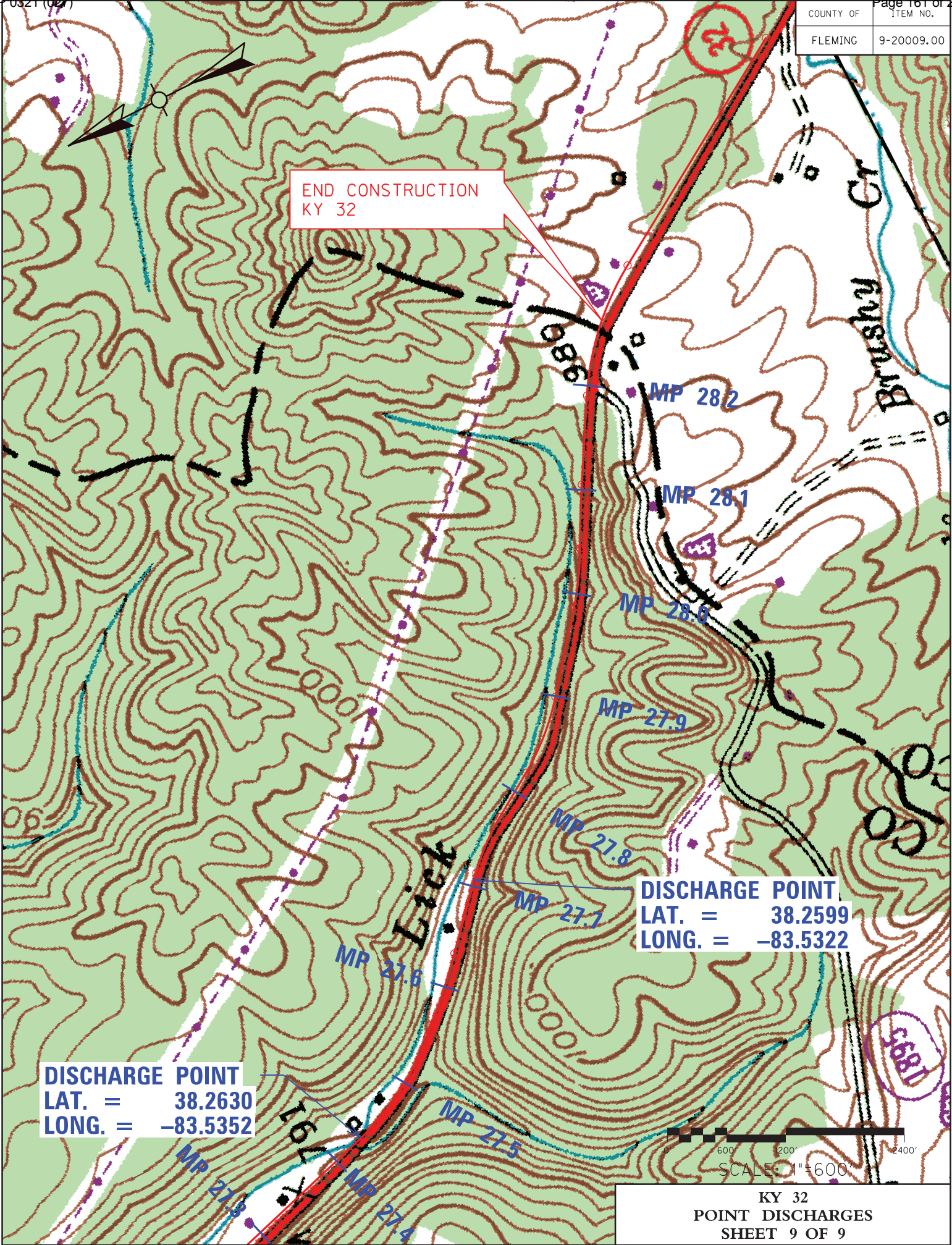
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COUNTY OF	ITEM NO.
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KYTC BMP Plan for Project CID ## - #####; Item No. 9-20009



Kentucky Transportation Cabinet

Highway District __ 9

And

_____ (2), Construction

Kentucky Pollutant Discharge Elimination System

Permit KYR10

Best Management Practices (BMP) plan

Groundwater protection plan

For Highway Construction Activities

For

Fleming County; KY 32

Address Pavement Condition of AC Pavement

Project: CID ## - #####; Item No. 9-20009

KYTC BMP Plan for Project CID ## - #####; Item No. 9-20009

Project information

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

1. Owner – Kentucky Transportation Cabinet, District __ **9**
2. Resident Engineer: (2)
3. Contractor name: (2)
Address: (2)

Phone number: (2)
Contact: (2)
Contractors agent responsible for compliance with the KPDES permit requirements (3):
4. Project Control Number (2)
5. Route (Address) **KY 32**
6. Latitude/Longitude (project mid-point) **38/19/22; -83/34/56**
7. County (project mid-point) **Fleming**
8. Project start date (date work will begin): (2)
9. Projected completion date: (2)

KYTC BMP Plan for Project CID ## - #####; Item No. 9-20009

A. Site description:

1. Nature of Construction Activity (from letting project description) **Address Pavement Condition of AC Pavement**
2. Order of major soil disturbing activities (2) and (3)
3. Projected volume of material to be moved **51585 cubic yards**
4. Estimate of total project area (acres) **15 acres**
5. Estimate of area to be disturbed (acres) **15 acres**
6. Post construction runoff coefficient will be included in the project drainage folder. Persons needing information pertaining to the runoff coefficient will contact the resident engineer to request this information.
7. Data describing existing soil condition **None known. & (2)**
8. Data describing existing discharge water quality (if any) **None known. & (2)**
9. Receiving water name **Sand Lick Creek, Fox Creek, Indian Creek, Crane Creek, & Spice Lick**
10. TMDLs and Pollutants of Concern in Receiving Waters: **Crane Creek and Fox Creek are on the 2016 KY Division of Water 303(d) list of impaired waters, but neither of them had a TMDL at that time. The other streams did not appear on the list.**
11. Site map – Project layout sheet plus the erosion control sheets in the project plans that depict Disturbed Drainage Areas (DDAs) and related information. These sheets depict the existing project conditions with areas delineated by DDA (drainage area bounded by watershed breaks and right of way limits), the storm water discharge locations (either as a point discharge or as overland flow) and the areas that drain to each discharge point. These plans define the limits of areas to be disturbed and the location of control measures. Controls will be either site specific as designated by the designer or will be annotated by the contractor and resident engineer before disturbance commences. The project layout sheet shows the surface waters and wetlands.

KYTC BMP Plan for Project CID ## - #####; Item No. 9-20009

12. Potential sources of pollutants:

The primary source of pollutants is solids that are mobilized during storm events. Other sources of pollutants include oil/fuel/grease from servicing and operating construction equipment, concrete washout water, sanitary wastes and trash/debris. (3)

B. Sediment and Erosion Control Measures:

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

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

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

KYTC BMP Plan for Project CID ## - #####; Item No. 9-20009

- At the beginning of the project, all DDAs for the project will be inspected for areas that are a source of storm water pollutants. Areas that are a source of pollutants will receive appropriate cover or BMPs to arrest the introduction of pollutants into storm water. Areas that have not been opened by the contractor will be inspected periodically (once per month) to determine if there is a need to employ BMPs to keep pollutants from entering storm water.
- Clearing and Grubbing – The following BMP's will be considered and used where appropriate.
 - Leaving areas undisturbed when possible.
 - Silt basins to provide silt volume for large areas.
 - Silt Traps Type A for small areas.
 - Silt Traps Type C in front of existing and drop inlets which are to be saved
 - Diversion ditches to catch sheet runoff and carry it to basins or traps or to divert it around areas to be disturbed.
 - Brush and/or other barriers to slow and/or divert runoff.
 - Silt fences to catch sheet runoff on short slopes. For longer slopes, multiple rows of silt fence may be considered.
 - Temporary Mulch for areas which are not feasible for the fore mentioned types of protections.
 - Non-standard or innovative methods.
- Cut & Fill and placement of drainage structures - The BMP Plan will be modified to show additional BMP's such as:
 - Silt Traps Type B in ditches and/or drainways as they are completed
 - Silt Traps Type C in front of pipes after they are placed
 - Channel Lining
 - Erosion Control Blanket
 - Temporary mulch and/or seeding for areas where construction activities will be ceased for 21 days or more.
 - Non-standard or innovative methods
- Profile and X-Section in place – The BMP Plan will be modified to show elimination of BMP's which had to be removed and the addition of new BMP's as the roadway was shaped. Probably changes include:
 - Silt Trap Type A, Brush and/or other barriers, Temporary Mulch, and any other BMP which had to be removed for final grading to take place.
 - Additional Silt Traps Type B and Type C to be placed as final drainage patterns are put in place.
 - Additional Channel Lining and/or Erosion Control Blanket.
 - Temporary Mulch for areas where Permanent Seeding and Protection cannot be done within 21 days.
 - Special BMP's such as Karst Policy

KYTC BMP Plan for Project CID ## - #####; Item No. 9-20009

- Finish Work (Paving, Seeding, Protect, etc.) – A final BMP Plan will result from modifications during this phase of construction. Probably changes include:
 - Removal of Silt Traps Type B from ditches and drainways if they are protected with other BMP's which are sufficient to control erosion, i.e. Erosion Control Blanket or Permanent Seeding and Protection on moderate grades.
 - Permanent Seeding and Protection
 - Placing Sod
 - Planting trees and/or shrubs where they are included in the project
- BMP's including Storm Water Management Devices such as velocity dissipation devices and Karst policy BMP's to be installed during construction to control the pollutants in storm water discharges that will occur after construction has been completed are : **None.**

C. Other Control Measures

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

2. Waste Materials

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

3. Hazardous Waste

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

KYTC BMP Plan for Project CID ## - #####; Item No. 9-20009

4. Spill Prevention

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

➤ **Good Housekeeping:**

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

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

➤ **Hazardous Products:**

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

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

The following product-specific practices will be followed onsite:

➤ **Petroleum Products:**

KYTC BMP Plan for Project CID ## - #####; Item No. 9-20009

Vehicles and equipment that are fueled and maintained on site will be monitored for leaks, and receive regular preventative maintenance to reduce the chance of leakage. Petroleum products onsite will be stored in tightly sealed containers, which are clearly labeled and will be protected from exposure to weather.

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

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

➤ **Fertilizers:**

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

➤ **Paints:**

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

➤ **Concrete Truck Washout:**

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

➤ **Spill Control Practices**

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

KYTC BMP Plan for Project CID ## - #####; Item No. 9-20009

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

D. Other State and Local Plans

This BMP plan shall include any requirements specified in sediment and erosion control plans, storm water management plans or permits that have been approved by other state or local officials. Upon submittal of the NOI, other requirements for surface water protection are incorporated by reference into and are enforceable under this permit (even if they are not specifically included in this BMP plan). This provision does not apply to master or comprehensive plans, non-enforceable guidelines or technical guidance documents that are not identified in a specific plan or permit issued for the construction site by state or local officials. **None.**

E. Maintenance

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

KYTC BMP Plan for Project CID ## - #####; Item No. 9-20009

the purpose of post construction storm water management with specific guidance for any non-routine maintenance. **None.**

F. Inspections

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

- All erosion prevention and sediment control measures will be inspected at least once each week and following any rain of one-half inch or more.
- Inspections will be conducted by individuals that have successfully completed the KEPSC-RI course as required by Section 213.02.02 of the Standard Specifications for Road and Bridge Construction, current edition.
- Inspection reports will be written, signed, dated, and kept on file.
- Areas at final grade will be seeded and mulched within 14 days.
- Areas that are not at final grade where construction has ceased for a period of 21 days or longer and soil stock piles shall receive temporary mulch no later than 14 days from the last construction activity in that area.
- All measures will be maintained in good working order; if a repair is necessary, it will be initiated within 24 hours of being reported.
- Built-up sediment will be removed from behind the silt fence before it has reached halfway up the height of the fence.
- Silt fences will be inspected for bypassing, overtopping, undercutting, depth of sediment, tears, and to ensure attachment to secure posts.
- Sediment basins will be inspected for depth of sediment, and built-up sediment will be removed when it reaches 50 percent of the design capacity and at the end of the job.
- Diversion dikes and berms will be inspected and any breaches promptly repaired. Areas that are eroding or scouring will be repaired and re-seeded / mulched as needed.
- Temporary and permanent seeding and mulching will be inspected for bare spots, washouts, and healthy growth. Bare or eroded areas will be repaired as needed.
- All material storage and equipment servicing areas that involve the management of bulk liquids, fuels, and bulk solids will be inspected weekly for conditions that represent a release or possible release of pollutants to the environment.

KYTC BMP Plan for Project CID ## - #####; Item No. 9-20009

G. Non – Storm Water discharges

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

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

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

H. Groundwater Protection Plan (3)

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

- Contractors statement: (3)

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

_____ 2. (e) land treatment or land disposal of a pollutant;

_____ 2. (f) Storing, ..., or related handling of hazardous waste, solid waste or special waste, ..., in tanks, drums, or other containers, or in piles, (This does not include wastes managed in a container placed for collection and removal of municipal solid waste for disposal off site);

_____ 2. (g) Handling of materials in bulk quantities (equal or greater than 55 gallons or 100 pounds net dry weight transported held in an individual container) that, if released to the environment, would be a pollutant;

_____ 2. (j) Storing or related handling of road oils, dust suppressants,, at a central location;

_____ 2. (k) Application or related handling of road oils, dust suppressants or deicing materials, (does not include use of chloride-based deicing materials applied to roads or parking lots);

KYTC BMP Plan for Project CID ## - #####; Item No. 9-20009

_____ 2. (m) Installation, construction, operation, or abandonment of wells, bore holes, or core holes, (this does not include bore holes for the purpose of explosive demolition);

Or, check the following only if there are no qualifying activities

_____ There are no activities for this project as listed in 401 KAR 5:037 Section 2 that require the preparation and implementation of a groundwater protection plan.

The contractor is responsible for the preparation of a plan that addresses the

401 KAR 5:037 Section 3. (3) Elements of site specific groundwater protection plan:

- (a) General information about this project is covered in the Project information;
- (b) Activities that require a groundwater protection plan have been identified above;
- (c) Practices that will protect groundwater from pollution are addressed in section C. Other control measures.
- (d) Implementation schedule – all practices required to prevent pollution of groundwater are to be in place prior to conducting the activity;
- (e) Training is required as a part of the ground water protection plan. All employees of the contractor, sub-contractor and resident engineer personnel will be trained to understand the nature and requirements of this plan as they pertain to their job function(s). Training will be accomplished within one week of employment and annually thereafter. A record of training will be maintained by the contractor with a copy provide to the resident engineer.
- (f) Areas of the project and groundwater plan activities will be inspected as part of the weekly sediment and erosion control inspections
- (g) Certification (see signature page.)

Contractor and Resident Engineer Plan certification

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

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

Resident Engineer and Contractor Certification:

(2) Resident Engineer signature

Signed _____ title _____,
 Typed or printed name² _____ signature _____

(3) Signed _____ title _____,
 Typed or printed name¹ _____ signature _____

1. Contractors Note: to be signed by a person who is the owner, a responsible corporate officer, a general partner or the proprietor or a person designated to have the authority to sign reports by such a person in accordance with 401 KAR 5:060 Section 9. This delegation shall be in writing to: Manager, Surface Water Permits Branch, Division of Water, 300 Sower Blvd, Frankfort, Kentucky 40601. Reference the Contract ID Number (CID), KYTC Item No., and KPDES number when one has been issued.

2. KyTC note: to be signed by the Chief District Engineer or a person designated to have the authority to sign reports by such a person (usually the resident engineer) in accordance with 401 KAR 5:060 Section 9. This delegation shall be in writing to: Manager, Surface Water Permits Branch, Division of Water, 300 Sower Blvd, Frankfort, Kentucky 40601. Reference the Contract ID Number (CID), KYTC Item No., and KPDES number when one has been issued.

Sub-Contractor Certification

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

Subcontractor

Name:
Address:
Address:

Phone:

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

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

Signed _____title_____, _____
Typed or printed name¹signature

1. Sub Contractor Note: to be signed by a person who is the owner, a responsible corporate officer, a general partner or the proprietor or a person designated to have the authority to sign reports by such a person in accordance with 401 KAR 5:060 Section 9. This delegation shall be in writing to: Manager, Surface Water Permits Branch, Division of Water, 300 Sower Blvd, Frankfort, Kentucky 40601. Reference the Contract ID Number (CID), KYTC Item No., and KPDES number when one has been issued.

Contract Id: _____ Contractor: _____

Section Engineer: _____ District & County: _____

DESCRIPTION	UNIT	QTY LEAVING PROJECT	QTY RECEIVED@BB YARD
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.

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 2019* 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.

11

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

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

*Insert numerals as directed by the Engineer.

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

2.3 Power.

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

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

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

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

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

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

11
the actual number of individual signs acceptably furnished and operated during the project. The Department will not measure signs replaced due to damage or rejection.

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

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

Effective June 15, 2012

PART III

EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

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 contacting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

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

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

- (1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
- (2) the prime contractor remains responsible for the quality of the work of the leased employees;
- (3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and
- (4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is

evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

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

VII. SAFETY: ACCIDENT PREVENTION

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

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

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

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

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

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

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

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200.

1. Instructions for Certification – First Tier Participants:

- a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.
- b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this

covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

- (1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;
- (2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- (3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and
- (4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

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

2. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which

this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the

department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

- 1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.
- 2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

- 1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:
 - a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
 - b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- 2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.
- 3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

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

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

**KENTUCKY TRANSPORTATION CABINET
DEPARTMENT OF HIGHWAYS**

**EMPLOYMENT REQUIREMENTS
RELATING TO
NONDISCRIMINATION OF EMPLOYEES
(APPLICABLE TO FEDERAL-AID SYSTEM CONTRACTS)**

**AN ACT OF THE KENTUCKY GENERAL ASSEMBLY
TO PREVENT DISCRIMINATION IN EMPLOYMENT**

**KRS CHAPTER 344
EFFECTIVE JUNE 16, 1972**

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

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

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

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

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

Revised: January 25, 2017

Standard Title VI/Non-Discrimination Assurances

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

1. **Compliance with Regulations:** The contractor (hereinafter includes consultants) will comply with the Acts and the Regulations relative to Non-discrimination in Federally-assisted programs of the U.S. Department of Transportation, **Federal Highway Administration**, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.
2. **Non-discrimination:** The contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor will not participate directly or indirectly in the discrimination prohibited by the Acts and the Regulations, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR Part 21.
3. **Solicitations for Subcontracts, Including Procurements of Materials and Equipment:** In all solicitations, either by competitive bidding, or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the contractor of the contractor's obligations under this contract and the Acts and the Regulations relative to Non-discrimination on the grounds of race, color, or national origin.
4. **Information and Reports:** The contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Recipient or the **Federal Highway Administration** to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the contractor will so certify to the Recipient or the **Federal Highway Administration**, as appropriate, and will set forth what efforts it has made to obtain the information.
5. **Sanctions for Noncompliance:** In the event of a contractor's noncompliance with the Non-discrimination provisions of this contract, the Recipient will impose such contract sanctions as it or the **Federal Highway Administration** may determine to be appropriate, including, but not limited to:
 - a. withholding payments to the contractor under the contract until the contractor complies; and/or
 - b. cancelling, terminating, or suspending a contract, in whole or in part.
6. **Incorporation of Provisions:** The contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The contractor will take action with respect to any subcontract or procurement as the Recipient or the **Federal Highway Administration** may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the contractor may request the Recipient to enter into any litigation to protect the interests of the Recipient. In addition, the contractor may request the United States to enter into the litigation to protect the interests of the United States.

Standard Title VI/Non-Discrimination Statutes and Authorities

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the “contractor”) agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d *et seq.*, 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21;
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 *et seq.*), (prohibits discrimination on the basis of sex);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 *et seq.*), as amended, (prohibits discrimination on the basis of disability); and 49 CFR Part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 *et seq.*), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms “programs or activities” to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131 -- 12189) as implemented by Department of Transportation regulations at 49 C.F.R. parts 37 and 38;
- The Federal Aviation Administration’s Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures non-discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 *et seq.*).

EXECUTIVE BRANCH CODE OF ETHICS

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

KRS 11A.040 (7) provides:

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

KRS 11A.040 (9) states:

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

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

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

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

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

In case of doubt, the law permits you to request an advisory opinion from the Executive Branch Ethics Commission, 3 Fountain Place, Frankfort, Kentucky 40601; telephone (502) 564-7954.

Revised: January 27, 2017

General Decision Number: KY190038 02/15/2019 KY38

Superseded General Decision Number: KY20180100

State: Kentucky

Construction Type: Highway

Counties: Anderson, Bath, Bourbon, Boyd, Boyle, Bracken, Breckinridge, Bullitt, Carroll, Carter, Clark, Elliott, Fayette, Fleming, Franklin, Gallatin, Grant, Grayson, Greenup, Hardin, Harrison, Henry, Jefferson, Jessamine, Larue, Lewis, Madison, Marion, Mason, Meade, Mercer, Montgomery, Nelson, Nicholas, Oldham, Owen, Robertson, Rowan, Scott, Shelby, Spencer, Trimble, Washington and Woodford Counties in Kentucky.

HIGHWAY CONSTRUCTION PROJECTS (excluding tunnels, building structures in rest area projects & railroad construction; bascule, suspension & spandrel arch bridges designed for commercial navigation, bridges involving marine construction; and other major bridges).

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

Modification Number	Publication Date
0	01/04/2019
1	02/15/2019

BRIN0004-003 06/01/2017

BRECKENRIDGE COUNTY

Rates Fringes

BRICKLAYER.....	\$ 26.80	12.38

BRKY0001-005 06/01/2017		

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

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

BRKY0002-006 06/01/2017		

BRACKEN, GALLATIN, GRANT, MASON & ROBERTSON COUNTIES:

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

BRKY0007-004 06/01/2017		

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

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

BRKY0017-004 06/01/2017		

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

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

CARP0064-001 05/01/2015		

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

ELEC0212-008 06/04/2018

BRACKEN, GALLATIN and GRANT COUNTIES

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

* ELEC0212-014 11/26/2018		

BRACKEN, GALLATIN & GRANT COUNTIES:

	Rates	Fringes
Sound & Communication Technician.....	\$ 24.35	10.99

ELEC0317-012 06/01/2018		

BOYD, CARTER, ELLIOT & ROWAN COUNTIES:

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

ELEC0369-007 05/30/2018		

ANDERSON, BATH, BOURBON, BOYLE, BRECKINRIDGE, BULLITT, CARROLL, CLARK, FAYETTE, FRAONKLIN, GRAYSON, HARDIN, HARRISON, HENRY, JEFFERSON, JESSAMINE, LARUE, MADISON, MARION, MEADE, MERCER, MONTGOMERY, NELSON, NICHOLAS, OLDHAM, OWEN, ROBERTSON, SCOTT, SHELBY, SPENCER, TRIMBLE, WASHINGTON, & WOODFORD COUNTIES:

	Rates	Fringes
ELECTRICIAN.....	\$ 31.66	17.01

* ELEC0575-002 12/31/2018		

FLEMING, GREENUP, LEWIS & MASON COUNTIES:

	Rates	Fringes
ELECTRICIAN.....	\$ 32.75	16.69

ENGI0181-018 07/01/2017		

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

OPERATING ENGINEER CLASSIFICATIONS

GROUP 1 - A-Frame Winch Truck; Auto Patrol; Backfiller; Batcher Plant; Bituminous Paver; Bituminous Transfer Machine; Boom Cat; Bulldozer; Mechanic; Cableway; Carry-All Scoop; Carry Deck Crane; Central Compressor Plant; Cherry Picker; Clamshell; Concrete Mixer (21 cu. ft. or Over); Concrete Paver; Truck-Mounted Concrete Pump; Core Drill; Crane; Crusher Plant; Derrick; Derrick Boat; Ditching & Trenching Machine; Dragline; Dredge Operator; Dredge Engineer; Elevating Grader & Loaders; Grade-All; Gurries; Heavy Equipment Robotics Operator/Mechanic; High Lift; Hoe-Type Machine; Hoist (Two or More Drums); Hoisting Engine (Two or More Drums); Horizontal Directional Drill

Operator; Hydrocrane; Hyster; KeCal Loader; LeTourneau; Locomotive; Mechanic; Mechanically Operated Laser Screed; Mechanic Welder; Mucking Machine; Motor Scraper; Orangepeel Bucket; Overhead Crane; Piledriver; Power Blade; Pumpcrete; Push Dozer; Rock Spreader, attached to equipment; Rotary Drill; Roller (Bituminous); Rough Terrain Crane; Scarifier; Scoopmobile; Shovel; Side Boom; Subgrader; Tailboom; Telescoping Type Forklift; Tow or Push Boat; Tower Crane (French, German & other types); Tractor Shovel; Truck Crane; Tunnel Mining Machines, including Moles, Shields or similar types of Tunnel Mining Equipment

GROUP 2 - Air Compressor (Over 900 cu. ft. per min.); Bituminous Mixer; Boom Type Tamping Machine; Bull Float; Concrete Mixer (Under 21 cu. ft.); Dredge Engineer; Electric Vibrator; Compactor/Self-Propelled Compactor; Elevator (One Drum or Buck Hoist); Elevator (When used to Hoist Building Material); Finish Machine; Firemen & Hoist (One Drum); Flexplane; Forklift (Regardless of Lift Height); Form Grader; Joint Sealing Machine; Outboard Motor Boat; Power Sweeper (Riding Type); Roller (Rock); Ross Carrier; Skid Mounted or Trailer Mounted Concrete Pump; Skid Steer Machine with all Attachments; Switchman or Brakeman; Throttle Valve Person; Tractair & Road Widening Trencher; Tractor (50 H.P. or Over); Truck Crane Oiler; Tugger; Welding Machine; Well Points; & Whirley Oiler

GROUP 3 - All Off Road Material Handling Equipment, including Articulating Dump Trucks; Greaser on Grease Facilities servicing Heavy Equipment

GROUP 4 - Bituminous Distributor; Burlap & Curing Machine; Cement Gun; Concrete Saw; Conveyor; Deckhand Oiler; Grout Pump; Hydraulic Post Driver; Hydro Seeder; Mud Jack; Oiler; Paving Joint Machine; Power Form Handling Equipment; Pump; Roller (Earth); Steerman; Tamping Machine; Tractor (Under 50 H.P.); & Vibrator

CRANES - with booms 150 ft. & Over (Including JIB), and where the length of the boom in combination with the length of the piling leads equals or exceeds 150 ft. - \$1.00 over Group 1 rate

EMPLOYEES ASSIGNED TO WORK BELOW GROUND LEVEL ARE TO BE PAID 10% ABOVE BASIC WAGE RATE. THIS DOES NOT APPLY TO OPEN CUT WORK.

IRON0044-009 06/01/2018

BRACKEN, GALLATIN, GRANT, HARRISON, ROBERTSON,
BOURBON (Northern third, including Townships of Jackson, Millersburg, Ruddel Mills & Shawhan);
CARROLL (Eastern third, including the Township of Ghent);
FLEMING (Western part, excluding Townships of Beechburg, Colfax, Elizaville, Flemingsburg, Flemingsburg Junction, Foxport, Grange City, Hillsboro, Hilltop, Mount Carmel, Muses Mills, Nepton, Pecksridge, Plummers Landing, Plummers Mill, Poplar Plains, Ringos Mills, Tilton & Wallingford);
MASON (Western two-thirds, including Townships of Dover,

Lewisburg, Mays Lick, Maysville, Minerva, Moranburg, Murphysville, Ripley, Sardis, Shannon, South Ripley & Washington);

NICHOLAS (Townships of Barefoot, Barterville, Carlisle, Ellisville, Headquarters, Henryville, Morningglory, Myers & Oakland Mills);

OWEN (Townships of Beechwood, Bromley, Fairbanks, Holbrook, Jonesville, Long Ridge, Lusby's Mill, New, New Columbus, New Liberty, Owenton, Poplar Grove, Rockdale, Sanders, Teresita & Wheatley);

SCOTT (Northern two-thirds, including Townships of Biddle, Davis, Delaplain, Elmville, Longlick, Muddy Ford, Oxford, Rogers Gap, Sadieville, Skinnersburg & Stonewall)

	Rates	Fringes
IRONWORKER		
Fence Erector.....	\$ 26.76	21.20
Structural.....	\$ 28.17	21.20

IRON0070-006 06/01/2018		

ANDERSON, BOYLE, BRECKINRIDGE, BULLITT, FAYETTE, FRANKLIN, GRAYSON, HARDIN, HENRY, JEFFERSON, JESSAMINE, LARUE, MADISON, MARION, MEADE, MERCER, NELSON, OLDHAM, SHELBY, SPENCER, TRIMBLE, WASHINGTON & WOODFORD

BOURBON (Southern two-thirds, including Townships of Austerlity, Centerville, Clintonville, Elizabeth, Hutchison, Littlerock, North Middletown & Paris);

CARROLL (Western two-thirds, including Townships of Carrollton, Easterday, English, Locust, Louis, Prestonville & Worthville);

CLARK (Western two-thirds, including Townships of Becknerville, Flanagan, Ford, Pine Grove, Winchester & Wyandotte);

OWEN (Eastern eighth, including Townships of Glenmary, Gratz, Monterey, Perry Park & Tacketts Mill);

SCOTT (Southern third, including Townships of Georgetown, Great Crossing, Newtown, Stampling Ground & Woodlake);

	Rates	Fringes
IRONWORKER.....	\$ 28.79	22.50

IRON0769-007 06/01/2018		

BATH, BOYD, CARTER, ELLIOTT, GREENUP, LEWIS, MONTGOMERY & ROWAN

CLARK (Eastern third, including townships of Bloomingdale, Hunt, Indian Fields, Kiddville, Loglick, Rightangele & Thomson);

FLEMING (Townships of Beechburg, Colfax, Elizaville, Flemingsburg, Flemingsburg Junction, Foxport, Grange City, Hillsboro, Hilltop, Mount Carmel, Muses Mills, Nepton, Pecksville, Plummers Landing, Plummers Mill, Poplar Plains, Ringos Mills, Tilton & Wallingford);

MASON (Eastern third, including Townships of Helena, Marshall, Orangeburg, Plumville & Springdale);

NICHOLAS (Eastern eighth, including the Township of Moorefield Sprout)

	Rates	Fringes
IRONWORKER		
ZONE 1.....	\$ 31.67	25.27
ZONE 2.....	\$ 31.67	25.27
ZONE 3.....	\$ 31.67	25.27
ZONE 1 - (no base rate increase) Up to 10 mile radius of Union Hall, 1643 Greenup Ave, Ashland, KY.		
ZONE 2 - (add \$0.40 per hour to base rate) 10 to 50 mile radius of Union Hall, 1643 Greenup Ave, Ashland, KY.		
ZONE 3 - (add \$2.00 per hour to base rate) 50 mile radius & over of Union Hall, 1643 Greenup Ave, Ashland, KY.		

LABO0189-003 07/01/2018

BATH, BOURBON, BOYD, BOYLE, BRACKEN, CARTER, CLARK, ELLIOTT, FAYETTE, FLEMING, FRANKLIN, GALLATIN, GRANT, GREENUP, HARRISON, JESSAMINE, LEWIS, MADISON, MASON, MERCER, MONTGOMERY, NICHOLAS, OWEN, ROBERTSON, ROWAN, SCOTT, & WOOLFORD COUNTIES

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

LABORERS CLASSIFICATIONS

- GROUP 1 - Aging & Curing of Concrete; Asbestos Abatement Worker; Asphalt Plant; Asphalt; Batch Truck Dump; Carpenter Tender; Cement Mason Tender; Cleaning of Machines; Concrete; Demolition; Dredging; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level D; Flagperson; Grade Checker; Hand Digging & Hand Back Filling; Highway Marker Placer; Landscaping, Mesh Handler & Placer; Puddler; Railroad; Rip-rap & Grouter; Right-of-Way; Sign, Guard Rail & Fence Installer; Signal Person; Sound Barrier Installer; Storm & Sanitary Sewer; Swamper; Truck Spotter & Dumper; Wrecking of Concrete Forms; General Cleanup
- GROUP 2 - Batter Board Man (Sanitary & Storm Sewer); Brickmason Tender; Mortar Mixer Operator; Scaffold Builder; Burner & Welder; Bushhammer; Chain Saw Operator; Concrete Saw Operator; Deckhand Scow Man; Dry Cement Handler; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level C; Forklift Operator for Masonary; Form Setter; Green Concrete Cutting; Hand Operated Grouter & Grinder Machine Operator; Jackhammer; Pavement Breaker; Paving Joint Machine; Pipelayer; Plastic Pipe Fusion; Power Driven Georgia Buggy & Wheel Barrow; Power Post Hole Digger; Precast Manhole Setter; Walk-Behind Tamper; Walk-Behind Trencher; Sand Blaster; Concrete Chipper; Surface Grinder; Vibrator Operator; Wagon Driller

GROUP 3 - Asphalt Luteman & Raker; Gunnite Nozzleman; Gunnite Operator & Mixer; Grout Pump Operator; Side Rail Setter; Rail Paved Ditches; Screw Operator; Tunnel (Free Air); Water Blaster

GROUP 4 - Caisson Worker (Free Air); Cement Finisher; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Levels A & B; Miner & Driller (Free Air); Tunnel Blaster; & Tunnel Mucker (Free Air); Directional & Horizontal Boring; Air Track Drillers (All Types); Powdermen & Blasters; Troxler & Concrete Tester if Laborer is Utilized

LABO0189-008 07/01/2018

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

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

LABORERS CLASSIFICATIONS

GROUP 1 - Aging & Curing of Concrete; Asbestos Abatement Worker; Asphalt Plant; Asphalt; Batch Truck Dump; Carpenter Tender; Cement Mason Tender; Cleaning of Machines; Concrete; Demolition; Dredging; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level D; Flagperson; Grade Checker; Hand Digging & Hand Back Filling; Highway Marker Placer; Landscaping, Mesh Handler & Placer; Puddler; Railroad; Rip-rap & Grouter; Right-of-Way; Sign, Guard Rail & Fence Installer; Signal Person; Sound Barrier Installer; Storm & Sanitary Sewer; Swamper; Truck Spotter & Dumper; Wrecking of Concrete Forms; General Cleanup

GROUP 2 - Batter Board Man (Sanitary & Storm Sewer); Brickmason Tender; Mortar Mixer Operator; Scaffold Builder; Burner & Welder; Bushhammer; Chain Saw Operator; Concrete Saw Operator; Deckhand Scow Man; Dry Cement Handler; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level C; Forklift Operator for Masonary; Form Setter; Green Concrete Cutting; Hand Operated Grouter & Grinder Machine Operator; Jackhammer; Pavement Breaker; Paving Joint Machine; Pipelayer; Plastic Pipe Fusion; Power Driven Georgia Buggy & Wheel Barrow; Power Post Hole Digger; Precast Manhole Setter; Walk-Behind Tamper; Walk-Behind Trencher; Sand Blaster; Concrete Chipper; Surface Grinder; Vibrator Operator; Wagon Driller

GROUP 3 - Asphalt Luteman & Raker; Gunnite Nozzleman; Gunnite Operator & Mixer; Grout Pump Operator; Side Rail Setter; Rail Paved Ditches; Screw Operator; Tunnel (Free

Air); Water Blaster

GROUP 4 - Caisson Worker (Free Air); Cement Finisher;
Environmental - Nuclear, Radiation, Toxic & Hazardous Waste
- Levels A & B; Miner & Driller (Free Air); Tunnel Blaster;
& Tunnel Mucker (Free Air); Directional & Horizontal
Boring; Air Track Drillers (All Types); Powdermen &
Blasters; Troxler & Concrete Tester if Laborer is Utilized

LABO0189-009 07/01/2018

BRECKINRIDGE & GRAYSON COUNTIES

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

LABORERS CLASSIFICATIONS

GROUP 1 - Aging & Curing of Concrete; Asbestos Abatement
Worker; Asphalt Plant; Asphalt; Batch Truck Dump; Carpenter
Tender; Cement Mason Tender; Cleaning of Machines;
Concrete; Demolition; Dredging; Environmental - Nuclear,
Radiation, Toxic & Hazardous Waste - Level D; Flagperson;
Grade Checker; Hand Digging & Hand Back Filling; Highway
Marker Placer; Landscaping, Mesh Handler & Placer; Puddler;
Railroad; Rip-rap & Grouter; Right-of-Way; Sign, Guard Rail
& Fence Installer; Signal Person; Sound Barrier Installer;
Storm & Sanitary Sewer; Swamper; Truck Spotter & Dumper;
Wrecking of Concrete Forms; General Cleanup

GROUP 2 - Batter Board Man (Sanitary & Storm Sewer);
Brickmason Tender; Mortar Mixer Operator; Scaffold Builder;
Burner & Welder; Bushhammer; Chain Saw Operator; Concrete
Saw Operator; Deckhand Scow Man; Dry Cement Handler;
Environmental - Nuclear, Radiation, Toxic & Hazardous Waste
- Level C; Forklift Operator for Masonary; Form Setter;
Green Concrete Cutting; Hand Operated Grouter & Grinder
Machine Operator; Jackhammer; Pavement Breaker; Paving
Joint Machine; Pipelayer; Plastic Pipe Fusion; Power Driven
Georgia Buggy & Wheel Barrow; Power Post Hole Digger;
Precast Manhole Setter; Walk-Behind Tamper; Walk-Behind
Trencher; Sand Blaster; Concrete Chipper; Surface Grinder;
Vibrator Operator; Wagon Driller

GROUP 3 - Asphalt Luteman & Raker; Gunnite Nozzleman;
Gunnite Operator & Mixer; Grout Pump Operator; Side Rail
Setter; Rail Paved Ditches; Screw Operator; Tunnel (Free
Air); Water Blaster

GROUP 4 - Caisson Worker (Free Air); Cement Finisher;
Environmental - Nuclear, Radiation, Toxic & Hazardous Waste
- Levels A & B; Miner & Driller (Free Air); Tunnel Blaster;
& Tunnel Mucker (Free Air); Directional & Horizontal
Boring; Air Track Drillers (All Types); Powdermen &

Blasters; Troxler & Concrete Tester if Laborer is Utilized

PAIN0012-005 06/11/2005

BATH, BOURBON, BOYLE, CLARK, FAYETTE, FLEMING, FRANKLIN,
HARRISON, JESSAMINE, MADISON, MERCER, MONTGOMERY, NICHOLAS,
ROBERTSON, SCOTT & WOODFORD COUNTIES:

	Rates	Fringes
PAINTER		
Bridge/Equipment Tender and/or Containment Builder..	\$ 18.90	5.90
Brush & Roller.....	\$ 21.30	5.90
Elevated Tanks; Steeplejack Work; Bridge & Lead Abatement.....	\$ 22.30	5.90
Sandblasting & Waterblasting.....	\$ 22.05	5.90
Spray.....	\$ 21.80	5.90

PAIN0012-017 05/01/2015

BRACKEN, GALLATIN, GRANT, MASON & OWEN COUNTIES:

	Rates	Fringes
PAINTER (Heavy & Highway Bridges - Guardrails - Lightpoles - Striping)		
Bridge Equipment Tender and Containment Builder.....	\$ 20.73	9.06
Brush & Roller.....	\$ 23.39	9.06
Elevated Tanks; Steeplejack Work; Bridge & Lead Abatement.....	\$ 24.39	9.06
Sandblasting & Water Blasting.....	\$ 24.14	9.06
Spray.....	\$ 23.89	9.06

PAIN0118-004 06/01/2018

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

	Rates	Fringes
PAINTER		
Brush & Roller.....	\$ 22.00	12.52
Spray, Sandblast, Power Tools, Waterblast & Steam Cleaning.....	\$ 23.00	12.52

PAIN1072-003 12/01/2018

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

RatesFringes

Painters:

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

PLUM0248-003 06/01/2018

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

RatesFringes

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

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

RatesFringes

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

BRECKINRIDGE, BULLITT, CARROLL (Western Half), FRANKLIN (Western three-fourths), GRAYSON, HARDIN, HENRY, JEFFERSON, LARUE, MARION, MEADE, NELSON, OLDHAM, SHELBY, SPENCER, TRIMBLE & WASHINGTON COUNTIES

RatesFringes

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

RatesFringes

Truck drivers:

GROUP 1.....	\$ 16.57	7.34
GROUP 2.....	\$ 16.68	7.34
GROUP 3.....	\$ 16.86	7.34
GROUP 4.....	\$ 16.96	7.34

TRUCK DRIVER CLASSIFICATIONS

GROUP 1 - Mobile Batch Truck Tender

GROUP 2 - Greaser; Tire Changer; & Mechanic Tender

GROUP 3 - Single Axle Dump; Flatbed; Semi-trailer or Pole Trailer when used to pull building materials and equipment; Tandem Axle Dump; Distributor; Mixer; & Truck Mechanic

GROUP 4 - Euclid & Other Heavy Earthmoving Equipment &

Lowboy; Articulator Cat; 5-Axle Vehicle; Winch & A-Frame
when used in transporting materials; Ross Carrier; Forklift
when used to transport building materials; & Pavement
Breaker

WELDERS - Receive rate prescribed for craft performing
operation to which welding is incidental.
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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing

the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

Fringe benefit amounts are applicable for all hours worked except when otherwise noted.

No laborer, workman or mechanic shall be paid at a rate less than that of a Journeyman except those classified as bona fide apprentices.

Apprentices or trainees shall be permitted to work as such subject to Administrative Regulations adopted by the Commissioner of Workplace Standards. Copies of these regulations will be furnished upon request from any interested person.

Before using apprentices on the job the contractor shall present to the Contracting Officer written evidence of registration of such employees in a program of a State apprenticeship and training agency approved and recognized by the U. S. Bureau of Apprenticeship and Training. In the absence of such a State agency, the contractor shall submit evidence of approval and registration by the U. S. Bureau of Apprenticeship and Training.

The contractor shall submit to the Contracting Officer, written evidence of the established apprenticeship-journeyman ratios and wage rates in the project area, which will be the basis for establishing such ratios and rates for the project under the applicable contract provisions.

TO: EMPLOYERS/EMPLOYEES

PREVAILING WAGE SCHEDULE:

The wages indicated on this wage schedule are the least permitted to be paid for the occupations indicated. When an employee works in more than one classification, the employer must record the number of hours worked in each classification at the prescribed hourly base rate.

OVERTIME:

Overtime is to be paid to an employee at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty (40) hours in such workweek. Wage violations or questions should be directed to the designated Engineer or the undersigned.

Director
Division of Construction Procurement
Frankfort, Kentucky 40622
502-564-3500

**NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION
TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY
(Executive Order 11246)**

1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Specifications" set forth herein.
2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate work force in each trade on all construction work in the covered area, are as follows:

GOALS FOR MINORITY PARTICIPATION IN EACH TRADE	GOALS FOR FEMALE PARTICIPATION IN EACH TRADE
9.2%	6.9%

These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally-assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and non-federally involved construction.

The Contractor's compliance with the Executive Order and the regulations in CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4, 3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within ten (10) working days of award of any construction subcontract in excess of \$10,000.00 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor; employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed. The notification shall be mailed to:

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

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

PART IV

INSURANCE

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

PART V

BID ITEMS

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00001		DGA BASE	206.00	TON		\$	
0020	00191		ASPHALT SCRATCH COURSE PG64-22	5,718.00	TON		\$	
0030	00212		CL2 ASPH BASE 1.00D PG64-22	11,519.00	TON		\$	
0040	00221		CL2 ASPH BASE 0.75D PG64-22	28,190.00	TON		\$	
0050	00301		CL2 ASPH SURF 0.38D PG64-22	5,176.00	TON		\$	
0055	00356		ASPHALT MATERIAL FOR TACK (ADDED: 7-23-19)	178.00	TON		\$	
0060	00387		CL3 ASPH SURF 0.38B PG76-22	12,992.00	TON		\$	
0070	02677		ASPHALT PAVE MILLING & TEXTURING	29,085.00	TON		\$	
0080	02696		SHOULDER RUMBLE STRIPS	114,449.00	LF		\$	
0090	20458ES403		CENTERLINE RUMBLE STRIPS	57,255.00	LF		\$	
0100	20550ND		SAWCUT PAVEMENT	110,194.00	LF		\$	
0110	25010EC		GEOCOMPOSITE REINFORCEMENT FOR ASPHALT	252,067.00	SQYD		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0120	00078		CRUSHED AGGREGATE SIZE NO 2	34,117.00	TON		\$	
0122	01000		PERFORATED PIPE-4 IN (ADDED: 7-23-19)	300.00	LF		\$	
0125	01010		NON-PERFORATED PIPE-4 IN (ADDED: 7-23-19)	50.00	LF		\$	
0127	01020		PERF PIPE HEADWALL TY 1-4 IN (ADDED: 7-23-19)	1.00	EACH		\$	
0130	01983		DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL YELLOW	231.00	EACH		\$	
0140	02091		REMOVE PAVEMENT	2,259.00	SQYD		\$	
0150	02200		ROADWAY EXCAVATION	42,065.00	CUYD		\$	
0160	02220		FLOWABLE FILL	21.00	CUYD		\$	
0170	02237		DITCHING	57,618.00	LF		\$	
0180	02360		GUARDRAIL TERMINAL SECTION NO 1	41.00	EACH		\$	
0190	02363		GUARDRAIL CONNECTOR TO BRIDGE END TY A	16.00	EACH		\$	
0200	02367		GUARDRAIL END TREATMENT TYPE 1	1.00	EACH		\$	
0210	02369		GUARDRAIL END TREATMENT TYPE 2A	2.00	EACH		\$	
0220	02373		GUARDRAIL END TREATMENT TYPE 3	6.00	EACH		\$	
0230	02381		REMOVE GUARDRAIL	26,125.00	LF		\$	
0240	02391		GUARDRAIL END TREATMENT TYPE 4A	33.00	EACH		\$	
0250	02562		TEMPORARY SIGNS	1,500.00	SQFT		\$	
0260	02599		FABRIC-GEOTEXTILE TYPE IV	39,122.00	SQYD		\$	
0270	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0280	02671		PORTABLE CHANGEABLE MESSAGE SIGN	4.00	EACH		\$	
0290	02676		MOBILIZATION FOR MILL & TEXT	1.00	LS		\$	
0300	02704		SILT TRAP TYPE B	13.00	EACH		\$	
0310	02707		CLEAN SILT TRAP TYPE B	13.00	EACH		\$	
0320	02726		STAKING	1.00	LS		\$	
0330	02775		ARROW PANEL	4.00	EACH		\$	

PROPOSAL BID ITEMS

191224

Page 2 of 4

Report Date 7/23/19

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0340	03171		CONCRETE BARRIER WALL TYPE 9T	500.00	LF		\$	
0350	04934		TEMP SIGNAL MULTI PHASE	1.00	EACH		\$	
0360	05950		EROSION CONTROL BLANKET	61,222.00	SQYD		\$	
0370	05963		INITIAL FERTILIZER	2.00	TON		\$	
0380	05964		MAINTENANCE FERTILIZER	3.00	TON		\$	
0390	05985		SEEDING AND PROTECTION	59,720.00	SQYD		\$	
0400	06412		STEEL POST MILE MARKERS	22.00	EACH		\$	
0410	06511		PAVE STRIPING-TEMP PAINT-6 IN	403,770.00	LF		\$	
0420	06549		PAVE STRIPING-TEMP REM TAPE-B	2,500.00	LF		\$	
0430	06550		PAVE STRIPING-TEMP REM TAPE-W	1,250.00	LF		\$	
0440	06551		PAVE STRIPING-TEMP REM TAPE-Y	1,250.00	LF		\$	
0450	08903		CRASH CUSHION TY VI CLASS BT TL3 (REVISED: 7-18-19)	2.00	EACH		\$	
0460	10020NS		FUEL ADJUSTMENT	65,742.00	DOLL	\$1.00	\$	\$65,742.00
0470	10030NS		ASPHALT ADJUSTMENT	126,439.00	DOLL	\$1.00	\$	\$126,439.00
0490	21533EN		EMBANKMENT	9,520.00	CUYD		\$	
0500	21802EN		G/R STEEL W BEAM-S FACE (7 FT POST)	23,125.00	LF		\$	
0510	23010EN		PAVE MARK TEMP PAINT STOP BAR-24 IN (REVISED: 7-23-19)	24.00	LF		\$	
0530	24489EC		INLAID PAVEMENT MARKER	715.00	EACH		\$	
0535	24544EC		REMOVE RAILROAD RAIL (ADDED: 7-23-19)	2,850.00	LF		\$	
0540	24781EC		INTELLIGENT COMPACTION FOR ASPHALT	63,495.00	TON		\$	
0545	24891EC		PAVE MOUNT INFRARED TEMP EQUIPMENT (ADDED: 7-23-19)	1,373,645.00	SF		\$	
0550	24986EC		HMA ELECTRONIC DELIVERY MGMT SYSTEM	1.00	L S		\$	
0560	24995EC		PAVE STRIPING-SPRAY THERMO-6 IN W (REVISED: 7-18-19)	114,549.00	LF		\$	
0570	24996EC		PAVE STRIPING-SPRAY THERMO-6 IN Y (REVISED: 7-18-19)	87,337.00	LF		\$	

Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0580	00440		ENTRANCE PIPE-15 IN	8.00	LF		\$	
0590	00462		CULVERT PIPE-18 IN	119.00	LF		\$	
0600	00464		CULVERT PIPE-24 IN	24.00	LF		\$	
0610	01204		PIPE CULVERT HEADWALL-18 IN	1.00	EACH		\$	
0620	01310		REMOVE PIPE	52.00	LF		\$	
0630	01433		SLOPED BOX OUTLET TYPE 1-18 IN	2.00	EACH		\$	
0640	01450		S & F BOX INLET-OUTLET-18 IN	8.00	EACH		\$	
0650	01451		S & F BOX INLET-OUTLET-24 IN	2.00	EACH		\$	
0660	01691		FLUME INLET TYPE 2 (REVISED: 7-18-19)	8.00	EACH		\$	
0670	01890		ISLAND HEADER CURB TYPE 1 (REVISED: 7-18-19)	200.00	LF		\$	
0680	02403		REMOVE CONCRETE MASONRY	17.00	CUYD		\$	
0690	02483		CHANNEL LINING CLASS II	175.00	TON		\$	

Report Date 7/23/19

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0700	03000		PRECAST CONC BOX SECT (10 X 4)	9.00	LF		\$	
0710	03000		PRECAST CONC BOX SECT (14 X 4)	9.00	LF		\$	
0720	03000		PRECAST CONC BOX SECT (3 X 2.5)	9.00	LF		\$	
0730	03000		PRECAST CONC BOX SECT (3 X 3)	9.00	LF		\$	
0740	03000		PRECAST CONC BOX SECT (4 X 2)	9.00	LF		\$	
0750	03000		PRECAST CONC BOX SECT (5 X 3)	9.00	LF		\$	
0760	03000		PRECAST CONC BOX SECT (6 X 2)	9.00	LF		\$	
0770	08003		FOUNDATION PREPARATION	1.00	LS		\$	
0780	08100		CONCRETE-CLASS A	34.00	CUYD		\$	
0790	08103		CONCRETE-CLASS D MOD	6.00	CUYD		\$	
0800	08150		STEEL REINFORCEMENT	1,951.00	LB		\$	
0810	20366NN		REPLACE GRATE	20.00	EACH		\$	

Section: 0004 - BRIDGE - 035B00012N

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0820	00387		CL3 ASPH SURF 0.38B PG76-22	49.00	TON		\$	
0825	03250		WATERPROOFING MEMBRANE (ADDED: 7-18-19)	440.00	SQYD		\$	
0860	08510		REM EPOXY BIT FOREIGN OVERLAY	440.00	SQYD		\$	

Section: 0005 - BRIDGE - 035B00013N

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0870	00387		CL3 ASPH SURF 0.38B PG76-22	89.00	TON		\$	
0875	03250		WATERPROOFING MEMBRANE (ADDED: 7-18-19)	812.00	SQYD		\$	
0910	08510		REM EPOXY BIT FOREIGN OVERLAY	812.00	SQYD		\$	

Section: 0006 - BRIDGE - 035B00014N

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0920	00387		CL3 ASPH SURF 0.38B PG76-22	31.00	TON		\$	
0925	03250		WATERPROOFING MEMBRANE (ADDED: 7-18-19)	281.00	SQYD		\$	
0960	08510		REM EPOXY BIT FOREIGN OVERLAY	281.00	SQYD		\$	

Section: 0007 - BRIDGE - 03500015N

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
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PROPOSAL BID ITEMS

Report Date 7/23/19

Page 4 of 4

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0970	00387		CL3 ASPH SURF 0.38B PG76-22	32.00	TON		\$	
0975	03250		WATERPROOFING MEMBRANE (ADDED: 7-18-19)	290.00	SQYD		\$	
1010	08510		REM EPOXY BIT FOREIGN OVERLAY	290.00	SQYD		\$	

Section: 0008 - DEMOBILIZATION &/OR MOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1020	02568		MOBILIZATION	1.00	LS		\$	
1030	02569		DEMOBILIZATION	1.00	LS		\$	