

CALL NO. 111

CONTRACT ID. 194201

SPENCER COUNTY

FED/STATE PROJECT NUMBER HSIP 5118 (043)

DESCRIPTION MT WASHINGTON ROAD (KY 44)

WORK TYPE ASPHALT SURFACE WITH GRADE & DRAIN

PRIMARY COMPLETION DATE 11/30/2019

# **LETTING DATE:** January 25,2019

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN STANDARD TIME January 25,2019. Bids will be publicly announced at 10:00 AM EASTERN STANDARD TIME.

NO PLANS ASSOCIATED WITH THIS PROJECT.

**DBE CERTIFICATION REQUIRED - 25%** 

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

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# PART I SCOPE OF WORK

# **ADMINISTRATIVE DISTRICT - 05**

**CONTRACT ID - 194201** 

HSIP 5118 (043)

**COUNTY - SPENCER** 

PCN - 0510800441801 HSIP 5118 (043)

MT WASHINGTON ROAD (KY 44) (MP 0.000) FROM THE BULLITT/SPENCER COUNTY LINE EXTENDING EAST TO 0.905 MILES WEST OF KY 1633 (MP 7.545), A DISTANCE OF 07.55 MILES.ASPHALT PAVEMENT & ROADWAY REHAB SYP NO. 05-09011.00.

GEOGRAPHIC COORDINATES LATITUDE 38:02:14.13 LONGITUDE 85:25:59.24

## **COMPLETION DATE(S):**

COMPLETED BY 11/30/2019

APPLIES TO ENTIRE PROJECT

# **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 <a href="https://secure.kentucky.gov/sos/ftbr/welcome.aspx">https://secure.kentucky.gov/sos/ftbr/welcome.aspx</a> .

# 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 <a href="mailto:kytc.projectquestions@ky.gov">kytc.projectquestions@ky.gov</a>. 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 (<a href="www.transportation.ky.gov/contract">www.transportation.ky.gov/contract</a>). 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.

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## **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:

- Name and address of DBE Subcontractor(s) and/or supplier(s) intended to be used in the proposed project;
- 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;
- 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
- 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:

- Whether the bidder attended any pre-bid meetings that were scheduled by the Cabinet to inform DBEs of subcontracting opportunities;
- Whether the bidder provided solicitations through all reasonable and available means;
- 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;
- Whether the bidder followed up initial solicitations of interest by contacting DBEs to determine with certainly 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;
- 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;
- Whether the bidder provided interested DBEs with adequate and timely information about the plans, specifications, and requirements of the contract;
- 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;
- 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;
- 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
- 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 our 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: <a href="http://transportation.ky.gov/Construction/Pages/Subcontracts.aspx">http://transportation.ky.gov/Construction/Pages/Subcontracts.aspx</a>

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

Photocopied payments and completed, signed and notarized affidavit must be submitted by the Prime Contractor to: Office of Civil Rights and Small Business Development

6<sup>th</sup> 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

# <u>LEGAL REQUIREMENTS AND RESPONSIBILITY TO THE PUBLIC – CARGO PREFERENCE ACT (CPA).</u>

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

SECTION 7 is expanded by the following new Article:

# 102.10 <u>Cargo Preference Act – Use of United States-flag vessels.</u>

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.

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## ASPHALT MIXTURE

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

### **DGA BASE**

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

#### 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.

# Special Notes Applicable to Project – General Notes & Description of Work

#### **CAUTION**

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

#### **STATIONING**

The contractor is advised that the planned locations of work were established from a beginning station number which is STA 0+00 at the Spencer/Bullitt County Line. Milepoints were established from a beginning Milepoint which is MP 0.0 at the Spencer/Bullitt County Line. The existing mile marker signs may not correspond to the proposed work locations.

#### **LIDAR**

All survey information was obtained from available KYTC Aerial LIDAR data and should be field verified as appropriate during construction and prior to incorporating the various project work items. Refer to the Special Note for Staking concerning staking operations required to control and construct the work.

#### **ON-SITE INSPECTION**

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

## **RIGHT OF WAY LIMITS**

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

#### **CONTROL**

Perform all work under the absolute control of the Department of Highways. Obtain the Engineer's approval of all designs required to be furnished by the Contractor prior to incorporation into the work. The Department reserves the right to have other work performed by other contractors and its own forces and to permit public utility companies and others to do work during the construction within the limits of, or adjacent to, the project. Conduct operations and cooperate with such other parties so that interference with such other work will be reduced to a minimum. The Department will not honor any claims for money or time extension created by the operations of such other parties. Should a difference of opinion arise as to the rights of the Contractor and others working within the limits of, or adjacent to, the project, the Engineer will decide as to the respective rights of the various parties involved in order to assure the completion of the Department's work in general harmony and in a satisfactory manner, and his/her decision shall be final and binding upon the Contractor.

General Notes & Description of Work Page 2 of 5

# **DESCRIPTION OF WORK**

Except as specified herein, perform all work in accordance with the Department's Standard Specifications, Supplemental Specifications, applicable Special Notes and Special Provisions, and applicable Standard and Sepia Drawings, current editions. Furnish all materials, labor, equipment, and incidentals for the following work:

**Superelevation Improvements.** There are multiple curves where Superelevation Improvements are being proposed. The intent of this work is to bring a consistent pavement cross slope through the identified curves. Refer to the Superelevation Improvement Summary for locations and approximate quantities. The Contractor will need to utilize Asphalt Base in order to achieve the desired superelevation improvements at the identified curves. Milling is included in order to achieve the minimum depth for placing the asphalt base and is to be directed by the engineer. The Pavement Summary lists the estimated quantities of Asphalt Base and milling for each curve; however, the Engineer will make the final determination as to which bid items will be required at each superelevation improvement area, as well as the appropriate lift thicknesses and number of lifts based on the existing conditions encountered at the time of construction. After placement of the Asphalt Base, the identified curves will be overlain with a surface course and edge key is set up for tie-ins. As a result of these superelevation improvements within the identified curves, the roadside shoulders and fill slopes will have to be modified to match the final pavement elevations and tie in with the existing ground lines. The quantities for these modifications have been included within the pavement summary and the ditching and shouldering summary.

NOTE: Some field adjustments of the shoulder, fill slope, and/or superelevation improvement may be required. The resulting shoulder and fill slope grading is intended to occur within Right-Of-Way and NOT disturb any sensitive obstructions (i.e. fences, buildings, utility poles, etc.). Superelevation improvements with sensitive obstructions along the roadside shall still require the roadside shoulder and fill slope to be modified, but the slope may have to be constructed steeper than what is shown on the superelevation typical section. The desire of the Department is to keep the fill slopes at 3:1 or flatter; however, some 2:1 slopes may be necessary, especially when the existing slope is 2:1 or close to 2:1. Further, if a desired superelevation improvement will result in a fill slope having to be graded steeper than 2:1 in order to not impact a sensitive obstruction, then the superelevation rate should be modified (reduced) in order to reduce the final change in pavement edge elevation, thereby reducing the height of the new fill slope grading, and allowing for a flatter fill slope. Asphalt will be bid as tons.

**Pavement Resurfacing.** The existing roadway is to be resurfaced only in the areas undergoing superelevation improvements and for the base failure repairs. The resurfacing work will include construction of an edge key, placement of an asphalt surface course, installation of rumble strips, and application of pavement markings. Refer to the rumble strip Sepia Drawings for recommended placement of rumble strips. Refer to the typical section, edge key detail, and base failure detail.

**Shoulder Widening.** Areas have been identified along the route for shoulder improvements, see typical section. Work will include the placement of a one-foot width of dense graded aggregate shoulder outside of the edge of pavement. Unless directed otherwise by the engineer, provide a minimum two-foot shoulder width where proposed guardrail is required. Other items required for this work include: pipe extensions with headwalls, tree removal, and a Double Asphalt Seal Coat. See the Special Note for Double Asphalt Seal Coat for more information on the asphalt seal coat.

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**Guardrail Replacement**. Existing guardrail within the project will be replaced. Refer to the Guardrail Summary for the approximate locations for guardrail replacement. The work will include removal of the existing guardrail, ditching and shouldering, placement of a DGA shoulder at a two-foot width (with 4" of depth) and 3:1 side slopes to accommodate installation of the new guardrail and end treatments, and double asphalt seal coat. See the Special Note for Guardrail and new Sepias for more information on this work. A quantity of 100 Extra Length Guardrail Post has been included and to be installed at the discretion of the Engineer. The Contractor and Engineer should work together to determine the location and best use of Extra Length Guardrail Post throughout this project. The Engineer will make the final determination as to the quantities and placement of Extra Length Guardrail Post.

**Bridge Rail Modification using Case I-A Bridge Guardrail.** There are quantities of Bridge Guardrail Case I-A included in the contract for modifying the barrier system at the structures identified elsewhere in the Proposal. For more information on this item of work, refer to the Special Note for Guardrail and the detail sheet titled: 1-98321 Guardrail on Bridge, Case I-A.

**Bridge Concrete Curb Repair.** There are quantities for concrete and steel included for replacing damaged bridge concrete curb on each of the two bridges. The engineer will make the final determination as to the segments to be removed and replaced as per the Special Note For Bridge Concrete Curb Repair.

Ditching and Shouldering. Several areas throughout the project are set up for Ditching & Shouldering. Perform Ditching & Shouldering at the locations identified in the Ditching & Shouldering Summary, or at locations as directed by the Engineer. The proposed shoulder, ditch, and/or roadside dimensions are detailed on the Typical Sections. Perform Ditching & Shouldering according to the Special Note for Ditching & Shouldering. For details of the conditions and situations commonly encountered when performing Ditching & Shouldering, refer to the detail sheets titled: DITCHING & SHOULDERING AND EMBANKMENT BENCHING DETAILS. Use Erosion Control Blanket and/or Channel Lining Class II in conjunction with the Ditching and Shouldering as directed by the Engineer.

**DGA Wedge & Chip Seal.** The areas to receive "Ditching and Shouldering" are also estimated to receive a 4" DGA Wedge & Chip Seal after the shouldering and/or ditching earthwork is complete. In areas that are routinely mowed by the adjoining property owner, the Engineer may decide to eliminate the DGA Wedge & Chip Seal. The Engineer will determine the exact limits of the DGA Wedge & Chip Seal at the time of construction. The Contractor is advised to consult with the Engineer prior to performing Ditching & Shouldering and placing a DGA Wedge & Chip Seal in the areas where it appears the adjoining property owner is routinely mowing up to the edge of pavement. Ditching and shouldering limits overlap into the limits of guardrail replacement and superelevation Improvements. In those locations, refer to the Guardrail Summary and Pavement Summary for a listing of DGA Wedge and Chip Seal quantities.

**Entrance Pipe Replacement & Driveway Surfacing.** Due to an area where the existing ditch line is being re-shaped and relocated further from the edge of pavement, an entrance pipe and entrance paving are to be constructed. Refer to the pipe sheet at station 356+93 and paving summary for details on this work item. The proposed entrance pipe will need to be removed and relocated to line up with the new ditch line and proposed cross drain. See the Pipe Summary for the location and bid items/quantities associated with the entrance pipe replacement. Refer to the Special Note for Pipe Replacements / Extensions for more information on this item of work. Due to superelevation improvements, existing driveway reconstruction is

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also noted on the paving summary sheet and is to be replaced with like-kind surfacing. Estimates of the required driveway surfacing are included for this work on the paving summary. The Engineer will make the final determination as to the locations and quantities required to complete the work based on the existing conditions encountered during construction.

**Pipe Extensions.** There are locations throughout the project were culvert pipes are being extended. Locations are noted on the Drainage Structure Summary. Other items that may be associated with the pipe extensions include: Sloped & Mitered Concrete Headwalls, Standard Headwalls, Drop Box Inlet Type 1, Safety Box inlets, Ditching & Shouldering, Channel Lining, Erosion Control Blanket, etc. Refer to the Special Note for Pipe Replacements / Extensions for more information on this item of work.

Sloped & Mitered Concrete Headwalls. Sloped & Mitered Concrete Headwalls shall be constructed as shown on the Sloped & Mitered Concrete Headwall Details. This headwall is intended to combine the benefits of a pipe headwall with the advantages of safety and adaptability by allowing the headwall to be custom fit with the surrounding embankment. The Drainage Structure Summary identifies which pipe ends are to receive the Sloped & Mitered Concrete Headwalls. The identified pipe ends shall have the headwall installed at an angle that matches the final embankment slopes at each location. If the pipe is on a skew, install the headwall and miter the pipe so that the slope paving of the new headwall is perpendicular to the roadway. In other words, the headwall should be installed, and the pipe should be mitered to match the final embankment slope, so that the roadside fill slope is fairly consistent prior to the pipe, at the pipe, and beyond the pipe. When completed the edges of the Sloped & Mitered Concrete Headwall should be flush with the surrounding ground line. Payment at the Contract unit price Each shall be full compensation for furnishing all labor, materials, equipment, and incidentals necessary to install the headwall and miter the pipe.

NOTE: For pipes that receive the Sloped & Mitered Concrete Headwall, the pipe length will be measured to the furthest point along the mitered end of the pipe.

Channel Lining. Channel Lining Class II has been included in the Drainage Structure Summary for use at the locations indicated in the cross sections and pipe sheets. An additional 250 Tons of Channel Lining Class II has been included in the contract for potential use around drop box inlets, safety box inlets, inlets and outlets of pipes, along areas of regraded ditch line and/or fill slope, and other areas as directed by the Engineer. 300 Tons are included for slope stability at sta. 317+75 to sta. 319+25, see cross-sections for slopes. The Contractor and Engineer should work together to determine the location and best use of Channel Lining throughout this project. The Engineer will make the final determination as to the needed quantities and placement of Channel Lining.

**Erosion Control Blanket.** A quantity of 5000 square yards of Erosion Control Blanket has been included in the contract for potential use along areas of regraded shoulders, ditch lines, fills slopes and/or back slopes, inlets and outlets of pipes, and any other areas as directed by the Engineer. The Contractor and Engineer should work together to determine the location and best use of Erosion Control Blanket throughout this project. The Engineer will make the final determination as to the quantities and placement of Erosion Control Blanket.

**Remove, Store & Reinstall Signs.** A quantity of 32 each of "Remove-Store and Reinstall Sign" has been included in the contract for existing sheet signs that may obstruct or interfere with proposed construction

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activities. Do not remove an existing sign until just prior to working in the vicinity of the sign. Reinstall the sign as soon as possible once the construction activities in the vicinity of the sign has reached a stage that the sign will no longer be an obstruction or interfere with the work. The intent is for the sign to be "down" the minimum length of time necessary.

**Installation of Proposed Curve Signing.** An estimated quantity of new curve signing and sign post is included on the Signing Summary. Once final surfacing operations are complete, the District Traffic Section will perform ball bank readings along the route to determine the curves requiring chevron signs, curve signing, and the appropriate advisory speeds of those curves. New signs are not to be ordered until the district provides the approved list of signs to be installed. Refer to the Special Note for Signing, Special Note for Staking, and Special Note for Signage for more details.

Trim & Remove Trees, Stumps, and Brush. There are locations within the project where Trees, Stumps, or Brush are to be removed and/or trimming. Locations are noted on the Cut and Trim Tree Canopy Summary. Refer to the Special Detail for Tree Canopy Clearing. Refer to the Special Note for Tree, Stump, and Brush Removal for more information. All tree removal and Tree canopy trimming/clearing are to be completed with no tree cutting or trimming in the months of June and July or the contractor will be responsible for the \$308.00 per affected tree as mitigation. Any tree removals that are removed during the months of May through August, maybe subject to these bat mitigation fees for disturbing or harming of bat hibernaculum's and will solely be the responsibility of the contractor as a non-reimbursable cost. This would be pending coordination and approval with USFWS.

**Temporary Striping.** A quantity of 15976 linear feet of Pave Striping – Temp Paint – 4 in has been included in the contract for potential use at the Superelevation Improvement areas, and any other areas as directed by the Engineer. The Contractor and Engineer should work together to determine any locations throughout the project requiring temporary pavement striping. The Engineer will make the final determination as to the quantities and placement of temporary pavement striping.

#### **Disposal of Waste**

Dispose of all removed concrete, pipe, pavement, debris, excess and unsuitable excavation, and all other waste at approved sites, off the right of way, obtained by the Contractor at no additional cost to the Department.

#### Final Dressing, Clean Up, Seeding, Protection and Restoration

After all work is completed, remove all waste and debris from the job site. Grade all disturbed areas to blend with the adjacent roadway features and to provide a suitable seed bed. Perform Class A Final dressing on all disturbed areas. Seed and protect all disturbed earthen areas according to the Special Note for Erosion Control.

#### SPECIAL NOTE FOR STAKING

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

- 1. Contrary to Section 201, perform items 1-3 usually performed by the Engineer.
- 2. Using the proposed pavement superelevation rates, runout, and runoff lengths, determine the necessary changes in pavement edge elevation along the curves and the transitions leading into and out of the curve to achieve the proposed superelevation improvements. The intent to provide a consistent superelevation throughout the curves and smooth transitions into and out of the curves. Once the proposed changes in pavement edge elevations are determined and prior to starting paving operations, verify the proposed roadside re-grading along the curve can be constructed so that the new roadside is flush with the new pavement edge elevation and the new toe of slope, or top of cut, will remain within the existing Right-of-Way and/or not impact a sensitive obstruction. If necessary, and with the approval of the Engineer, reduce the proposed superelevation rate of a curve if the new edge of pavement elevation will cause the new roadside grading to extend beyond the Right-of-Way and/or impact a sensitive obstruction. Alternatively, with the approval of the Engineer and to the extent allowable by the "Ditching & Shouldering and Embankment Benching Details" and/or the Special Note for Ditching & Shouldering, the contractor may be allowed to make adjustments to the roadside grading so the proposed roadside re-grading will remain within the existing Right-of-Way and/or not impact a sensitive obstruction. After the final proposed changes in pavement edge elevations are determined and before paving operations begin, submit to the Engineer and obtain approval for the number of asphalt lifts, each asphalt lift's thickness, and the asphalt material type of each lift the contractor plans to use to achieve the superelevation improvement. Ensure positive drainage upon completion of the work.
- 3. Verify the dimensions, type, and quantities of the culvert pipes, entrance pipes, and/or box culverts as listed and detailed in the proposal, and determine flow line elevations and slopes necessary to provide positive drainage. Revise as necessary to accommodate the existing site conditions; to provide proper alignment of the drainage structures with existing and/or proposed ditches, stream channels, swales, and the roadway lines and grades; and to ensure positive drainage upon completion of the work.
- 4. Using stakes, paint marks on the pavement, mag nails, and/or any other means approved by the Engineer, the Contractor shall mark and/or stake the proposed sign locations in the field. NOTE: The proposed signs are listed in the proposal by approximate location and are NOT to be taken as the exact location for the signs. During staking operations the Contractor shall review the signing layout and existing field conditions and look for potential conflicts, including but not limited to utilities, driveways, visual obstructions, etc. When conflicts are found, adjust the staked location of signs to mitigate conflicts. Because the sign locations in the proposal are approximate and the location of some signs may need to be adjusted due to conflicts, during staking operations the Contractor shall refer to and utilize the information in Sections 2C.05 through 2C.15 and Section 2C.46;

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Tables 2C-4, 2C-5, and 2C-6; and Figure 2C-2 of the Manual on Uniform on Traffic Control Devices (MUTCD), current edition. These Sections, Tables, and Figures within the MUTCD cover items such as: appropriate sign location, advance placement distances, and spacing requirements for signing. The intent is for the proposed signs to be consistent with, and meet the requirements of, the MUTCD. Once the proposed sign locations have been staked, notify and coordinate with the District Traffic Engineer, and perform a review of the staked locations. Adjust the staked locations, as directed by the District Traffic Engineer and obtain approval of the final staked locations. This review will also be used to determine if there are any existing signs that require removal and/or relocation. Provide the District Traffic Engineer with 2 weeks' notice when a route will be ready for a review of the staked locations. NOTE: The District Traffic Engineer may determine that the proposed signing, including sign types and messages, needs to be adjusted and/or modified from what is shown in the proposal. Therefore, the Contractor shall not order any sign material for a route until the route has been staked and final sign location approval has been given by the District Traffic Engineer.

- 5. Produce and furnish to the Engineer "As Built" information for the superelevation improvements and the drainage improvements. For superelevation improvements, as built information will consist of a record of the final pavement cross slopes every 50 feet, for each lane of travel along the curves and the transitions into and out of the curves. Elevation data of the curve improvements is not necessary; simply the cross slope percentage every 50 feet. For the drainage improvements, as built information will consist of a final record of the actual types, sizes, and locations of the drainage structures (i.e. box inlets, headwalls, junction boxes, etc.), culvert pipes, and/or box culverts constructed. Final elevation data of the drainage improvements is not necessary.
- 6. Using paint marks on the pavement, and/or any other means approved by the Engineer, the Contractor shall layout and pre-mark the proposed striping, pavement markings, etc. Adjust as necessary to accommodate the existing site conditions and to provide proper alignment of the proposed thru and turning lanes. Obtain approval of the pre-marked layout from the Engineer and/or District Traffic Engineer prior to installing the striping and/or pavement markings.
- 7. Prior to incorporating into the work, obtain the Engineers approval of all revisions determined by the Contractor.
- 8. Perform any and all other staking operations required to control and construct the work.

#### SPECIAL NOTE FOR EROSION CONTROL

## I. DESCRIPTION

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

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

#### II. MATERIALS

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

## III. CONSTRUCTION

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

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Conduct operations in such a manner as to minimize the amount of disturbed ground during each phase of the construction and limit the haul roads to the minimum required to perform the work. Preserve existing vegetation not required to be removed by the work or the contract. Seed and/or mulch disturbed areas at the earliest opportunity. Use silt fence, silt traps, temporary ditches, brush barriers, erosion control blankets, sodding, channel lining, and other erosion control measures in a timely manner as required by the BMP and as directed or approved by the Engineer. Prevent sediment laden water from leaving the project, entering an existing drainage structure, or entering a steam.

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

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

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

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

The use of Temporary Mulch is encouraged.

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

After all construction is complete, restore all disturbed areas in accordance with Section 212. Completely remove all temporary erosion control devices not required as part of the permanent erosion control from the construction site. Prior to removal, obtain the Engineer's concurrence of items to be removed. Grade the remaining exposed earth (both on and off the Right of-Way) as nearly

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as possible to its original condition, or as directed by the Engineer. Prepare the seed bed areas and sow all exposed earthen areas with the applicable seed mixture(s) according to Section 212.03.03.

## IV. MEASUREMENT

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

# V. BASIS OF PAYMENT

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

## SPECIAL NOTE FOR DITCHING & SHOULDERING

#### I. DESCRIPTION

Except as provided herein, all work shall be performed in accordance with 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) Maintaining and Controlling Traffic; (2) Site Preparation; (3) Ditching; (4) Shouldering;
- (5) Constructing Embankments, Embankment Benching, and/or Excavation; (6) Erosion Control; and (7) Any other work as specified in this Contract.

## II. MATERIALS

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

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B.** Erosion Control. See Special Note for Erosion Control.
- **C. DGA.** When listed as a bid item, furnish Dense Graded Aggregate as per Section 805.
- **D. Asphalt Seal Coat.** When listed as a bid item, see Special Note for Double Asphalt Seal Coat.
- **E. Asphalt Seal Aggregate.** When listed as a bid item, see Special Note for Double Asphalt Seal Coat.
- **F.** Channel Lining, Class II. When listed as a bid item, furnish Channel Lining, Class II as per Section 805.
- **G. Geotextile Fabric Type IV.** When listed as a bid item, furnish Geotextile Fabric Type IV as per Section 843.
- **H. CSB.** When listed as a bid item, furnish Crushed Stone Base as per Section 805.

## III. CONSTRUCTION METHODS

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

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- **B.** Erosion Control. See Special Note for Erosion Control.
- **C. Site Preparation.** Be responsible for all site preparation including, but not limited to: staking; clearing, grubbing, and removal of all obstructions or any other items; excavation, embankment benching, compacting embankment in place; temporary pollution and erosion control; disposal of excess, waste, and debris; and final dressing, cleanup, and seeding and protection. Perform all site preparation as approved or directed by the Engineer.
- **D. Staking.** See Special Note for Staking.
- **E. Ditching & Shouldering.** All work shall be completed according to Section 209, or as specified in the DITCHING & SHOULDERING AND EMBANKMENT BENCHING DETAILS, the Typical Sections, the Plan Sheets, or as directed by the Engineer. Ditching & Shouldering shall consist of any necessary clearing, grubbing, grading, and/or reshaping of the existing shoulder, ditch, and/or roadside to achieve the proposed shoulder, ditch, and/or roadside dimensions detailed on the Typical Sections. Depending on the existing conditions encountered and to achieve the dimensions as detailed in the Typical Sections, Ditching & Shouldering may also include, but is not limited to: embankment benching, excavating and removing excess material, excavation of rock, providing additional earth material suitable for vegetation growth and grading, shaping, and compacting the earth material.

Provide positive drainage of ditches and slopes at all times during and upon completion of construction. When asphalt surfacing or resurfacing is included in the contract, perform all ditching and as much of the shouldering operations as is practical before beginning final surfacing operations.

- **F. Embankment Benching.** Embankment Benching shall be required when the existing groundline has an incline greater than 15%. Any and all required embankment benching shall be incidental to the bid item DITCHING & SHOULERING. For more information refer to the DITCHING & SHOULDERING AND EMBANKMENT BENCHING DETAILS
- G. DGA Wedge & Chip Seal. If shown on the Typical Sections, some, or possibly all, areas of Ditching & Shouldering may be set up to receive a 4" thick DGA Wedge & Chip Seal after the ditching and shouldering operations are complete. Other areas of Ditching & Shouldering may NOT be set up to receive the DGA Wedge & Chip Seal. See summary sheets for the approximate locations to receive the DGA Wedge & Chip Seal. The Engineer will determine the exact limits of the DGA Wedge & Chip Seal at the time of construction. Construct and compact the DGA as required by Section 302. Place Chip Seal over the entire width of the DGA Wedge. See the Special Note for Double Asphalt Seal Coat for the Chip Seal requirements.

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- **H.** Channel Lining. Install Class II Channel Lining along any sections of ditches identified in the Proposal, along any fill slopes or ditch backslopes identified in the Proposal requiring Slope Protection, or any other locations the Engineer directs for slope protection or erosion control. When Channel Lining is used along a steep fill slope in order to establish a width of aggregate shoulder, the Channel Lining is to be capped with Geotextile Fabric Type IV and 4" of Crushed Stone Base. In lieu of 4" of Crushed Stone Base, 4" of DGA and a Double Asphalt Seal Coat may be specified in the Proposal. Install whichever aggregate capping material the Proposal specifies, or as directed by the Engineer.
- I. Right-of-Way Limits. The Department has not established exact limits of the Right-of-Way. Unless a consent and release form is obtained from the adjoining property owner, limit work activities to the obvious Right-of-Way and staging areas secured by the Contractor at no additional cost to the Department. In the event that private improvements (i.e. fences, buildings, etc.) encroach upon the Right-of-Way, the contractor shall notify the Engineer and limit work activities in order to NOT disturb the improvements. If they become necessary, the Department will secure consent and releases from property owners through the Engineer. Be responsible for all encroachments onto private lands.
- **J. Property Damage.** The Contractor shall be responsible for all damage to public and/or private property resulting from the Contractor's activities. Repair or replace damaged roadway features in like kind materials and design as directed by the Engineer at no additional cost to the Department. Repair or replace damaged private property in like kind materials and design to the satisfaction of the owner and the Engineer at no additional cost to the Department.
- K. Coordination with Utility Companies. Locate all underground, above ground, and overhead utilities prior to beginning construction. Be responsible for contacting and maintaining liaison with all utility companies that have utilities located within the project limits. Do not disturb existing overhead or underground utilities. It is not anticipated that any utility facilities will need to be relocated and/or adjusted; however, in the event that it is discovered that the work does require that utilities be relocated and/or adjusted, the utility companies will work concurrently with the Contractor while relocating their facilities. Be responsible for repairing all utility damage that occurs due to the Contractor's operations at no additional cost to the Department. NOTIFY THE ENGINEER AND THE UTILITY OWNER(S) IMMEDIATELY WHEN IT IS DISCOVERED OR ANTICIPATED THAT ANY UTILITY CONFLICT COULD DELAY THE CONTRACTOR'S OPERATIONS. If the total delay exceeds ten working days, an extension of the specified completion date will be negotiated with the Contractor for delay to the Contractor's work; however, no extension will be granted for any delay caused by the Contractor's failure to notify the Engineer and/or the utility company as specified above when a conflict is discovered or anticipated as specified.
- **L. Caution.** The information in this proposal and shown on the plans and the type of work listed herein are approximate only and are not to be taken as an accurate evaluation of the

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materials and conditions to be encountered during construction; the bidder must draw their own conclusions. The Department does not give any guarantee as to the accuracy of the data and no claim for money or time extension will be considered if the conditions encountered are not in accordance with the information shown.

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

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

- N. Clean Up, Disposal of Waste. Clean up the project area as work progresses. Dispose of all removed excess material, debris, and other waste at approved sites off the Right of Way obtained by the Contractor at no additional cost to the Department. See the Special Provision for Waste and Borrow Sites.
- **O. Final Dressing, Seeding and Protection.** Grade all disturbed areas to blend with the adjacent roadways features and to provide a suitable seed bed. Apply Class A Final Dressing to all disturbed areas, both on and off the Right-of-Way. Sow all disturbed earthen areas with the applicable seed mixture(s) according to Section 212.03.03.

## IV. METHOD OF MEASUREMENT

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B.** Erosion Control. See Special Note for Erosion Control.
- **C. Site Preparation.** Other than the bid items listed, the Department will NOT measure Site Preparation for payment, but shall be incidental to the project bid items.
- **D. Staking.** See Special Note for Staking.
- **E. Ditching & Shouldering.** Contrary to Section 209.04 the Department will measure the bid item DITCHING & SHOULERING in linear feet along the centerline of the roadway

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as the length of the actual ditching and/or shouldering work performed. Further, this measurement will only include one side of the roadway. Therefore, for areas where ditching and shouldering occurs on both sides of the road, the Department will measure each side independently. The Department will not measure cleaning pipe structures 36 inches or less in diameter or reshaping any deformed ends on metal entrance pipes that are to remain in place, as these operations are considered incidental to the bid item DITCHING & SHOULERING.

- **F. Embankment Benching.** The Department will not measure Embankment Benching for payment. Any and all required embankment benching shall be incidental to the bid item DITCHING & SHOULERING.
- **G. DGA, CSB.** When listed as bid items, DGA and Crushed Stone Base shall be measured according to Section 302.04.
- **H.** Chip Seal. When specified in the contract, the bid items associated with Chip Seal shall be measured according to the Special Note for Double Asphalt Seal Coat.
- **I.** Channel Lining, Class II. When listed as a bid item, Class II Channel Lining shall be measured according to Section 703.04.
- **J. Geotextile Fabric, Type IV.** When listed as a bid item, Geotextile Fabric, Type IV shall be measured according to Section 214.04.
- **K.** Clean Up, Disposal of Waste, Final Dressing, Seeding and Protection. The Department will NOT measure for payment the following activities: Clean Up, Disposal of Waste, and Final Dressing. These activities shall be incidental to the project bid items. Seeding and Protection shall be measured according to Section 212.

## V. BASIS OF PAYMENT

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B.** Erosion Control. See Special Note for Erosion Control.
- C. Staking. See Special Note for Staking.
- **D. Ditching & Shouldering.** The Department will make payment for the completed and accepted quantities under the bid item DITCHING & SHOULERING. The Department will consider payment full compensation for furnishing all labor, materials, equipment, and incidentals necessary to preform Ditching & Shouldering as required by these notes, at the locations indicated on the summary sheets, plans, and/or as directed by the Engineer.

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- **E. DGA, CSB.** When listed as bid items, the Department will make payment for DGA and Crushed Stone Base according to Section 302.05.
- **F.** Chip Seal. When specified in the contract, the Department will make payment for the bid items associated with Chip Seal according to the Special Note for Double Asphalt Seal Coat.
- **G.** Channel Lining, Class II. When listed as a bid item, the Department will make payment for Class II Channel Lining according to Section 703.05.
- **H. Geotextile Fabric, Type IV.** When listed as a bid item, the Department will make payment for Geotextile Fabric, Type IV according to Section 214.05.

#### SPECIAL NOTES FOR PIPE REPLACEMENTS / EXTENSIONS

#### I. DESCRIPTION

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

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

## II. MATERIALS

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

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

## III. CONSTRUCTION METHODS

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

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- **D.** Removing Headwalls, Pipe, and Excavation. Remove existing headwalls and lengths of culvert and/or entrance pipes at the approximate locations noted on the summary. The Engineer will determine the exact locations and lengths of pipe to be removed at the time of construction. When removing pipe, or any portion of pipe under the roadway, saw cut the existing asphalt pavement and base to a neat edge prior to excavation and removal of the existing pipe. NOTE: Saw cutting the pavement shall be incidental. Obtain the Engineer's approval of trench width and/or saw cutting limits prior to saw cutting the pavement. Excavate the trench and remove the pipe as directed, or approved, by the Engineer without disturbing existing underground utilities.
- **E. Constructing Pipe, Headwalls, and Drainage Boxes**. Construct culvert and/or entrance pipes, pipe extensions, headwalls, drainage boxes, and other drainage structures at the locations shown in the proposal or as designated by the Engineer. The contractor will establish, with the approval of the Engineer, the final centerlines, flow lines, and skews to obtain the best fit with the existing and/or proposed ditches and other proposed improvements. (See the Special Note for Staking.) Construct pipe bedding according to Section 701 and the applicable Standard or Sepia Drawings, current editions. Use approved connecting bands or concrete anchors as required. Prior to backfilling pipe, obtain the Engineer's approval of the pipe installation. Provide Positive drainage upon completion of pipe installation.
- **F. Pipe Backfill.** Backfill entrance pipes according to Section 701.03.06. Contrary to Section 701.03.06, backfill culvert pipes with flowable fill for the width of the roadway and as shown on the Pipe Replacement Detail. Steel plates will likely be required to maintain traffic while the flowable fill cures. Once the flowable fill has sufficiently cured, place the Asphalt Base in lifts with thicknesses of 3-4 inches, up to the surface of the existing pavement. Seal with Leveling & Wedging. Allow the asphalt base and leveling & wedging to be exposed to traffic for a minimum of 14 days to allow for settlement. During the waiting period, level & wedge any settlement as directed by the Engineer. After the waiting period has been met for the last pipe replacement constructed, the final milling and/or surfacing operations can begin, unless directed otherwise by the Engineer.
- **G. Embankments.** Backfill pipe and culvert extensions, and construct shoulder embankments as directed by the Engineer. The contractor shall bench into the existing slope and apply proper compaction according to Section 206. For more information and details on benching, refer to Note 2 on the detail sheet titled: DITCHING & SHOULDERING AND EMBANKMENT BENCHING DETAILS, found elsewhere in the Proposal. Provide positive drainage of ditches, shoulders, and slopes at all times during, and upon completion of construction.
- **H. Property Damage.** Be responsible for all damage to public and/or private property resulting from the work. Repair or replace damaged roadway features in like kind materials and design, as directed by the Engineer at no additional cost to the Department. Repair or replace damaged private property in like kind materials and design to the satisfaction of the owner and the Engineer at no additional cost to the Department.

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- I. Coordination with Utility Companies. Locate all underground, above ground, and overhead utilities prior to beginning construction. Be responsible for contacting and maintaining liaison with all utility companies that have utilities located within the project limits. Do not disturb existing overhead or underground utilities. It is not anticipated that any utility facilities will need to be relocated and/or adjusted; however, in the event that it is discovered that the work does require that utilities be relocated and/or adjusted, the utility companies will work concurrently with the Contractor while relocating their facilities. Be responsible for repairing all utility damage that occurs as a result of pipe replacement and pipe extension operations at no additional cost to the Department. NOTIFY THE ENGINEER AND THE UTILITY OWNER(S) IMMEDIATELY WHEN IT IS DISCOVERED OR ANTICIPATED THAT ANY UTILITY CONFLICT COULD DELAY THE CONTRACTOR'S OPERATIONS. If the total delay exceeds ten working days, an extension of the specified completion date will be negotiated with the Contractor for delay to the Contractor's work; however, no extension will be granted for any delay caused by the Contractor's failure to notify the Engineer and/or the utility company as specified above when a conflict is discovered or anticipated as specified.
- J. Right-of-Way Limits. The Department has not established exact limits of the Right-of-Way. Unless a consent and release form is obtained from the adjoining property owner, limit work activities to the obvious Right-of-Way and staging areas secured by the Contractor at no additional cost to the Department. In the event that private improvements (i.e. fences, buildings, etc.) encroach upon the Right-of-Way, the contractor shall notify the Engineer and limit work activities in order to NOT disturb the improvements. If they become necessary, the Department will secure consent and releases from property owners through the Engineer. Be responsible for all encroachments onto private lands.
- **K.** Clean Up, Disposal of Waste. Clean up the project area as work progresses. Dispose of all removed concrete, pipe, pavement, debris, excess and unsuitable excavation, and all other waste at approved sites off the Right of Way obtained by the Contractor at no additional cost to the Department. See the Special Provision for Waste and Borrow Sites.
- **L. Final Dressing, Seeding and Protection.** Grade all disturbed areas to blend with the adjacent roadways features and to provide a suitable seed bed. Apply Class A Final Dressing to all disturbed areas, both on and off the Right-of-Way. Sow all disturbed earthen areas with the applicable seed mixture(s) according to Section 212.03.03.
- **M. Erosion Control.** See the Special Note for Erosion Control.

## IV. METHOD OF MEASUREMENT

- A. Maintain and Control Traffic. See the Traffic Control Plan.
- **B.** Site Preparation. Other than the bid items listed, site preparation will NOT be measured for payment, but shall be incidental to culvert and/or entrance pipe bid items, as applicable.

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- **C. Remove Headwall.** The Department will measure the removal of existing headwalls as Each. Any excavation, including rock excavation, necessary to remove existing headwalls will NOT be measured for payment, but shall be incidental to the bid item "Remove Headwall".
- **D. Remove Pipe**. Removal of existing culvert and entrance pipe shall be measured according to Section 701.04.14. Any excavation, including rock excavation, necessary to remove existing pipe will NOT be measured for payment, but shall be incidental to the bid item "Remove Pipe".
- **E.** Culvert and Entrance Pipe. The Department will measure the quantities according to Section 701.04. Any excavation, including rock excavation, necessary to install culvert or entrance pipe shall be incidental to the corresponding pipe bid items.
- **F. Headwalls, Drainage Boxes.** The Department will measure according to Section 710. Any excavation, including rock excavation, necessary to construct headwalls and/or drainage boxes will NOT be measured for payment, but shall be incidental to the applicable bid item.
- **G. Excavation, Pipe Backfill, Embankments.** The Department will NOT measure for payment the following items: any excavation, including rock excavation, necessary to remove the existing pipe and/or install the proposed culvert or entrance pipe, pipe backfill material, flowable fill, and re-constructing shoulder embankments, but shall considered these items incidental to the bid items for culvert and entrance pipe.
- **H. Clean Up, Disposal of Waste, Final Dressing, Seeding and Protection.** The Department will NOT measure for payment the following activities: Clean Up, Disposal of Waste, and Final Dressing. These activities shall be incidental to the project bid items. Seeding and Protection shall be measured according to Section 212.
- **I. Erosion Control.** See the Special Note for Erosion Control.

#### V. BASIS OF PAYMENT

- A. Maintain and Control Traffic. See the Traffic Control Plan.
- **B. Remove Headwall**. The Department will make payment for the completed and accepted quantities of Each headwall removed. Payment at the Contract unit price per Each shall be full compensation for furnishing all labor, materials, equipment, and incidentals for removing the existing headwall.
- **C. Remove Pipe**. The Department will make payment according to Section 701.05. Payment at the Contract unit price per linear foot shall be full compensation for furnishing all labor, materials, equipment, and incidentals for removing the existing pipe.
- D. Culvert and Entrance Pipe. The Department will make payment according to Section

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- 701.05. Payment at the Contract unit price per linear foot shall be full compensation for furnishing all labor, materials, equipment, and incidentals necessary for installing and backfilling new culvert and entrance pipe.
- E. Headwalls, Drainage Boxes. The Department will make payment according to Section 710.
- **F. Erosion Control.** See the Special Note for Erosion Control.

#### SPECIAL NOTE FOR BRIDGE CONCRETE CURB REPAIR

#### I. DESCRIPTION

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

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

(1) Maintain and control traffic; (2) Remove existing concrete curb in the areas identified elsewhere in the Proposal or as directed by the Engineer; (3) Clean and straighten exposed existing steel reinforcement; (4) Form and place new concrete curb as specified by this note; (5) Finish and cure the new curb; and (6) all other work specified as part of this contract.

#### II. MATERIALS

Except as specified herein, provide for all materials to be sampled and tested in accordance with the Department's Sampling Manual and make the materials available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing.

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B.** Concrete-Class M. See Sections 601.
- C. Epoxy Bond Coat. See Section 511.
- **D. Steel Reinforcement.** Use Grade 60. See Section 602.

#### III. CONSTRUCTION METHODS

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B.** Site Preparation. Prior to removal of existing unsound concrete, determine the exact limits of unsound concrete along the surface of the bridge curb to be repaired. (Approximate limits have been identified elsewhere in this Proposal; other areas of unsound concrete curb may be identified by the Engineer.) Mark the curb areas to be removed; mark lines should be straight and as square as possible. In order to keep the removal mark lines straight and as square as possible, this may require marking and removal of some sound concrete. Prior to removing the unsound concrete, saw cut the marked areas to a depth of 1 inch so as to create a neat edge for the curb repairs. Obtain the Engineer's approval of all marked removal areas prior to saw cutting. Saw cutting of the concrete shall be incidental to the contract unit price for 'Repair Concrete Curb'.

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- C. Removal of Existing Concrete. After saw cutting, remove all unsound concrete using hammers weighing 40 pounds or less. Remove concrete to a depth of 1 inch below any reinforcing bar which is more than 25% exposed or that appears to not be bonded to the existing concrete. Ensure that the periphery of routed areas is as nearly vertical as possible. If the removal of unsound concrete extends through two thirds or more of the depth of the curb, remove and replace the entire depth of the curb. Dispose of all removed concrete, debris, and other waste and debris off the Right-of-Way. Protect the plinths from damage throughout the life of the project.
- **D.** Clean, Straighten, Repair, and/or Re-tie Existing Steel Reinforcement. After removing the existing deteriorated concrete, blast clean all exposed steel reinforcement according to Section 606.03.04 to remove scale, rust, grease, oil, and other material that would prevent the adhesion of the concrete to the steel reinforcement. Before placing concrete, straighten and/or retie existing steel reinforcement as directed by the Engineer. Ensure that all exposed steel reinforcement is tied according to Section 602.03.04 prior to placing new Class M Concrete. Straightening and retying of steel reinforcement shall be incidental to the contract unit price for 'Repair Concrete Curb'. Any steel reinforcement that is damaged by the Contractor shall be repaired or replaced as directed by the Engineer at no additional cost to the Department.
- **E.** Additional Steel Reinforcement. After removal of the unsound concrete, the Engineer may determine that portions of the existing steel reinforcement needs to be replaced. Furnish for replacement 200' linear feet of steel reinforcing bar (1/2" diameter by 20' length approximately 134 lbs). Place new steel reinforcement in areas deemed by the Engineer to require additional reinforcement. The Contractor shall retain possession of any unused steel reinforcement. Ensure that any new steel reinforcement is tied according to Section 602.03.04 prior to placing new Class M Concrete.
- **F. Placing Class M Concrete.** Immediately prior to the placement of the Class M Concrete, the surface areas of existing concrete to come in contact with the new Class M Concrete shall be blast cleaned until free of all laitance and deleterious substances, and then coated with an epoxy bond coat in accordance with Section 511. Form the curb to original dimensions and place and consolidate the Class M Concrete according to Section 601.
- **G. Concrete Finish and Cure.** Immediately after placing the Class M Concrete, provide a transverse broom finish to the surface. Ensure that the new concrete is flush and of similar texture with the surrounding existing concrete. Cure the Class M Concrete according to Section 601.03.17. Prior to drilling and attaching the Steel Post Anchorages to any areas of the bridge curb that are repaired, the Contractor shall wait until the Class M Concrete has reached a minimum compressive strength of 3,500 psi.
- **H.** Clean Up and Disposal of Waste. Clean up and dispose of all removed concrete, debris, and other waste and debris off the Right-of-Way at sites obtained by the Contractor at no additional cost to the Department. See Special Provision for Waste and Borrow Sites.

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#### IV. METHOD OF MEASUREMENT

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B.** Site Preparation; Removal of Existing Concrete; Clean, Straighten, Repair, and/or Retie Existing Steel Reinforcement. Other than the bid items listed, the Department will not measure the operations of: Site Preparation; Removal of Existing Concrete; Clean, Straighten, Repair, and/or Re-tie Existing Steel Reinforcement for separate payment but shall be incidental to the contract unit price for 'Repair Concrete Curb'.
- **C. Bridge Concrete Curb Repair.** The Department will measure the quantity in linear feet of curb repaired.
- **D. Steel Reinforcement.** See Section 602.
- **E.** Clean Up and Disposal of Waste. The Department will NOT measure for payment the operations of Clean Up and Disposal of Waste. These activities shall be incidental to the contract unit price for 'Repair Concrete Curb'.

#### V. BASIS OF PAYMENT

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B. Bridge Concrete Curb Repair.** The Department will make payment for the completed and accepted quantities under the bid item 'Repair Concrete Curb'. Payment at the contract unit price per linear foot shall be full compensation for furnishing all materials, equipment, tools, hardware, labor, and incidentals necessary to remove the specified existing concrete; blast clean; straighten, repair, and/or re-tie steel reinforcement; apply the epoxy bond coat; place, consolidate, finish, and cure the Class M Concrete; clean up and dispose of waste; any other items necessary to complete the work as specified by this note.
- C. Steel Reinforcement. See Section 602.

#### SPECIAL NOTE FOR SIGNAGE

The final advisory speeds and some sign types will have to be determined after the curve superelevation improvements and final surfacing operations have been completed. The Contractor shall notify the Engineer and District Traffic Engineer when all of the superelevation improvements and surfacing operations have been completed. Once notified, the Engineer and/or District Traffic Engineer will ball-bank the newly surfaced route to determine which curves require horizontal alignment signing and the appropriate advisory speeds of those curves. The Engineer and/or District Traffic Engineer will provide the Contractor with the final advisory speeds, any changes to proposed sign types, and the final quantities within three (3) weeks of being notified by the Contractor that final surfacing operations are complete. After the Contractor has received this information from the Engineer and/or the District Traffic Engineer, the Contractor shall then proceed to layout and stake the signing according to the Special Note for Staking, included elsewhere in this proposal.

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

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

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

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

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

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

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

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

#### SPECIAL NOTE FOR SIGNING

#### I. DESCRIPTION

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

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

#### II. MATERIALS

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

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B.** Erosion Control. See Special Note for Erosion Control.

#### III. CONSTRUCTION METHODS

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B. Site Preparation.** Be responsible for all site preparation including, but not limited to: clearing and grubbing, staking, excavation, backfill, and removal of obstructions or any other material not covered by other items. Perform all site preparation only as approved, or directed, by the Engineer.
- **C. Staking.** See Special Note for Staking.
- **D. Signs and Posts.** Before beginning installation, the Contractor shall furnish to the Engineer drawings, descriptions, manufacturer's cuts, etc. covering all material to be used. Mill test reports for beams, steel panels, and each different gauge of aluminum or steel sheeting used must be submitted to the Division of Construction and approved prior to erection.

Fabricate sheet signs from .080 or .125 gauge aluminum alloy 5052-H38 or 6061-T6, in accordance with ASTM B-209, and to the size and shape specified. Prepare the side of

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the sheet to be used as the sign face to receive the retroreflective background material according to the recommendations of the sheeting and retroreflective material manufacturer(s). Sheeting used as background material for sign faces is to be the color specified and visually in accordance with the standard requirements of ASTM D-4956, and meet the requirements of Section 830 of the Standard Specifications. Contrary to Section 830.02.06, only the types and colors of sheeting as specified in the proposal will be accepted. All retroreflective material shall be fabricated and assembled in accordance with the specifications and/or recommendations of the manufacturer(s).

All hardware for the erection of sheeting signs shall be rust resistant: stainless steel, zinc coated, aluminum, or an Engineer approved material. All beams and posts shall be of sufficient lengths to extend from the top of the sign to the required embedment in the anchor. Splicing of the sign post shall NOT be allowed. For installations in soil, Type I steel posts shall be mounted on either a standard anchor, with soil stabilizer plate, or on a Type D breakaway sign support. Refer to Sheeting Sign Detail Sheet 1 of 2 for installation details for a standard anchor with soil stabilizer plate. When installing a standard anchor with soil stabilizer plate, if solid rock is encountered, the Contractor shall drill a hole to the required depth into the rock, install the anchor into the hole, and backfill the anchor post with concrete, or other method approved by the Engineer. The cost shall be incidental to Type I steel post, and a soil stabilizer plate will not be required. Refer to Standard Drawing RGX-065, current edition, for installation details of Type D breakaway sign supports. Approved manufacturers for Type D breakaway sign supports have been placed on the list of approved materials. For installations on existing concrete, such as a sidewalk, concrete median, etc., Type I steel posts shall be mounted on a Type D surface mount. For Type D surface mounts there are two permissible alternatives: Kleen Break Model 425 for Surface Mount Concrete Installations by Xcessories Squared of Auburn, IL or Snap n Safe Model S200s for 2" Sign Post by Designovations Inc. of Stilman Valley, IL. Prior to installation, the Contractor shall submit to the Engineer shop drawings of the Type D surface mount(s). Install the Type D surface mount(s) according to all the applicable requirements of the manufacturer (see shop drawings). All steel post shall meet the requirements of Section 832. All hardware including, but not limited to, sign post anchors, soil stabilizer plates, nuts, bolts, washers, fasteners, fittings, and bracing, or any other incidentals necessary to erect the signs shall be furnished by the Contractor and will be incidental to the work.

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

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

- Red, fluorescent yellow, and fluorescent yellow-green (Type IX Sheeting)
- White and yellow (Type III and/or IV Sheeting).

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

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

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

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

- **E. Property Damage.** The Contractor shall be responsible for all damage to public and/or private property resulting from the Contractor's activities. Repair or replace damaged roadway features in like kind materials and design as directed by the Engineer at no additional cost to the Department. Repair or replace damaged private property in like kind materials and design to the satisfaction of the owner and the Engineer at no additional cost to the Department.
- F. Coordination with Utility Companies. Locate all underground, above ground, and overhead utilities prior to beginning construction. Be responsible for contacting and maintaining liaison with all utility companies that have utilities located within the project limits. Do not disturb existing overhead or underground utilities. It is not anticipated that any utility facilities will need to be relocated and/or adjusted; however, in the event that it is discovered that the work does require that utilities be relocated and/or adjusted, the utility companies will work concurrently with the Contractor while relocating their facilities. Be responsible for repairing all utility damage that occurs due to the Contractor's operations at no additional cost to the Department. NOTIFY THE ENGINEER AND THE UTILITY OWNER(S) IMMEDIATELY WHEN IT IS DISCOVERED OR ANTICIPATED THAT ANY UTILITY CONFLICT COULD DELAY THE CONTRACTOR'S OPERATIONS. If the total delay exceeds ten working days, an extension of the specified completion date will be negotiated with the Contractor

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for delay to the Contractor's work; however, no extension will be granted for any delay caused by the Contractor's failure to notify the Engineer and/or the utility company as specified above when a conflict is discovered or anticipated as specified.

- **G. Caution.** The information in this proposal and shown on the plans and the type of work listed herein are approximate only and are not to be taken as an accurate evaluation of the materials and conditions to be encountered during construction; the bidder must draw their own conclusions. The Department does not give any guarantee as to the accuracy of the data and no claim for money or time extension will be considered if the conditions encountered are not in accordance with the information shown.
- **H. Control.** Perform all work under the absolute control of the Department. Obtain the Engineer's approval of all designs required to be furnished by the Contractor prior to incorporation into the work. The Department reserves the right to have other work performed by other contractors and its own forces, and to permit public utility companies and others to do work during the construction within the limits of, or adjacent to, the project. Conduct operations and cooperate with such other parties so that interference with such other work will be reduced to a minimum. The Department will not honor any claims for money or time extension created by the operations of such other parties.

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

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

#### IV. METHOD OF MEASUREMENT

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

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- **B. Site Preparation.** Other than the bid items listed, the Department will NOT measure Site Preparation for payment, but shall be incidental to the project bid items.
- **C. Signs.** The Department will measure the finished in-place area of signs in Square Feet.
- **D. Sign Posts.** The Department will measure the finished in-place length of sign posts in Linear Feet, from the top of the anchor, or top of the sign support, to the top of the sign post. Laps, cutoffs, excess, and waste will NOT be measured for payment.
- **E. Type D Breakaway Sign Supports.** The Department will measure Type D sign supports as Each support installed.
- **F. Type D Surface Mounts.** The Department will measure Type D Surface Mounts as Each surface mount installed.
- **G. Class A Concrete for Signs.** The Department will measure the Class A Concrete used in conjunction with Type D breakaway sign support installations in Cubic Yards. Any concrete that is required as backfill due to hitting rock during a standard installation shall be incidental to the bid item STEEL POST TYPE I, and soil stabilizers will not be required.
- **H. Clean Up, Disposal of Waste, Final Dressing, Seeding and Protection.** The Department will NOT measure for payment the following activities: Clean Up, Disposal of Waste, and Final Dressing. These activities shall be incidental. Seeding and Protection shall be measured according to Section 212.
- **I. Erosion Control.** See Special Note for Erosion Control.
- **J. Remove Sign.** The Department will consider all signs attached to one or more connected posts as a single sign. The Department will measure as Each sign assembly removed and NOT each individual sign removed.
- **K. Items Provided by KYTC.** The Department will NOT measure for payment the installation of signs and/or surface mounts provided by KYTC. These activities shall be incidental to the bid item STEEL POST TYPE I.

#### V. BASIS OF PAYMENT

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B. Signs.** The Department will make payment for the completed and accepted quantities under the bid item SBM ALUM SHEET SIGNS .125 IN or .080 IN. The Department

Signing Page 6 of 6

will consider payment full compensation for all work and incidentals necessary to install the signs, as required by these notes and the details found elsewhere in the proposal, at the locations indicated on the summary sheets, plans, and/or as directed by the Engineer.

- **C. Sign Posts.** The Department will make payment for the completed and accepted quantities under the bid item STEEL POST TYPE I. The Department will consider payment full compensation for all work and incidentals necessary to install the sign posts as required by these notes and the details found elsewhere in the proposal.
- **D. Type D Breakaway Sign Supports.** The Department will make payment for the completed and accepted quantities under the bid item GMSS TYPE D. The Department will consider payment full compensation for all work and incidentals necessary to install the Type D breakaway sign supports as required by Standard Drawing RGX-065, current edition.
- E. Type D Surface Mounts. The Department will make payment for the completed and accepted quantities under the bid item GMSS TYPE D Surface Mount. The Department will consider payment full compensation for all work and incidentals necessary to install the Type D surface mounts according to all applicable manufacturer requirements.

  NOTE: There are two permissible Type D Surface Mount alternatives: Kleen Break Model 425 for Surface Mount Concrete Installations by Xcessories Squared of Auburn, IL or Snap n Safe Model S200s for 2" Sign Post by Designovations Inc. of Stilman, Valley, IL.
- **F.** Class A Concrete for Signs. The Department will make payment for the completed and accepted quantities, used in conjunction with Type D breakaway sign support installations, under the bid item CLASS A CONCRETE FOR SIGNS. The Department will consider payment full compensation for all work and incidentals necessary to install the concrete as required by Standard Drawing RGX-065, current edition.
- **G. Remove Sign.** The Department will make payment for the completed and accepted quantities under the bid item REMOVE SIGN. The Department will consider payment full compensation for all work and incidentals necessary to remove the existing signs, posts, anchors, and any other sign material or hardware, from the locations indicated on the summary sheets, plans, and/or as directed by the Engineer.
- **H. Erosion Control.** See Special Note for Erosion Control.

# SPECIAL NOTE

For Tree Removal

Spencer County KY-44 Safety Improvements Item No. 5-9011

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

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

#### SPECIAL NOTE FOR TREE, STUMP, AND BRUSH REMOVAL

#### I. DESCRIPTION

All work shall be performed in accordance with the Department's current Standard Specifications for Road and Bridge Construction and applicable Special Provisions, except as hereafter specified. Article references are to the Standard Specifications.

This work shall consist furnishing all equipment, labor, materials, and incidentals for the following: (1) Site Preparation; (2) Maintaining and controlling traffic; (3) Temporary erosion control and temporary pollution control; (4) Cutting, trimming, and/or removing trees, stumps, and/or brush as specified or directed by the Project Engineer; (5) Treating all cut stumps required by Project Engineer to prevent re-sprouting; (5) Clean up and disposal of waste; (6) Final dressing and seeding and protection; and (7) all other work specified in the Contract.

#### II. MATERIALS

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

- **A. Maintain and Control Traffic.** The Contractor shall maintain and control traffic in accordance with the Traffic Control Plan.
- **B.** Seeding and Protection. Use applicable Seed Mixture as specified per Section 212.03.03.
- **C. Erosion Control.** See the Special Note for Erosion Control.

#### III. CONSTRUCTION METHODS

- **A. Maintain and Control Traffic.** The Contractor shall maintain and control traffic in accordance with the Traffic Control Plan.
- **B.** Cutting, Trimming, and/or Removing Trees, Stumps, and/or Brush. The Contractor shall cut trees and/or bushes as close to the ground as possible; three inches (3") or less from ground line. The tree trimming listed in the summary shall be cleared as shown on the Tree Trimming Detail. Grinding of all tree stumps within the mowing zone shall be required as directed by the Engineer. All stumps that are listed on the summary and/or directed by the Engineer to be removed, are to be removed via mechanical grinding, or other methods approved by the Engineer, to a minimum depth of four (4) inches below the surrounding grade line. For trees that are cut, but will not be required to have their stump removed, treat the stump, within one hour of cutting, with the specified herbicide solution.

Tree, Stump, & Brush Removal Page 2 of 5

Replace and level any and all soil disturbed during the tree, stump, and brush removal and trimming operations. Leave the soil in a condition suitable for seeding that is level with surrounding soil grade, with no holes or indentions to catch water or present unsafe mowing conditions. This work will be incidental to the bid items "Remove Trees or Stumps" and "Trim and Remove Trees and Brush."

NOTE: Tree cutting restrictions apply. <u>Trees that are five (5) inches or greater (diameter at breast height) shall NOT be cut or trimmed between June 1<sup>ST</sup> and July 31<sup>st</sup>. See the Special Note for Completion Dates & Liquidated Damages concerning damages if trees and/or bushes are cut outside of the specified time frame.</u>

C. Removal of Tree, Stump, and Brush Debris. The Contractor will remove all debris and biomass from the trimming and/or removal of trees, stumps, and/or brush from the work site and dispose of such off the right-of-way in accordance with local, state, and federal solid waste laws and regulations. Cleanup and remove all existing down trees and brush located within the designated areas. At the discretion of the Project Engineer, the contractor may be permitted to chip and blow biomass onto non-mowing zones. Chips shall not be blown onto areas that would potentially restrict the flow of water in drainage ditches. All un-chipped biomass must be removed from roadway right-of-ways.

The Contractor shall keep the work zone free of accumulated waste material and debris at all times. Remove and dispose of all tree, stump, and brush chips off the right-of-way. Remove and dispose of all debris and waste material off the right-of-way as work is completed and at the end of each workday. Remove desirable wood pieces from the right-of-way at the end of each workday. Stockpile trees and brush off the right-of-way. At the discretion of the Project Engineer, the Contractor may be permitted to stockpile trees and brush at approved locations along the right-of-way.

The Contractor shall immediately correct any disturbance to all drainage features and structures caused by the Contractor's work.

**D. Stump Treatment.** Within one hour of cutting, the Contractor shall apply a stump treatment mix consisting of fifty percent (50%) Glyphosate (EPA Reg. No. 524-579) with water and add twelve (12) ounces of Imazapyr (EPA Reg. No. 241-431), as specified, per gallon of solution. The addition of a non-ionic surfactant 5% (v/v) shall be added to the solution to increase uptake of the herbicide solution into the root system. Generic formulations are not acceptable. Mix the herbicide solution in the presence of the Inspector. Include a color indicator in the herbicide solution to mark the treated stumps. Spray or paint the herbicide solution onto all cut stumps within one hour after cutting. Apply the herbicide solution in a manner to avoid drift onto surrounding vegetative ground cover. Stumps in the mowing zone, designated for mechanical grinding treatment, need not receive the herbicide treatment.

Tree, Stump, & Brush Removal Page 3 of 5

Provide herbicide material for the treatment of cut stumps meeting the following criteria:

#### a. Glyphosate

Active ingredient: (Glypnosate)	
*Glyphosate, N-(phosphonomethyl)glycine, in the form of its	
potassium salt	48.7%
Inert ingredients	51.3%
Total	100.0%

\* Contains 660 grams per liter or 5.5 pounds per U.S. gallon of the active ingredient glyphosate, in the form of its potassium salt. Equivalent to 540 grams per liter or 4.5 pounds per U.S. gallon of the acid, glyphosate. EPA Reg. No. 524-579

#### b. Imazapyr

Active ingredient: (Imazapyr)

\* Equivalent to 21.8 percent 2-[4,5-dihydro-4-methyl-4-(1methylethyl)-5oxo-1H-imidazolyl]-3-pyridinecarboxylic acid or 2 pounds acid per gallon. EPA Reg. No. 241-431

KRS 217B requires that any individual who applies pesticides to Kentucky Highway Right-of-Way areas must be certified as a Pesticide Applicator under Category 6 guidelines. Comply with all current laws and regulations established by the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and by KRS 217B that regulate the handling, use, and application of pesticides.

- **E. Property Damage.** The Contractor will be responsible for all damage to public and/or private property resulting from his work.
- F. Coordination with Utility Companies. NOTICE: Utility locations shown in the plans are approximate and have not been specifically located by the Department. Locate all underground, above ground and overhead utilities prior to beginning construction. The Contractor shall have the responsibility for contacting and maintaining liaison with all utility companies that have utilities located within the project limits. Do not disturb existing overhead or underground utilities. It is not anticipated that any utility facilities will need to be relocated and/or adjusted; however, in the event that it is discovered that the work does require that utilities be relocated and/or adjusted, the utility companies will work concurrently with the Utility Owner while they relocate their facilities. The Contractor shall be responsible for repairing all utility damage that occurs as a result of his operations.

Tree, Stump, & Brush Removal Page 4 of 5

- **G. Right-of-Way Limits.** The exact limits of the Right-of-Way have not been established by the Department. The Contractor shall limit his activities to obvious Right-of-Way, permanent or temporary easements, and any work areas secured by consent and release of the adjacent property owners. The Contractor shall be responsible for all encroachments onto private lands.
- **H.** Clean Up, Disposal of Waste. Clean up and dispose of all removed debris by the end of each work day, and other waste as per Section 204.03.08. The Department will incur no cost to obtain the disposal sites. The Department will NOT make direct payment for clean up or disposal of waste and debris from the project. See the Special Provision for Waste and Borrow Sites.
- **I. Final Dressing, Seeding and Protection.** Apply final dressing, class A to all disturbed areas, both on and off the Right-of-Way. Sow all disturbed earthen areas with the appropriate Seed Mixture as specified in Section 212.03.03.
- **J.** Erosion Control. See the Special Note for Erosion Control.

#### IV. METHOD OF MEASUREMENT

- A. Maintain and Control Traffic. See the Traffic Control Plan.
- **B. Site preparation.** Other than the bid items listed, site preparation will NOT be measured for payment, but shall be incidental to the bid items "Remove Trees or Stumps" and/or "Trim & Remove Trees & Brush".
- **C. Remove Trees or Stumps.** The Department will measure the quantity as each tree or stump removed. Trees or stumps to be removed under this bid item are those listed on the Plans or in this Proposal, or as directed by the Engineer.
- **D.** Trim & Remove Trees & Brush. The Department will measure the quantity as per linear foot, per side of the highway. See the Tree Trimming Detail for the horizontal and vertical trimming dimensions. The horizontal width is taken from the edge of pavement measured perpendicular to the roadway but not to extend beyond the obvious Right-of-Way limits, or as directed by the Engineer.
- **E. Stump Treatment.** The Department will NOT measure for payment the operation of Stump Treatment. This activity shall be incidental to the bid items "Remove Trees or Stumps" and/or "Trim & Remove Trees & Brush".
- **F.** Clean Up, Disposal of Waste. The Department will NOT measure for payment the operations of Clean Up and Disposal of Waste. These activities shall be incidental to the project bid items.

Tree, Stump, & Brush Removal Page 5 of 5

- **G. Final Dressing, Seeding and Protection.** The Department will NOT measure for payment the operations of Final Dressing. Seeding and Protection will be measured according to Section 212.
- **H. Erosion Control.** See the Special Note for Erosion Control.

#### V. BASIS OF PAYMENT

- A. Maintain and Control Traffic. See the Traffic Control Plan.
- **B. Remove Trees or Stumps.** The Department will make payment for the completed and accepted quantities of each tree or stump removed. The Department will consider payment at the contract unit price as full compensation for furnishing all materials, equipment, labor, other expenses, and all incidentals necessary to complete the work of removing the trees and/or stumps.
- C. Trim & Remove Trees & Brush. The Department will make payment for the completed and accepted quantities per linear foot. The Department will consider payment at the contract unit price as full compensation for furnishing all materials, equipment, labor, other expenses, and all incidentals necessary to complete the work of trimming and removing the trees and/or brush.
- **D. Erosion Control.** See the Special Note for Erosion Control.

## SPECIAL NOTES FOR COMPLETION DATES & LIQUIDATED DAMAGES

The ultimate fixed completion date for this project will be November 30, 2019. Liquidated Damages for failure to complete the project on time will be assessed following Section 108.09.

Trees and/or bushes that are 5 inches or greater (diameter at breast height) shall not be cut or trimmed between June 1<sup>ST</sup> and July 31<sup>ST</sup>. Any trees and/or bushes that are cut or trimmed between June 1<sup>ST</sup> and July 31<sup>ST</sup> will NOT receive payment at the contract unit price. Furthermore, failure to adhere to these restrictions shall result in Liquidated Damages in the amount of \$308 per affected tree as mitigation to the Indiana Bat Conservation Fund for the loss of habitat. Activities that are a part of this contract that do not involve the initial trimming and/or cutting of trees and/or bushes will be permitted under the ultimate fixed completion date.

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

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

All liquidated damages will be applied accumulatively.

All other applicable portions of Section 108 apply.

#### SPECIAL PROVISION FOR WASTE AND BORROW SITES

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

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

### COORDINATION OF WORK WITH OTHER CONTRACTS

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

1-3193 Coordination Contracts 01/02/2012

#### SPECIAL NOTE FOR DOUBLE ASPHALT SEAL COAT

Use RS-2 or RS-2C asphalt material that is compatible with the seal aggregate. Apply the first course of asphalt seal coat at the rate of 3.2 lbs/sy of asphalt and 30 lbs/sy of size #78 seal coat aggregate. Apply the second course at 2.8 lbs/sy of asphalt and 20 lbs/sy of size #9M seal coat aggregate. The Engineer may adjust the rate of application as conditions warrant. Use caution in applying liquid asphalt material to avoid over spray getting on curbs, gutter, barrier walls, bridges, guardrail, and other roadway appurtenances.

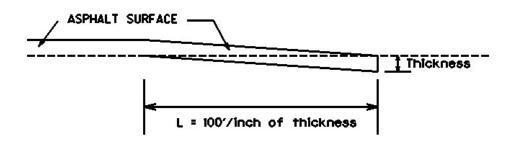
The Department will not measure any surface preparation required prior to applying the asphalt seal coat, but shall be incidental to "Asphalt Material for Asphalt Seal Coat".

1-3215 Double Asphalt Seal Coat 01/02/2012

#### SPECIAL NOTE FOR EDGE KEY

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

# EDGE KEY



Thickness = 1.50 Inches

L = 150 LF

L= Length of Edge Key

1-3309 Edge key by Ton 01/02//2012

#### SPECIAL NOTES FOR GUARDRAIL

#### I. DESCRIPTION

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

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

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

"When the plans call for a Type 1 or Type 4 End Treatment, a MASH eligibility letter from FHWA is required for these end terminals. When a MAASH tested eligibility letter is not available for the end terminal being utilized, the most recent NCHRP 350 eligibility letter from FHWA for that terminal will apply. Acceptance of the terminal will be at the discretion of the engineer."

#### II. MATERIALS

Except as specified herein, provide for all materials to be sampled and tested in accordance with the Department's Sampling Manual and make the materials available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing.

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B.** Guardrail. Furnish guardrail system components according to Section 814 and the Standard and Sepia Drawings; except use steel posts only, no alternates. Furnish approximately 100 Extra Length Post (9 foot length, steel, no alternates).
- **C. Delineators for Guardrail.** Furnish white and/or yellow Delineators for Guardrail according to Standard Drawing RBR-055 Delineators for Guardrail, current edition.
- **D. DGA.** Furnish Dense Graded Aggregate as per Section 805.
- **E. Erosion Control.** See the Special Note for Erosion Control.

#### III. CONSTRUCTION METHODS

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

Guardrail Page 2 of 4

- **B. Site Preparation.** Remove existing guardrail system, including the guardrail end treatments, Bridge End connectors and all other elements of the existing guardrail system as per Section 719, except that the Contractor will take possession of all concrete posts and all concrete associated with the existing bridge and/or guardrail end treatments. Locate all disposal areas off the Right of Way. Be responsible for all site preparation, including but not limited to, clearing and grubbing, excavation, embankment, and removal of all obstructions or any other items; regrading, reshaping, adding and compacting of suitable materials on the existing shoulders to provide proper template or foundation for the guardrail; filling voids left as the result of removing existing guardrail and guard posts with dry sand; temporary pollution and erosion control; disposal of excess, waste materials, and debris; and final dressing, cleanup, and seeding and protection. Perform all site preparation as approved or directed by the engineer.
- C. Guardrail. Except as specified herein, construct guardrail system according to Section 719 and the Standard and Sepia Drawings, current editions. Locations listed on the summary and/or shown on the drawings are approximate only. The Engineer will determine the exact termini for individual guardrail installations and locations for Extra Length Posts at the time of construction. Unless directed otherwise by the Engineer, provide a minimum two (2) foot shoulder width. Construct radii at entrances and road intersections as directed by the Engineer.

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

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

- **D. DGA.** Place and compact DGA along and under the guardrail. Place a Double Asphalt Seal Coat over the entire width of the DGA along and under the guardrail. See the Special Note for Double Asphalt Seal Coat.
- **E. Delineators for Guardrail.** Construct Delineators for Guardrail according to Standard Drawing RBR-055 Delineators for Guardrail, current edition.
- **F. Property Damage.** Be responsible for all damage to public and/or private property resulting from the work. Restore damaged roadway features and private property at no additional cost to the Department.

Guardrail Page 3 of 4

- **G. Coordination with Utility Companies.** Locate all underground, above ground, and overhead utilities prior to beginning construction. Be responsible for contacting and maintaining liaison with all utility companies that have utilities located within the project limits. Do not disturb existing overhead or underground utilities. It is not anticipated that any utility facilities will need to be relocated and/or adjusted; however, in the event that it is discovered that the work does require utilities to be relocated and/or adjusted, the utility companies will work concurrently with the Contractor while relocating their facilities. Be responsible for repairing all utility damage that occurs as a result of guardrail operations at no additional cost to the Department.
- **H. Right of Way Limits**. The Department has not established the exact limits of the Right-of-Way. Limit work activities to obvious Right-of-Way, permanent or temporary easements, and work areas secured by the Department through consent and release of the adjacent property owners. Be responsible for all encroachments onto private lands.
- **I.** Clean Up, Disposal of Waste. Dispose of all removed concrete, debris, and other waste and debris off the Right-of-Way at sites obtained by the Contractor at no additional cost to the Department. See the Special Provision for Waste and Borrow Sites.
- **J. Final Dressing, Seeding and Protection.** Apply Class A Final Dressing to all disturbed areas, both on and off the Right-of-Way. Sow all disturbed earthen areas with the applicable seed mixture(s) according to Section 212.03.03.
- **K.** Erosion Control. See the Special Note for Erosion Control.

#### IV. METHOD OF MEASUREMENT

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B. Site preparation.** Other than the bid items listed, the Department will not measure Site Preparation for separate payment but shall be incidental to the Guardrail, End Treatments, Bridge End Connectors, and Terminal Sections, as applicable.
- C. Guardrail, Extra Length Post, End Treatments, Bridge End Connectors, Terminal Sections, and Remove Guardrail. The Department will measure according to Section 719.04.
- **D. DGA.** The Department will measure according to Section 302.04.
- **E. Delineators for Guardrail.** See Standard Drawing RBR-055 Delineators for Guardrail.
- F. Clean Up, Disposal of Waste, Final Dressing, and Seeding and Protection. The

Guardrail Page 4 of 4

Department will NOT measure for payment the operations of: Clean Up, Disposal of Waste, and Final Dressing. These activities shall be incidental. Seeding and Protection will be measured according to Section 212.

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

#### V. BASIS OF PAYMENT

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B.** Guardrail, Extra Length Post, End Treatments, Bridge End Connectors, Terminal Sections, and Remove Guardrail. The Department will make payment according to Section 719.05.
- **C. DGA.** The Department will make payment according to Section 302.05.
- **D. Delineators for Guardrail.** See Standard Drawing RBR-055 Delineators for Guardrail.
- **E. Erosion Control.** See the Special Note for Erosion Control.

SPENCER COUNTY HSIP 5118 (043)

# SPECIAL NOTE FOR ASPHALT MILLING AND TEXTURING

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

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

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

#### SPECIAL NOTES FOR BASE FAILURE REPAIR

Repair locations listed on the summary are approximate only. The Engineer will determine actual repair locations and dimensions at the time of construction. Prior to milling and/or resurfacing, saw cut the existing pavement, asphalt surface, base, DGA, and PCC pavement (if present). Excavate to an approximate depth of 12 inches below the existing pavement surface level. Use all possible care to avoid damaging existing culvert pipes and any existing underground utilities. Repair or restore any damaged items at no additional cost to the Department. Waste all removed materials off the Right of Way at sites obtained by the Contractor at no additional cost to the Department. See the Special Provision for Waste and Borrow Sites.

On the same day trench is excavated, backfill the excavated area with 4 inches of Crushed Limestone Size No. 23, wrapped on the bottom and sides in Type 3 Geotextile Fabric, and 8 inches of Class 2 Asphalt Base 0.75D PG64-22, in 4 inch maximum courses, up to the existing pavement surface. Compact the asphalt base to the proper compaction as required by Section 403. Seal the asphalt base with leveling and wedging. Perform all base failure repairs in such a manner that removal and replacement are completed on the same day. Do this work as one of the Contractor's first operations in order to allow further compaction by traffic. Do not mill or place new asphalt surface over repaired base failure areas until a minimum of 14 calendar days have elapsed after placement of the final course of asphalt base. After the 14 calendar day waiting period, and/or when the Engineer determines the base failure repair areas have sufficiently stabilized, begin milling and/or resurfacing operations. Prior to milling and/or constructing the new asphalt surface, level and wedge any settlement of the repair areas.

The bidder must draw his or her own conclusions as to the conditions to be encountered. The Department does not give any guarantee as to the accuracy of the data and no claim will be considered for additional compensation of the materials encountered that are not in accord with the classification shown.

Accept payment at the Contract unit prices per square yard for Base Failure Repair and per ton for Leveling and Wedging, Asphalt Pave Milling and Texturing, and CL2 Asph Surf 0.38B PG64-22 as full compensation for all labor, materials, equipment, and incidentals for saw cutting pavement and excavating and disposing of all materials; furnishing and placing crushed limestone stone wrapped in geotextile fabric; furnishing and placing asphalt base up to the pavement boundary; leveling and wedging until the repair areas stabilize; milling and inlaying the final surface patch; and all other items necessary to complete the work according to these notes to the satisfaction of the Engineer.

SPENCER COUNTY HSIP 5118 (043)

#### SPECIAL NOTE FOR TYPICAL SECTION DIMENSIONS

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

 $\begin{array}{c} \hbox{1-3725 Typical Section Dimensions} \\ \hbox{01/02/2012} \end{array}$ 

#### TRAFFIC CONTROL PLAN

#### TRAFFIC CONTROL GENERAL

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

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

#### PROJECT PHASING & CONSTRUCTION PROCEDURES

All work must be completed at all times utilizing lane closures and maintaining alternating one way traffic during construction operations. When lane closures are utilized the clear lane width shall be 10 feet. Asphalt Leveling & Wedging and Asphalt Base used for Superelevation Improvements shall be placed in lifts to ensure pavement drop offs are not excessive, such that 2-lanes of traffic can be maintained overnight. Leveling & Wedging and Asphalt Base thicknesses shall be approved by the Engineer. With approval of the Engineer, short stoppages of no more than 20 minutes for construction operations can be experienced; however, the contractor shall make provisions for the passage of all emergency vehicles and school buses on an official run as quickly as possible in less than the 20 minute allowed stoppage time.

No lane closures will be allowed on the following dates.

Easter Weekend April 19-21, 2019 Memorial Day Weekend, May 24-27, 2019 Independence Day, July 4, 2019

Labor Day Weekend, August 30-September 2, 2019 Thanksgiving Holiday/Weekend, November 27-December 1, 2019

NOTE: The Engineer may specify additional days and hours when lane closures will not be allowed.

The Department will provide public notification regarding approved closures. Notify the Engineer immediately and obtain approval of any deviations from the previously approved closure schedule. The contractor shall be responsible for road closure barricades and signs; work zone and pavement condition signs; advanced warning signs; additional signs as directed by the Engineer; changeable message signs.

Traffic Control Plan Page 2 of 3

#### LANE CLOSURES

Do not leave lane closures in place during non-working hours. Liquidated damages will be assessed per Special Notes for Completion Dates & Liquidated Damages. Under special circumstances, KYTC reserves the right to restrict the use of lane closures due to unforeseen special events.

#### **PAVEMENT MARKINGS**

Place temporary and permanent striping in accordance with Section 112.

#### **TEMPORARY SIGNS**

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

#### CHANGEABLE MESSAGE SIGNS

If deemed necessary by the Engineer, Changeable Message Signs will be provided by the Department. In the event that Changeable Message Signs are deemed necessary, the Contractor may be asked to assist in the placement and setup of the changeable message signs at locations determined by the Engineer, with messages to be displayed determined by the Engineer.

#### **BARRICADES**

Barricades used in lieu of barrels and cones for channelization or delineation will be incidental to Maintain and Control Traffic according to Section 112.04.01. Contrary to Section 112.04.04, barricades not used for channelization purposes and not specified in the Standard Drawings will be incidental to Maintain and Control Traffic.

The Department will measure barricades used for road closures and to protect pavement removal areas in individual units Each. The Department will measure for payment the maximum number of barricades in concurrent use at the same time on a single day on all sections of the contract. The Department will measure individual barricades only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. The Department will not measure replacements for damaged barricades the Engineer directs to be replaced due to poor condition or reflectivity. Retain possession of the Barricades upon completion of construction.

#### **INGRESS AND EGRESS**

Reasonable means of ingress and egress shall be maintained to all properties within the project limits. Access to fire hydrants must also be maintained at all times.

Traffic Control Plan Page 3 of 3

#### PROJECT TRAFFIC COORDINATOR

In addition to the requirements of Section 112.03.12, the Project Traffic Coordinator will be responsible for giving their contact information to local law enforcement and emergency personnel.

#### PAVEMENT EDGE DROP-OFFS

A pavement edge between opposing directions of traffic or lanes that traffic is expected to cross in a lane change situation shall not have an elevation difference greater than 1½". Warning signs (MUTCD W8-9 or W8-9A, or W8-11) shall be placed in advance of and at 1500 feet intervals throughout the drop-off area. Dual posting on both sides of the traveled way shall be required. All transverse transitions between newly surfaced pavement and the existing pavement areas that traffic may cross shall be wedged with asphalt mixture for leveling and wedging. Remove wedges prior to placement of the final surface course.

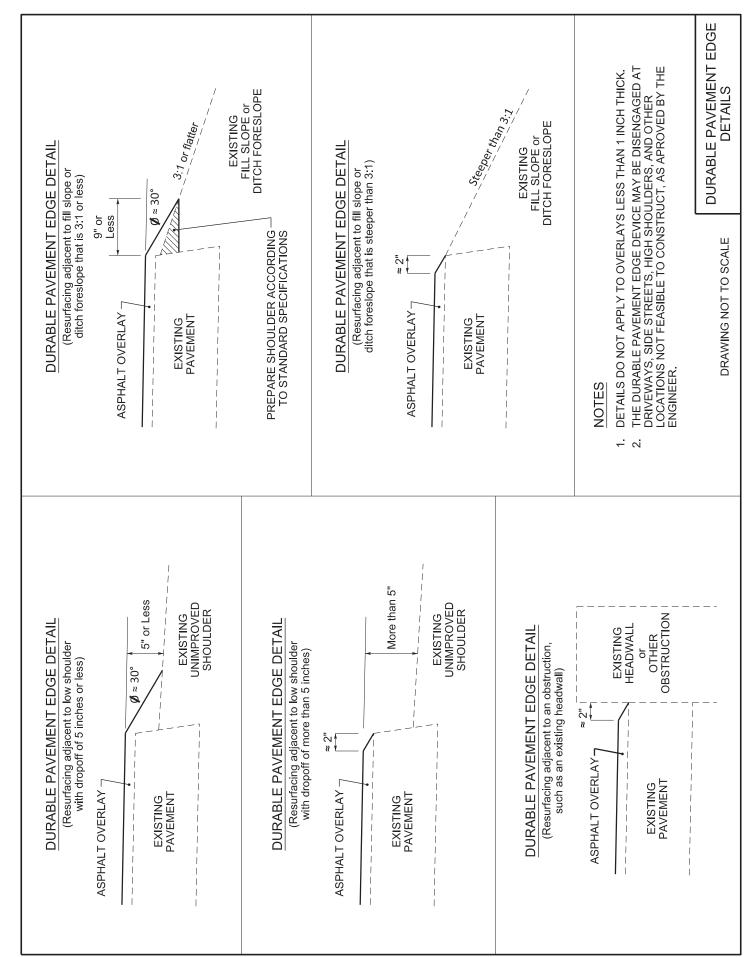
Pavement edges that traffic is not expected to cross, except accidentally, shall be treated as follows:

Less than 2" – No protection required.

2" to 4" – Place plastic drums, vertical panels, or barricades every 50 feet. Cones may be used in place of plastic drums, panels, and barricades during daylight hours. Wedge with asphalt mixture for leveling and wedging with a 1:1 or flatter slope in daylight hours, or 3:1 or flatter slope during nighttime hours, when work is not active in the drop-off area.

Greater than 4" – Protect with a lane closure using drums or barricades; cones will not be allowed for lane closures for drop-offs 4 inches or greater. Place drums or barricades with spacing not to exceed 25 feet. Place Type III Barricades facing oncoming traffic at each drop off. If for any reason traffic must be maintained less than 10 feet from the drop off, wedge with DGA or cuttings from trenching or excavation with 3:1 or flatter slope when work is not actively in progress in the drop-off area. Once excavation begins, work continuously to construct DGA and asphalt base to eliminate the drop-off. Drop-offs greater than 4 inches within 10 feet of traffic will not be allowed during non-working hours.

Temporary drop-offs during working hours, where construction operations are taking place, should be kept to a minimum.



Contract ID: 194201 Page 71 of 252



# 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**

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#### UTILITIES AND RAIL CERTIFICATION NOTE

Spencer County HSIP 5118(043) FD52 108 0044 000-008 Safety Improvements along KY 44 Item No. 5-9011.00

#### **GENERAL PROJECT NOTE ON UTILITY PROTECTION**

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

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

City of Taylorsville Sewer & Water – Water Mains; LG&E - Natural Gas; AT&T – Telephone; and Salt River RECC – Electric. All utilities whose facilities are present are not to be disturbed during construction activities.

City of Taylorsville Sewer & Water has water mains along some segments along KY 44.

STA. 19+50 Approx MP 0.37) To STA. 20+25 (Approx MP 0.38), 12" Water Line, 32.5' LT.

STA.118+18 (Approx MP 2.24), 12" Water Line, 21' LT.

STA. 120+69 (Approx MP 2.29), 12" Water Line, 23.4' LT.

STA. 212+09 (Approx MP 4.02), 12" Water Line, 26.1' RT, 6" Water Line, 45.1' RT.

STA. 272+80 (Approx MP 5.17), 6" Water Line, 25.2' LT.

STA. 328+57 (Approx MP 6.22), 6" Water Line, 30.5' LT.

STA. 375+15 (Approx MP 7.11), 6" Water Line, 30.1' LT.

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

Louisville Gas & Electric has natural gas mains along some segments along KY 44. These facilities are to remain in place and are not to be disturbed.

AT&T has utility poles along some segments along KY 44. These facilities are to remain in place and are not to be disturbed.

**Salt River RECC** has utility poles along some segments along KY 44. **These facilities are to remain in place and are not to be disturbed.** 

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

THE FOLLOWING COMPANIES ARE RELOCATING/ADJUSTING THEIR UTILITIES WITHIN THE PROJECT LIMITS

AND WILL BE COMPLETE PRIOR TO CONSTRUCTION

None

#### **UTILITIES AND RAIL CERTIFICATION NOTE**

Spencer County HSIP 5118(043) FD52 108 0044 000-008 Safety Improvements along KY 44 Item No. 5-9011.00

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

None

THE FOLLOWING COMPANIES HAVE FACILITIES TO BE RELOCATED/ADJUSTED BY THE ROAD

CONTRACTOR AS INCLUDED IN THIS CONTRACT

None

LLOWING RAIL COMPANIES HAVE FACILITIES IN CONJUNCTION WITH THIS PROJECT AS NOTED

THE FOLLOWING RAIL CO	MPANIES HAVE FACILITIES IN CONJUNCTION W	/ITH THIS PROJECT AS NOTED
☑ No Rail Involved	☐ Minimal Rail Involved (See Below)	☐ Rail Involved (See Below)

#### UTILITIES AND RAIL CERTIFICATION NOTE

Spencer County HSIP 5118(043) FD52 108 0044 000-008 Safety Improvements along KY 44 Item No. 5-9011.00

#### UNDERGROUND FACILITY DAMAGE PROTECTION - BEFORE YOU DIG

The contractor shall make every effort to protect underground facilities from damage as prescribed in the Underground Facility Damage Protection Act of 1994, Kentucky Revised Statute KRS 367.4901 to 367.4917. It is the contractor's responsibility to determine and take steps necessary to be in compliance with federal and state damage prevention directives. The contractor is instructed to contact KY 811 for the location of existing underground utilities. Contact shall be made a minimum of two (2) and no more than ten (10) business days prior to excavation.

The contractor shall submit Excavation Locate Requests to the Kentucky Contact Center (KY 811) via web ticket entry. The submission of this request does not relieve the contractor from the responsibility of contacting non-member facility owners, whom are to be contacted through their individual Protection Notification Center. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area. Non-compliance with these directives can result in the enforcement of penalties.

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

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

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

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

#### **UTILITIES AND RAIL CERTIFICATION NOTE**

Spencer County HSIP 5118(043) FD52 108 0044 000-008 Safety Improvements along KY 44 Item No. 5-9011.00

#### **AREA UTILITIES CONTACT LIST**

Utility Company/Agency	Contact Name	<b>Contact Information</b>
<ol> <li>AT&amp;T</li> <li>3719 Bardstown Rd</li> <li>Louisville KY 40218</li> </ol>	Scott Roche	502.348.4528 sr8832@att.com
<ol> <li>Louisville Gas &amp; Electric</li> <li>820 West Broadway</li> <li>Louisville KY 40202</li> </ol>	Greg Geiser	502.627.3708 greg.geiser@lge-ku.com
<ol> <li>Salt River RECC</li> <li>111 W. Brashear Avenue</li> <li>Bardstown KY 40004</li> </ol>	Daniel Carrico	502.350.1606 dcarrico@srelectric.com
<ol> <li>City of Taylorsville Sewer &amp; Water 70 Taylorsville Rd</li> <li>Taylorsville KY 40071</li> </ol>	er Harold Compton	502.477.3235 hcompton@taylorsvillewater.org

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

## N O T I C E

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

**PROJECT:** Bullitt/Spencer County, Item No. 5-9011 KY 44 shoulder improvements/widening

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

Station 174+28 Minor shoulder widening. The **ephemeral** stream a UT to Plum Creek will have

impacts below the normal high water mark due to widening of the crossing and construction of headwalls. The estimated area of impact is 19 linear feet and

**0.0001 acres**. The drainage area at the bridge is **8 acres**.

Station 308+99 Culvert extension to accommodate shoulder widening on an U.T. of Elk Creek. The

**ephemeral** stream will have impacts below the normal high water mark. The estimated area of impact is **20 linear feet** and **0.0002** acres. The drainage area at the

bridge is 9 acres.

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

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

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



MATTHEW G. BEVIN

CHARLES G. SNAVELY
SECRETARY

### ENERGY AND ENVIRONMENT CABINET DEPARTMENT FOR ENVIRONMENTAL PROTECTION

R. BRUCE SCOTT

300 Sower Boulevard FRANKFORT, KENTUCKY 40601

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

#### Further information:

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

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

#### COORDINATING RESOURCE AGENCIES

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

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

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

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

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

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

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

#### <u>Terms for Nationwide Permit No. 14</u> <u>Linear Transportation Projects</u>

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

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

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

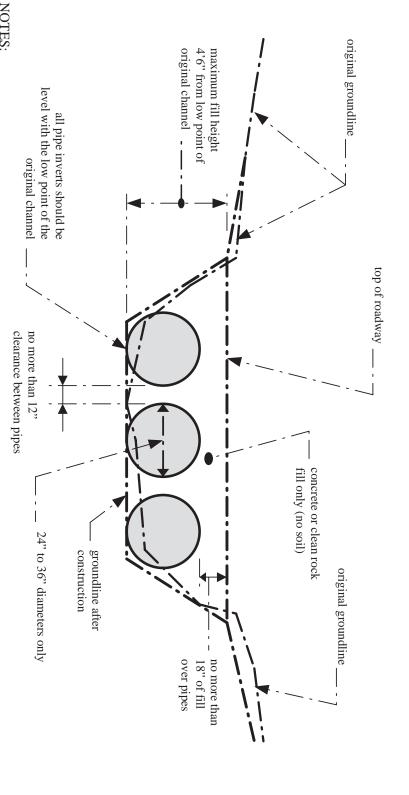
Notification: The permittee must submit a pre-construction notification to the district engineer prior to commencing the activity if: (1) the loss of waters of the United States exceeds 1/10-acre; or (2) there is a discharge in a special aquatic site, including wetlands. (See general condition 32.) (Authorities: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

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

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

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

# **ATTACHMENT 1**



- . This is a conceptual drawing. The number and size of pipes and other details will vary depending on specific site conditions.
- crushed stone, or other stable road construction materials. This may only be done, however, with the following provisions: (1) the disposal The pipes and backfill must be contained within the stream channel as shown above. During the construction of the approaches and access may be no more than three inches (3") above the pre-construction surface of the floodplain at any point beyond the top of banks. of excess, unconsolidated materials thus excavated must be outside of the floodplain and (2) the finished surface of the completed road roadway across the floodplain, unstable and unconsolidated materials unsuitable for roadways may be excavated and replaced with riprap,

# LOW-WATER CROSSING

STANDARD DRAWING

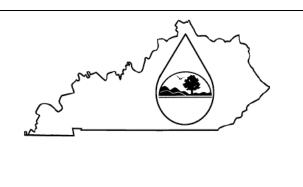
Not to Scale

# CID 18-4114 Spencer County Highway Safety Improvement Project along KY 44 from MP 0.000 – 7.545 Item No.: 5-9011.00

An electronic Notice of Intent (eNOI) for obtaining coverage under the Kentucky Pollutant Discharge Elimination System (KPDES) General Permit for Stormwater Discharges Associated with Construction Activities (KYR10) has been drafted, a copy of which is attached. Upon award, the Contractor will be identified in Section III of the form as the "Building Contractor" and the eNOI will be submitted for approval to the Kentucky Division of Water. The Contractor shall be responsible for advancing the work within this contract 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.

eForm Submittal ID: 126137

Contract ID: 194201 Page 88 of 252



#### KENTUCKY POLLUTION DISCHARGE

#### **ELIMINATION SYSTEM (KPDES)**

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

Click here for Instructions (Controls/KPDES FormKYR10 Instructions.htm)

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

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

Reason for Submittal:(*)	Agency Interest ID:				Permit Number:(√)		
Application for New Permit Coverage ▼	Agency Interest ID				KPDES Permit Number		
If change to existing permit coverage is requested, describ	e the changes	for which mod	ification of cove	rage is being s	ought:(√)		
ELIGIBILITY: Stormwater discharges associated with construction activi construction activities that cumulatively equal one (1) acre	_	-	e (1) acre or mo	re, including, ir	the case of a	common plan c	of development, contiguous
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 (PE	RMITTEE)						
Company Name:(√)		First Name:(	√)		M.I.:	Last Name:(	<b>√</b> )
Kentucky Transportation Cabinet, District 5		Matthew			MI	Bullock	
Mailing Address:(*)	City:(*)			State:(*)			Zip:(*)
8310 Westport Road	Louisville			Kentucky		•	40242
eMail Address:(*)			Business Phone:(*)			Alternate Phone:	
Matt.Bullock@ky.gov			502-210-5400		Phone		
SECTION II GENERAL SITE LOCATION INFORMATIO	N						
Project Name:(*)			Status of Owner/Operator(*)  SIC Code(*)				
KYTC Project: CID 184114			State Government •			1611 Highway and Street Const ▼	
Company Name:(√)		First Name:(	·(/) M1·		M.I.:	Last Name:(√)	
кутс		Matt	MI			Bullock	
Site Physical Address:(*)				<u> </u>			
KY-44							
City:(*)			State:(*)			Zip:(*)	
Taylorsville			Kentucky ▼			40071	
County:(*)	Latitude(deci	imal degrees)(	*)DMS to DD Co	nverter	Longitude(de	cimal degrees	)(*)
Spencer (https://www.fcc.gov/medi		_	a/radio/dms-decimal)		-85.429722		
	38.036944						
SECTION III SPECIFIC SITE ACTIVITY INFORMATION	1 👰						
Project Description:(*)							
Highway Safety Improvement Project consisting of vario	us improveme	nts such as As	phalt Paving, Sh	ouldering, Dito	ching, Guardrail	Replacement,	Pipe Extension, Slope In
a. For single projects provide the following information							

#### Kentucky EEC eForms

Contract ID: 194201 Page 89 of 252

Total Number of Acres in Project	ct:(√)			Total Number of Ac	res Disturbed:(√)		
29.4	29.4		5.0				
Anticipated Start Date:(√)		Anticipated Comple	etion Date:(√)				
L F		f_11					
b. For common plans of dev	reiopment provide the	lollowing information					
Total Number of Acres in Project	ct:(√)			Total Number of Ac	res Disturbed:(√)		
# Acre(s)				# Acre(s)			
N. 1. 6: P.1. 11.4 : 1				N 1 (11:1	1 ( / / )		
Number of individual lots in dev	reiopment, it applicable	9:(√)		Number of lots in de	evelopment:(\forall )		
# lot(s)				# lot(s)			
Total acreage of lots intended t	o be developed:(√)			Number of acres in	tended to be disturbed at a	any one time:(√)	
Project Acres				Disturbed Acres		<b>,</b>	
1 Toject Acres				Disturbed Acres			
Anticipated Start Date:(√)				Anticipated Comple	etion Date:(√)		
List Building Contractor(s) at the	e time of Application:(	*)			1		
Company Name							
+							
4							<b>)</b>
SECTION IV IF THE PERMI	TTEN SITE DISCHAR	GES TO A WATER F	BODY THE E		ATION IS REQUIRED 📵		
OLOTION IV II THET LINII	TIED ONE DICONATO	OLO 10 / W/(ILIVE	JOBI IIILI	JELOVII VO II VI OI (IVI)	THOR TO TREGOTRED (		
Discharge Point(s):							
Unnamed Tributary?	Latitude	Longitude	1	Water Name			
1 Yes	38.036982	-85.431451	Salt Rive		Delete		
2 Yes	38.039463	-85.442606	Salt Rive		Delete		
3 Yes 4 Yes	38.039586 38.039656	-85.441530 -85.440672	Salt Rive		Delete Delete		
5 Yes	38.039706	-85.439546	Salt Rive		Delete		
6 Yes	38.040219	-85.447838	Salt Rive		Delete		
7 Yes	38.040959	-85.450033	Salt Rive	r	Delete		
8 Yes	38.041434	-85.451474	Salt Rive	r	Delete		
9 Yes	38.041738	-85.453352	Salt Rive		Delete		
10 Yes	38.045244	-85.455895	Salt Rive	r	Delete		
OFOTIONING IS THE DEDINIT		250 70 4 404 7115					
SECTION V IF THE PERMIT	TED SITE DISCHARG	SES TO A MS4 THE	FOLLOWING	INFORMATION IS R	EQUIRED 👩		
Name of MS4:							
							•
Date of application/notification	to the MS4 for constru	ction site permit cove	erage:	Discharge Point(s):	(*)		
Date				Latitude	Longitude		
Date				+			
				1			-
OFOTIONIA MAIL THE CO	VIEOT DEOLUCE CC.	IOTOLIOTION: * O="	//TIEO 14: 4 ··	(ATED BODY OF T: :-	DIDADIAN 701-0		
SECTION VI WILL THE PRO	DJECT REQUIRE CON	ISTRUCTION ACTIV	VITIES IN A V	ATER BODY OR THE	E RIPARIAN ZONE?		
SECTION VI WILL THE PRO Will the project require construc					E RIPARIAN ZONE?		•
				/ATER BODY OR THE	E RIPARIAN ZONE?		•
Will the project require construct (*)	ction activities in a wat			No			<b>v</b>
Will the project require construction	ction activities in a wat						<b>v</b>
Will the project require construct (*)  If Yes, describe scope of activiting	ction activities in a wat			No describe scope o			•
Will the project require construct (*)	ction activities in a wat			No			•

First Name:(*) First Name								
First Name	M.I.:	Last Name:(*)			Company Name:(*)			
	MI	Last Nam	e		Company Name			
Mailing Address:(*)		City:(*)			State:(*)		Zip:(*)	
Mailing Address		City			Kentucky ▼		Zip	
eMail Address:(*)				Business Ph	one:(*)	Alternate Ph	none:	
eMail Address				Phone		Phone		
SECTION VIII ATTACHMENTS								
Facility Location Map:(*)				Upload file				
Supplemental Information:			Upload file					
SECTION IX CERTIFICATION								
certify under penalty of law that this qualified personnel properly gather a responsible for gathering the informa submitting false information, includir	and evaluate the intaction submitted is, t	ormation submitt o the best of my	ed. Based on m knowledge and	ny inquiry of the belief, true, acc	person or persons who ma	anage the system	, or those persons directly	
Signature:(*)					Title:(*)			
Signature					Title			
First Name:(*)  M.I.:			M.I.:		Last Name:(*)			
iistivame.( )	First Name MI				Last Name			
		eMail Address:(*)  Business Phone:(*)			Alternate Phone: Signature Date:(			
First Name		Business Ph	none:(*)		Alternate Phone:		Signature Date:(*)	



# Kentucky Transportation Cabinet Highway District 05

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(2)	),	Construction
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## Kentucky Pollutant Discharge Elimination System Permit KYR10 Best Management Practices (BMP) plan

**Groundwater protection plan** 

**For Highway Construction Activities** 

For

Highway Safety Improvement Project on KY 44 in Spencer County

**Project: CID 18-4114** 

KPDES BMP Plan Page 1 of 14

#### **Project information**

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

- 1. Owner Kentucky Transportation Cabinet, District 05
- 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 44
- 6. Latitude/Longitude (project mid-point): 38.036944°, -85.429722°
- 7. County (project mid-point): Spencer
- 8. Project start date (date work will begin): (2)
- 9. Projected completion date: (2)

#### A. Site description:

- 1. Nature of Construction Activity (from letting project description): Asphalt Pavement & Roadway Rehab
- 2. Order of major soil disturbing activities: (2) and (3)
- 3. Projected volume of material to be moved: This project does not involve significant cut and fill.
- 4. Estimate of total project area (acres): 29.4
- 5. Estimate of area to be disturbed (acres): 5.0
- 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: (1) & (2)
- 8. Data describing existing discharge water quality (if any): (1) & (2)
- 9. Receiving water name: Salt River
- 10. TMDLs and Pollutants of Concern in Receiving Waters: *No TDML's were involved on this project.*
- 11. Site map Project layout sheet plus the erosion control sheets in the project plans that depict Disturbed Drainage Areas (DDAs) and related information. These sheets depict the existing project conditions with areas delineated by DDA (drainage area bounded by watershed breaks and right of way limits), the storm water discharge locations (either as a point discharge or as overland flow) and the areas that drain to each discharge point. These plans define the limits of areas to be disturbed and the location of control measures. Controls will be either site specific as designated by the designer or will be annotated by the contractor and resident engineer before disturbance commences. The project layout sheet shows the surface waters and wetlands.

#### 12. Potential sources of pollutants:

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

KPDES BMP Plan Page 3 of 14

#### **B. Sediment and Erosion Control Measures:**

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

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

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

KPDES BMP Plan Page 4 of 14

- 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 pipes 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 and drop inlets after they are placed
  - Channel Lining
  - Erosion Control Blanket
  - Temporary mulch and/or seeding for areas where construction activities will be ceased for 21 days or more.
  - Non-standard or innovative methods
- Profile and X-Section in place The BMP Plan will be modified to show elimination of BMP's which had to be removed and the addition of new BMP's as the roadway was shaped. Probably changes include:
  - Silt Trap Type A, Brush and/or other barriers, Temporary Mulch, and any other BMP which had to be removed for final grading to take place.
  - Additional Silt Traps Type B and Type C to be placed as final drainage patterns are put in place.
  - Additional Channel Lining and/or Erosion Control Blanket.
  - Temporary Mulch for areas where Permanent Seeding and Protection cannot be done within 21 days.
  - Special BMP's such as Karst Policy
- Finish Work (Paving, Seeding, Protect, etc.) A final BMP Plan will result from modifications during this phase of construction. Probable changes include:
  - Removal of Silt Traps Type B from ditches and drainways if they are protected with other BMP's which are sufficient to control erosion, i.e. Erosion Control Blanket or Permanent Seeding and Protection on moderate grades.
  - Permanent Seeding and Protection

KPDES BMP Plan Page 5 of 14

- 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: This project does not include storm water BMPs or flow controls for post-construction use.

#### C. Other Control Measures

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

#### 2. Waste Materials

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

#### 3. Hazardous Waste

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

#### 4. Spill Prevention

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

#### Good Housekeeping:

KPDES BMP Plan Page 6 of 14

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

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

#### Hazardous Products:

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

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

#### The following product-specific practices will be followed onsite:

#### Petroleum Products:

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

KPDES BMP Plan Page 7 of 14

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

#### > Fertilizers:

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

#### > Paints:

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

#### Concrete Truck Washout:

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

#### Spill Control Practices

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

- Manufacturers' recommended methods for spill cleanup will be clearly posted. All personnel will be made aware of procedures and the location of the information and cleanup supplies.
- Materials and equipment necessary for spill cleanup will be kept in the material storage area. Equipment and materials will include as appropriate, brooms, dust pans, mops, rags, gloves, oil absorbents, sand, sawdust, and plastic and metal trash containers.
- All spills will be cleaned up immediately after discovery.
- The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contract with a hazardous substance.

KPDES BMP Plan Page 8 of 14

- 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. There are no other local (MS4) requirements that are expected to be necessary for this project

#### E. Maintenance

- 1. The BMP plan shall include a clear description of the maintenance procedures necessary to keep the control measures in good and effective operating condition.
- Maintenance of BMPs during construction shall be a result of weekly and post rain event inspections with action being taken by the contractor to correct deficiencies.
- Post Construction maintenance will be a function of normal highway maintenance operations. Following final project acceptance by the cabinet, district highway crews will be responsible for identification and correction of deficiencies regarding ground cover and cleaning of storm water BMPs. The project manager shall identify any BMPs that will be for the purpose of post construction storm water management with specific guidance for any non-routine maintenance. There are no such BMP's.

#### F. Inspections

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

KPDES BMP Plan Page 9 of 14

- 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 reseeded / mulched as needed.
- Temporary and permanent seeding and mulching will be inspected for bare spots, washouts, and healthy growth. Bare or eroded areas will be repaired as needed.
- ➤ All material storage and equipment servicing areas that involve the management of bulk liquids, fuels, and bulk solids will be inspected weekly for conditions that represent a release or possible release of pollutants to the environment.

#### G. Non - Storm Water discharges

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

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

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Uncontaminated groundwater and rain water (from dewatering during excavation).

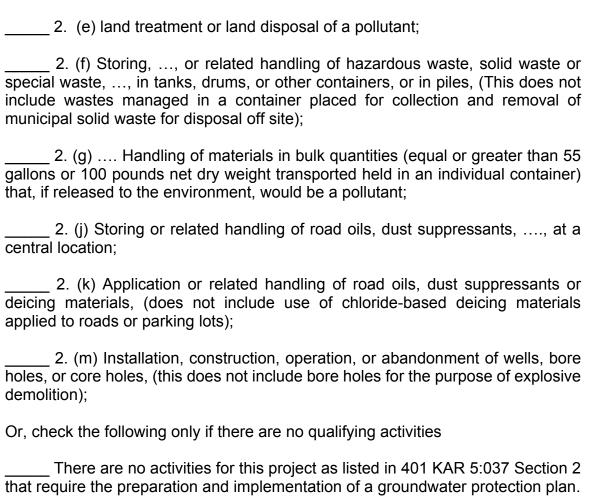
All non-storm water discharges will be directed to the sediment basin or to a filter fence enclosure in a flat vegetated infiltration area or be filtered via another approved commercial product.

#### 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:



KPDES BMP Plan Page 11 of 14

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

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

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

Resident Engineer and Contractor Certification:

(2) Resident Enginee	r signature		
Signed Typed or pr	title inted name²	,signature	
(3) Signed	title	,	
Typed or prin	ted name <sup>1</sup>	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, KPDES Branch, Division of Water, 14 Reilly Road, Frankfort Kentucky 40601. Reference the Project Control Number (PCN) and KPDES number when one has been issued.
- 2. KyTC note: to be signed by the Chief District Engineer or a person designated to have the authority to sign reports by such a person (usually the resident engineer) in accordance with 401 KAR 5:060 Section 9. This delegation shall be in writing to: Manager, KPDES Branch, Division of Water, 14 Reilly Road, Frankfort Kentucky 40601 Reference the Project Control Number (PCN) and KPDES number when one has been issued.

#### Contract ID: 194201 Page 104 of 252

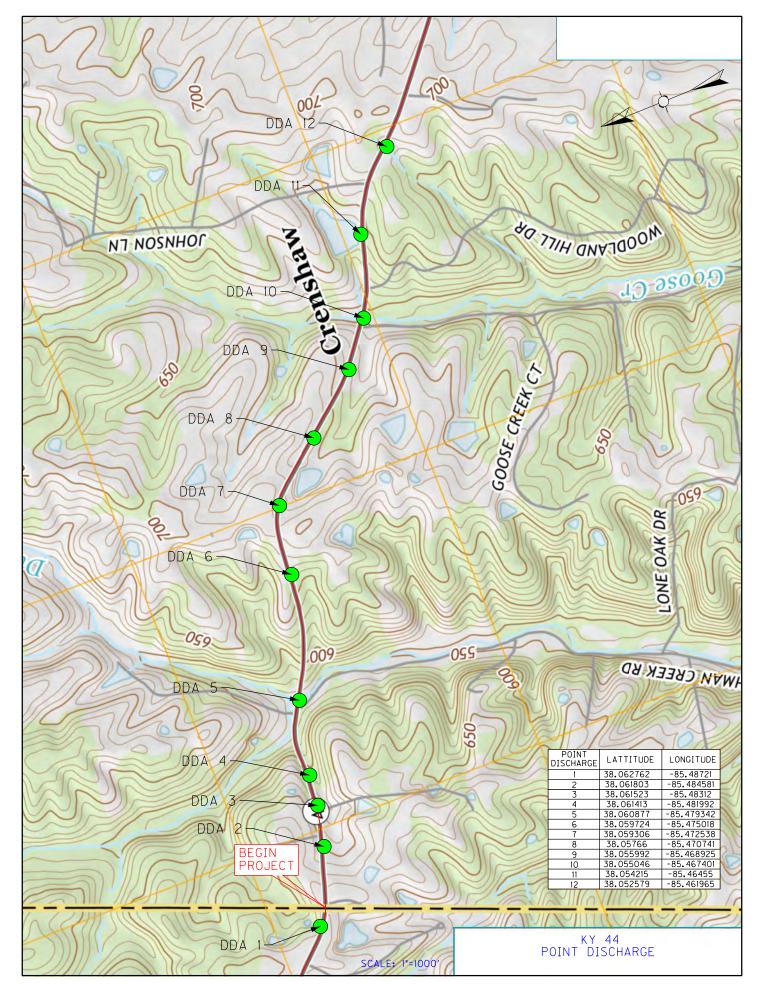
#### KYTC BMP Plan for Project CID 18-4114

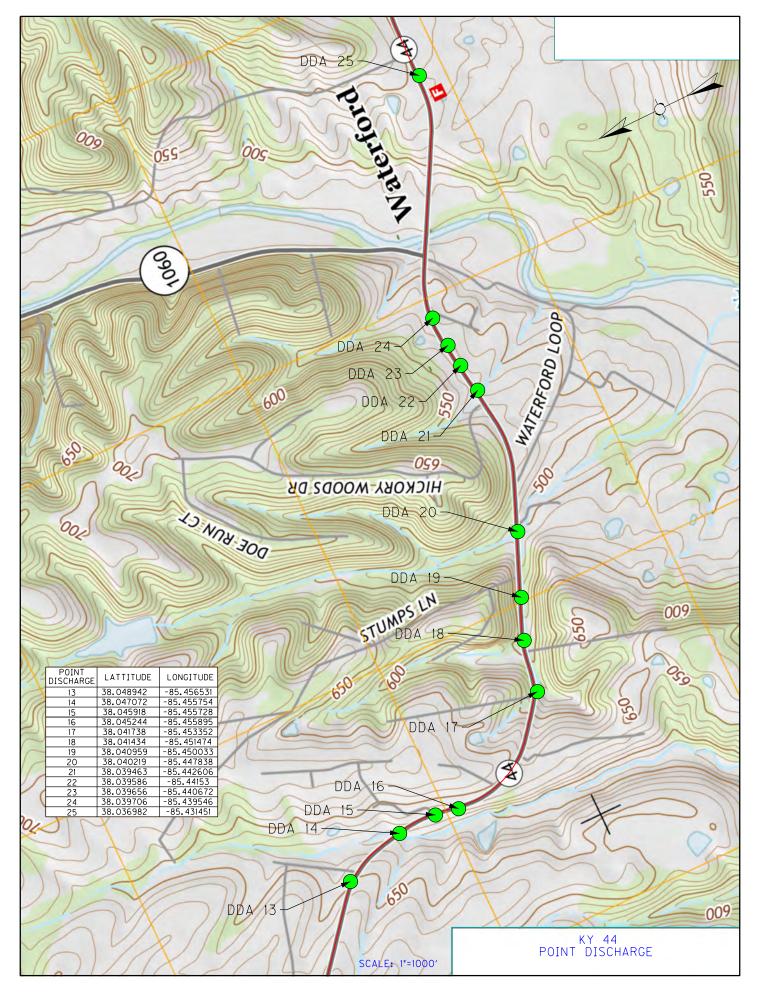
#### **Sub-Contractor Certification**

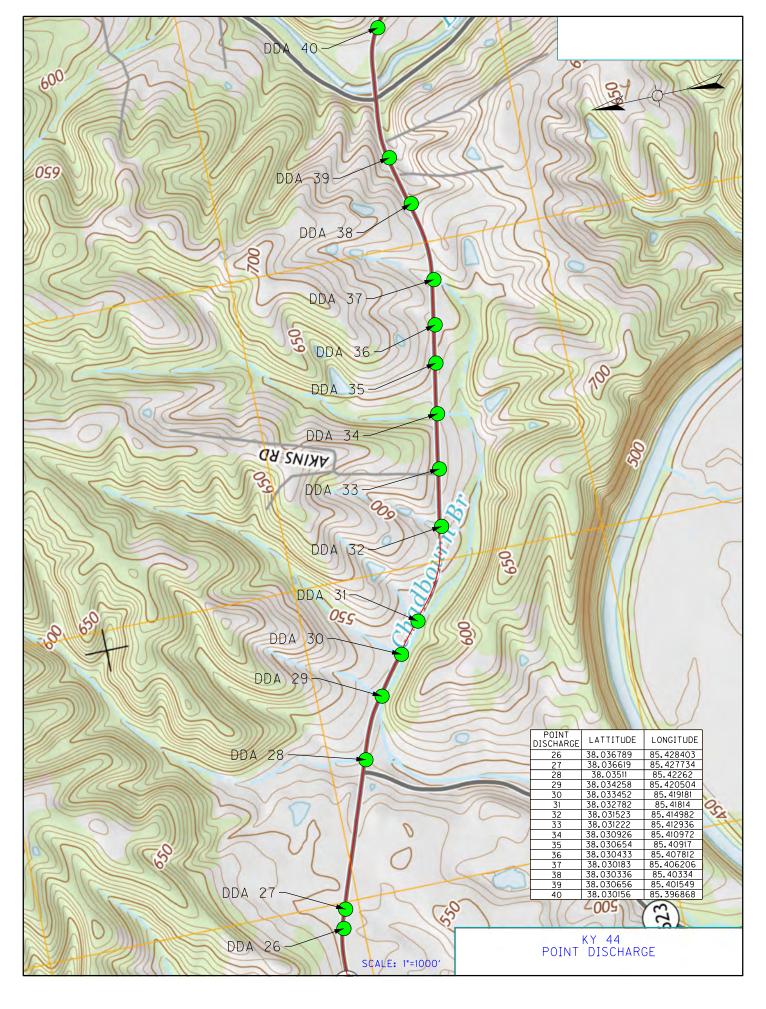
The following sub-contractor shall be made aware of the BMP plan and responsible for implementation of BMPs identified in this plan as follows:

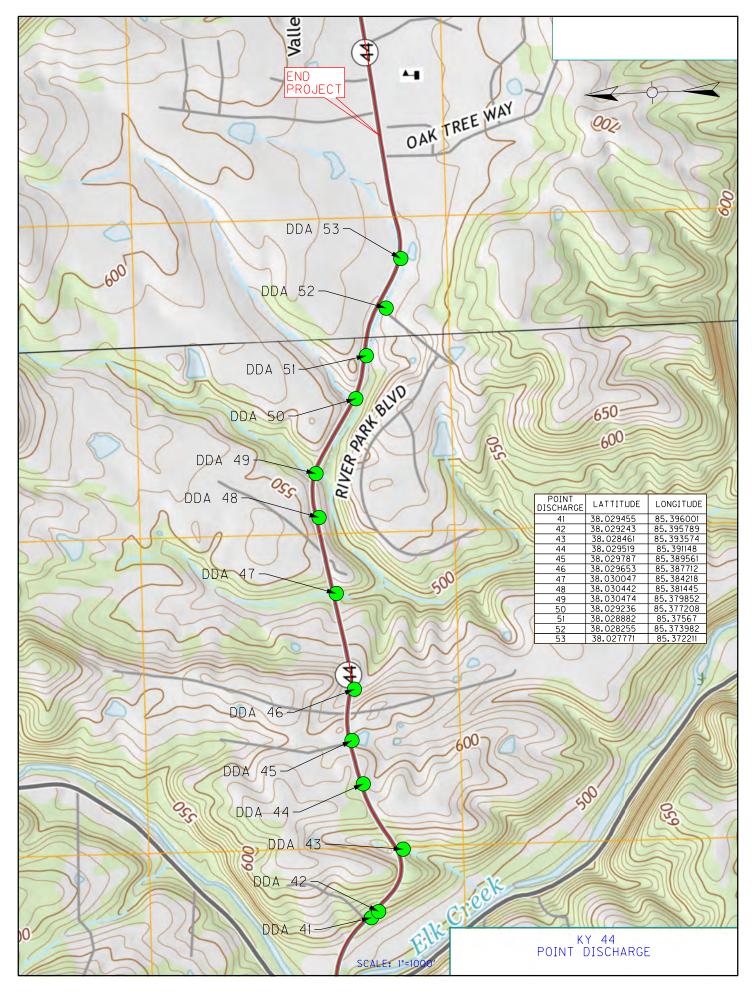
Subcont	tractor	
A	Name: Address: Address:	
P	Phone:	
The part	t of BMP plan this subcontractor is responsible to imple	ment is:
Kentucky discharg discharg	under penalty of law that I understand the terms and ky Pollutant Discharge Elimination System permit that a ges, the BMP plan that has been developed to manage ged as a result of storm events associated with the cor ement of non-storm water pollutant sources identified as	uthorizes the storm water the quality of water to be astruction site activity and
Signed _	title,	signature
resp	Sub Contractor Note: to be signed by a persor consible corporate officer, a general partner or the ignated to have the authority to sign reports by such	proprietor or a person

with 401 KAR 5:060 Section 9. This delegation shall be in writing to: Manager, KPDES Branch, Division of Water, 14 Reilly Road, Frankfort Kentucky 40601. Reference the Project Control Number (PCN) and KPDES number when one has been issued.









### **SPENCER COUNTY HSIP KY 44**



**Kentucky Transportation Cabinet** 200 Mero St, Suite W-5 Frankfort, KY 40601 Phone: (502) 564-4890



Date: 2/13/2017

SPENCER COUNTY HSIP 5118 (043)



### **General Summary**

Spencer County KY 44



Contract ID: 194201

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Content:

**General Summary** 

Item No.

5-9011.00

Item	Description	Unit	Qty	notes
1	DENSE GRADED AGGREGATE	TON	1474	1
20	TRAFFIC BOUND BASE	TON	17	
100	ASPHALT SEAL AGGREGATE	TON	243	2
190	LEVELING AND WEDGING	TON	213	4
221	CL2 ASPH BASE 0.75D PG64-22	TON	1077	
307	CL2 ASPH SURF 0.38B PG64-22	TON	1337	5
356	ASPHALT MATERIAL FOR TACK	TON	6	6
103 440	ASPHALT SEAL COAT ENTRANCE PIPE-15 IN	TON LF	30 45	3
462	CULVERT PIPE-18 IN	LF	284	7
464	CULVERT PIPE-24 IN	LF	124	7
1208	PIPE CULVERT HEADWALL-24 IN (STANDARD)	EACH	1	,
1310	REMOVE PIPE	LF	160	7
1490	DROP BOX INLET TYPE 1	EACH	5	
1726	SAFETY BOX INLET-18 IN SDB-1	EACH	5	7
1727	SAFETY BOX INLET-24 IN SDB-1	EACH	2	7
1728	SAFETY BOX INLET-18 IN DBL SDB-5	EACH	1	
1987	DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	EACH	212	
2625	REMOVE HEADWALL	EACH	39	
2355	GUARDRAIL-STEEL W BEAM-S FACE A	LF	200	
2360	GUARDRAIL TERMINAL SECTION NO 1	EACH	18	
2367	GUARDRAIL END TREATMENT TYPE 1	EACH	47	
2373	GUARDRAIL END TREATMENT TYPE 3	EACH	4	0
2381	REMOVE GUARDRAIL	LF	11510	8
2391 2399	GUARDRAIL END TREATMENT TYPE 4A  EXTRA LENGTH GUARDRAIL POST (9 FT POST)	EACH EACH	100	
2460	REMOVE TREES OR STUMPS	EACH	100	
2483	CHANNEL LINING CLASS II	TON	568	7,9
2562	TEMPORARY SIGNS	SQFT	200	7,7
2569	DEMOBILIZATION	LS	1	
2575	DITCHING AND SHOULDERING	LF	32937	7
2650	MAINTAIN & CONTROL TRAFFIC	LS	1	,
2676	MOBILIZATION FOR MILLING & TEXTURING	LS	1	
2677	ASPHALT PAVE MILLING & TEXTURING	TON	744	10
2697	EDGELINE RUMBLE STRIPS	LF	7988	
2701	TEMP SILT FENCE	LF	4000	
2704	SILT TRAP TYPE B	EACH	12	
2705	SILT TRAP TYPE C	EACH	26	
2707	CLEAN SILT TRAP TYPE B	EACH	12	
2708	CLEAN SILT TRAP TYPE C	EACH	26	
2726	STAKING	LS	1	
3240	BASE FAILURE REPAIR	SQYD LF	2324	
3269 5950	TRIM & REMOVE TREES & BRUSH EROSION CONTROL BLANKET	SQYD	600 5000	
5963	INITIAL FERTILIZER	TON	0.1	
5964	20-10-10 FERTILIZER	TON	0.3	
5992	AGRICULTURAL LIMESTONE	TON	3	
6406	SBM ALUMINUM SHEET SIGNS .080 IN	SQFT	271.78	
6407	SBM ALUMINUM SHEET SIGNS .125 IN	SQFT	18	
6410	STEEL POST TYPE 1	LF	762	
6510	PAVE STRIPING-TEMP PAINT-4 IN	LF	15976	
6514	PAVE STRIPING-PERM PAINT-4 IN	LF	159350	
6572	PAVE MARKING-DOTTED LANE EXTEN	LF	150	11
8806	GUARDRAIL-BRIDGE CASE I-A	LF	575	
8810	PRECAST CONC BRIDGE RAIL BLOCK	EACH	8	
8811	REMOVE BRIDGE RAIL	LF	575	
10020NS	FUEL ADJUSTMENT	DOLL	5634	
10030NS	ASPHALT ADJUSTMENT	DOLL	11326	
21802EN	G/R STEEL W BEAM S FACE (7 FT POST)	LF EACH	10025	
21813NN 23312EC	REMOVE AND RELOCATE SHEET SIGNS  ROCK REMOVAL	EACH CUYD	32 133	
24575ES610	HEADWALL (18 IN SLOPED AND MITERED HEADWALL)	EACH	133	7
24575ES610 24575ES610	HEADWALL (18 IN SLOPED AND MITERED HEADWALL)	EACH	7	7
3302	REPAIR CONCRETE CURB	LF	200	,
8150	STEEL REINFORCEMENT	LBS	134	
24631EC	BARCODE SIGN INVENTORY	EACH	71	

NOTE 1: 726 TONS FOR PAVING. 486 TONS FOR GUARDRAIL, 262 TONS FOR DITCH AND SHOULDERING LOCATIONS.

NOTE~2:~69~TONS~FOR~PAVING~SUMMARY,~53~TONS~FOR~DITCHING~AND~SHOULDERING~SUMMARY,~AND~121~TONS~FROM~GUARDRAIL~SUMMARY.

NOTE 3: 8 TONS FOR PAVING SUMMARY AND 7 TONS FOR DITCHING AND SHOULDERING SUMMARY, AND 15 TONS FROM GUARDRAIL SUMMARY.

NOTE 4: 128 TONS FROM BASE FAILURE REPAIR SUMMARY, 85 TONS AS DIRECTED BY THE ENGINEER.

NOTE 5: 842 TONS FOR SUPERELEVATION CORRECTIONS, 9 TONS FOR ENTRANCES, 486 TONS FROM BASE FAILURE SUMMARY

NOTE 6: PER TYPICAL SECTION

NOTE 7: SEE NOTES IN PIPE SUMMARY, DITCHING & SHOULDERING SUMMARY AND PIPE SECTIONS. UPON FINAL LOCATION OF UTILITIES, SOME ITEMS MAY BE MODIFIED OR ELIMINATED. CONSULT WITH ENGINEER FOR FINAL INSTRUCTIONS.

NOTE 8: KYTC RETAINS POSSESSION OF EXISTING GUARDRAIL, DELIVER REMOVED GUARDRAIL TO BAILEY BRIDGE YARD, FRANKFORT KY OR DISTRICT YARD PER ENGINEER

NOTE 9: 18 TONS FOR PIPE CONSTRUCTION. 250 TONS TO BE USED AROUND DRAINAGE STRUCTURES OR SLOPES PER ENGINEER.

<sup>300</sup> TONS FOR SLOPE STABILITY AT STA. 317+75 TO STA. 319+25.

NOTE 10: 258 TONS FROM PAVEMENT SUMMARY AND 486 TONS FROM BASE FAILURE SUMMARY

NOTE 11: FOR STRIPING ACROSS KY 1251 AND MURRY LN APPROACHES WEST OF THE BRIDGE, APPROX. STA. 301+10 TO STA. 301+85

### Base Failure Repair Summary

Contract ID: 194201 Page 111 of 252



Spencer County KY 44

AEI

Content:

**Base Failure Repair Summary** 

Item No.

5-9011.00

				Bid Iter	n				00307	02677	00190	03240
Mile Point	Direction	Approx. Station	Base Repair Length (FT)	Base Repair Width (FT)	Milling Length (FT) *	Milling Width (FT)	Average Depth (FT)	Base Repair Area (SQYD)	1.50" CL2 ASPH SURF 0.38B PG64-22 (TON)	ASPHALT PAVE MILLING & TEXTURING (TON)	LEVELING AND WEDGING (TON)	BASE FAILURE REPAIR (SQYD)
0.308	WB	16+26	201	5	211	12	1.0	111.67	23.2	23.2	6.1	111.7
0.665	WB	35+11	264	5	274	12	1.0	146.67	30.1	30.1	8.1	146.7
0.705	WB	37+22	53	5	63	12	1.0	29.44	6.9	6.9	1.6	29.4
0.758	WB	40+02	122	5	132	12	1.0	67.78	14.5	14.5	3.7	67.8
1.072	EB	56+60	106	5	116	12	1.0	58.89	12.8	12.8	3.2	58.9
1.384	WB	73+08	148	5	158	12	1.0	82.22	17.4	17.4	4.5	82.2
1.953	WB	103+12	53	5	63	12	1.0	29.44	6.9	6.9	1.6	29.4
2.023	EB	106+81	95	5	105	12	1.0	52.78	11.6	11.6	2.9	52.8
2.140	EB	112+99	32	5	42	12	1.0	17.78	4.6	4.6	1.0	17.8
2.168	WB	114+47	167	5	177	12	1.0	92.78	19.5	19.5	5.1	92.8
2.219	EB	117+16	53	5	63	12	1.0	29.44	6.9	6.9	1.6	29.4
2.270	WB	119+86	90	5	100	12	1.0	50.00	11.0	11.0	2.8	50.0
2.388	WB	126+09	306	5	316	12	1.0	170.00	34.8	34.8	9.4	170.0
3.455	EB	182+42	30	5	40	12	1.0	16.67	4.4	4.4	0.9	16.7
4.077	WB	215+27	158	5	168	12	1.0	87.78	18.5	18.5	4.8	87.8
4.257	EB	224+77	67	5	77	12	1.0	37.22	8.5	8.5	2.0	37.2
4.316	EB	227+88	106	5	116	12	1.0	58.89	12.8	12.8	3.2	58.9
4.364	EB	230+42	127	5	137	12	1.0	70.56	15.1	15.1	3.9	70.6
4.364	WB	230+42	127	5	137	12	1.0	70.56	15.1	15.1	3.9	70.6
4.558	WB	240+66	333	5	343	12	1.0	185.00	37.7	37.7	10.2	185.0
4.668	EB	246+47	222	5	232	12	1.0	123.33	25.5	25.5	6.8	123.3
4.993	EB	263+63	422	5	432	12	1.0	234.44	47.5	47.5	12.9	234.4
5.069	WB	267+64	15	5	25	12	1.0	8.33	2.8	2.8	0.5	8.3
5.444	WB	287+44	53	5	63	12	1.0	29.44	6.9	6.9	1.6	29.4
5.562	WB	293+67	285	5	295	12	1.0	158.33	32.5	32.5	8.7	158.3
6.122	EB	323+24	85	8	95	12	1.0	75.56	10.5	10.5	4.2	75.6
6.918	EB	365+27	290	5	300	12	1.0	161.11	33.0	33.0	8.9	161.1
7.045	WB	371+98	37	5	47	12	1.0	20.56	5.2	5.2	1.1	20.6
7.250	WB	382+80	85	5	95	12	1.0	47.22	10.5	10.5	2.6	47.2
								TOTAL:	486	486	128	2324

<sup>\*</sup> Milling begins/ends to 5ft either side of base repair.

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### Bridge Concrete Curb Repair Summary

Spencer County KY 44

Content:	Br	idge Con	crete Cur	b Repair		lter	n No. 5	-9011.00
				Bid Item		3302	8150	
Roadway	Offset	Begin	Begin	End	End	REPAIR CONCRETE CURB	STEEL REINFORCEMEN	Т
		MP	Station	MP	Station	LF	LBS	
KY 44	LT	3.52	185+92	3.55	187+20	39	53.6	
KY 44	RT	3.52	185+92	3.55	187+20	18	26.8	
KY 44	LT	5.72	301+86	5.75	303+42	20	26.8	
KY 44	RT	5.72	301+86	5.75	303+42	18	26.8	
					TOTALS	95	134.0	



### Contract ID: 194201 Page 114 of 252 Ditching & Shouldering Summary



### Spencer County KY 44



Content:

### **Ditching & Shouldering Summary**

Item No.

5-9011.00

				Bid	Item	02575	00001	00100	00103	
						DITCHING	DENSE		ASPHALT	
	BEGIN MILE	END MILE	SIDE	BEGIN	END	AND SHOULDERIN	GRADED AGGREGAT	asphalt seal aggregate		Comment
	POINT	POINT	LT/RT			G	Е		COAT	
				STATION	STATION	LF	TON	TON	TON	
	0.00	0.06	LT	0+00 5+20	3+00 19+33	300 1413	3 14	0.63 2.94	0.08	SEE CAUTION NOTE BELOW
	0.37	0.40	LT	19+33	21+00	167				SEE PAVEMENT SUMMARY CURVE #4 FOR DGA WEDGE AND DOUBLE SEAL COAT
	0.54	0.76	LT LT	28+50 39+88	39+88 50+45	1138 1057	11	2.37	0.28	SEE PAVEMENT SUMMARY CURVE #6 FOR DGA WEDGE AND DOUBLE SEAL COAT
	0.96	1.04	LT	50+45	55+00	455	5	0.95	0.11	SEET THE MET SOME TO THE SOUTH
	1.04	1.26	LT LT	55+00 82+00	66+60 85+00	1160 300	12	2.42 0.63	0.29	
	2.18	2.23	LT	115+00	117+50	250	3	0.52	0.06	
	2.23	2.54	LT	118+00	134+00	1600	16	3.33	0.40	SEE CHARDRAH SHAMARY FOR DCA WEDGE AND DOUBLE SEAL COAT
	2.54	2.59	LT LT	134+00 136+49	136+49 141+47	249 498	5	1.04	0.12	SEE GUARDRAIL SUMMARY FOR DGA WEDGE AND DOUBLE SEAL COAT
	2.68	2.71	LT	141+47	143+00	153				SEE GUARDRAIL SUMMARY FOR DGA WEDGE AND DOUBLE SEAL COAT
	2.71	2.75	LT LT	143+00 145+00	145+00 151+28	200 628	7	0.42 1.31	0.05	
	2.87	2.93	LT	151+28	154+88	360		1.01	0.10	SEE GUARDRAIL SUMMARY FOR DGA WEDGE AND DOUBLE SEAL COAT
	2.93 3.17	3.16	LT LT	154+88 167+50	167+00 169+50	1212 200	12	2.53 0.42	0.30	
	3.17	3.28	LT	170+00	173+00	300	3	0.42	0.03	
	3.29	3.30	LT	173+80	174+50	70	1	0.15	0.02	
	3.35	3.39	LT LT	177+00 180+00	179+00 184+00	200 400	2	0.42	0.05	
	3.67	3.86	LT	193+70	204+00	1030	10	2.15	0.26	
	4.00 4.95	4.03 4.98	LT LT	211+00 261+50	212+85 262+80	185 130	2	0.39	0.05	
	5.05	5.10	LT	266+50	269+50	300	3	0.63	0.03	
	5.16	5.19	LT	272+60	273+80	120	2	0.25	0.03	
	5.43 5.85	5.59 5.95	LT LT	286+50 308+90	295+40 313+91	890 501	9 5	1.85	0.22	
	5.95	6.05	LT	313+91	319+58	567	j		5.15	SEE PAVEMENT SUMMARY CURVE #26 FOR DGA WEDGE AND DOUBLE SEAL COAT
$\vdash$	6.05	6.13	LT	319+58	323+82	424	2	0.05	0.03	SEE GUARDRAIL SUMMARY FOR DGA WEDGE AND DOUBLE SEAL COAT
	6.13	6.16	LT LT	323+82 325+00	325+00 329+00	118 400	4	0.25 0.83	0.03	
	6.40	6.48	LT	338+00	342+00	400	4	0.83	0.10	
	6.72	6.78 7.11	LT LT	355+00 362+50	358+00 375+22	300 1272	3 13	0.63 2.65	0.08	
	7.11	7.11	LT	375+22	382+11	689	10	2.00	0.52	SEE PAVEMENT SUMMARY CURVE #32 FOR DGA WEDGE AND DOUBLE SEAL COAT
	7.24	7.29	LT	382+11	385+00	289				SEE PAVEMENT SUMMARY CURVE #33 FOR DGA WEDGE AND DOUBLE SEAL COAT
	7.29 7.39	7.39 7.48	LT LT	385+00 390+16	390+16 395+00	516 484	5	1.01	0.12	SEE PAVEMENT SUMMARY CURVE #33 FOR DGA WEDGE AND DOUBLE SEAL COAT
	0.00	0.04	RT RT	0+00 5+00	02+00 7+50	200 250	3	0.42	0.05	
	0.26	0.14	RT	13+60	15+00	140	2	0.32	0.04	
	0.32	0.33	RT	16+80	17+65	85	1	0.18	0.02	
	0.37	0.42	RT RT	19+33 31+50	22+00 39+88	267 838	9	1.75	0.21	SEE PAVEMENT SUMMARY CURVE #4 FOR DGA WEDGE AND DOUBLE SEAL COAT
	0.76	0.96	RT	39+88	50+45	1057	,	1.70	U.E.I	SEE PAVEMENT SUMMARY CURVE #6 FOR DGA WEDGE AND DOUBLE SEAL COAT
	0.96	1.05	RT RT	50+45 61+00	55+25 63+25	480	5	1.00	0.12	
	1.16	1.61	RT	71+50	85+00	225 1350	13	0.47 2.81	0.06	
	1.61	1.66	RT	85+00	87+50	250	3	0.52	0.06	
	2.00	2.02	RT RT	105+50 117+00	106+90 119+00	140 200	2	0.29	0.04	
	2.27	2.39	RT	120+00	126+00	600	6	1.25	0.15	
	2.75	2.79	RT	145+00	147+25	225	3	0.47	0.06	
	2.92 3.16	2.99 3.21	RT RT	154+00 167+00	158+00 169+50	400 250	3	0.83	0.10	
	3.23	3.27	RT	170+50	172+50	200	2	0.42	0.05	
	3.67 4.95	3.77 4.98	RT RT	194+00 261+50	198+80 262+80	480 130	5 2	1.00 0.27	0.12	
	5.05	5.09	RT	266+50	269+00	250	3	0.52	0.06	
	5.15	5.19	RT	271+80 288+50	273+80	200	2	0.42	0.05	
	5.46 5.57	5.51 5.60	RT RT	294+00	290+80 295+80	230 180	2	0.48	0.06	
	5.84	5.86	RT	308+50	309+30	80	1	0.17	0.02	
	5.89 5.95	5.95 6.11	RT RT	311+00	313+91	291 878				SEE GUARDRAIL SUMMARY FOR DGA WEDGE AND DOUBLE SEAL COAT SEE PAVEMENT SUMMARY CURVE #26 FOR DGA WEDGE AND DOUBLE SEAL COAT
	6.11	6.12	RT	322+69	323+05	36				SEE FAVEMENT SUMMARY CORVE #28 FOR DGA WEDGE AND DOUBLE SEAL COAT  SEE GUARDRAIL SUMMARY FOR DGA WEDGE AND DOUBLE SEAL COAT
	6.12	6.16	RT	323+05		195	2	0.41	0.05	
	6.16	6.25	RT RT	325+00 361+00		500 100	5	1.04	0.13	SEE GUARDRAIL SUMMARY FOR DGA WEDGE AND DOUBLE SEAL COAT
	6.99	7.05	RT	369+00	372+00	300	3	0.63	0.08	
	7.08 7.24	7.12 7.29	RT RT	374+00 382+11		200 289	2	0.42	0.05	SEE PAVEMENT SUMMARY CURVE #33 FOR DGA WEDGE AND DOUBLE SEAL COAT
	7.29	7.39	RT			516				SEE PAVEMENT SUMMARY CURVE #33 FOR DGA WEDGE AND DOUBLE SEAL COAT
C * 1							INIEED DEC 4 DE	JING HTH ITV I	CATION	
						CONSULT ENG				CONFLICT.
	, 51									
				101	TALS	32937	262	53	7	



Content:

**Guardrail Summary** 

### **Guardrail Summary** Spencer County KY 44

5-9011.00

Item No.

Note 1 - Extra Length Guardrall poots are to be installed where directed by Engineer
Note 2 - Deheator for guardrall spacing estimated every 50 feet.
Note 3 - Dense Godard Aggregate is estimated to provide a 2 foot shoulder width, unless directed otherwise by the Engineer.
Note 3 - Dense Godard Aggregate is estimated to provide a 2 foot shoulder width, unless directed otherwise by the Engineer.
Note 4 - Within the limits of Curve #25a and #33 requirin guardrall. See Pavement Summany for portions of DGA and bouble Asphalt Seal Coat.
Note 5 - See Ditching and Shouldering summany for the portions of proposed guardrall estimated to required ditching and shouldering.

SPENCER COUNTY HSIP 5118 (043)

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Content:

**Drainage Structure Summary** 

### **Drainage Structure Summary** Spencer County KY 44

Item No 5-9011.00



		7.21	7.11	6.76	6.22	5.94	5.85	5.59	5.49	5.17	4.96	4.02	3.85	3.30	3.25	2.77	2.29	2.24	2.02	1.45	1.18	1.03	0.88	0.73	0.33	0.27	0.03		Mile Point	
		380+77	375+15	356+93	328+57	313+59	308+99	295+08	289+78	272+80	261+76	212+09	203+23	174+28	171+79	146+16	120+69	118+18	106+71	76+56	62+23	54+23	46+23	38+75	17+32	14+06	1+34		Station	
		18' RCP	18" RCP	18" RCP	18" RCP	18" RCP	24" RCP	24" RCP	18" RCP	18" RCP	18" RCP	24" RCP	18" RCP	24" RCP/ 24" CMP	18" RCP	18" RCP	18" RCP	24" RCP	18" RCP	18" RCP	24" RCP	18" RCP	18" RCP	18" RCP	18" RCP/ 18" CMP	18" RCP	18" RCP	P	ipe Size, Type	
		STD	STD	STD	STD	STD OTS	STD	HDWL	STD	HDWL	STD	STD	STD	STD	STD	HDWL	HDWL	STD	STD	STD	HDWL	STD	STD	STD	HDWL	STD	STD	L	eft Hdwl	
		WALL	STD	STD	STD	STD	STD	HDWL	STD DTS	STD	STD	STD	STD	NONE	STD	NDWL DTS	STD	STD	HDWL	HDWL	HDWL DTS	NDWL DTS	STD	STD	NONE	STD	STD	Ri	ght Hdwl	Existing
		0	0	0	0	0	0	0	0	0	0	0	0	2^ RT.	0	0	0	0	0	0	0	0	0	0	0	2^ LT.	0		Skew	
TOTALS:		106	39	46	43	64	29	37	37	28	32	34	43	40	34	28	38	32	31	32	32	38	36	41	35	31	47	Le	ngth (LF)	
160	% 4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		4	4			4	4	4	4		4		Left	Remove Pipe (LF)	
-	76		4		4		4	4	4	4	4	4				4		4	4	4	4	4	4	4	4	4	4	Right		
39	21	_	1	1	-	-	-	_	_	1	1	-	1	1	1		-	1			_	-	-	1		-		Left	Remove Headwall (EACH)	
	18		1		1		_	_	1	1	1	-				-		1	1	1	-	-	1	1		-	1	Right	wall H)	
45	45			45																								( <del>I</del>	Entr. Pipe	
284	284	10	19	12	20	7			17	27	25		10		14	11	6		8	5		18	19	14	8	24	10	(LF)	Culvert Pipe 18"	
124	124						28	24				20		12				21			19							(LF)	Culvert Pipe 24"	
-	7				-	_					1		1		1							_				_		Left		
19	12		1		_				_	1	1					_						_	_	-	1	_	_	Right	18" SLOPED & MITERED HDWL	Prop
7	ω						1	-				-																Left	24" SLOPED & MITERED HDWL	Proposed
	4						-	_										-			_							Right		
_	0											_																Left Right	24" STANDARD HEADWALL	
	ω								1	1														1				Left	RD SAI	
<b>У</b>	2																		_	_								Right	18" SAFETY TYPE BOX INLET	
	2													_							_							Left	SAF (TYPE	
2	0																											Right	24" SAFETY TYPE BOX INLET	
_	-	_																										Left	18" DBL. SAFETY BOX INLET	
	0																											Right		
O1	5 0		1	1													1	1					1					Left Right	DBI TY 1	
18		2							2	2				2		2			2	2	2			2					CHANNEL	
			SEE CAUTION NOTE IN SECTIONS, QTY COULD CHANGE PER ENGINEER	REPLACE ENT. PIPE AND CLEAR DEBRIS	SEE CAUTION NOTE IN SECTIONS, QTY COULD  CHANGE PER ENGINEER					SEE CAUTION NOTE IN SECTIONS, QTY COULD CHANGE PER ENGINEER		SEE CAUTION NOTE IN SECTIONS, QTY COULD CHANGE PER ENGINEER					SEE CAUTION NOTE IN SECTIONS, QTY COULD CHANGE PER ENGINEER	SEE CAUTION NOTE IN SECTIONS, QTY COULD CHANGE PER ENGINEER			STUMP REMOVAL ADJACENT TO PROPOSED INLET SHALL BE INCIDENTAL TO EMBANKMENT								EL Comments	



Content:

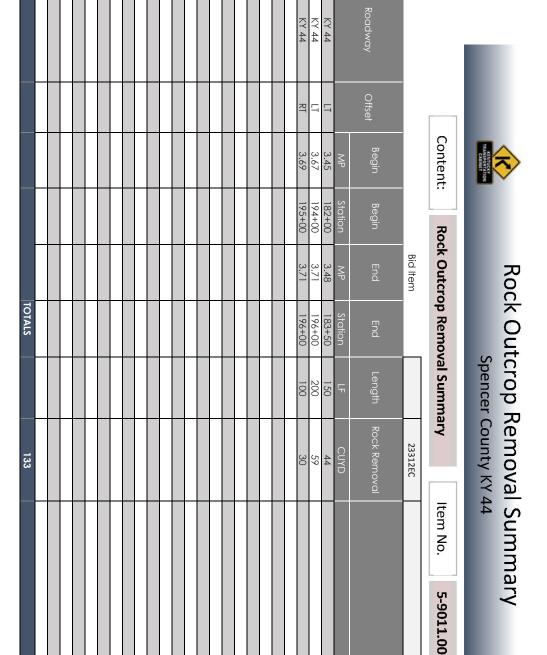
**Pavement Summary** 

Item No.

5-9011.00

# Pavement Summary Spencer County KY 44

TOTAL	6.76	0.89	0.84	0.45	0.41	Mile Point						AS	7.24	7.11	5.95	0.76	0.37	Begin Mile Point	
	356+80	47+20	44+50	24+00	21+50	Station		Bid Item			AS DI	DIRECTE	7.39	7.24	6.11	0.96	0.47	End Mile Point	
	LΤ	LT	LΤ	LT	П	Station LT OR RT		3			AS DIRECTED B	DIRECTED BY THE ENGINEER (SEE TYPICAL)	382+11	375+22	313+91	39+88	19+33	Begin Station	Bid Item
9	3	3	3			SURF 0.38B PG64-22 (Ton)	1.50" CL	700307			BY THE ENGINEER	NGINEEF	390+16	382+11	322+69	50+45	24+97	End Station	
•	3	3	3			URF 0.38B PG64-22 (Ton)	1.50" CL 2 ASPH	307		TOTAL:	GINEER	२ (SEE TYI	33	32	26	6	4	Curve #	
18	6	6	6			BASE 0.75D PG64-22 (Ton)	3.00" CL 2 ASPH	00221		842		PICAL)	170	145	185	223	119	CL 2 ASPH SURF 0.38B PG64-22 (Ton)	00307
8	6	Ś	6			0.75D 4-22 on)	. 2 ASPH	221		1059			120	191	237	224	287	CL 2 ASPH BASE 0.75D PG64-22 (Ton)	00221
17				9	8	4.00" TRAFFIC BOUND BASE (Ton)		00020	ENTRANCES	726			147	125	160	192	102	Dense Graded Aggregate (Ton)	00001
,						C BOUND 3E n)		20	Ë	7988			1611	1379	1756	2114	1128	Edgeline Rumble Strips (LF)	02697
										258		100	32	32	32	32	32	Asphalt Pave Milling & Text (Ton) (For edge key)	02677
										85	85							Leveling , and Wedging (Ton)	00190
										69			14	12	15	18	10	Asphalt Seal Aggregate (Ton)	00100
										8			2	1	2	2	1	Asphalt Curing Seal (Ton)	00358
										6			1	1	1	2	1	Asphalt Material for Tack (Ton)	00356



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Content:

Sign Summary

### Sign Summary Spencer County KY 44

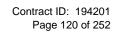
Item No.

5-9011.00

AEI

NUMBER   N	13	5.57	_	III OR IV	BLACK	YELLOW	48X48X36	W14-3	INSTALL NEW	1	NO PASSING ZONE	270+18	5.12	WB	KY 44
No.	13.0	5.57	1	III OR IV	BLACK	YELLOW	48X48X36	W14-3	INSTALL NEW	1	NO PASSING ZONE	269+23	5.10	EB	KY 44
NUMber of Commensors	14.0	6.25	_	Ⅲ OR IV	BLACK	YELLOW	30 X 30	W2-4	INSTALL NEW	_	INTERSECTION WARNING	236+05	4.47	WB	KY 44
NATIONAL NEW   WI-5   STATE	4	2	1	III OR IV	BLACK	WHITE	21 X 15	M2-1	INSTALL NEW	_	JCT	224+62	4.25	ЕB	KY 44
NUMber of Commensors	1.4	5	1	III OR IV	BLACK	WHITE	30 X 24	M1-5	INSTALL NEW	1	STATE ROUTE 623	224+62	4.25	EB	KY 44
NUMBER   MUTCD Code   Dimensions	14	6.25	1	III OR IV	BLACK	YELLOW	30 X 30	W2-4	INSTALL NEW	1	INTERSECTION WARNING	222+62	4.22	EB	KY 44
NUMBER   MUTCO Code   Dimensions   SHETING	13	2.25	1	×	BLACK	YELLOW	18 X 18	W13-1P	INSTALL NEW	1	ADVISORY SPEED PLAQUE (XXMPH)	196+11	3.71	EB	KY 44
No.	15	6.25	_	×	BLACK	YELLOW	30 X 30	W1-2	INSTALL NEW	1	HORIZONTAL ALIGNMENT (LT) CURVE	196+11	3.71	EB	KY 44
Note	14	2.25	1	×	BLACK	YELLOW	18 X 18	W13-1P	INSTALL NEW	1	ADVISORY SPEED PLAQUE (XXMPH)	87+13	1.65	МВ	KY 44
Signary   Signary   Signary   Sheeling   Sheeling   Signary   Signary   Signary   Sheeling   Signary   Sheeling   Signary	1.4	2.19	1	III OR IV	BLACK	WHITE	21 X 15	M2-1	INSTALL NEW	1	JCT	191+68	3.63	WB	KY 44
Sign	-4	6	1	III OR IV	BLACK	WHITE	30 X 24	M1-5	INSTALL NEW	1	STATE ROUTE 1060	190+48	3.61	WB	KY 44
NUMBER   MUTCO Code   Dimensions   Sign	14	З	1	III OR IV	BLACK	YELLOW	12 X 36	OM3-R	INSTALL NEW	1	OBJECT MARKER 3 (FOR NARROW BRIDGE)	187+22	3.55	WB (RT)	KY 44
No.	14	ω	_	III OR IV	BLACK	YELLOW	12 X 36	OM3-L	INSTALL NEW	_	OBJECT MARKER 3 (FOR NARROW BRIDGE)	187+22	3.55	WB (LT)	KY 44
Notation   Notations   Notat	14	3	1	III OR IV	BLACK	YELLOW	12 X 36	OM3-R	INSTALL NEW	1	OBJECT MARKER 3 (FOR NARROW BRIDGE)	185+94	3.52	EB (RT)	KY 44
NUMBER   NUMER   NUM	14	ω	_	III OR IV	BLACK	YELLOW	12 X 36	OM3-L	INSTALL NEW	1	OBJECT MARKER 3 (FOR NARROW BRIDGE)	185+94	3.52	EB (LT)	KY 44
NUMBER   N	17	2	_	III OR IV	BLACK	WHITE	21 X 15	M6-1R	INSTALL NEW	_	DIRECTIONAL ARROW	185+30	3.51	WB	KY 44
Number of Proposed   Commensions   Sign   Sheeting   Sign   Sheeting   Sign   Sheeting	14	6	1	III OR IV	BLACK	WHITE	30 X 24	M1-5	INSTALL NEW	1	STATE ROUTE 1060	185+30	3.51	WB	KY 44
NUMBER   N	14	6	1	III OR IV	BLACK	WHITE	30 X 24	M1-5	INSTALL NEW	1	STATE ROUTE 1060	177+10	3.35	EB	KY 44
Number of Front   Number of Sign   Sign   Sheffing	14	2.19	1	III OR IV	BLACK	WHITE	21 X 15	M2-1	INSTALL NEW	1	JCT	177+10	3.35	EB	KY 44
Number of Proposed   COMMENT   MUICD Code   Dimensions   Sign Proposed   COMMENT   MUICD Code   Dimensions   Sign   Sheeting   Sign   Sheeting   Sheetin	13	5.57	1	III OR IV	BLACK	YELLOW	48X48X36	W14-3	INSTALL NEW	1	NO PASSING ZONE	168+24	3.19	EB	KY 44
Number of Proposed Comment   Number of Proposed Comment	ō	2.25	1	×	BLACK	YELLOW	18 X 18	W13-1P	INSTALL NEW	1	ADVISORY SPEED PLAQUE (XXMPH)	144+55	2.74	WB	KY 44
Number of Proposed COMMENT   MUTCD Code   Dimensions   Sign   SHEETING   Sign   SHEETING   Sign   SHEETING   Sign   SHEETING   Sign   SHEETING   Sign   SHEETING   Sign	16	6.25	1	×	BLACK	YELLOW	30 X 30	W1-4	INSTALL NEW	1	HORIZONTAL ALIGNMENT (RT) REVERSE CURVE	144+55	2.74	WB	KY 44
Number of Proposed   COMMENT   MUTCD Code   Dimensions   SHEFING   Sign   Sig	14	З	_	ҳ	BLACK	YELLOW	18 X 24	W1-8	INSTALL NEW	_	CHEVRON (EB IS PRESENT)	129+50	2.45	WB	KY 44
Number of Proposed COMMENT   MUTCD Code   Dimensions   SHEFING   Sign   SHEFING   Sign   Shefing   Sign   Shefing   Sign   Signs   S	14	З	_	≂	BLACK	YELLOW	18 X 24	W1-8	INSTALL NEW	_	CHEVRON (EB IS PRESENT)	128+30	2.43	WB	KY 44
Number of Proposed COMMENT   MUTCD Code   Sign	14	З	_	≂	BLACK	YELLOW	18 X 24	W1-8	INSTALL NEW	_	CHEVRON (EB IS PRESENT)	127+10	2.41	WB	KY 44
Number of Proposed   COMMENT   MUTCD Code   Sign	14	ω	-	$\bar{\times}$	BLACK	YELLOW	18 X 24	W1-8	INSTALL NEW	1	CHEVRON (EB IS PRESENT)	125+90	2.38	WB	KY 44
Number of Proposed   COMMENT   MUTCD Code   Dimensions   Sign   Sheeting   Sheeting   Sign   Sheeting   Sign   Sheeting   Sign   Sheeting   Sign   Signs   Sheeting   Sign   Signs	14	ω	-	×	BLACK	YELLOW	18 X 24	W1-8	INSTALL NEW	1	CHEVRON (EB IS PRESENT)	124+70	2.36	WB	KY 44
Number of Proposed   COMMENT   MUTCD Code   Proposed   COMMENT   MUTCD Code   In x in   Sign   SheETING   Sign	14	ω	_	=	BLACK	YELLOW	18 X 24	W1-8	INSTALL NEW	_	CHEVRON (EB IS PRESENT)	123+50	2.34	WB	KY 44
Number of   Proposed   COMMENT   MUTCD Code   Sign   Sig	14	ω	_ -	=	BLACK	YELLOW	18 X 24	W1-8	INSTALL NEW	_ -	CHEVRON (EB IS PRESENT)	122+30	2.32	WB	KY 44
Number of   Number of   Comment   Comment of   Comment	14	، در	_	× ;	BLACK	YFIIOW	18 X 24	₩1-8	INSTALL NEW	_	CHEVRON (FB IS PRESENT)	121+10	2.29	WB	KY 44
Number of Proposed   COMMENT   MUTCD Code   Sign	14	ω	_ .	×	BLACK	YELLOW	18 X 24	W1-8	INSTALL NEW	_	CHEVRON (WB IS PRESENT)	111+22	2.11	EB	KY 44
Number of   Proposed   COMMENT   MUTCD Code   Proposed   COMMENT   MUTCD Code   In x in   Sign   Sheeting   Sign	14	S	_	×	BLACK	YELLOW	18 X 24	W1-8	INSTALL NEW	_	CHEVRON (WB IS PRESENT)	110+02	2.08	EB	KY 44
Number of   COMMENT   MUTCD Code   Froposed   COMMENT   Froposed   COMMENT   Froposed   COMMENT   Sign   SIGNS .125   Sign   Signs	14	ω	_	=	BLACK	YELLOW	18 X 24	W1-8	INSTALL NEW	_	CHEVRON (WB IS PRESENT)	108+82	2.06	EB	KY 44
Number of   Number of   Proposed   COMMENT   MUTCD Code   Proposed   COMMENT   MUTCD Code   Proposed   COMMENT   MUTCD Code   Dimensions   SHEFTING   SHEFTING   SHEFT   SHEFT   SHEFT   Sign	14	ω	_	×	BLACK	YELLOW	18 X 24	W1-8	INSTALL NEW	1	CHEVRON (WB IS PRESENT)	107+62	2.04	EB	KY 44
Number of Proposed COMMENT   MUTCD Code   Sign   Sheff Not   Sign   Sign   Sign   Sign   Sheff Not   Sign	14	ω	_	₹ :	BLACK	YELLOW	18 X 24	W1-8	INSTALL NEW	_	CHEVRON (WB IS PRESENT)	106+42	2.02	EB	KY 44
Number of Proposed   COMMENT   MUTCD Code   Sign   Sheff Not   Sign   Sign   Sign   Sign   Sheff Not   Sign   Si	14	<u>ا</u> د		×	BLACK	YFILOW	18 X 24	W1-8	INSTALL NEW		CHEVRON (WB IS PRESENT)	105+22	1.99	FB	KY 44
Number of Proposed   COMMENT   MUTCD Code   Proposed   COMMENT   MUTCD Code   Sign   Sheff   Sheff   Sheff   Sheff   Sheff   Sign   S	15	2.25	- -	× >	BLACK	YELLOW	18 X 18	W13-1P	INSTALL NEW	_	ADVISORY SPEED PLAQUE (XXMPH)	100+48	1.90	EB	KY 44
Number of   Number of   Comment   Number of   Comment		2.25	-	×	BLACK	YELLOW	30 X 30	₩  <u>₩</u>	INSTALL NEW	_	AUVISORY SPEED PLAQUE (XXMPH)	8/+13	1.65	ī, WB	KY 44
Number of Proposed   COMMENT   MUTCD Code   Proposed   COMMENT   Proposed   Prop	15	6.25	_	×	BLACK	YELLOW	30 X 30	W1-4	INSTALL NEW	_	HORIZONTAL ALIGNMENT (RT) REVERSE CURVE	87+13	1.65	WB	KY 44
Number of Proposed   COMMENT   MUTCD Code   Proposed   COMMENT   CODE   Proposed   CODE	14	6.25	1	III OR IV	BLACK	YELLOW	30 X 30	W2-2	INSTALL NEW	1	INTERSECTION WARNING	33+00	0.63	WB	KY 44
Number of   Number of   Proposed   COMMENT   MUTCD Code   Sign   Sheeting   Signs   Signs   Signs   Sheeting   Sheeting   Signs   Si	14	6.25	_	×	BLACK	YELLOW	30 X 30	W1-4	INSTALL NEW	1	HORIZONTAL ALIGNMENT (LT) REVERSE CURVE	28+03	0.53	EB	KY 44
Number of Number of Proposed COMMENT MUTCD Code Sign Proposed COMMENT MUTCD Code Signs Sig	14	6.25	_	$\overline{\times}$	BLACK	YELLOW	30 X 30	W1-4	INSTALL NEW	1	HORIZONTAL ALIGNMENT (LT) REVERSE CURVE	26+59	0.50	WB	KY 44
Number of   Number of   Number of   Number of   Number of   Proposed   COMMENT   MUTCD Code   Dimensions   SHEETING   SHEETING   SHEET   SHEET   SHEET   SIgn   Signs   Sign	14	9	_	X	BLACK	YELLOW	36 x 36	S3-1	INSTALL NEW	1	SCHOOL BUS STOP AHEAD	10+93	0.21	WB	KY 44
Number of Proposed COMMENT MUTCD Code Sign Sign Sign Sign Sign Sign Sign Sign		6.25	_	× 5	BLACK	YELLOW	30 X 30	W1-5	INSTALL NEW	_  -	HORIZONTAL ALIGNMENT (LT) REVERSE CURVE	08+46	0.16	EB	KY 44
Number of Proposed COMMENT MUTCD Code Signs SHEETING Sign Sheeting Signs Signs Signs in x in Color Color Color Type Signs Sheeting Color Color Type Signs Sheeting Signs Sheeting Sheet			_	III OR IV	HIHW	GREEN	48x30	SEF LAYOUT	INSTALL NEW	_	BULLITT COUNTY	00+00	0.00	WB	KY 44
Number of Proposed COMMENT MUTCD Code PROPOSED		SQFT	EACH	Sheeting Type	Text/Symbol Color	Background Color				2  <u> </u>					
					SHEETING		Sign Dimensi		COMMENT	Number of Proposed		Approx. Station	Approx. MP		ROADWAY SIDE
810 TEPM 2403.TEC 06406 6407 064.00	Г	_	_								Bid Item				

SPENCER COUNTY HSIP 5118 (043)





Content:

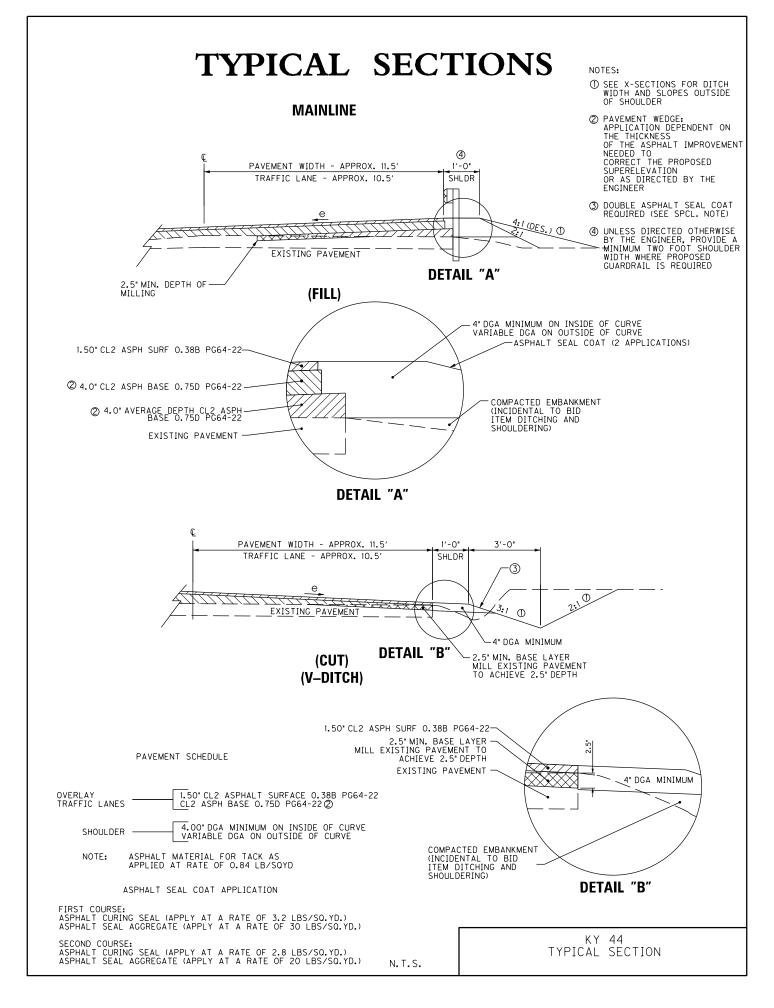
Sign Summary

## Sign Summary Spencer County KY 44

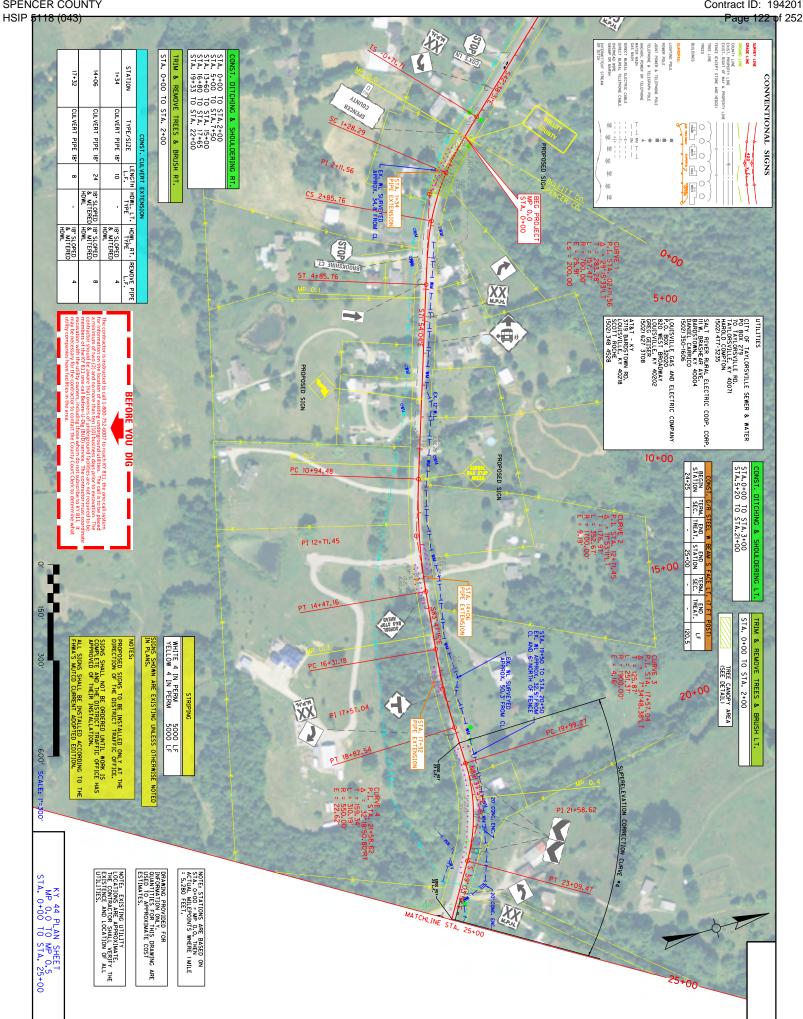
Item No. 5-9011.00

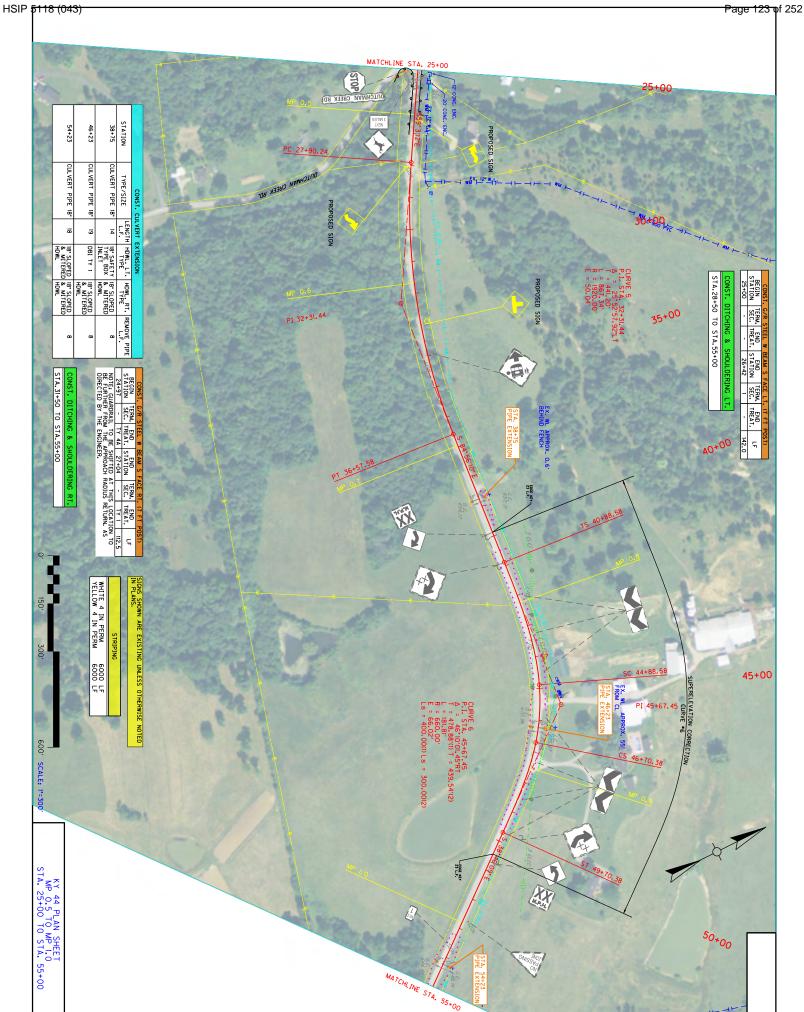
<del>-</del>	2'	-6′′	
7.25"			
33.5"	County	Bullitt	4'-0"
7.25"	<u> </u>	•	$\bigcup_{i=1}^{n}$
	6"EM	6; EM	<del></del>

776.0	18	271.78	71							71	TOTALS				
13		6	2	≍	BLACK	YELLOW	18 X 24	W1-8	INSTALL NEW	2	CHEVRON (2)	364+20	6.90	₩B	KY 44
13		6	2	×	BLACK	YELLOW	18 X 24	W1-8	INSTALL NEW	2	CHEVRON (2)	363+00	6.88	WB	KY 44
13		6	2	×	BLACK	YELLOW	18 X 24	W1-8	INSTALL NEW	2	CHEVRON (2)	361+80	6.85	WB	KY 44
13		6	2	×	BLACK	YELLOW	18 X 24	W1-8	INSTALL NEW	2	CHEVRON (2)	360+60	6.83	WB	KY 44
13		6	2	×	BLACK	YELLOW	18 X 24	W1-8	INSTALL NEW	2	CHEVRON (2)	359+40	6.81	WB	KY 44
13		6	2	×	BLACK	YELLOW	18 X 24	W1-8	INSTALL NEW	2	CHEVRON (2)	358+20	6.78	WB	KY 44
14		6.25	1	III OR IV	BLACK	YELLOW	30 X 30	W2-1	INSTALL NEW	_	CROSS ROAD	331+71	6.28	EB	KY 44
28	8	0	1	III OR IV	BLACK	YELLOW	48 X 24	W1-6	INSTALL NEW	1	ONE DIRECTION LARGE ARROW	316+73	6.00	EB	KY 44
14		6.25	1	III OR IV	BLACK	YELLOW	30 X 30	W2-1	INSTALL NEW	1	CROSS ROAD	305+87	5.79	WB	KY 44
14.0		6	1	III OR IV	BLACK	WHITE	30 X 24	M1-5	INSTALL NEW	_	STATE ROUTE 1251	303+86	5.75	WB	KY 44
143		2	1	III OR IV	BLACK	WHITE	21 X 15	M2-1	INSTALL NEW	1	JCT	303+86	5.75	WB	KY 44
14.0		ω	1	III OR IV	BLACK	YELLOW	12 X 36	OM3-R	INSTALL NEW	1	OBJECT MARKER 3 (FOR NARROW BRIDGE)	303+41	5.75	WB (RT)	KY 44
14		ω	1	III OR IV	BLACK	YELLOW	12 X 36	OM3-L	INSTALL NEW	1	OBJECT MARKER 3 (FOR NARROW BRIDGE)	303+41	5.75	WB (LT)	KY 44
14		ω	1	III OR IV	BLACK	YELLOW	12 X 36	OM3-R	INSTALL NEW	1	OBJECT MARKER 3 (FOR NARROW BRIDGE)	301+78	5.72	EB (RT)	KY 44
14		ω	1	III OR IV	BLACK	YELLOW	12 X 36	OM3-L	INSTALL NEW	1	OBJECT MARKER 3 (FOR NARROW BRIDGE)	301+78	5.72	EB (LT)	KY 44
14.0		6	1	III OR IV	BLACK	WHITE	30 X 24	M1-5	INSTALL NEW	1	STATE ROUTE 1251	297+38	5.63	EB	KY 44
140		2	1	III OR IV	BLACK	WHITE	21 X 15	M2-1	INSTALL NEW	1	JCT	297+38	5.63	EB	KY 44
13		4	1	III OR IV	BLACK	YELLOW	24 X 24	W11-10	INSTALL NEW	_	TRUCK	295+88	5.60	WB	KY 44
14		6.25	1	III OR IV	BLACK	YELLOW	30 X 30	W2-1	INSTALL NEW	1	CROSS ROAD	295+38	5.59	EB	KY 44
LF	SQFT	SQFT	EACH	Sheeting Type	Text/Symbol Color	Background Text/Symbol Sheeting Color Color Type	in x in			Q c					
Steel Post Type 1	SBM ALUM SHEET SIGNS .125 IN	SBM ALUM SBM ALUM SHEET SHEET SIGNS .080 SIGNS .125	Barcode Sign Inventory		Sheeting		Sign Dimensions	MUTCD Code	Number of COMMENT MUTCD Code	Number of Proposed	Remarks	Approx. Station	Approx. MP	SIDE	ROADWAY
01400	040	00400	2403 IEC								bid item				

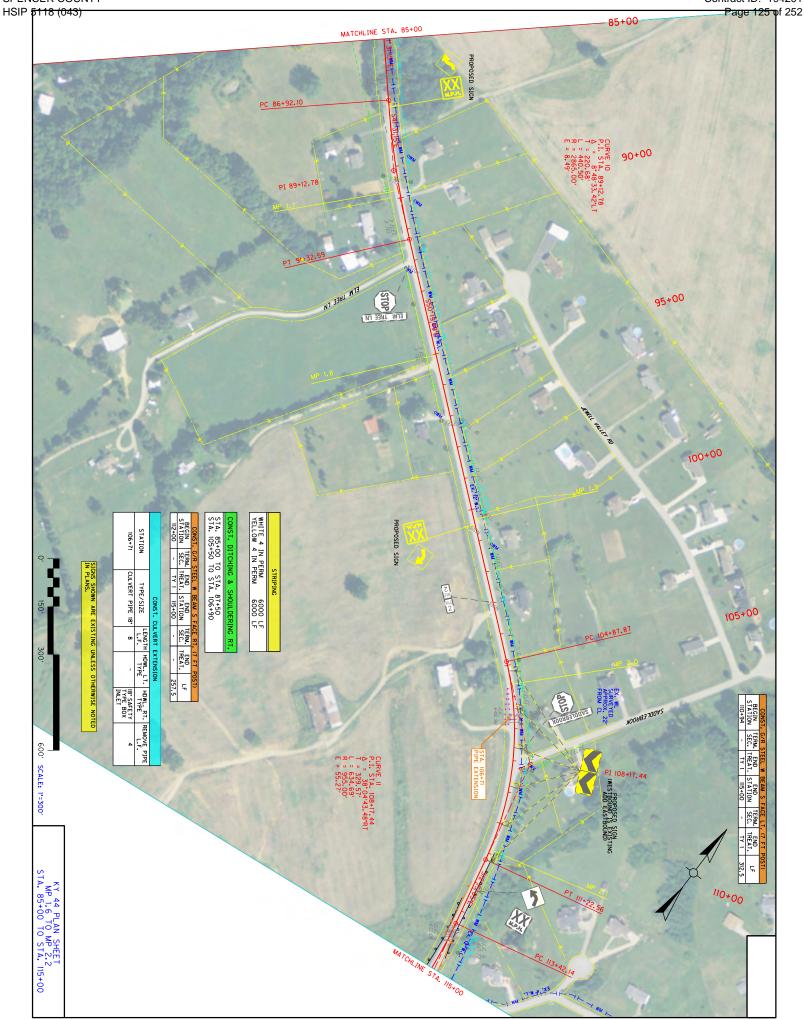


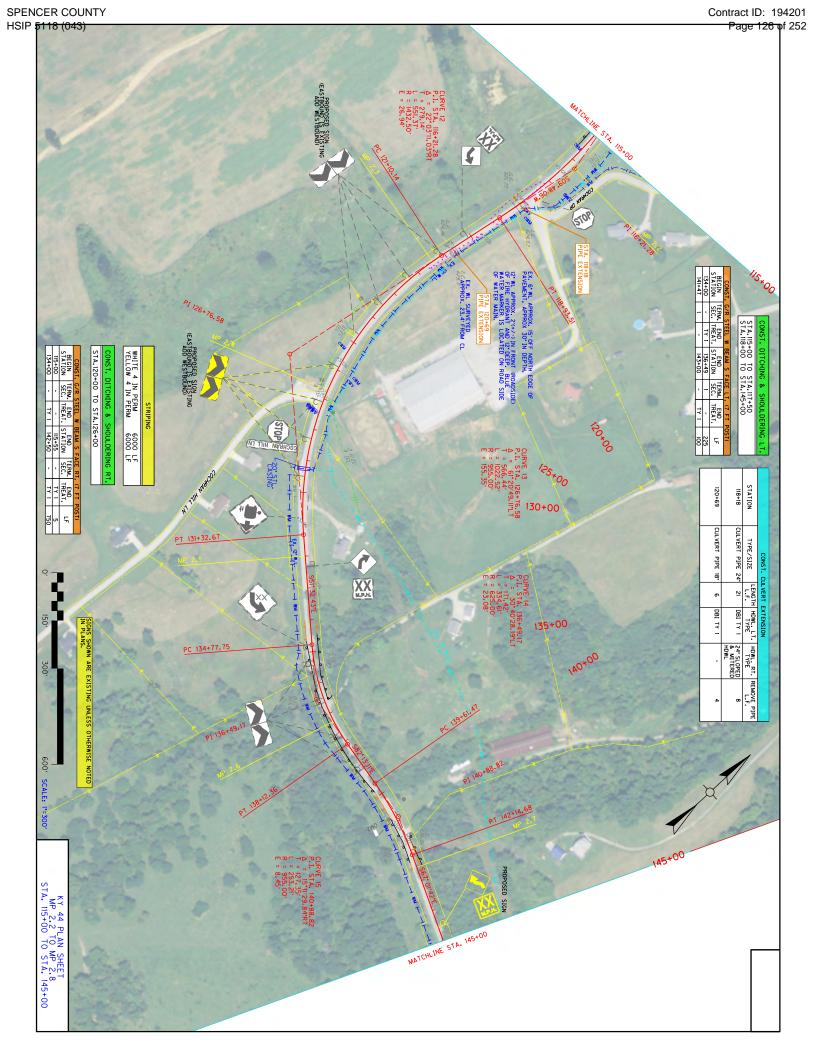
SPENCER COUNTY Contract ID: 194201





Contract ID: 194201 SPENCER COUNTY <del>Page 124 φ</del>f 252 HSIP 5118 (043) MATCHLINE STA. 55+00 STA. 55+00 STA. 61+00 STA. 71+50 STATION 67+08 STATION •62+23 76+56 SEC. 0 0 0 0 0 TREAT. TYPE/SIZE CULVERT PIPE 24 0 STA. 55+25 ) STA. 63+25 ) STA. 85+00 CULVERT PIPE 18. SEC. STA.55+00 TO STA.66+60 STA.82+00 TO STA.85+00 . TREAT. LF 24" SAFETY 24" SLOPED TYPE BOX & MITERED INLET HDWL. 18" SAFETY TYPE BOX INLET REMOVE PIPE PT 62+83.26 L SURVEYED CL . TREAT. STATION - 69+00 TY 1 81+00 TERM. SEC. COOSE CREEK RO. WHITE 4 IN PERM YELLOW 4 IN PERM STOP SHOWN ARE EXISTING UNLESS OTHERWISE NOTED UNS. 150' 6000 6000 누는 600' KY 44 PLAN SHEET MP 1.0 TO MP 1.6 STA. 55+00 TO STA. 85+00 MATCHLINE STA. 85+00



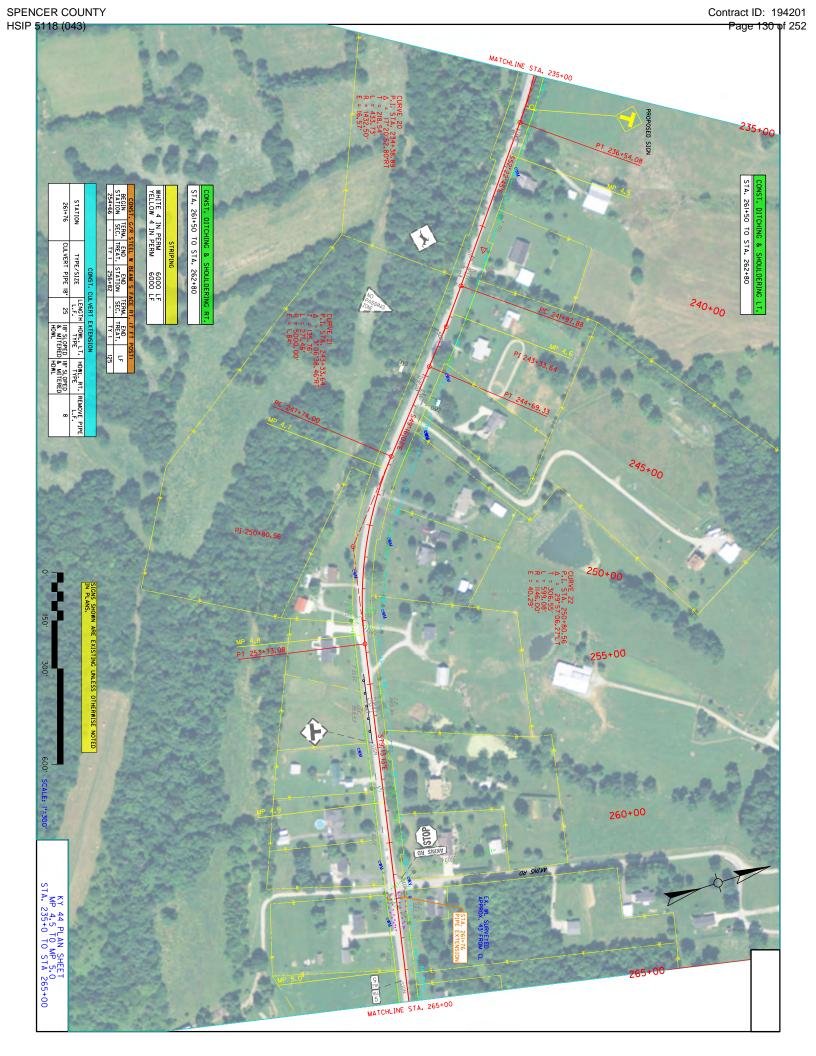


SPENCER COUNTY Contract ID: 194201 HSIP 5118 (043) <del>Page 127 φ</del>f 252 MATCHLINE STA. 145+00 STA. 145+00 STA. 154+00 STA. 167+00 STA. 170+50 WHITE 4 IN PERM YELLOW 4 IN PERM STATION 146+16 0 TO STA. 147+25 0 TO STA. 158+00 0 TO STA. 169+50 0 TO STA. 172+50 TYPE/SIZE CULVERT PIPE 24 6000 LF LENGTH HOWL, LT. HOWL, RT. REMOVE PIPE
L.F. TYPE 18' SLOPED 8

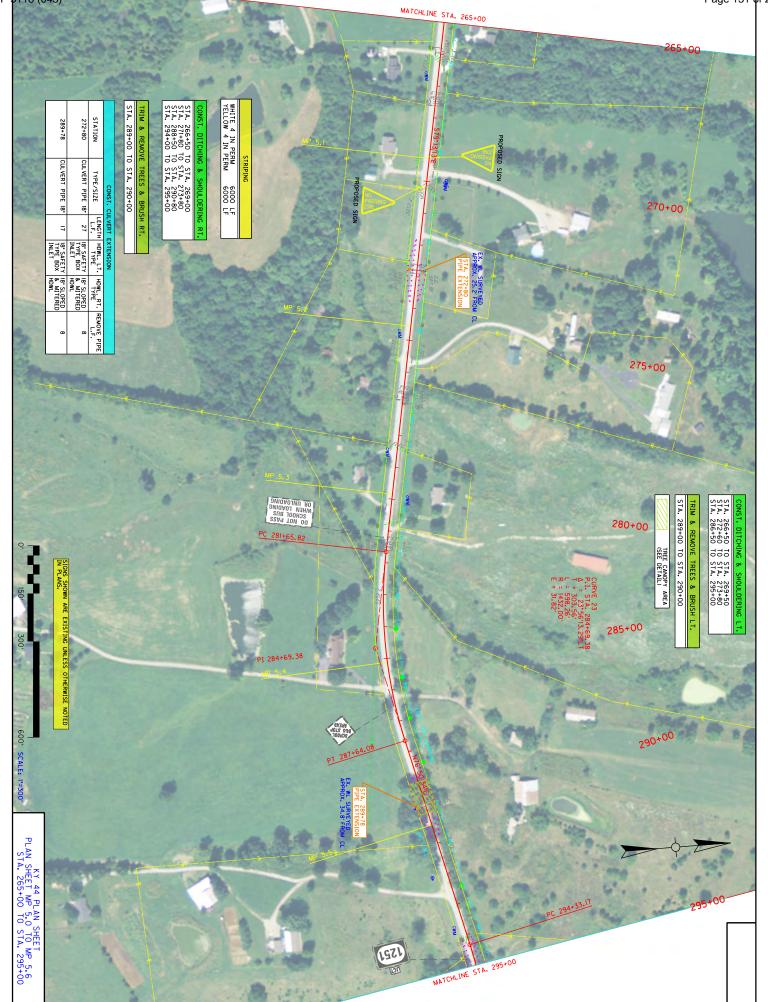
11 - 8' SLOPED 8 TREAT. 24" SAFETY TYPE BOX JNLET 18" SLOPED & MITERED HDWL 18" SLOPED & MITERED HDWL 150+00 STA. 145+00 STA. 167+50 STA. 170+00 STA. 173+80 5555 0 STA. 167+00 0 STA. 169+50 0 STA. 173+00 0 STA. 174+50 155+00 SEC. TREAT. 160+00 170+00 KY 44 PLAN SHEET MP 2.8 TO MP 3.3 STA. 145+00 TO STA. 175+00 MATCHLINE STA. 175+00

SPENCER COUNTY Contract ID: 194201 HSIP <del>5118 (043)</del> <del>Page 128 φ</del>f 252 180+00 STA.194+00 TO STA.198+80 ROCK OUTCROP REMOVAL RT. STA.195+00 TO STA.196+00 WHITE 4 IN PERM YELLOW 4 IN PERM | SECIN | TERM, | END (ES) 44 | STATION | STATION | REBAR | REINFORCEMENT | LF | LBS. | LB5+92 | 187+20 | 80 | 53.6 | STA.177+00 TO STA.179+00 STA.180+00 TO STA.184+00 STA.193+70 TO STA.204+00 6000 LF BEGIN STATION STATION REBAR REINFORCEMENT LF LBS. 185+00 STA.182+00 TO STA.183+50 STA.194+00 TO STA.196+00 ROCK OUTCROP REMOVAL LT. ED SIGN PROPOSED SIGN EACH PROPOSED SIGN SIGNS SHOWN ARE EXISTING UNLESS OTHERWISE NOTED IN PLANS. PROPOSED SIGN STATION 203+23 ○ CONST. CAR STEEL W BEAM S-FACE A - PER SIND, DWG. BHS-007-07
 ○ CONST. GUARDRAIL-BRIDGE CASE I-A - SEE SPECIAL NOTE
 ○ CONST. PRECAST CONC BRIDGE RAIL BLOCK - SEE SPECIAL NOTE
 ○ REMOYE BRIDGE RAIL - SEE SPECIAL NOTE ROCK WALL/OUTCROPPING TYPE/SIZE TERM. END LF
TREAT. TY 1 287.5 LENGTH HDWL. LT. HDWL. RT. REMOVE PIPE
L.F. TYPE L.F.

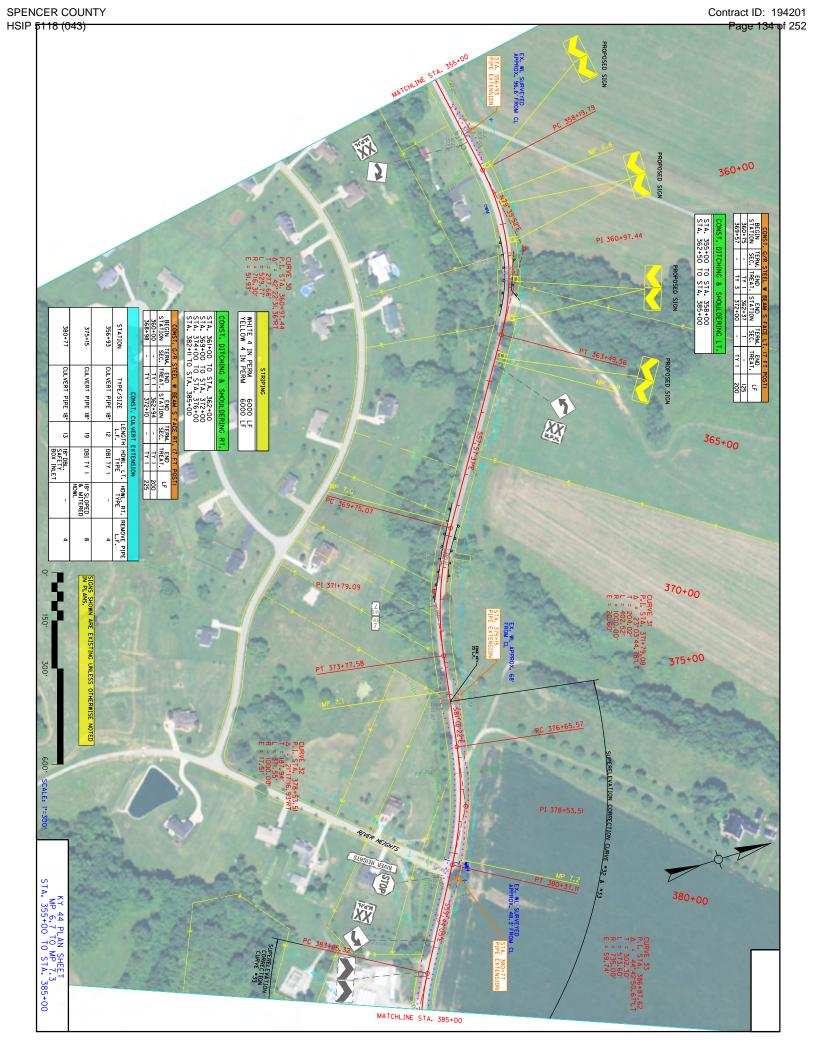
10 18: SLOPED - 4 PC 197+10.95 18" SLOPED & MITERED HDWL 600' SCALE: 1"=300' Ę Ę 200+00 EACH KY 44 PLAN SHEET MP 3.3 TO MP 3.9 STA. 175+00 TO STA. 205+00



SPENCER COUNTY Contract ID: 194201 HSIP <del>5118 (043)</del> <del>Page 131 φ</del>f 252 MATCHLINE STA. 265+00



SPENCER COUNTY Contract ID: 194201 HSIP <del>§118 (043)</del> <del>Page 132 φ</del>f 252 44 STATION 295+08 313+59 1251 CULVERT PIPE 18" CULVERT PIPE 24 CULVERT PIPE 24. TYPE/SIZE PAVE MARKING-DOTTED 75 LF (LT)
LANE ENTEN 75 LF (RT) STA. 295+00 TO STA. 295+80 STA. 308+50 TO STA. 309+30 STA. 311+00 TO STA. 325+00 WHITE 4 IN PERM YELLOW 4 IN PERM STOP LENGTH HOWL, LT. HOWL, RT. REMOVE PIPE
L.F. TYPE 24"SLOPED 24"SLOPED 8
24"SLOPED 24"SLOPED 8 18" SLOPED & MITERED HDWL 24" SLOPED 24" SLOPED & MITERED & MITERED HDWL HDWL 24" SLOPED 24" SLOPED & MITERED & MITERED HDWL HDWL STA. 295+00 TO STA. 295+40 STA. 308+90 TO STA. 325+00 1251 Ę EACH STATION STATION STATION IGNS SHOWN ARE EXISTING UNLESS OTHERWISE NOTED STATION REBAR REINFORCEMENT SCALE: 1"=300" KY 44 PLAN SHEET MP 5.6 TO MP 6.2 1. 295+00 TO STA. 325+00 - EDGE KEY



SPENCER COUNTY Contract ID: 194201 HSIP <del>5118 (043)</del> <del>Page 135 φ</del>f 252 STA. 385+00 TO STA. 390+16 390+00 WHITE 4 IN PERM YELLOW 4 IN PERM XX M.P.H. SPEED LIMIT 55 SPEED CHAIL TERM. END LF SEC. TREAT. LF 150 - TY 1 300 395+00 400+00 SIGNS SHOWN ARE EXISTING UNLESS OTHERWISE NOTED IN PLANS. TURNPIKE DR STOP 405+00 STA. 410+00 KY 44 PLAN SHEET MP 7.3 TO MP 7.5 385+00 TO STA. 398+37.60

Sta 23+95.15 Sta 23+95.15 e -2.00% e 2.00% Sta 24+46.15 e 0.00% Sta 24+97.15 e -2.00%

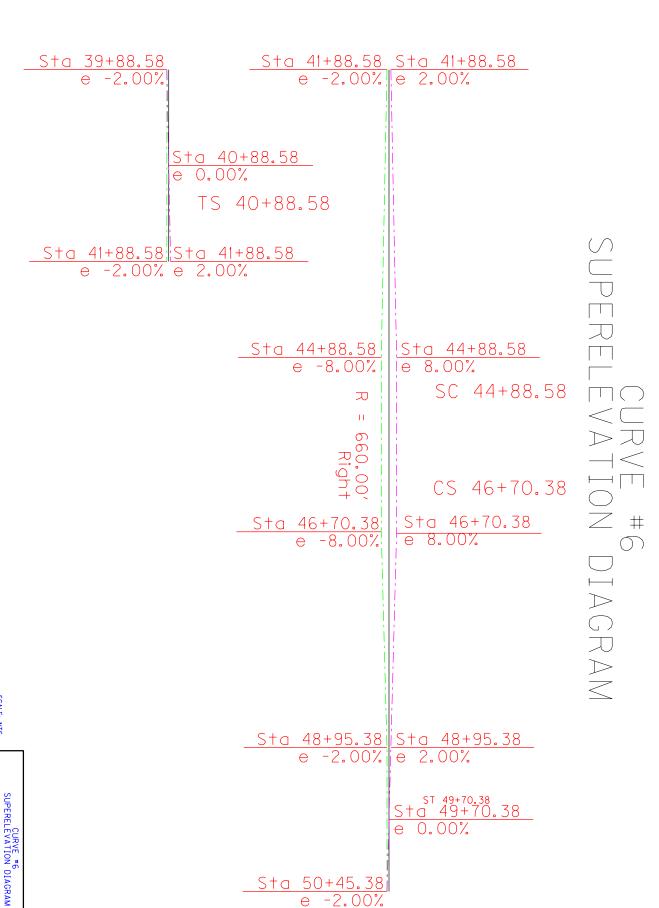
\*4 N DIAGRAM

SCALE: NTS

CURVE #4
SUPERELEVATION DIAGRAM

COUNTY OF ITEM NO.

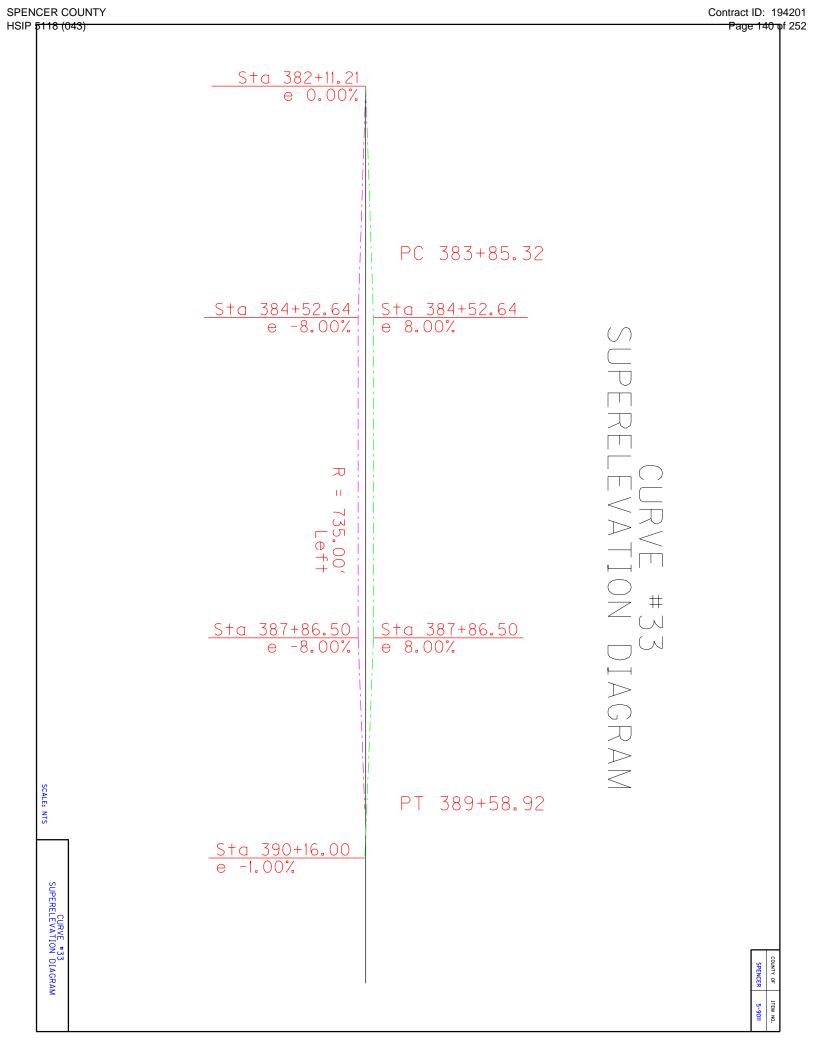
SPENCER 5-9011

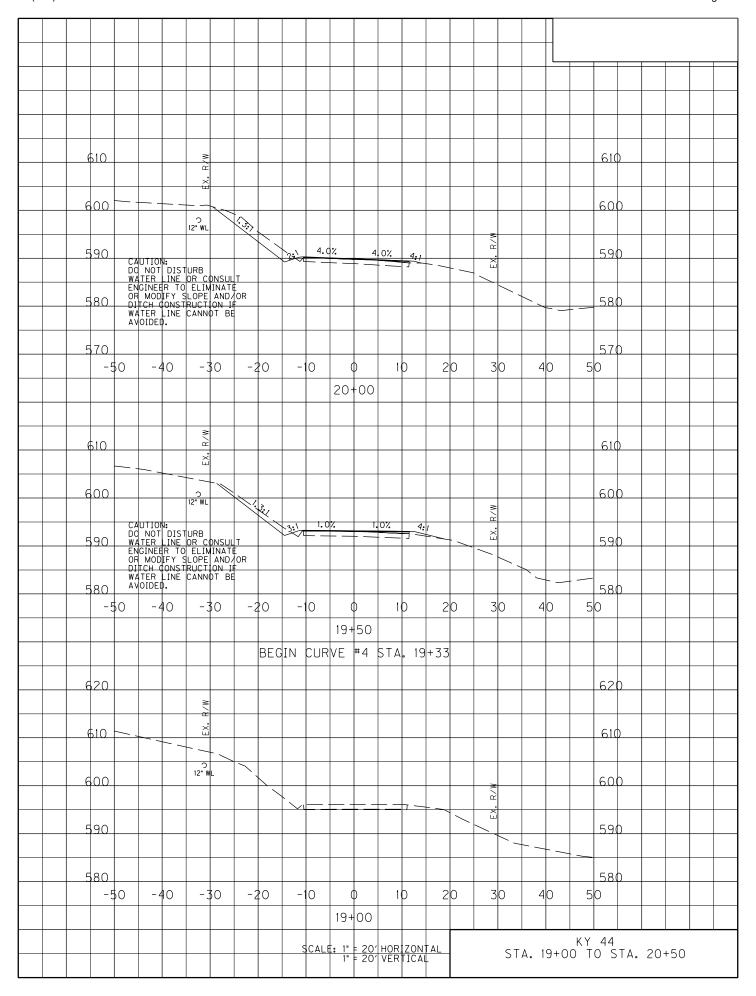


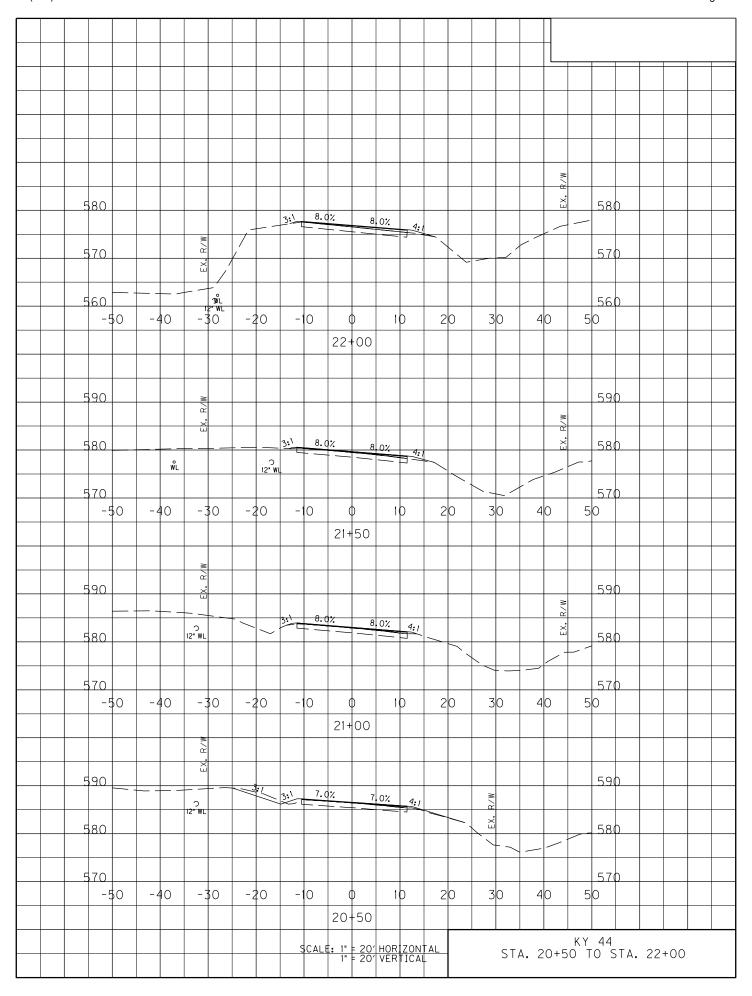
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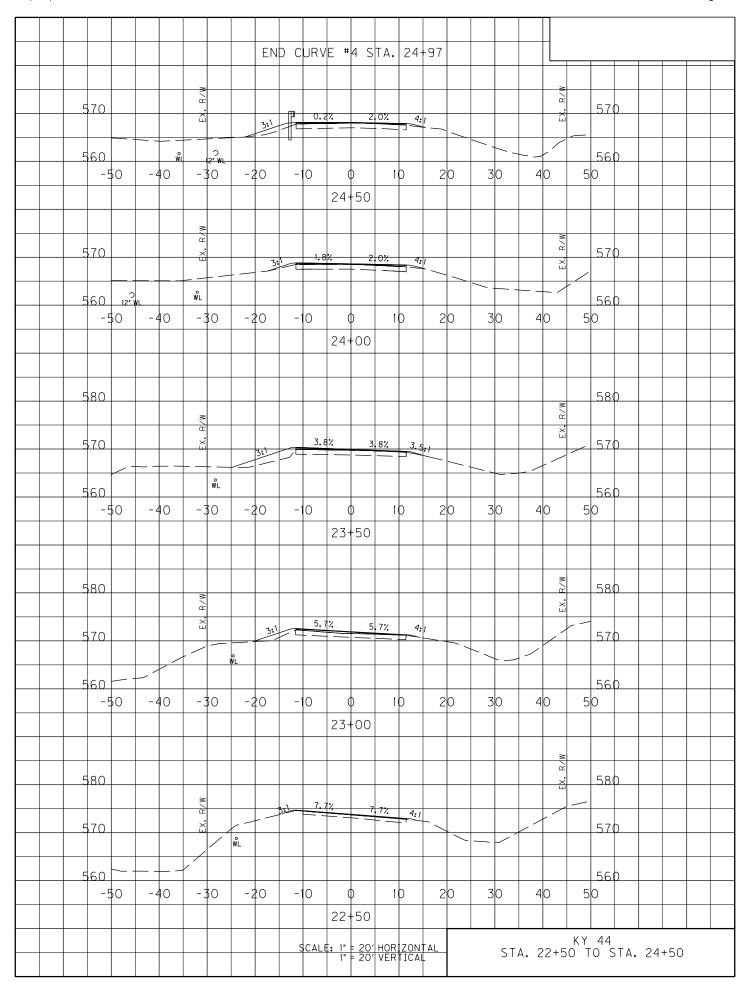
5-9011

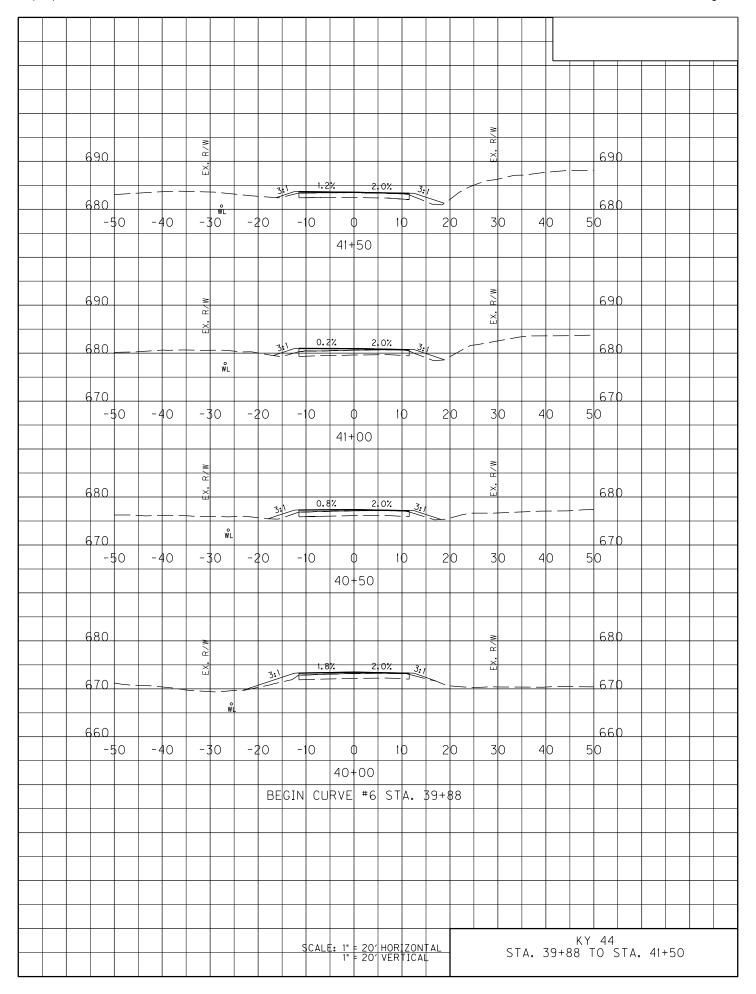
SCALE: NTS

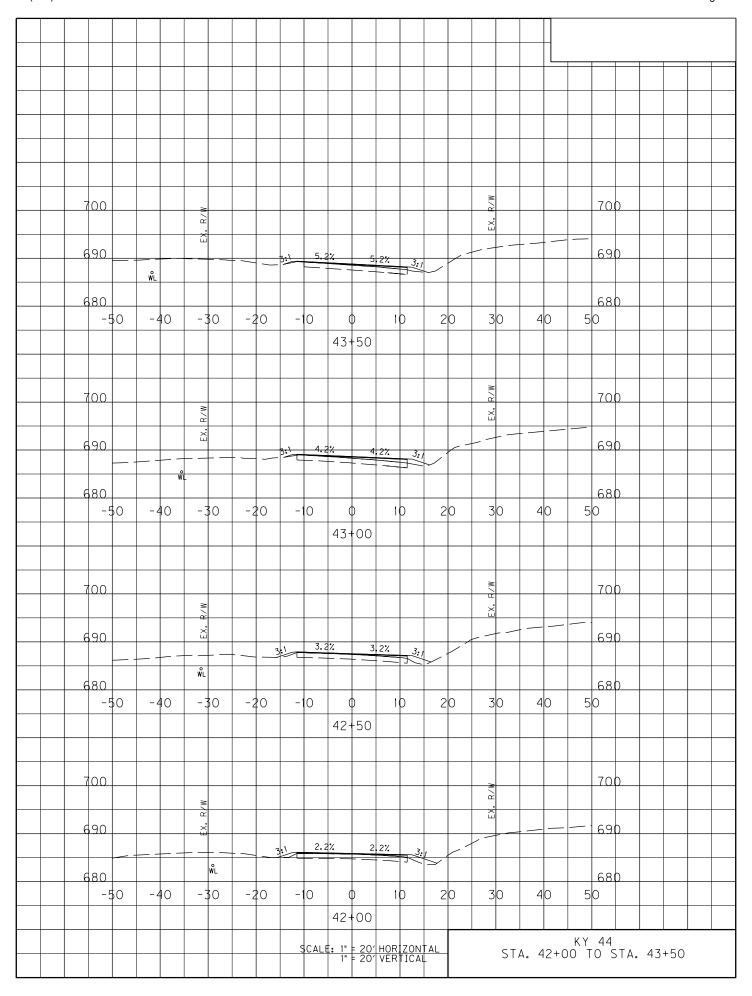


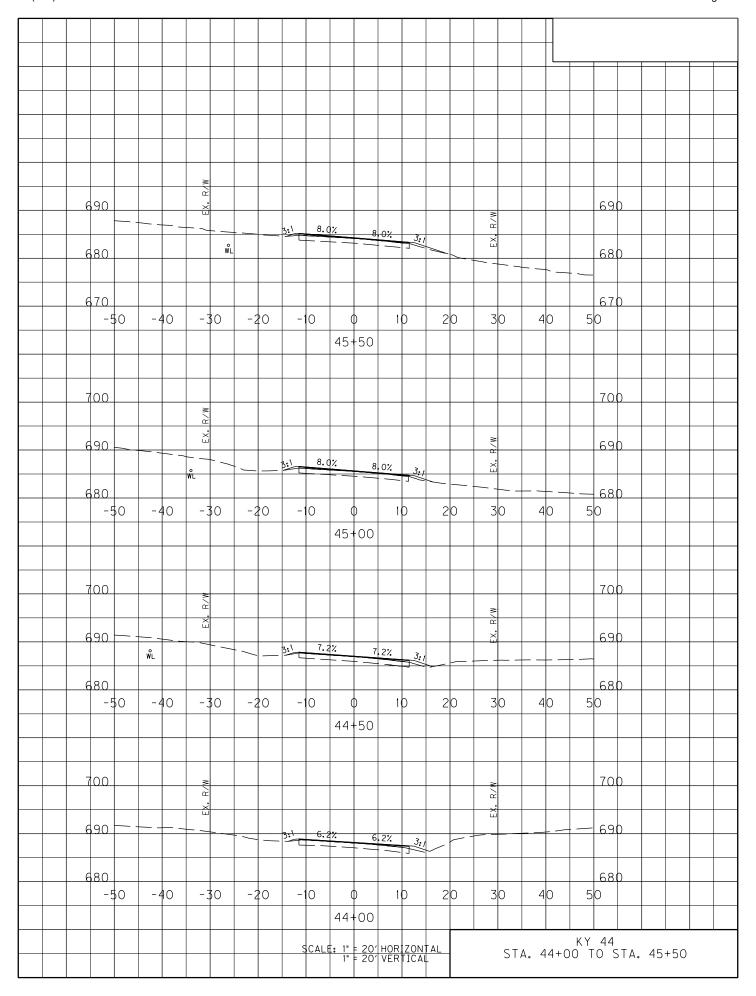


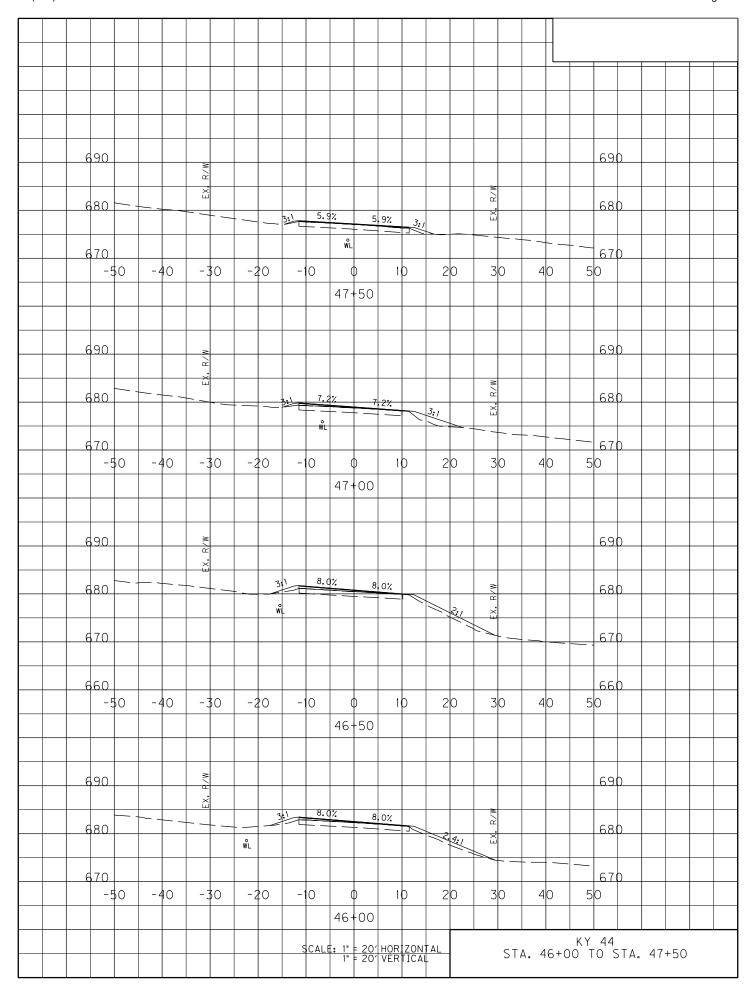


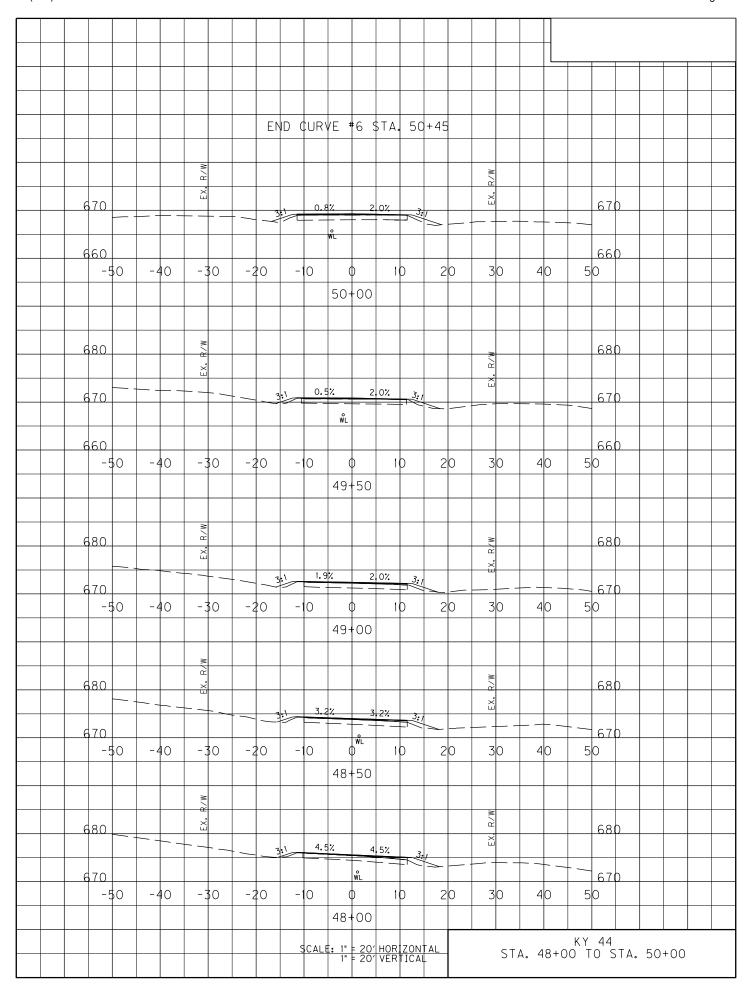


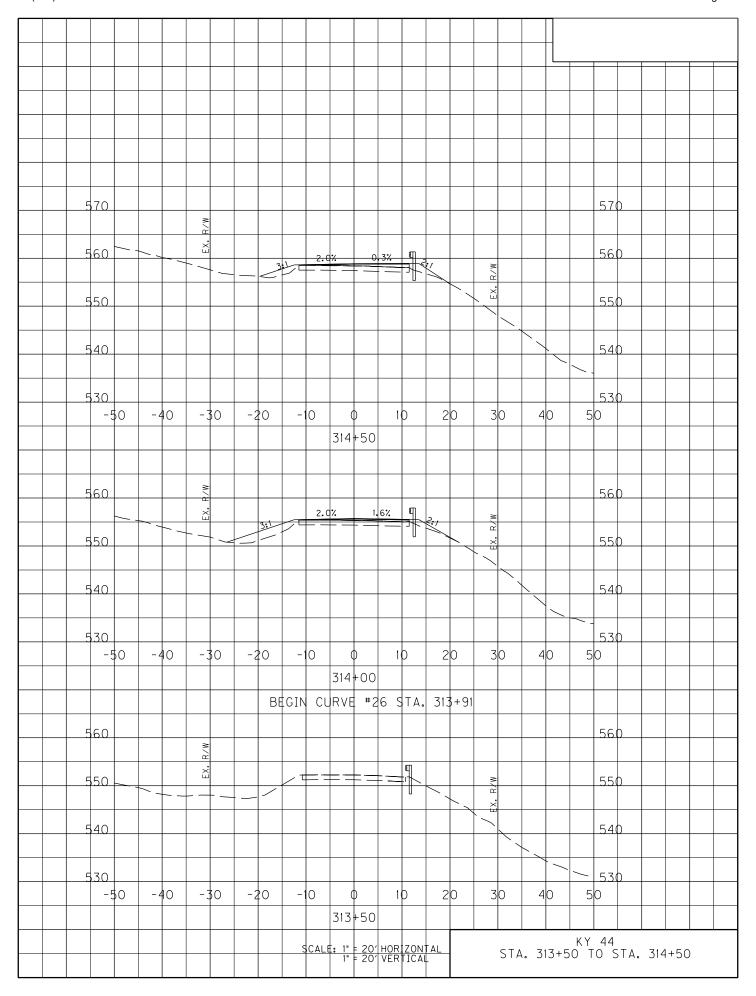


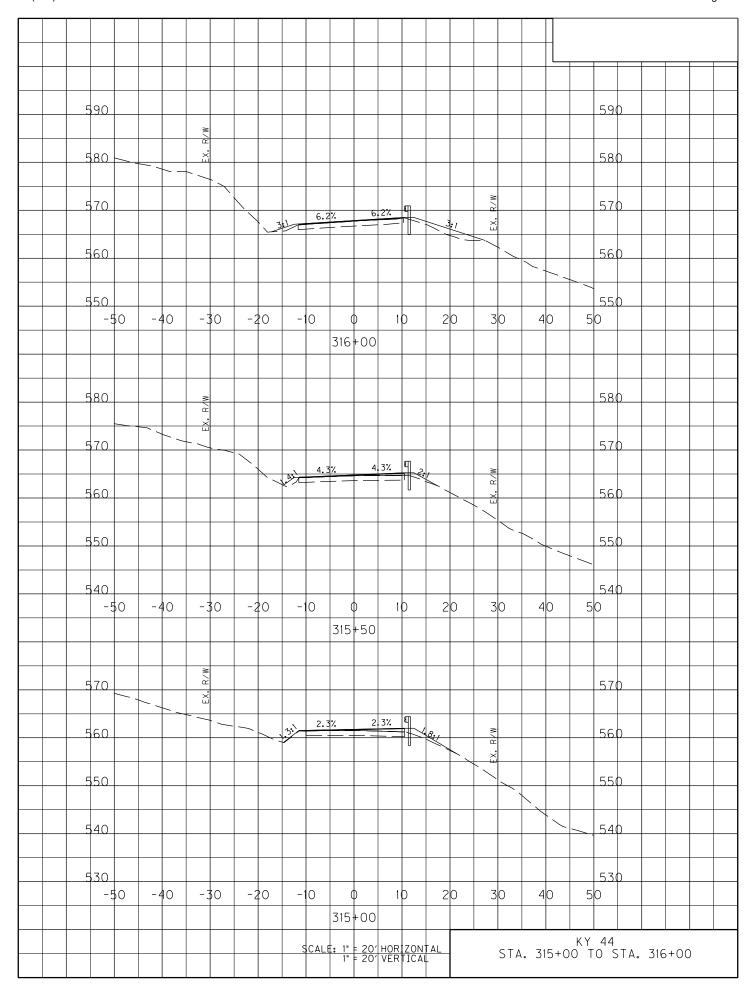


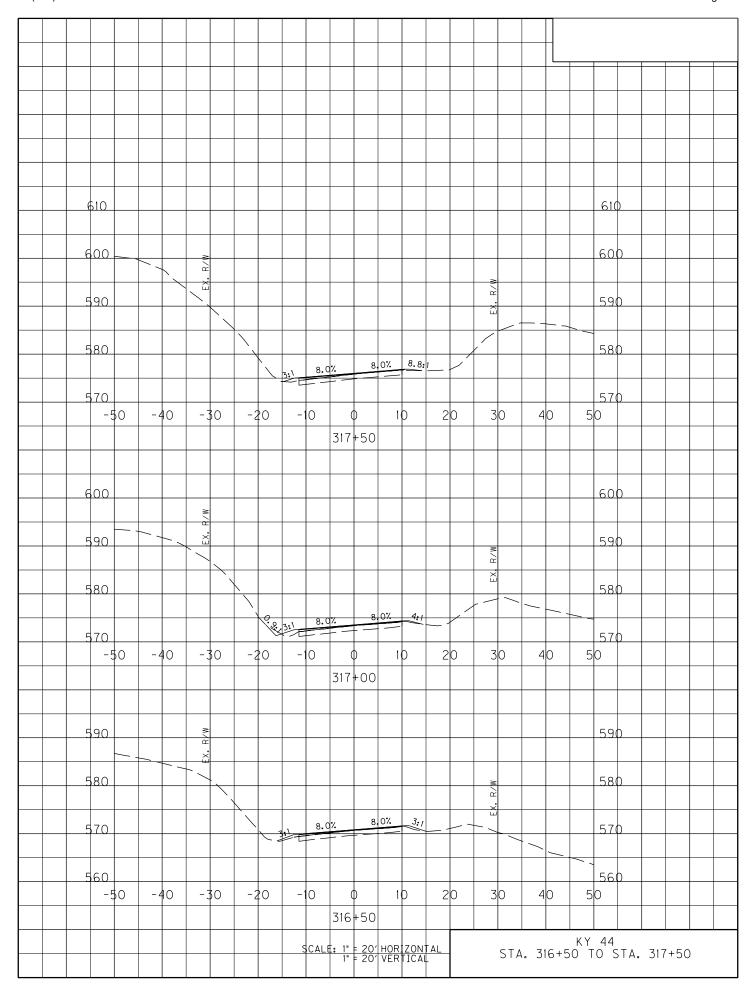


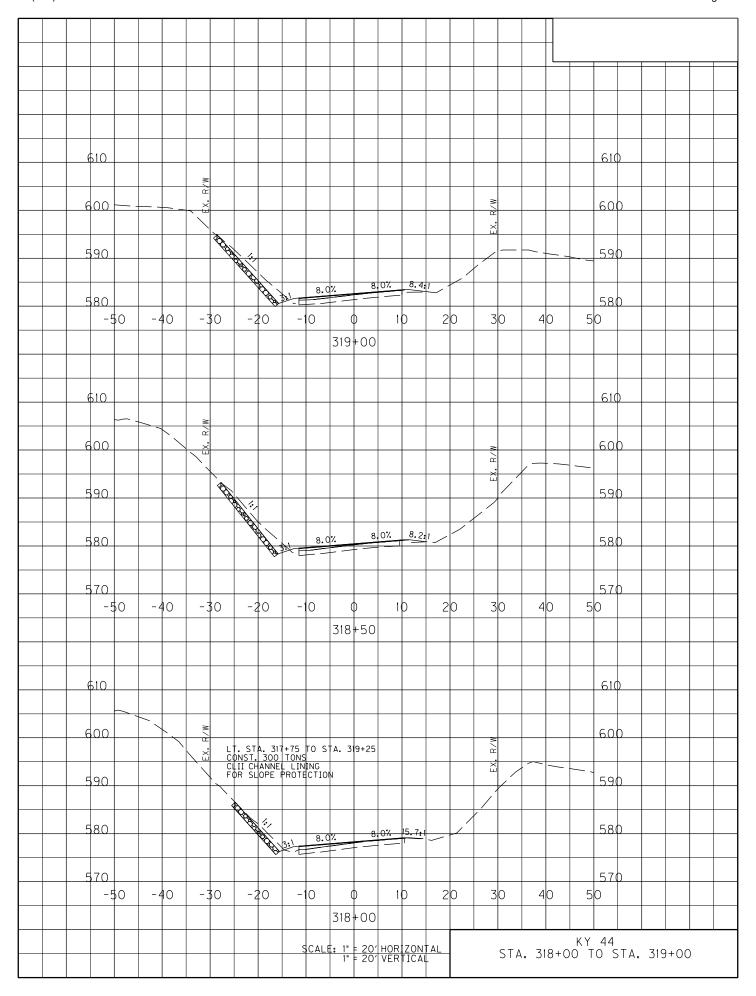


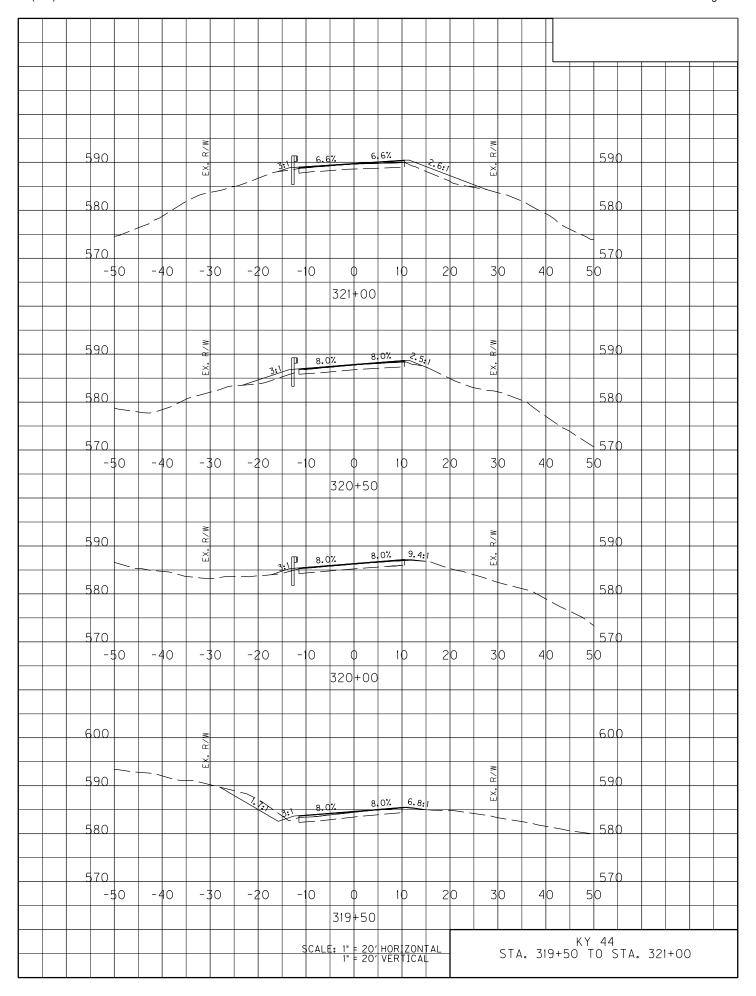


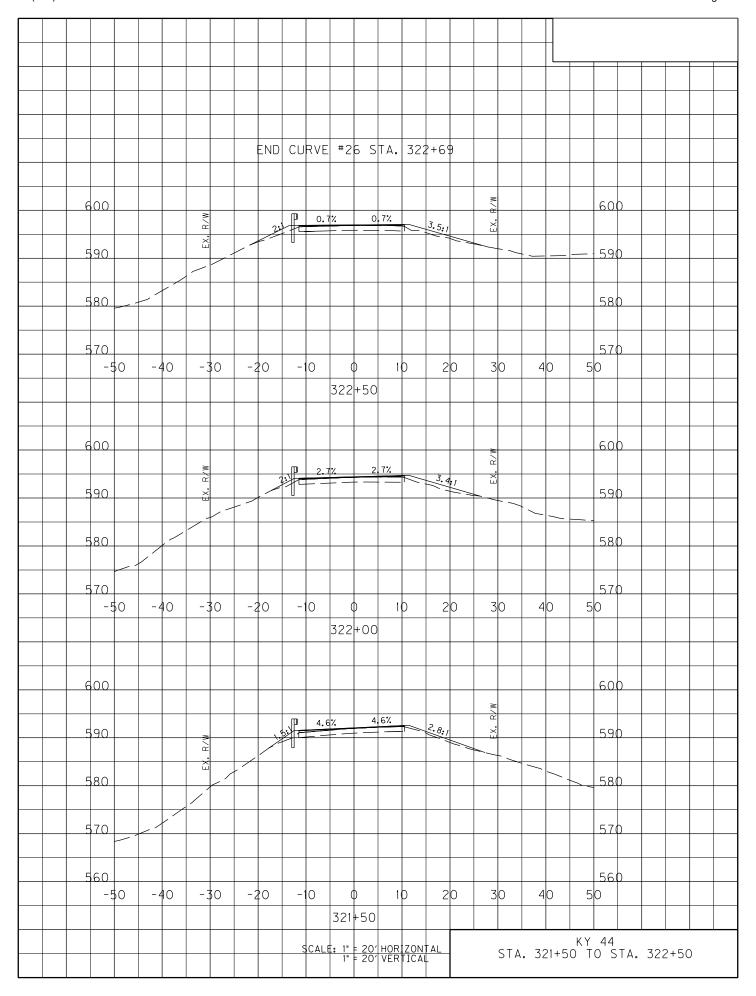


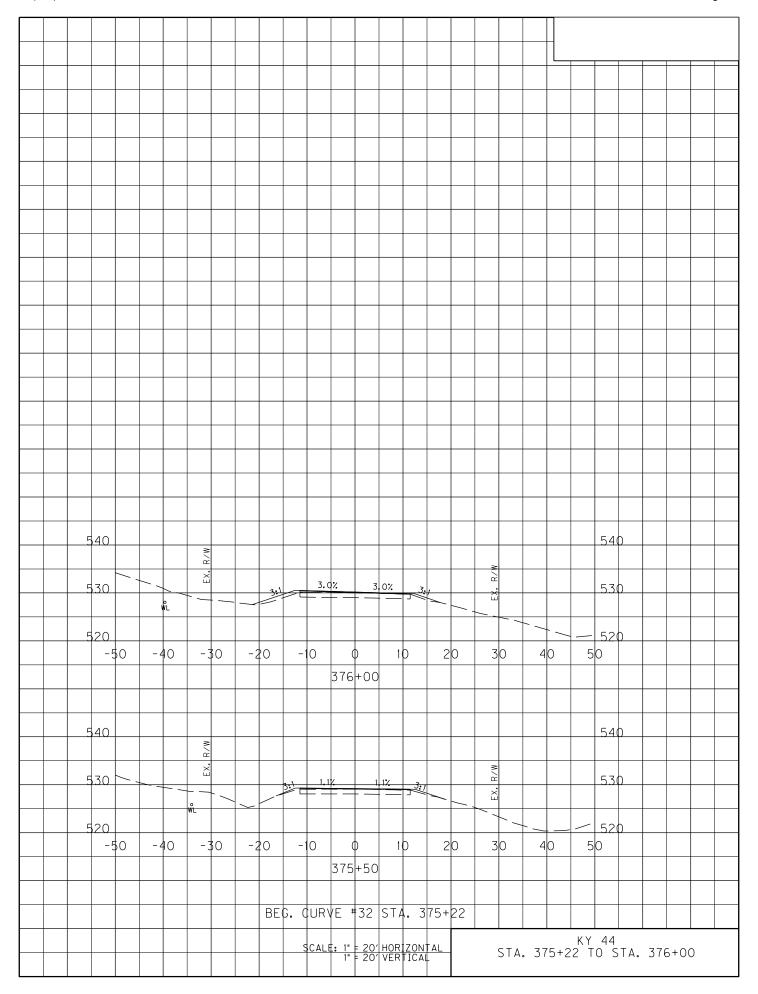


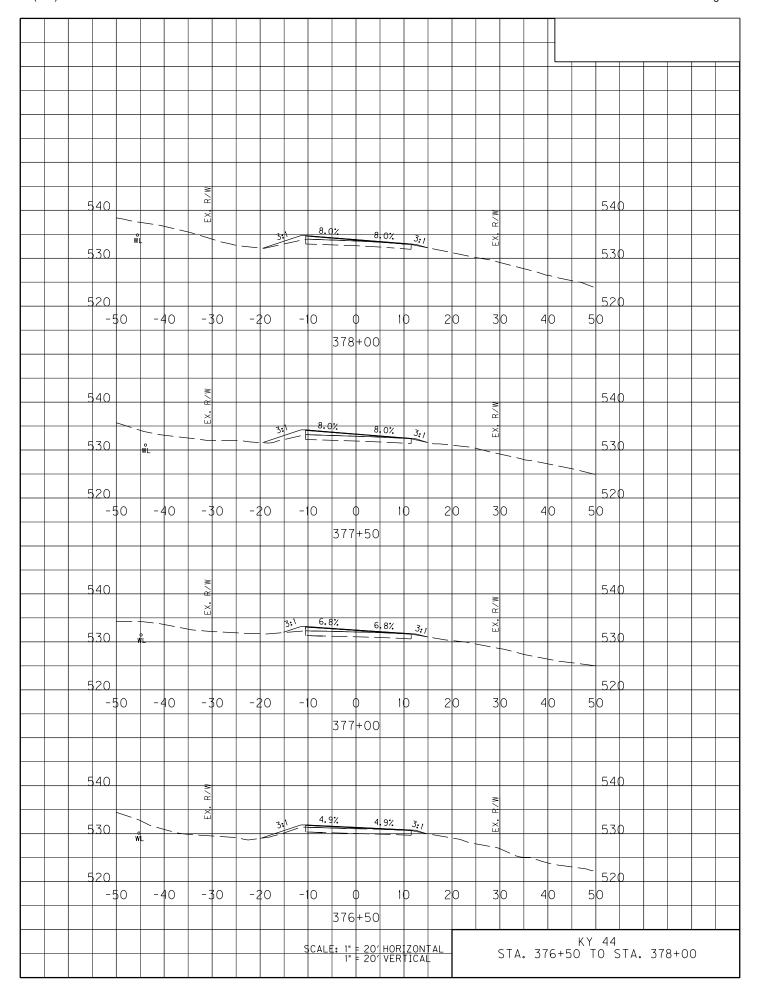


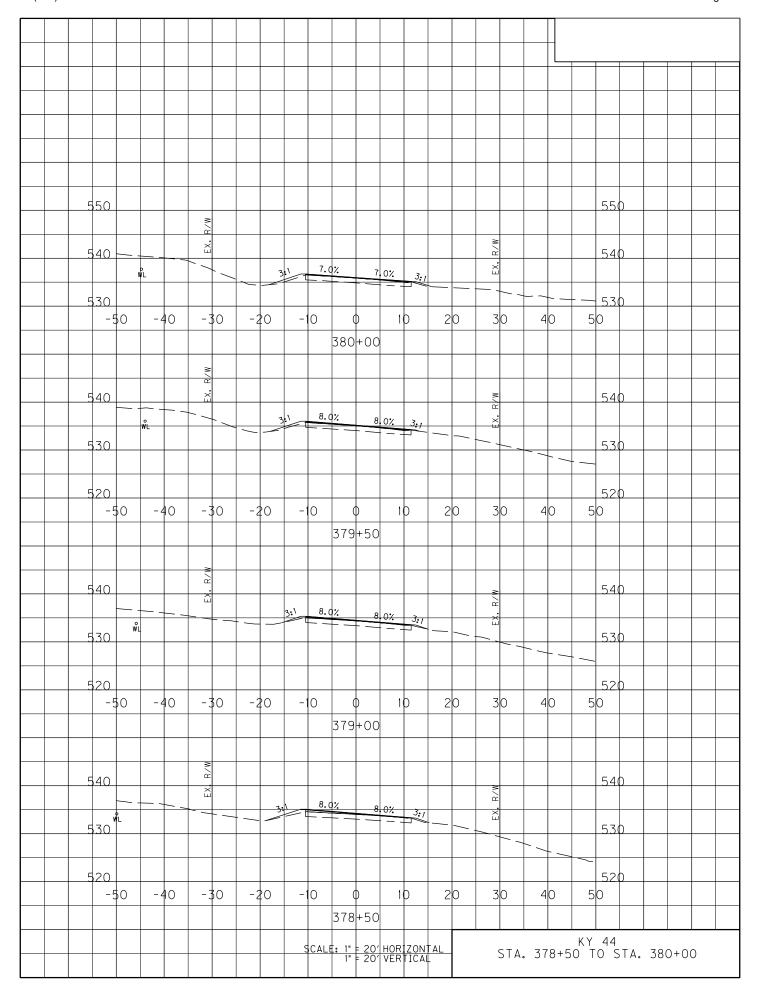


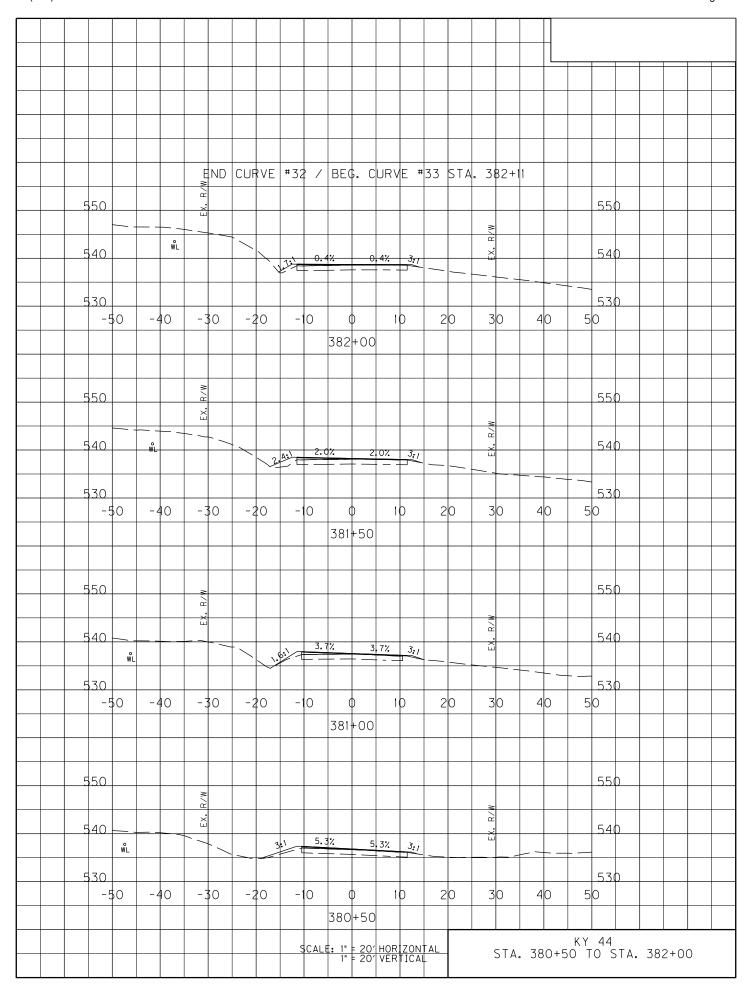


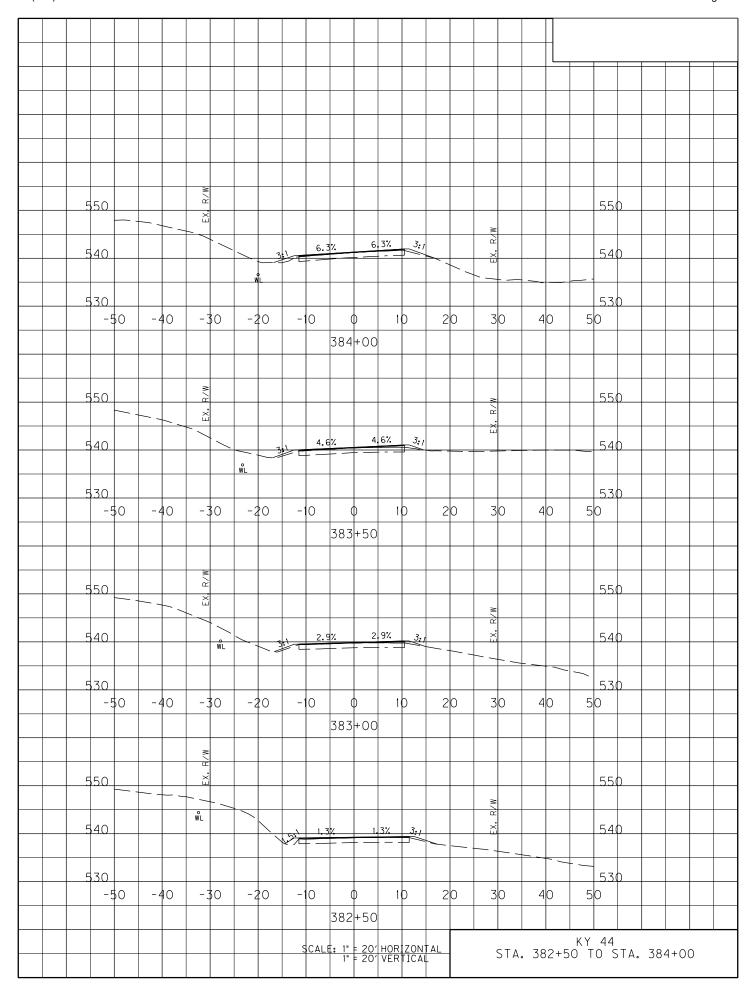


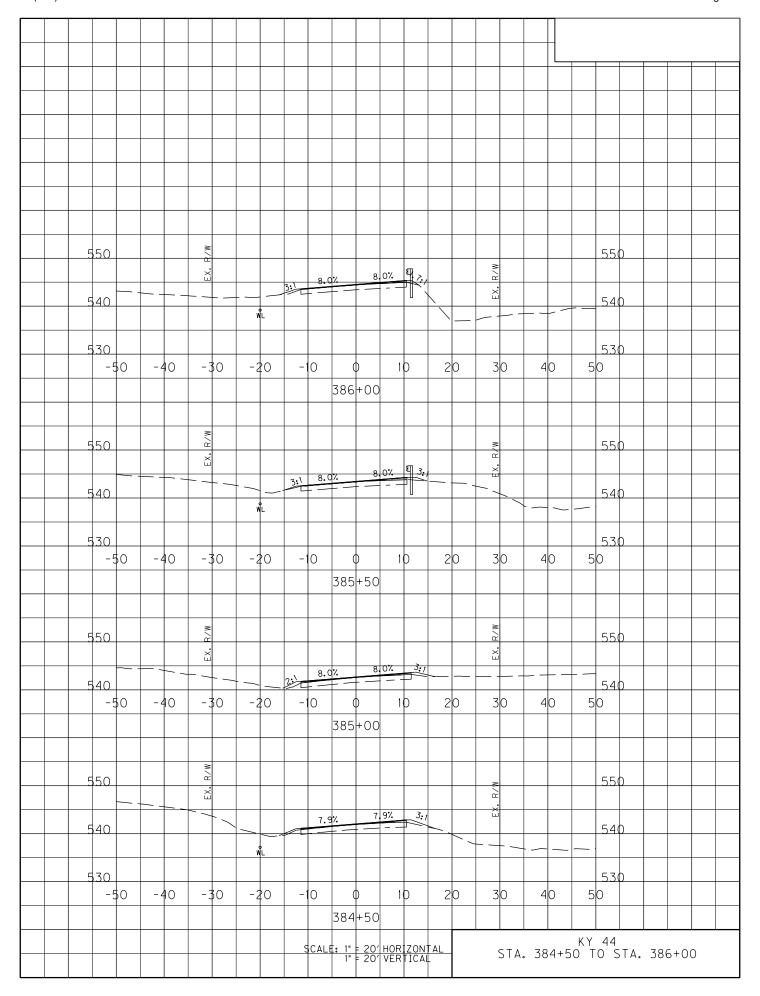


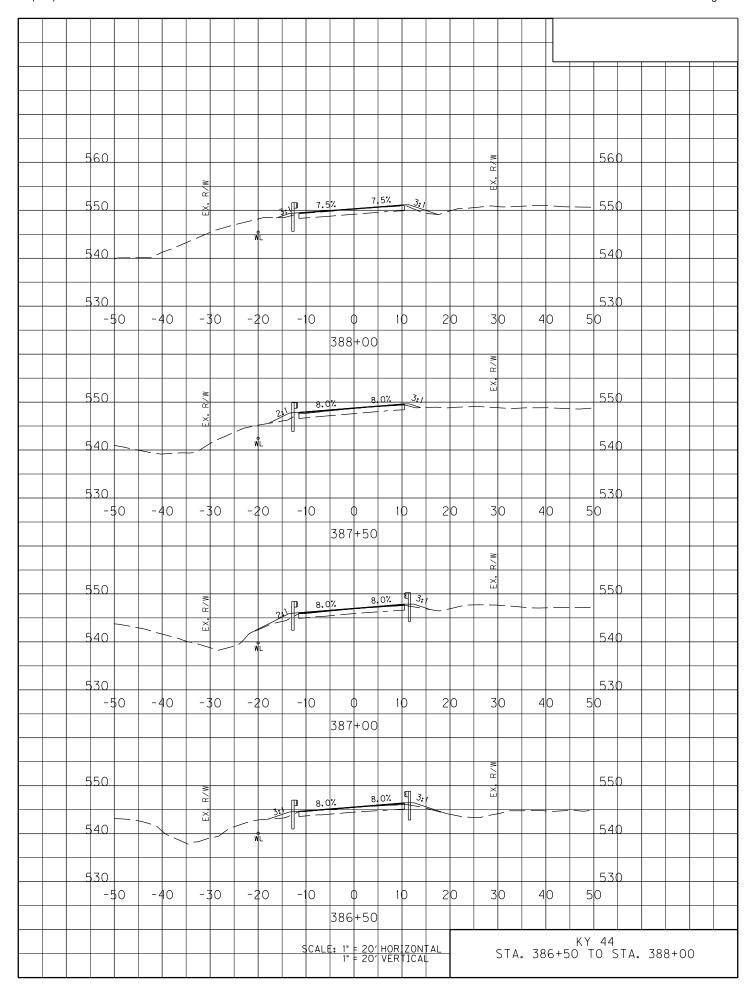


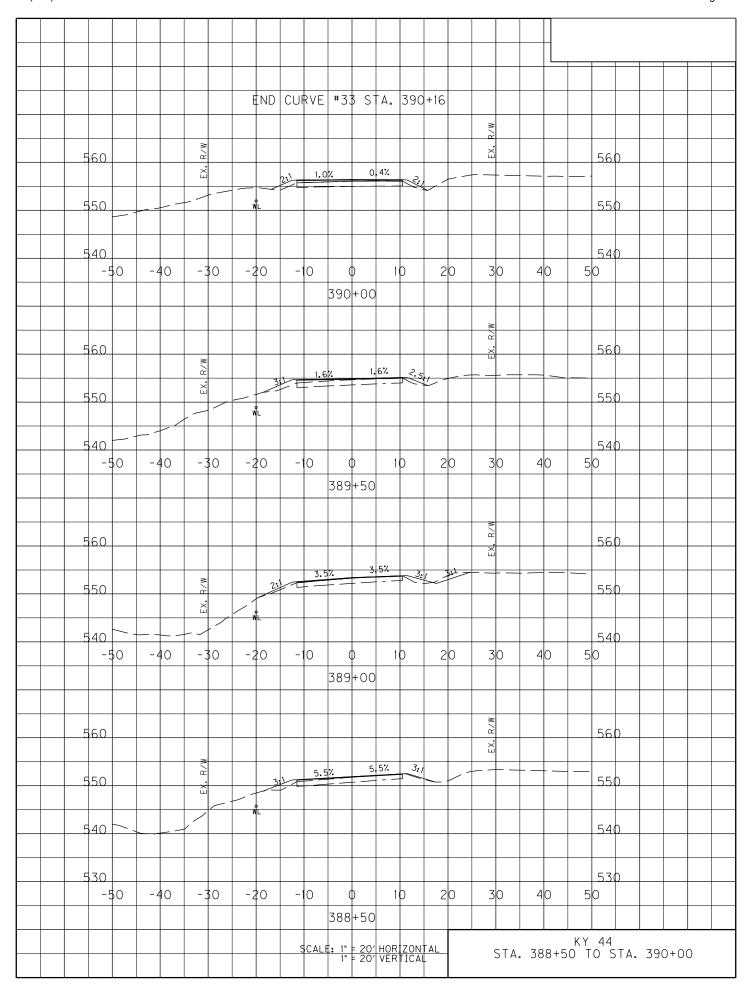


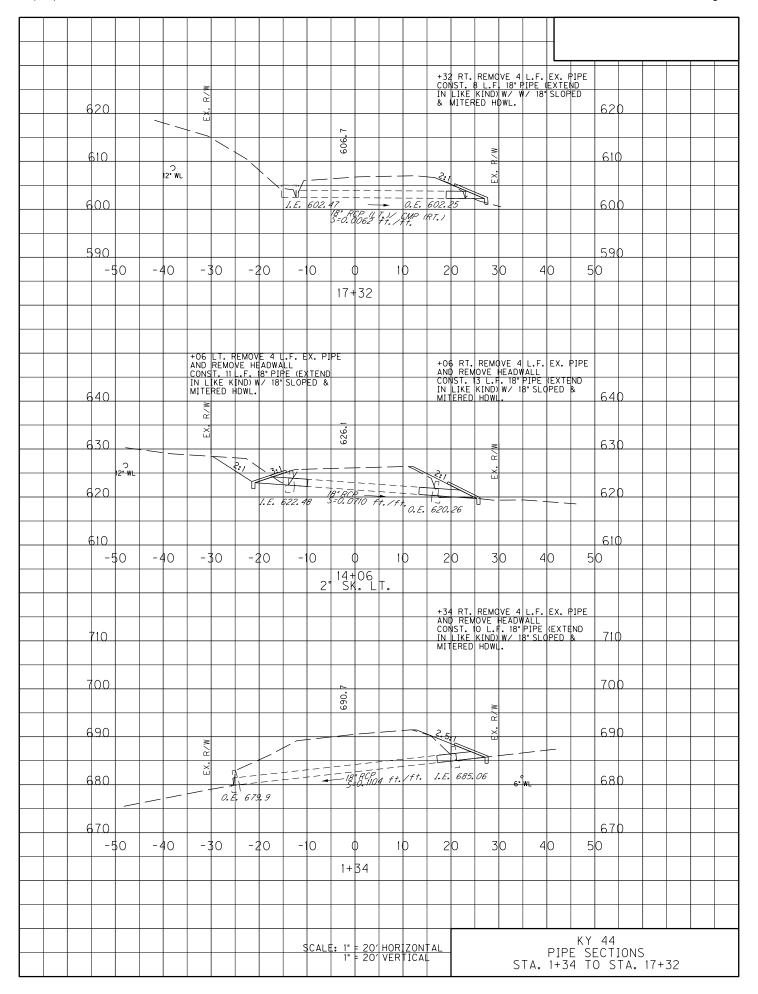


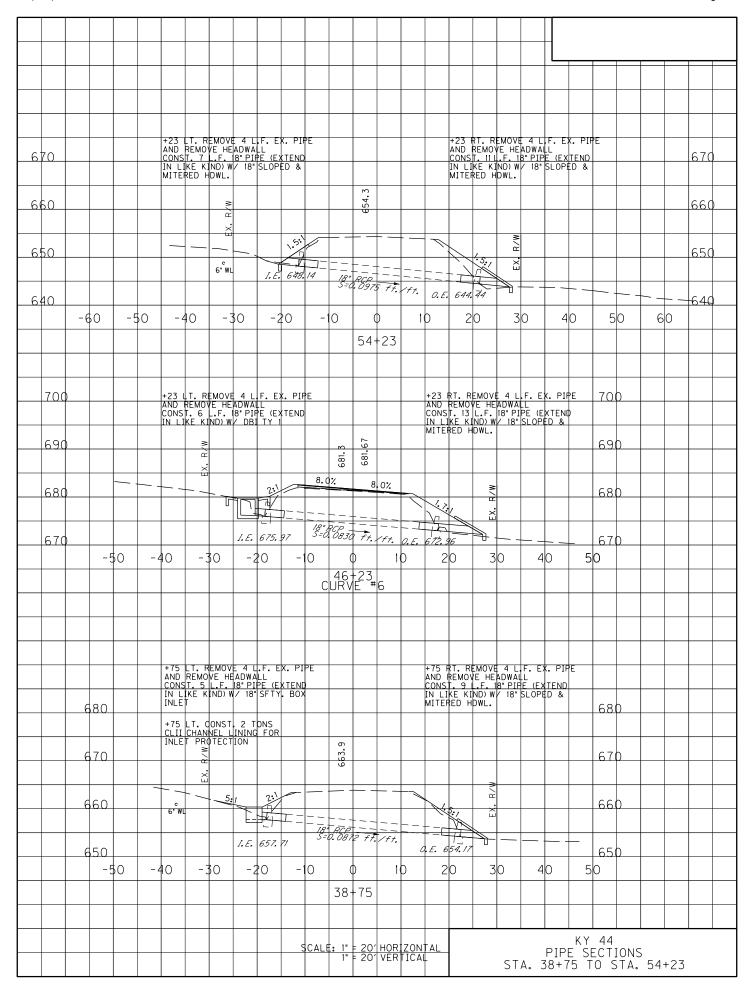


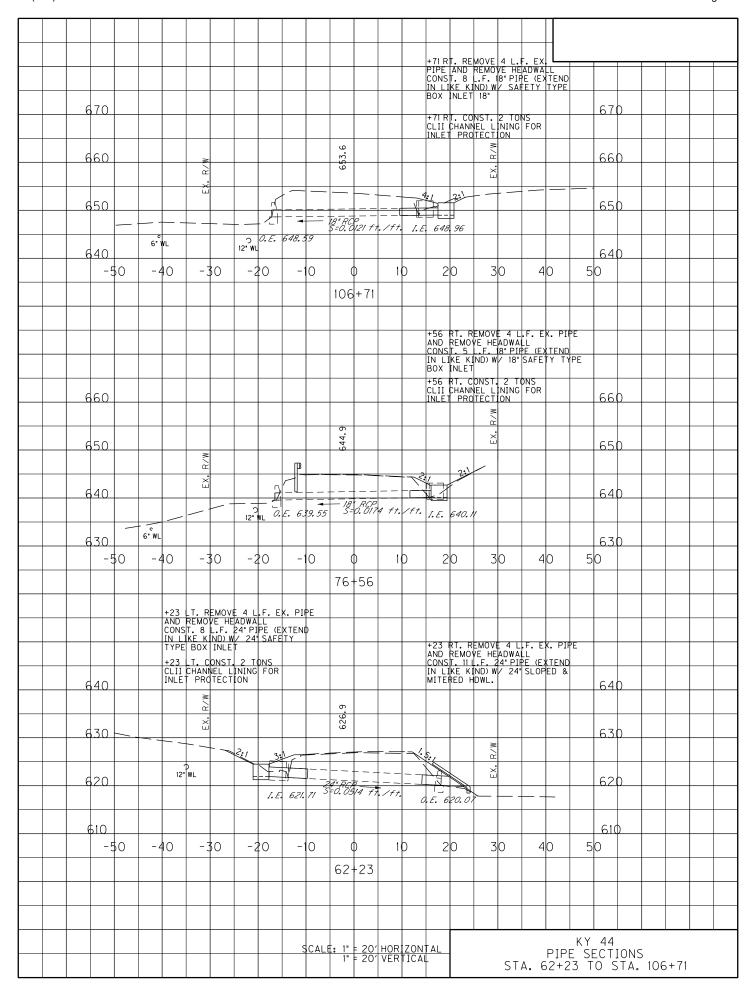


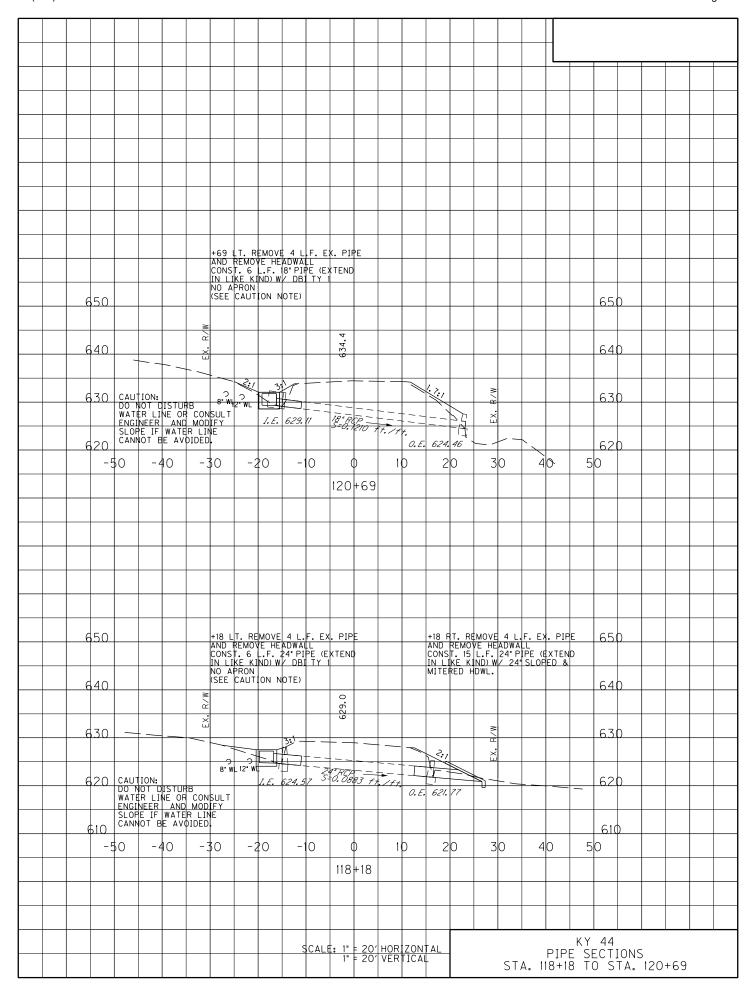


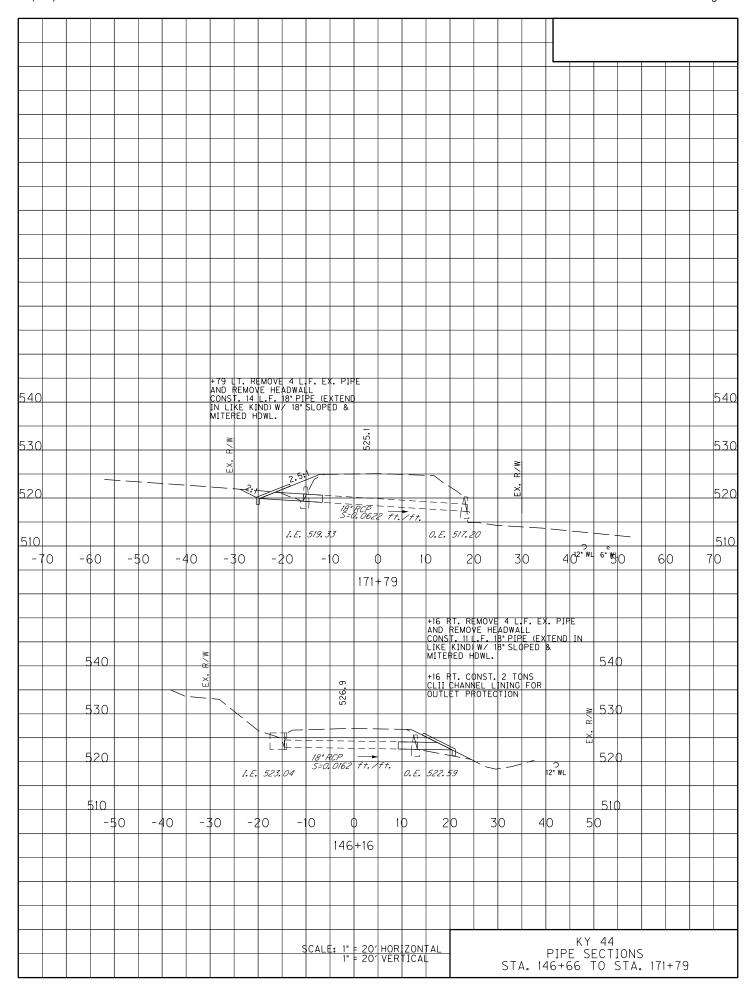


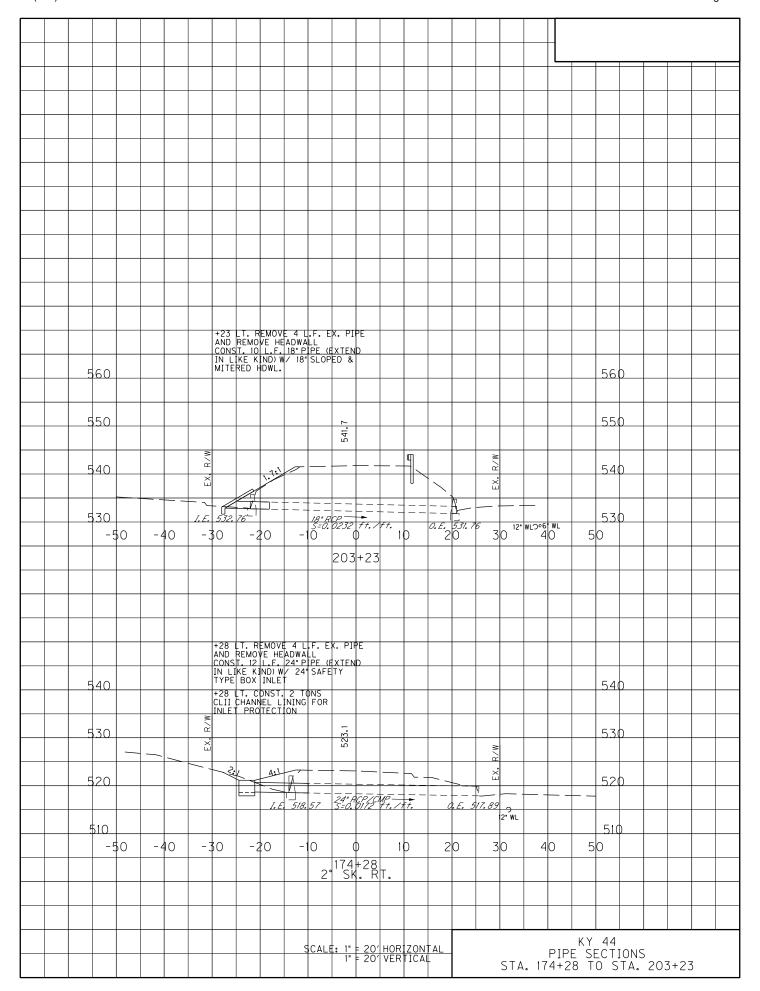


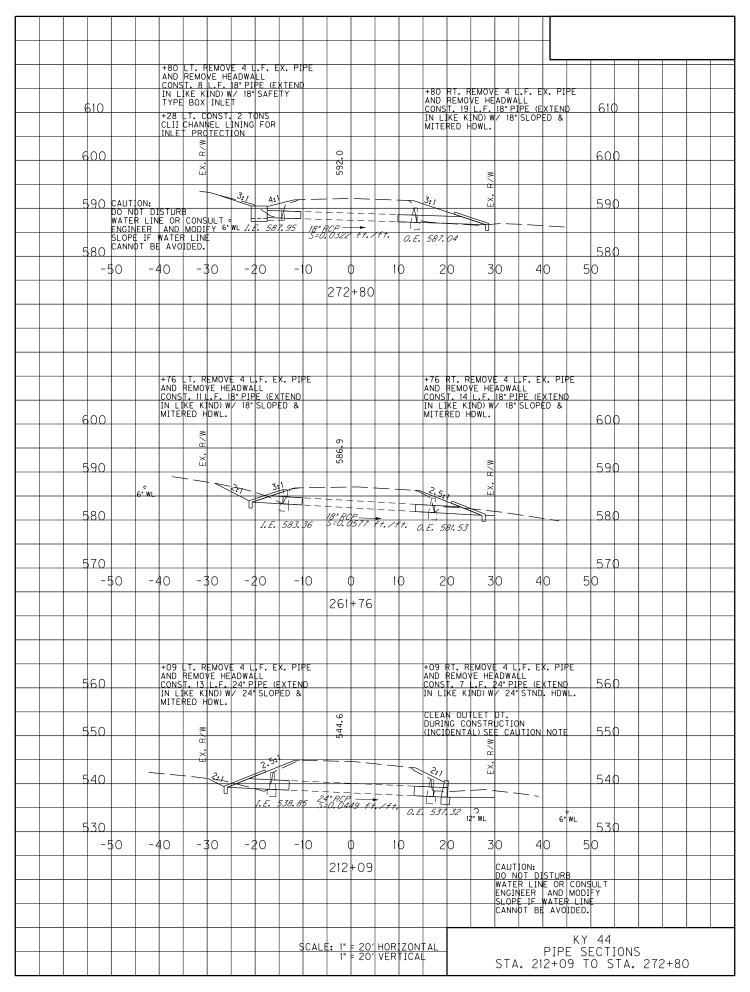


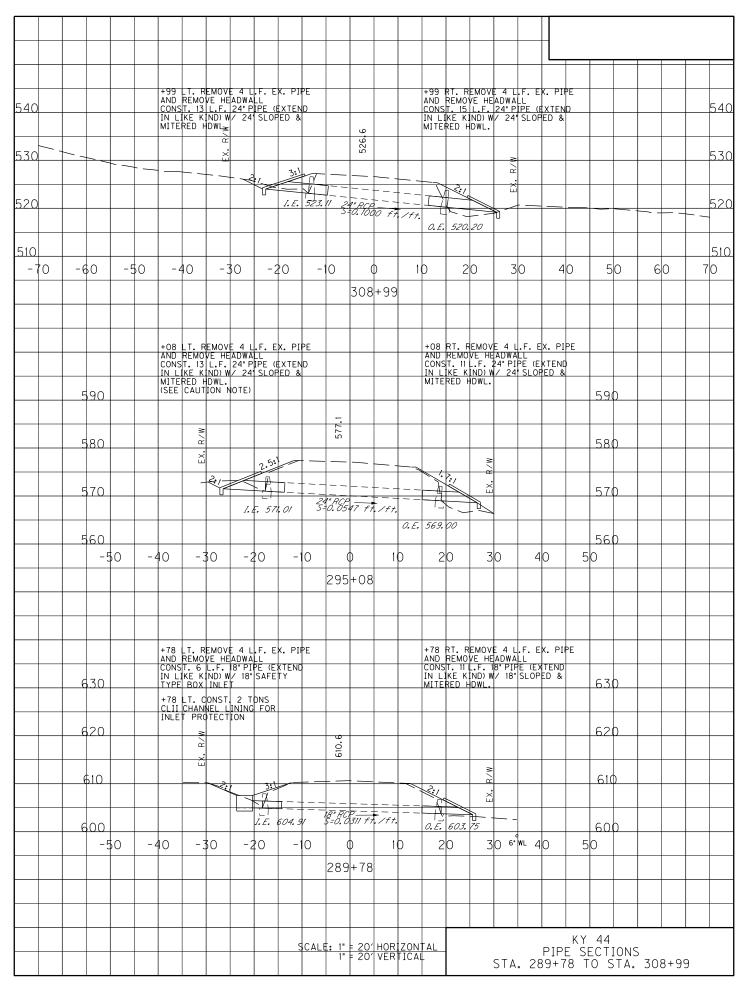


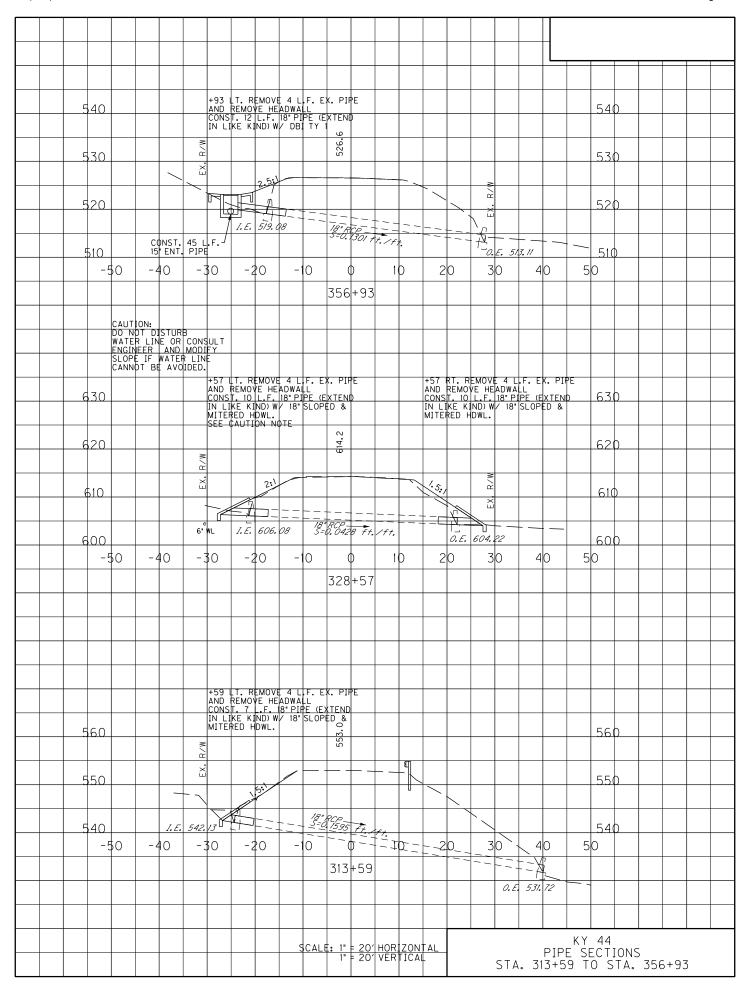


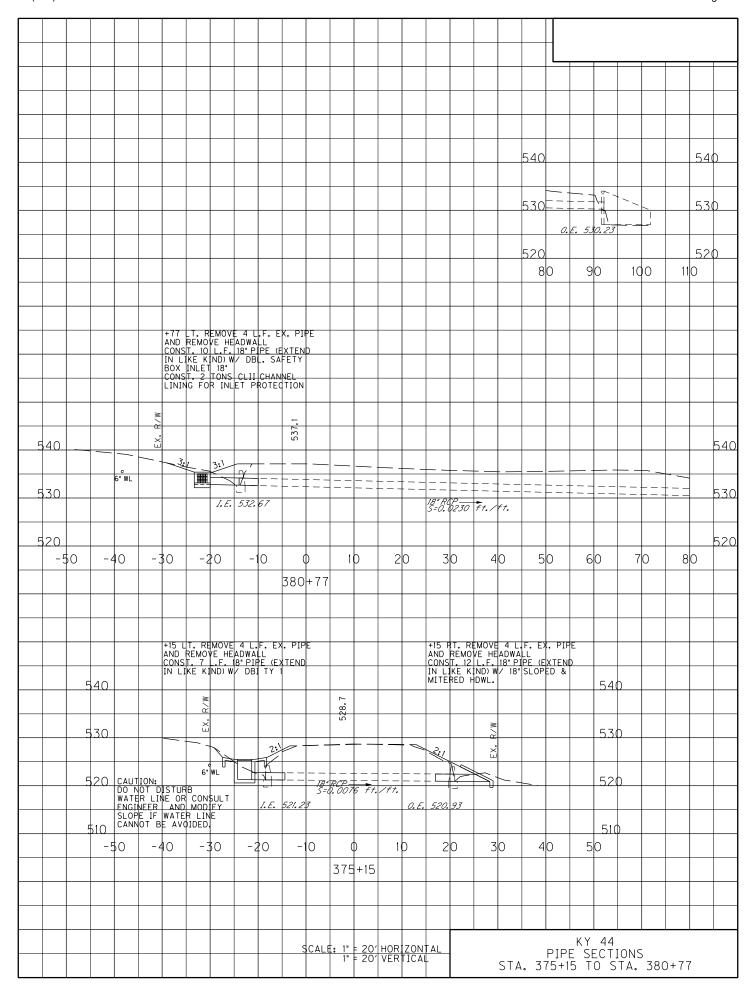






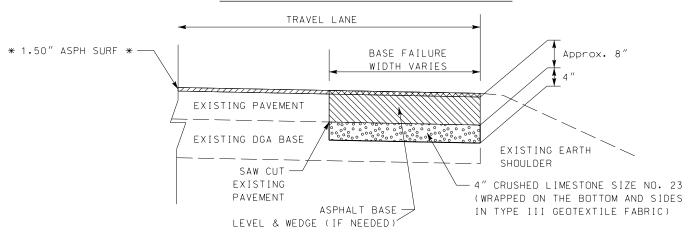






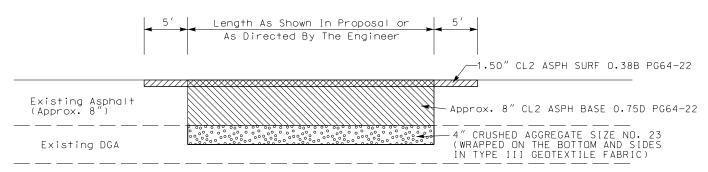
# BASE FAILURE REPAIR DETAILS

## BASE FAILURE CROSS SECTION DETAIL

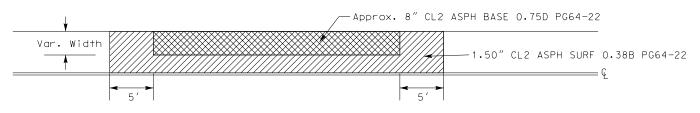


\* Mill & Inlay 1.50" Asph Surf according to the "Profile" and "Top View" details below, and according to the Special Notes.

## BASE FAILURE PROFILE DETAIL



#### BASE FAILURE TOP VIEW DETAIL



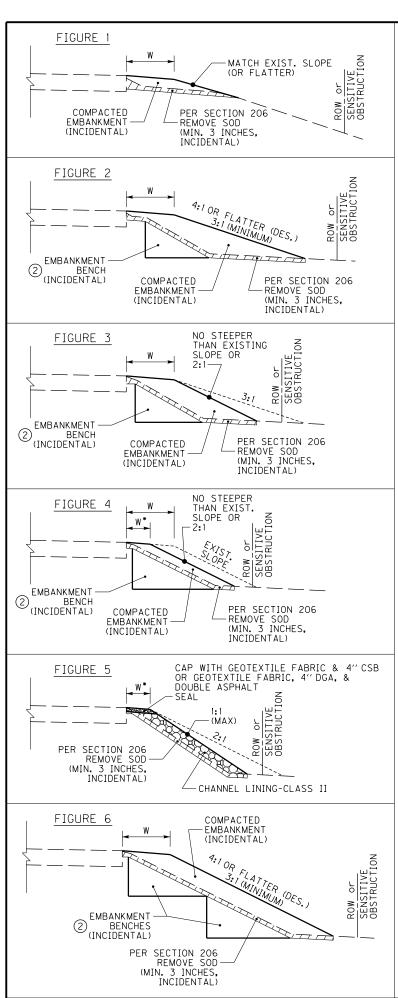
### FOR MORE INFORMATION, REFER TO THE "SPECIAL NOTE FOR BASE FAILURE REPAIR"

(1) "BASE FAILURE" locations are listed elsewhere in the proposal. The Engineer shall make the final determination as to the width, depth, and length, and the exact location of each base failure.

Once work has begun, the contrator will work continuously until the asphalt base is completed.

Bid Items for this work are as follows:

CL2 ASPH SURF 0.38B PG64-22 ASPHALT PAVE MILLING & TEXTURING LEVELING AND WEDGING BASE FAILURE REPAIR



~ NOTES ~

BID ITEM AND UNIT TO BID: 2575 - DITCHING & SHOULDERING - LF

2575 - DITCHING & SHOULDERING - LF
THE BID ITEM 'DITCHING & SHOULDERING' SHALL
CONSIST OF ANY AND ALL NECESSARY CLEARING &
GRUBBING, GRADING, AND/OR RESHAPING OF THE
EXISTING SHOULDER, DITCH, AND/OR ROADSIDE TO
ACHIEVE THE PROPOSED SHOULDER, DITCH, AND/OR
ROADSIDE DIMENSIONS, AS DETAILED ON THE TYPICAL
SECTIONS. FINAL PAYMENT WILL BE BASED ON THE
ACTUAL LINEAR FEET OF DITCHING AND SHOULDERING
PERFORMED, AND WILL INCLUDE ALL WORK AND
INCIDENTALS NECESSARY TO PERFORM THE DITCHING
AND SHOULDERING ACCORDING TO THESE DETAILS,
NOTES, AND ANY OTHER INFORMATION FOUND ELSEWHERE
IN THE PROPOSAL OR STANDARD SPECIFICATIONS. IN
THE CASE OF A DISCREPANCY, REFER TO SECTION
105.05 OF THE STANDARD SPECIFICATIONS. DEPENDING
ON THE EXISTING CONDITIONS ENCOUNTERED, DITCHING
AND SHOULDERING MAY ALSO INCLUDE, BUT IS NOT
LIMITED TO: LIMITED TO:

-PROVIDING ADDITIONAL EARTH MATERIAL AND GRADING, SHAPING, AND COMPACTING THE EARTH MATERIAL TO ACHIEVE THE DIMENSIONS SHOWN ON THE TYPICAL SECTIONS. COMPACT MATERIAL ACCORDING TO SECTION 206 OF THE STANDARD SPECIFICATIONS.

NOTE: ADDITIONAL EARTH MATERIAL PROVIDED SHALL BE SUITABLE FOR VEGETATION GROWTH.
-EXCAVATING AND REMOVING EXCESS MATERIAL TO ACHIEVE THE DIMENSIONS SHOWN ON THE TYPICAL SECTIONS

-EMBANKMENT BENCHING

- ② EMBANKMENT BENCHING WILL BE REQUIRED WHEN THE EXISTING GROUNDLINE HAS AN INCLINE GREATER THAN EXISTING GROUNDLINE HAS AN INCLINE GREATER THAN 15% (APPROX. 6:1). ANY AND ALL REQUIRED EMBANKMENT BENCHING SHALL BE INCIDENTAL TO THE BID ITEM 'DITCHING AND SHOULDERING'. THE FOLLOWING ARE GUIDELINES FOR EMBANKMENT BENCHING USED IN CONJUNCTION WITH THE BID ITEM 'DITCHING AND SHOULDERING':

  -THE TYPICAL HEIGHT (OR RISE) IS 1' TO 6'
  - ND SHOULDERING:
    -THE TYPICAL HEIGHT (OR RISE) IS 1'TO 6'
    -THE TYPICAL WIDTH (OR RUN) WILL VARY BASED ON
    THE HEIGHT OF THE BENCH
    -MULTIPLE SMALL BENCHES MAY BE USED, AND MAY
    BE MORE ADVANTAGEOUS AS THIS WILL REQUIRE
  - PROCESSING LESS EARTHWORK.
- AS SHOWN IN FIGURE 1, IN SOME SITUATIONS, MINOR SHOULDERING, WITH MINIMAL ADDITIONAL EARTH MATERIAL, MAY BE ALL THAT IS REQUIRED TO RESHAPE THE EARTH SHOULDER TO THE PROPOSED WIDTH AND BRING IT FLUSH WITH THE EDGE OF PAVEMENT.
- AS SHOWN IN FIGURE 2, MOST SITUATIONS WILL
  REQUIRE ADDITIONAL EARTH MATERIAL TO ACHIEVE THE
  PROPOSED EARTH SHOULDER WIDTH, IT IS DESIRED
  THAT THE RESULTING FILL SLOPE BE INSTALLED AS
  FLAT AS POSSIBLE AND REMAIN WITHIN THE
  RIGHT-OF-WAY AND/OR AVOID SENSITIVE OBSTRUCTIONS.
- AS SHOWN IN FIGURE 3, IF A 3:1 FILL SLOPE WILL RESULT IN THE TOE OF SLOPE EXTENDING BEYOND THE RIGHT-OF-WAY OR IMPACT A SENSITIVE OBSTRUCTION, THEN THE FILL SLOPE MAY BE INSTALLED STEEPER THAN 3:1, BUT NO STEEPER THAN THE EXISTING FILL SLOPE, OR A 2:1, WHICHEVER IS FLATTER.
- SLOPE, OR A 2:1, WHICHEVER IS FLATTER.

  AS SHOWN IN FIGURE 4, IF MATCHING THE EXISTING FILL SLOPE OR INSTALLING A 2:1FILL SLOPE (WHICHEVER IS FLATTER) STILL RESULTS IN THE TOE OF SLOPE EXTENDING BEYOND THE RIGHT-OF-WAY OR STILL IMPACTS A SENSITIVE OBSTRUCTION, THEN THE PROPOSED EARTH SHOULDER WIDTH MAY BE REDUCED SO THAT THE RESULTING TOE OF SLOPE WILL REMAIN WITHIN THE RIGHT-OF-WAY AND/OR NOT IMPACT THE SENSITIVE OBSTRUCTION. SENSITIVE OBSTRUCTION.
- SENSITIVE OBSTRUCTION.

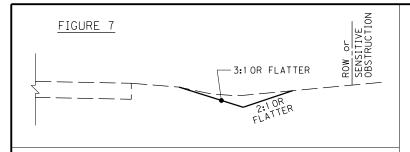
  AS SHOWN IN FIGURE 5, IF THE EXISTING FILL SLOPE
  IS STEEPER THAN 2:1 AND THERE IS NOT ENOUGH SPACE
  TO INSTALL A 2:1 FILL SLOPE WITHOUT EXTENDING
  BEYOND THE RIGHT-OF-WAY AND/OR IMPACTING A
  SENSITIVE OBSTRUCTION, THEN CLASS II CHANNEL
  LINING MAY BE INSTALLED ALONG THE STEEP EXISTING
  SLOPE IN ORDER TO ESTABLISH A WIDTH OF AGGREGATE
  SHOULDER. THESE LOCATIONS WILL BE NOTED
  ELSEWHERE IN THE PROPOSAL AS SLOPE PROTECTION.
  THE CHANNEL LINING IS TO BE CAPPED WITH
  GEOTEXTILE FABRIC TYPE IV AND 4" OF CRUSHED STONE
  BASE, OR 4" OF DGA WITH DOUBLE ASPHALT SEAL COAT.
  AS SHOWN IN FIGURE 6 AS THE HEIGHT OF THE FILL
- AS SHOWN IN FIGURE 6, AS THE HEIGHT OF THE FILL INCREASES, MULTIPLE EMBANKMENT BENCHES MAY BE REQUIRED.

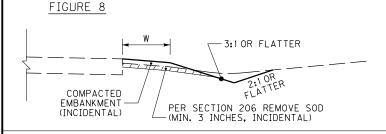
SEE SHEET 2 FOR NOTES 9 THRU 13

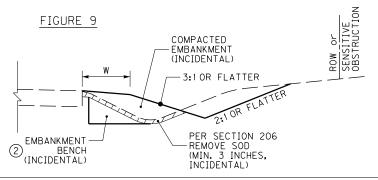
KENTUCKY DEPARTMENT OF HIGHWAYS

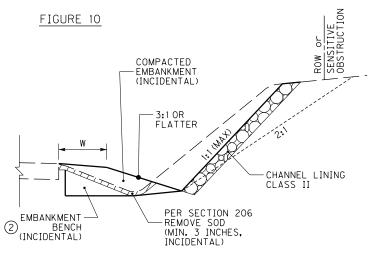
**DITCHING & SHOULDERING** AND EMBANKMENT BENCHING DETAILS (SHEET 1 OF 2)

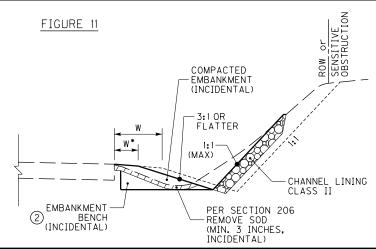
NOT TO SCALE











~ NOTES ~

BID ITEM AND UNIT TO BID: 2575 - DITCHING & SHOULDERING - LF

2575 - DITCHING & SHOULDERING - LF
THE BID ITEM 'DITCHING & SHOULDERING' SHALL
CONSIST OF ANY AND ALL NECESSARY CLEARING &
GRUBBING, GRADING, AND/OR RESHAPING OF THE
EXISTING SHOULDER, DITCH, AND/OR ROADSIDE TO
ACHIEVE THE PROPOSED SHOULDER, DITCH, AND/OR
ROADSIDE DIMENSIONS, AS DETAILED ON THE TYPICAL
SECTIONS. FINAL PAYMENT WILL BE BASED ON THE
ACTUAL LINEAR FEET OF DITCHING AND SHOULDERING
PERFORMED, AND WILL INCLUDE ALL WORK AND
INCIDENTALS NECESSARY TO PERFORM THE DITCHING
AND SHOULDERING ACCORDING TO THESE DETAILS,
NOTES, AND ANY OTHER INFORMATION FOUND ELSEWHERE
IN THE PROPOSAL OR STANDARD SPECIFICATIONS. IN
THE CASE OF A DISCREPANCY, REFER TO SECTION
105.05 OF THE STANDARD SPECIFICATIONS. DEPENDING
ON THE EXISTING CONDITIONS ENCOUNTERED, DITCHING
AND SHOULDERING MAY ALSO INCLUDE, BUT IS NOT
LIMITED TO:

PROVIDING ADDITIONAL EARTH MATERIAL AND GRADING, SHAPING, AND COMPACTING THE EARTH MATERIAL TO ACHIEVE THE DIMENSIONS SHOWN ON THE TYPICAL SECTIONS. COMPACT MATERIAL ACCORDING TO SECTION 206 OF THE STANDARD SPECIFICATIONS.

NOTE: ADDITIONAL EARTH MATERIAL PROVIDED SHALL BE SUITABLE FOR VEGETATION GROWTH.
-EXCAVATING AND REMOVING EXCESS MATERIAL TO ACHIEVE THE DIMENSIONS SHOWN ON THE TYPICAL

-EMBANKMENT BENCHING

- ② EMBANKMENT BENCHING WILL BE REQUIRED WHEN THE EXISTING GROUNDLINE HAS AN INCLINE GREATER THAN EXISTING GROUNDLINE HAS AN INCLINE GREATER THAN 15% (APPROX. 6:1). ANY AND ALL REQUIRED EMBANKMENT BENCHING SHALL BE INCIDENTAL TO THE BID ITEM 'DITCHING AND SHOULDERING'. THE FOLLOWING ARE GUIDELINES FOR EMBANKMENT BENCHING USED IN CONJUNCTION WITH THE BID ITEM 'DITCHING AND SHOULDERING':

  - ND SHOULDERING':

    -THE TYPICAL HEIGHT (OR RISE) IS 1'TO 6'

    -THE TYPICAL WIDTH (OR RUN) WILL VARY BASED ON THE HEIGHT OF THE BENCH

    -MULTIPLE SMALL BENCHES MAY BE USED, AND MAY BE MORE ADVANTAGEOUS AS THIS WILL REQUIRE PROCESSING LESS EARTHWORK.

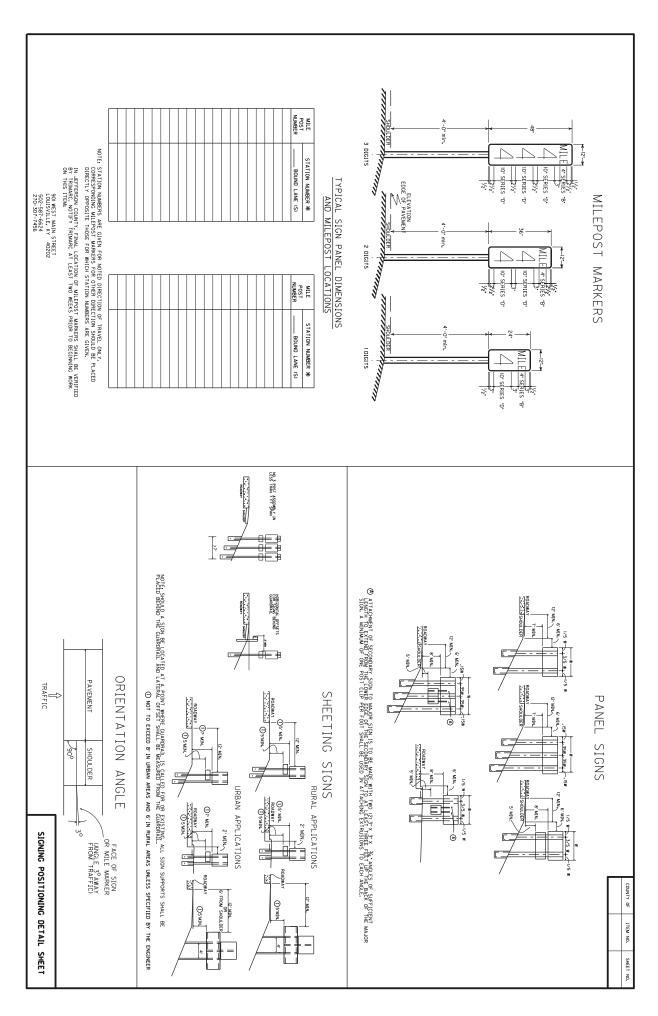
#### SEE SHEET 1 FOR NOTES 3. THRU 8.

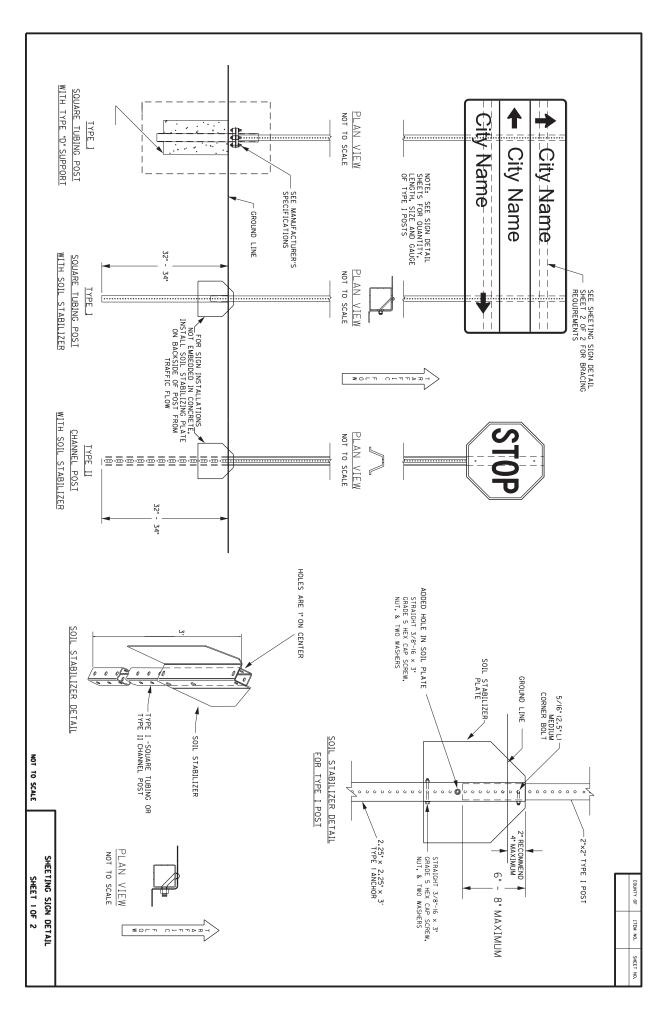
- AS SHOWN IN FIGURE 7, IN SOME SITUATIONS, ALL THAT MAY BE REQUIRED IS TO CLEAN OUT THE EXISTING DITCH AND RESHAPE IT TO THE PROPOSED DIMENIONS. THE MATERIAL EXCAVATED FROM THE DITCH MAY BE RE-USED ELSEWHERE ON THE PROJECT, PROVIDED THE ENGINEER DETERMINES THE MATERIAL REMOVED FROM THE DITCH IS SUITABLE FOR THE INTENDED RE-USE.
- AS SHOWN IN FIGURE 8, IN SOME SITUATIONS, THE DITCH AND SHOULDER MAY ONLY NEED MINOR REGRADING AND/OR RESHAPING. THE MATERIAL EXCAVATED FROM THE DITCH MAY BE USED TO RESHAPE THE EARTH SHOULDER, PROVIDED THE ENGINEER DETERMINES THE MATERIAL REMOVED FROM THE DITCH IS SUITABLE FOR SHOULDERING. IF THE MATERIAL IS NOT SUITABLE, ADDITIONAL EARTH MATERIAL MAY BE REQUIRED.
- 11. AS SHOWN IN FIGURE 9, IN MOST SITUATIONS,
  REGRADING AND RESHAPING THE ROADSIDE TO ACHIEVE
  THE PROPOSED SHOULDER, DITCH, AND/OR ROADSIDE
  DIMENSIONS WILL RESULT IN MOVING THE DITCH
  FURTHER AWAY FROM THE ROADWAY. IT IS DESIRED
  THAT DITCH FORESLOPES BE 3:1 OR FLATTER AND DITCH
  BACKSLOPES BE 2:1 OR FLATTER.
- 12. AS SHOWN IN FIGURE 10, IF INSTALLING A 2:1 DITCH BACKSLOPE WILL RESULT IN THE TOP OF CUT EXTENDING BEYOND THE RIGHT-OF-WAY OR IMPACTING A SENSITIVE OBSTRUCTION, THEN THE DITCH BACK SLOPE MAY BE INSTALLED STEEPER THAN 2:1, UP TO 1:1 MAXIMUM. IN THIS SITUATION, THE DITCH BACKSLOPE SHALL HAVE CLASS II CHANNEL LINING INSTALLED FOR SLOPE PROTECTION.
- AS SHOWN IN FIGURE 11, IF USING A 1:1 DITCH BACKSLOPE STILL RESULTS IN THE TOP OF CUT EXTENDING BEYOND THE RIGHT-OF-WAY OR STILL IMPACTS A SENSITIVE OBSTRUCTION, THEN THE IMPACTS A SENSITIVE OBSTRUCTION, THEN THE PROPOSED EARTH SHOULDER WIDTH MAY BE REDUCED SO THAT THE STEEP DITCH BACKSLOPE CAN BE INSTALLED WITHIN THE RIGHT-OF-WAY AND/OR TO AVOID A SENSITIVE OBSTRUCTION.

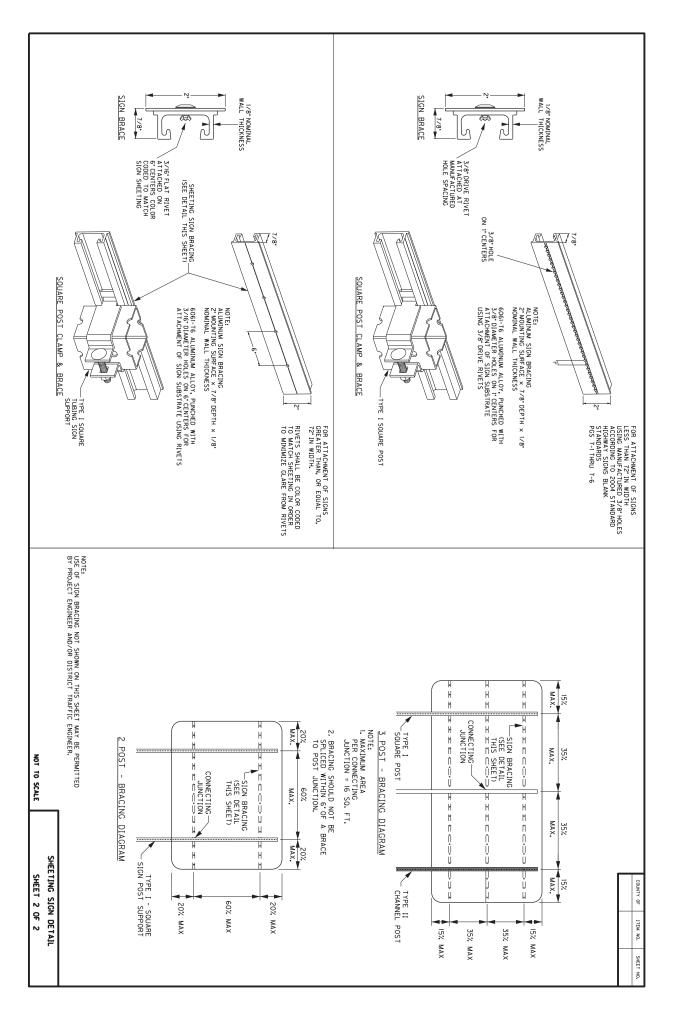
## KENTUCKY DEPARTMENT OF HIGHWAYS

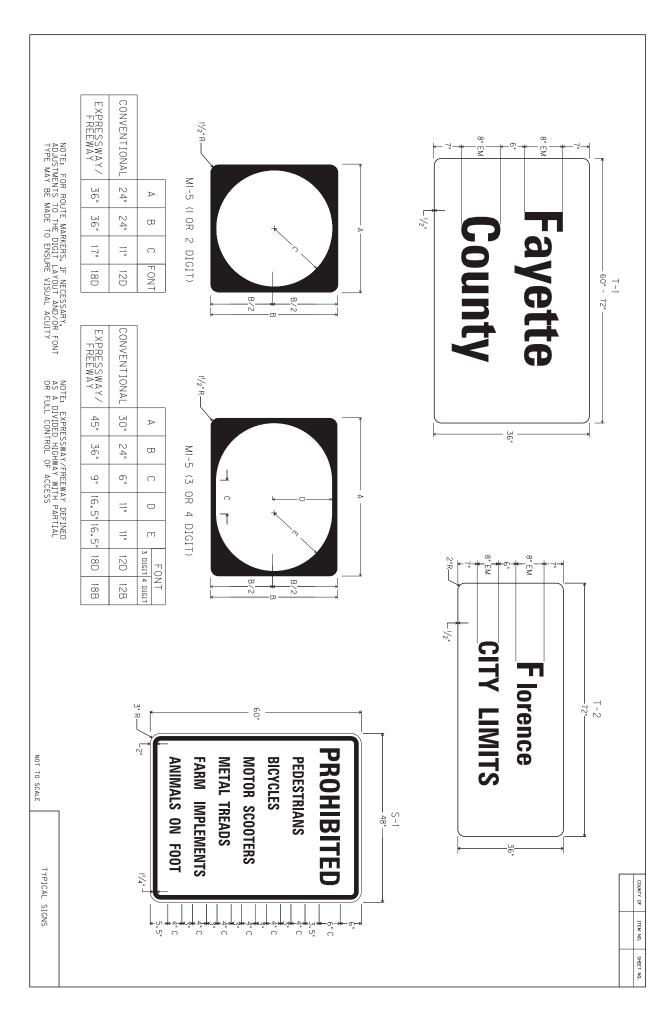
**DITCHING & SHOULDERING** AND EMBANKMENT BENCHING DETAILS (SHEET 2 OF 2)

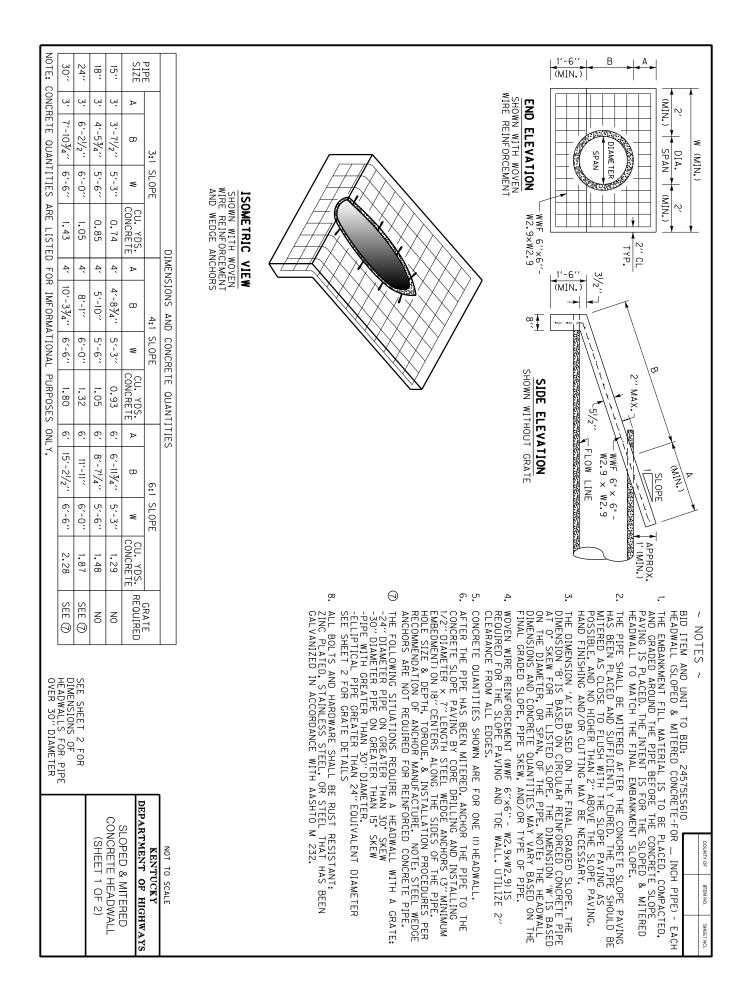
NOT TO SCALE

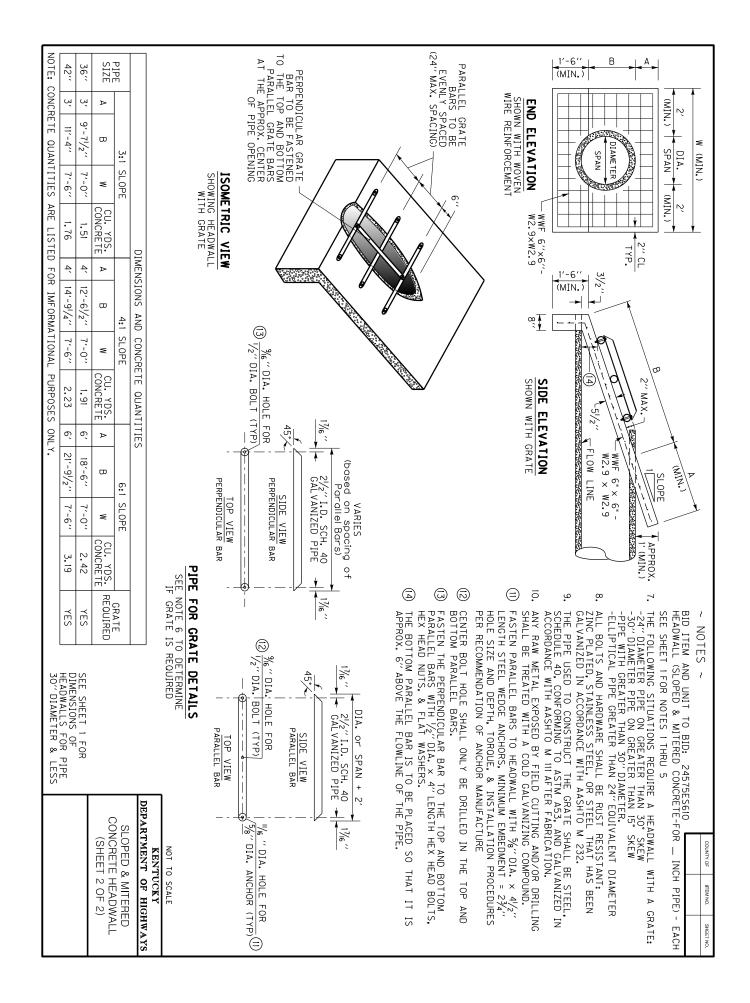




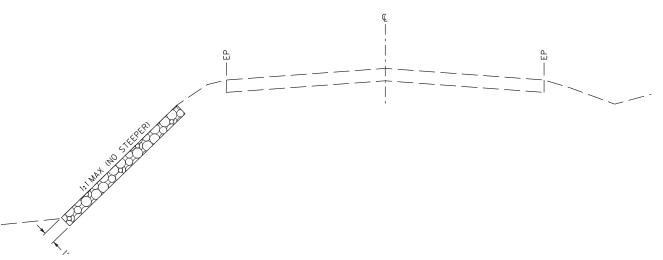




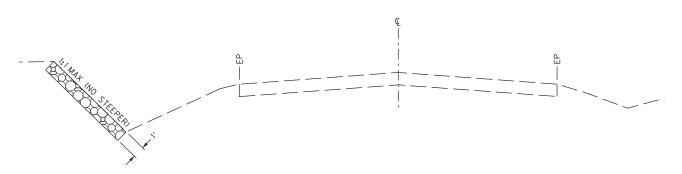




COUNTY OF ITEM NO. Page 182 of 252 SHEET NO.



#### PROTECTION DETAIL FOR EMBANKMENT FILL SLOPE



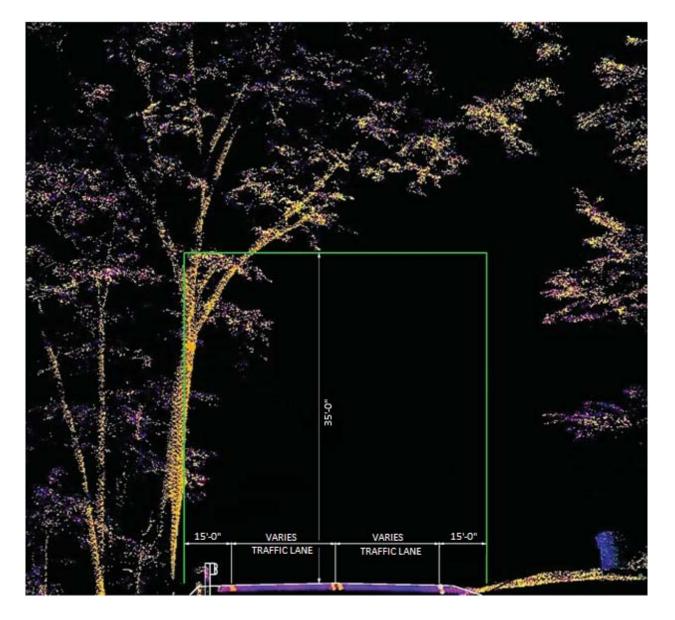
#### PROTECTION DETAIL FOR DITCH BACKSLOPE

#### NOTES:

- 1. SEE CHANNEL LINING SUMMARY FOR APPROXIMATE LOCATIONS OF SLOPE PROTECTION.
- 2. FINAL LOCATIONS TO BE DETERMINED BY THE ENGINEER.
- 3. EXCAVATION IS INCIDENTAL TO THE PLACEMENT OF THE CHANNEL LINING.

#### TREE CLEARING DETAIL

Clearing offset: 15 feet from edge of pavement, both sides, cutting with a vertical reach of 35 feet



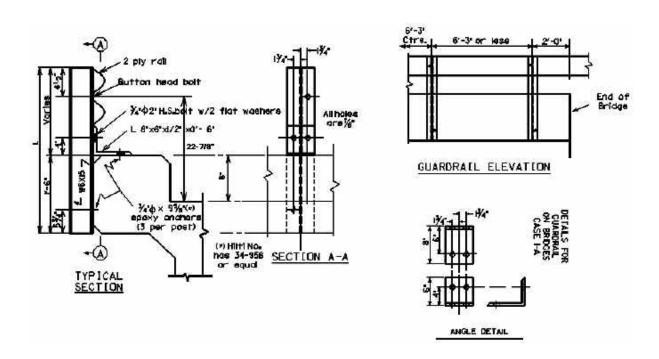
SPENCER COUNTY HSIP 5118 (043)

#### GUARDRAIL DELIVERY VERIFICATION SHEET

Contract ID: 194201 Page 184 of 252

Contract Id:		Contractor:					
Section Engineer:		_ District & County: _					
DESCRIPTION	<u>UNIT</u>	QTY LEAVING PROJECT	QTY RECEIVED@BB YARD				
GUARDRAIL (Includes End treatments & crash cushions)	LF						
STEEL POSTS	EACH						
STEEL BLOCKS	EACH						
WOOD OFFSET BLOCKS	EACH	<del></del>					
BACK UP PLATES	EACH	<del></del>					
CRASH CUSHION	EACH	<del></del>					
NUTS, BOLTS, WASHERS	BAG/BCKT	<del></del>					
DAMAGED RAIL TO MAINT. FACILI	TY LF	<del></del>					
DAMAGED POSTS TO MAINT. FACI	LITY EACH	<del></del>					
* <u>Required Signatures before</u>	e Leaving Proje	ect Site					
Printed Section Engineer's Ro			_& Date				
Signature Section Engineer's	Representativ	re	_& Date				
Printed Contractor's Represe	entative		_& Date				
Signature Contractor's Repre	esentative		_& Date				
*Required Signatures after	<u>Arrival at Baile</u>	ey Bridge Yard (All material	on truck must be counted & the				
<u>quantity received column co</u>							
Printed Bailey Bridge Yard Re	epresentative_		& Date				
Signature Bailey Bridge Yard	Representativ	e	_& Date				
Printed Contractor's Represe	entative		& Date				
Signature Contractor's Repre	esentative		_& Date				
	ent will not be	made for guardrail removal	uantities shown in the Bailey Bridge until the guardrail verification sheets ge Yard Representative.				
Completed Form Submitted to	Section Enginee	er Date:	By:				

#### GUARDRAIL ON BRIDGE, CASE I-A CURB HEIGHT GREATER THAN 2 INCHES



				On the Bridge
Bridge MP	L=	D=	No. Posts	LF of 2 PLY Rail
3.53 LT	36"	6.5"	21	125
3.53 RT	36"	7.5"	21	125
5.73 LT	37"	8.0"	27	162.5
5.73 RT	37"	8.0"	27	162.5

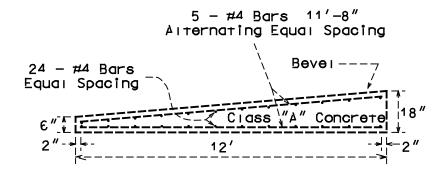
L = Length of Guardrail Post D = Curb Height W = Width of Bridge Curb

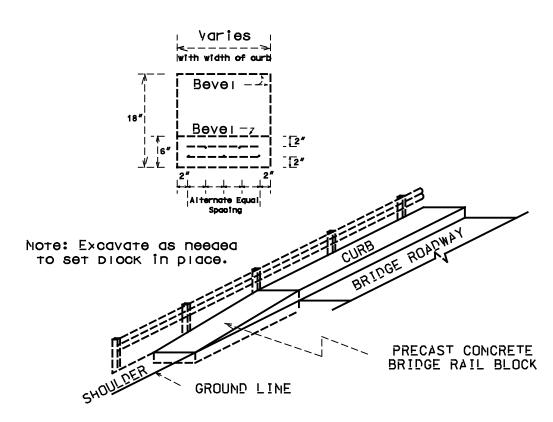
**WARRANTS:** When the dimension from the top of the existing riding surface to the top of the curb is greater than 2 inches and where the clear distance between the faces of the guardrail is less than 20 feet or the curb width is less than 18 inches, remove existing concrete and/or guardrail bridge rail and use Case I-A Bridge Guardrail.

**NOTES:** top of

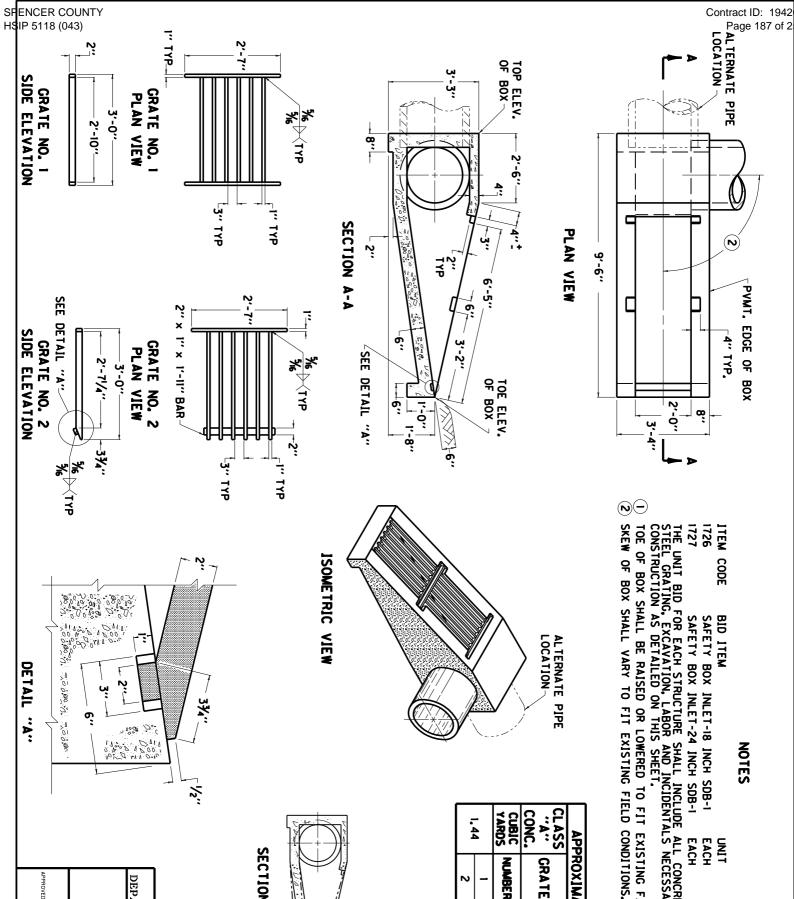
- 1. When using Case I-A Bridge Guardrail, do not pave the bridge surface flush to the the curb.
- 2. When Case I-A Bridge Guardrail is used, use a Precast Concrete Bridge Block at the ends of the bridge which face opposing traffic. See detail drawing for Precast Concrete Bridge Block.

### PRECAST CONCRETE BRIDGE RAIL BLOCK





NOTE: ALL EYPOSED EDGES SHALL BE BEVELED 3/4"





COUNTY OF

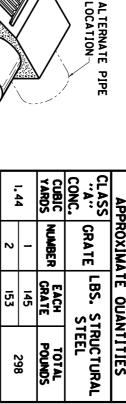
ITEM NO.

SHEET NO.

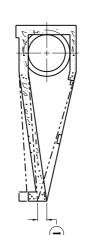
SAFETY BOX INLET-18 INCH SDB-1 BID ITEM **EACH** NI.

THE UNIT BID FOR EACH STRUCTURE SHALL INCLUDE ALL CONCRETE, STRUCTURAL STEEL GRATING, EXCAVATION, LABOR AND INCIDENTALS NECESSARY FOR ITS CONSTRUCTION AS DETAILED ON THIS SHEET. SAFETY BOX INLET-24 INCH SDB-I **EACH** 

TOE OF BOX SHALL BE RAISED OR LOWERED TO FIT EXISTING FIELD CONDITIONS.



LOCATION





3¾."

/2::

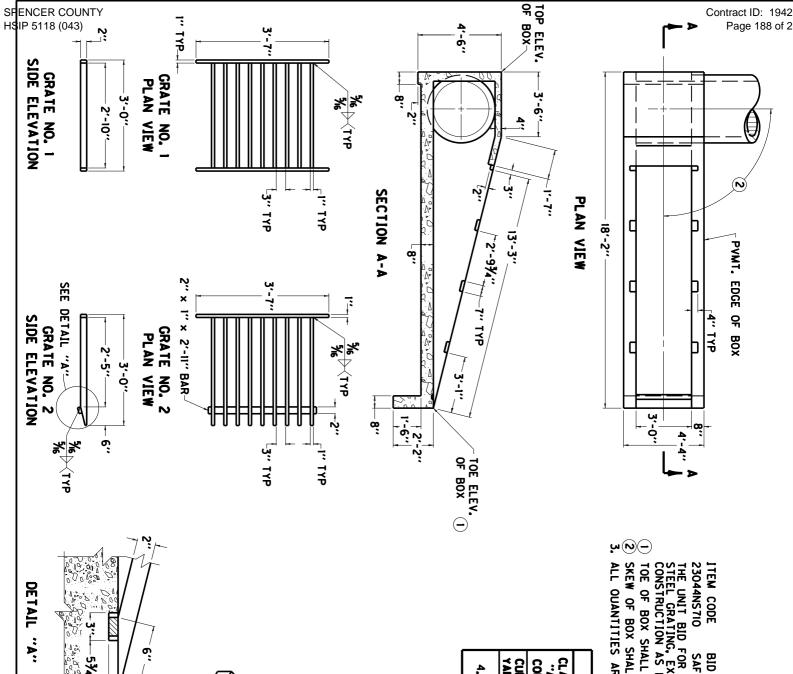
DEPARTMENT OF HIGHWAYS SAFETY TYPE BOX INLET KENTUCKY



(18" OR 24")

DETAIL "A"

100000 10 100000





COUNTY OF

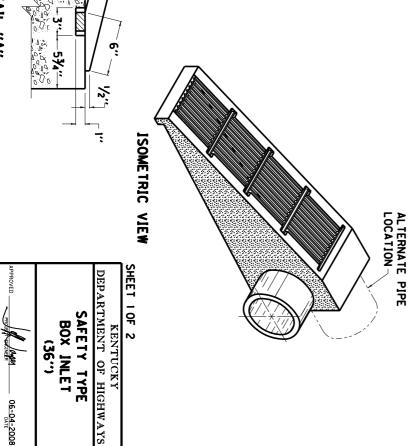
ITEM NO.

SHEET NO.

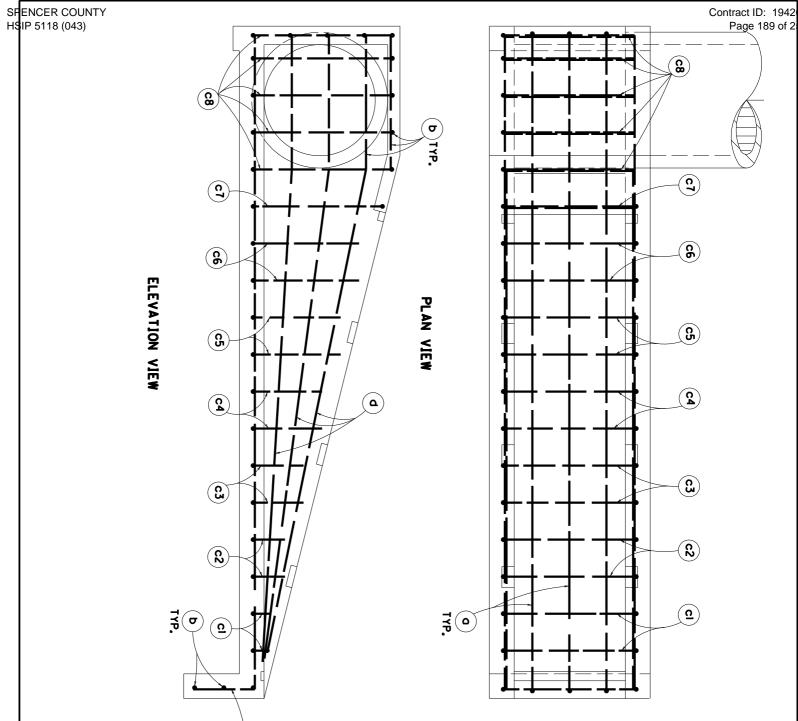
THE UNIT BID FOR EACH STRUCTURE SHALL INCLUDE ALL CONCRETE, STRUCTURAL STEEL GRATING, EXCAVATION, LABOR AND INCIDENTALS NECESSARY FOR ITS CONSTRUCTION AS DETAILED ON THIS SHEET. BID ITEM SAFETY BOX INLET-36 INCH SDB-1 EACH LIND

- TOE OF BOX SHALL BE RAISED OR LOWERED TO FIT EXISTING FIELD CONDITIONS.
- SKEW OF BOX SHALL VARY TO FIT EXISTING FIELD CONDITIONS.
- ALL QUANTITIES ARE FOR ONE HEADWALL.





06-04-2008





COUNTY OF

ITEM NO.

SHEET NO.

- NUMBER OF BARS IN ONE HEADWALL.

  2. DIMENSIONS ARE O. TO O. OF BARS.

  3. ALL BARS ARE STRAIGHT EXCEPT THOSE SHOWN BELOW.

# BENT BAR SHAPES



BARS ©

K=1'-8"

BARS (a)

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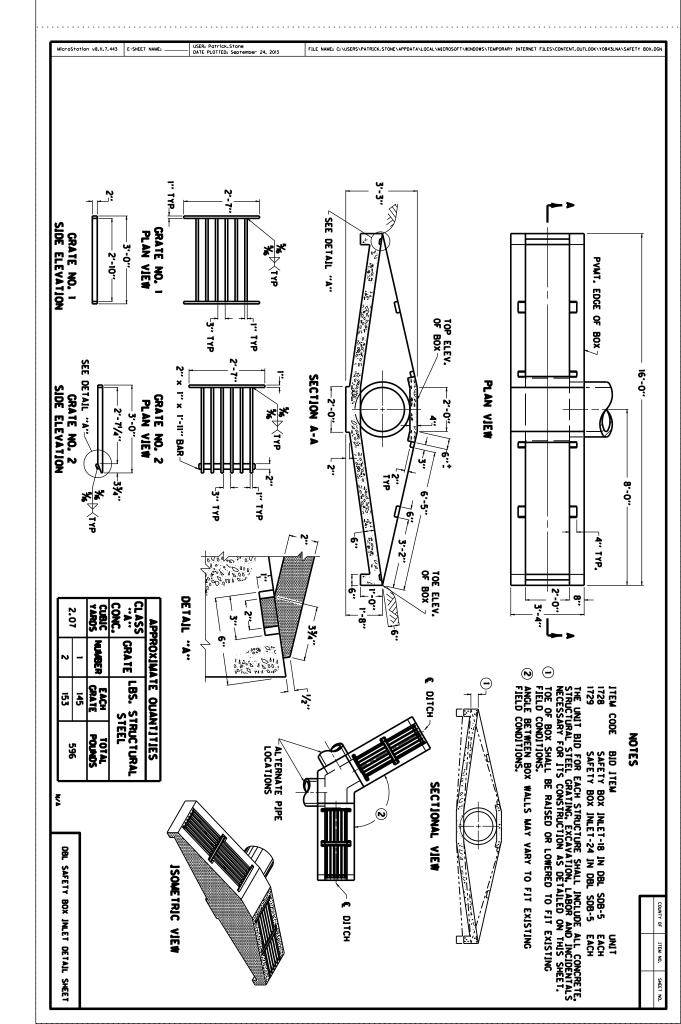
# SHEET 2 OF 2

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KENTUCKY
DEPARTMENT OF HIGHWAYS

BILL OF REINFORCEMENT SAFETY TYPE BOX INLET (36")

06-04-2008



# PART II SPECIFICATIONS AND STANDARD DRAWINGS

#### **SPECIFICATIONS REFERENCE**

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

#### SUPPLEMENTAL SPECIFICATIONS

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

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

#### SPECIAL NOTE FOR ROCK BLASTING

This Special Note will apply when indicated on the plans or in the proposal. Section references herein are to the Department's 2012 Standard Specifications for Road and Bridge Construction.

- **1.0 DESCRIPTION.** This work consists of fracturing rock and constructing stable final rock cut faces using presplit blasting and production blasting techniques.
- **2.0 MATERIALS.** Deliver, store, and use explosives according to the manufacturer's recommendations and applicable laws. Do not use explosives outside their recommended use date. Verify date of manufacture and provide copies of the technical data sheets (TDS) and material safety data sheets (MSDS) to the Engineer. Explosives and initiating devices include, but are not necessarily limited to, dynamite and other high explosives, slurries, water gels, emulsions, blasting agents, initiating explosives, detonators, blasting caps, and detonating cord.
- **3.0 CONSTRUCTION.** Furnish copies or other proof of all-applicable permits and licenses. Comply with Federal, State, and local regulations on the purchase, transportation, storage, and use of explosive material. Regulations include but are not limited to the following:
  - 1) KRS 351.310 through 351.9901.
  - 2) 805 KAR 4:005 through 4:165
  - 3) Applicable rules and regulations issued by the Office of Mine Safety and Licensing.
  - 4) Safety and health. OSHA, 29 CFR Part 1926, Subpart U.
  - 5) Storage, security, and accountability. Bureau of Alcohol, Tobacco, and Firearms (BATF), 27 CFR Part 181.
  - 6) Shipment. DOT, 49 CFR Parts 171-179, 390-397.
- **3.1 Blaster-in-Charge.** Designate in writing a blaster-in-charge and any proposed alternates for the position. Submit documentation showing the blaster-in-charge, and alternates, have a valid Kentucky blaster's license. Ensure the blaster-in-charge or approved alternate is present at all times during blasting operations.
- 3.2 **Blasting Plans.** Blasting plans and reports are for quality control and record keeping purposes. Blasting reports are to be signed by the blaster-in-charge or the alternate blaster-in-charge. The general review and acceptance of blasting plans does not relieve the Contractor of the responsibility whatsoever for conformance to regulations or for obtaining the required results. All blasting plans shall be submitted to the Engineer. The Engineer will be responsible for submitting the plan to the Central Office Division of Construction and the Division of Mine Reclamation and Enforcement, Explosives and Blasting Branch at the following address: 2 Hudson Hollow, Frankfort, Kentucky, 40601.
  - **A) General Blasting Plan.** Submit a general blasting plan for acceptance at least 15 working days before drilling operations begin. Include, as a minimum, the following safety and procedural details:

- 1) Working procedures and safety precautions for storing, transporting, handling, detonating explosives. Include direction on pre and post blast audible procedures, methods of addressing misfires, and methods of addressing inclement weather, including lightning.
- 2) Proposed product selection for both dry and wet holes. Furnish Manufacturer's TDS and MSDS for all explosives, primers, initiators, and other blasting devices.
- 3) Proposed initiation and delay methods.
- 4) Proposed format for providing all the required information for the site specific blasting shot reports.
- B) Preblast Meeting. Prior to drilling operations, conduct a preblast meeting to discuss safety and traffic control issues and any site specific conditions that will need to be addressed. Ensure, at a minimum, that the Engineer or lead inspector, Superintendent, blaster-in-charge, and all personnel involved in the blasting operation are present. Site specific conditions include blast techniques; communication procedures; contingency plans and equipment for dealing with errant blast material. The conditions of the General Blasting plan will be discussed at this meeting. Record all revisions and additions made to the blasting plan and obtain written concurrence by the blaster-in-charge. Provide a copy of the signed blast plan to the Engineer along with the sign in sheet from the preblast meeting.
- **3.3 Preblast Condition Survey and Vibration Monitoring and Control.** Before blasting, arrange for a preblast condition survey of nearby buildings, structures, or utilities, within 500 feet of the blast or that could be at risk from blasting damage. Provide the Engineer a listing of all properties surveyed and any owners denying entry or failing to respond. Notify the Engineer and occupants of buildings at risk at least 24 hours before blasting.

Limit ground vibrations and airblast to levels that will not exceed limits of 805 KAR 4:005 through 4:165. More restrictive levels may be specified in the Contract.

Size all blast designs based on vibration, distance to nearest building or utility, blast site geometry, atmospheric conditions and other factors. Ground vibrations are to be controlled according to the blasting standards and scaled distance formulas in 805 KAR 4:020 or by the use of seismographs as allowed in 805 KAR 4:030. The Department will require seismographs at the nearest allowable location to the protected site when blasting occurs within 500 feet of buildings, structures, or utilities.

**3.4 Blasting.** Drill and blast at the designated slope lines according to the blasting plan. Perform presplitting to obtain smooth faces in the rock and shale formations. Perform the presplitting before blasting and excavating the interior portion of the specified cross section at any location. The Department may allow blasting for fall benches and haul roads prior to presplitting when blasting is a sufficient distance from the final slope and results are satisfactory to the Engineer. Use the types of explosives and blasting accessories necessary to obtain the required results.

Free blast holes of obstructions for their entire depth. Place charges without caving the blast hole walls. Stem the upper portion of all blast holes with dry sand or other granular material passing the 3/8-inch sieve. Dry drill cuttings are acceptable for stemming when blasts are more than 800 feet from the nearest dwelling.

Stop traffic during blasting operations when blasting near any road and ensure traffic does not pass through the Danger Zone. The blaster-in-charge will define the Danger Zone prior to each blast. Ensure traffic is stopped outside the Danger Zone, and in no case within 800 feet of the blast location.

Following a blast, stop work in the entire blast area, and check for misfires before allowing worker to return to excavate the rock.

Remove or stabilize all cut face rock that is loose, hanging, or potentially dangerous. Leave minor irregularities or surface variations in place if they do not create a hazard. Drill the next lift only after the cleanup work and stabilization work is complete.

When blasting operations cause fracturing of the final rock face, repair or stabilize it in an approved manner at no cost to the Department.

Halt blasting operations in areas where any of the following occur:

- 1) Slopes are unstable;
- 2) Slopes exceed tolerances or overhangs are created;
- 3) Backslope damage occurs;
- 4) Safety of the public is jeopardized;
- 5) Property or natural features are endangered;
- 6) Fly rock is generated; or
- 7) Excessive ground or airblast vibrations occur in an area where damage to buildings, structures, or utilities is possible.
- 8) The Engineer determines that materials have become unsuitable for blasting

Blasting operations may continue at a reasonable distance from the problem area or in areas where the problems do not exist. Make the necessary modifications to the blasting operations and perform a test blast to demonstrate resolution of the problem.

- **A) Drill Logs.** Maintain a layout drawing designating hole numbers with corresponding drill logs and provide a copy of this information to the blaster prior to loading the hole. Ensure the individual hole logs completed by the driller(s) show their name; date drilled; total depth drilled; and depths and descriptions of significant conditions encountered during drilling that may affect loading such as water, voids, changes in rock type.
- **B) Presplitting.** Conduct presplitting operations in conformance with Subsection 204.03.04 of the Standard Specifications for Road and Bridge Construction.
- **3.5 Shot Report.** Maintain all shot reports on site for review by the Department. Within one day after a blast, complete a shot report according to the record keeping requirements of 805 KAR 4:050. Include all results from airblast and seismograph monitoring.
- **3.6 Unacceptable Blasting.** When unacceptable blasting occurs, the Department will halt all blasting operations. Blasting will not resume until the Department completes its investigation and all concerns are addressed. A blast is unacceptable when it results in fragmentation beyond the final rock face, fly rock, excessive vibration or airblast, overbreak, damage to the final rock face or overhang. Assume the cost for all resulting damages to private and public property and hold the Department harmless.

When an errant blast or fly rock causes damage to or blocks a road or conveyance adjacent to the roadway, remove all debris from the roadway as quickly as practicable and perform any necessary repairs. Additionally, when specified in the Contract, the Department will apply a penalty.

Report all blasting accidents to the Division of Mine Reclamation and Enforcement, Explosives and Blasting Branch at 502-564-2340.

**4.0 MEASUREMENT AND PAYMENT.** The Department will not measure this work for payment and will consider all items contained in this note to be incidental to either Roadway Excavation or Embankment-in-Place, as applicable. However, if the Engineer directs in writing slope changes, then the Department will pay for the second presplitting operation as Extra Work.

The Department will measure for payment material lying outside the typical section due to seams, broken formations, or earth pockets, including any earth overburden removed with this material, only when the work is performed under authorized adjustments.

The Department will not measure for payment any extra material excavated because of the drill holes being offset outside the designated slope lines.

The Department will not measure for payment any material necessary to be removed due to the inefficient or faulty blasting practices.

June 15, 2012

#### SPECIAL NOTE FOR BARCODE LABEL ON PERMANENT SIGNS

- **1.0 DESCRIPTION.** Install barcode label on sheeting signs. Section references herein are to the Department's 2012 Standard Specifications for Road and Bridge Construction.
- **2.0 MATERIALS.** The Department will provide the Contractor with a 2 inch x 1 inch foil barcode label for each permanent sheeting sign. A unique number will be assigned to each barcode label.

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

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

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

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

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

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

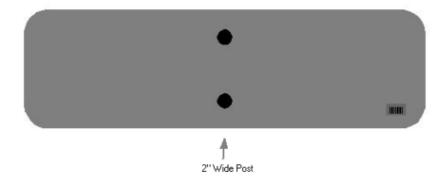
The installation of the permanent sign will be measured in accordance to Section 715.

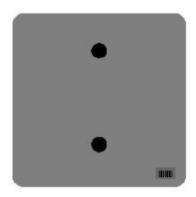
**5.0 PAYMENT.** The Department will make payment for the completed and accepted quantities under the following:

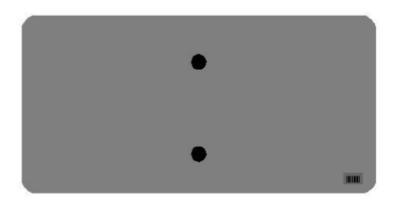
CodePay ItemPay Unit24631ECBarcode Sign InventoryEach

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

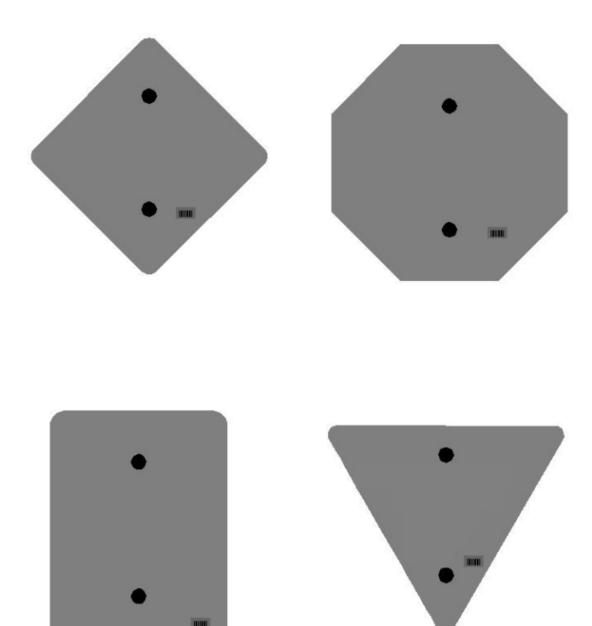
#### One Sign Post



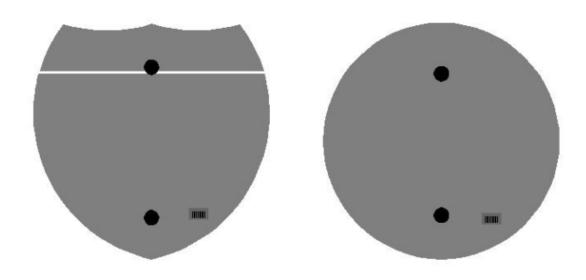


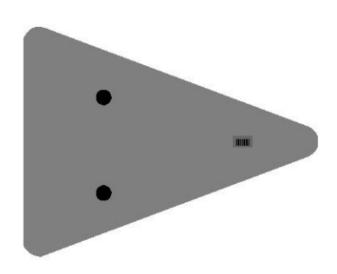


One Sign Post

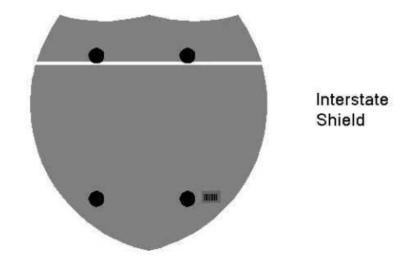


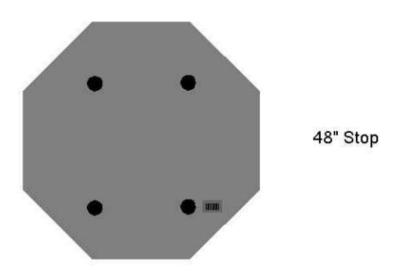
One Sign Post





#### Double Sign Post

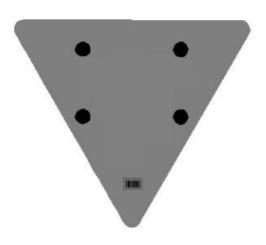




#### 2 Post Signs







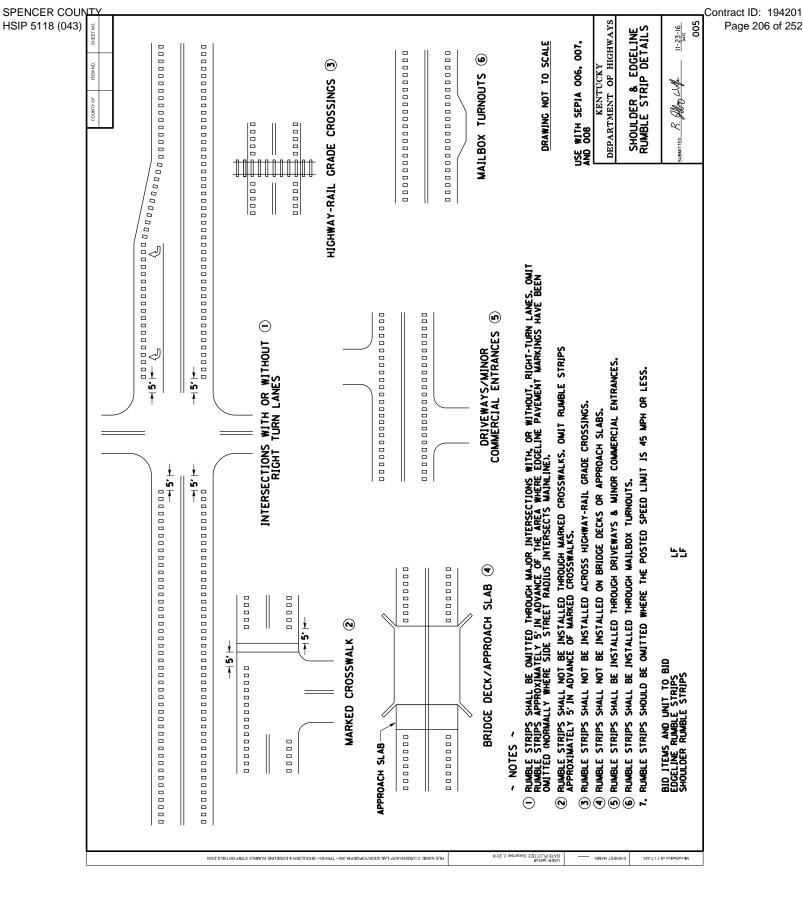
#### 2016 STANDARD DRAWINGS THAT APPLY

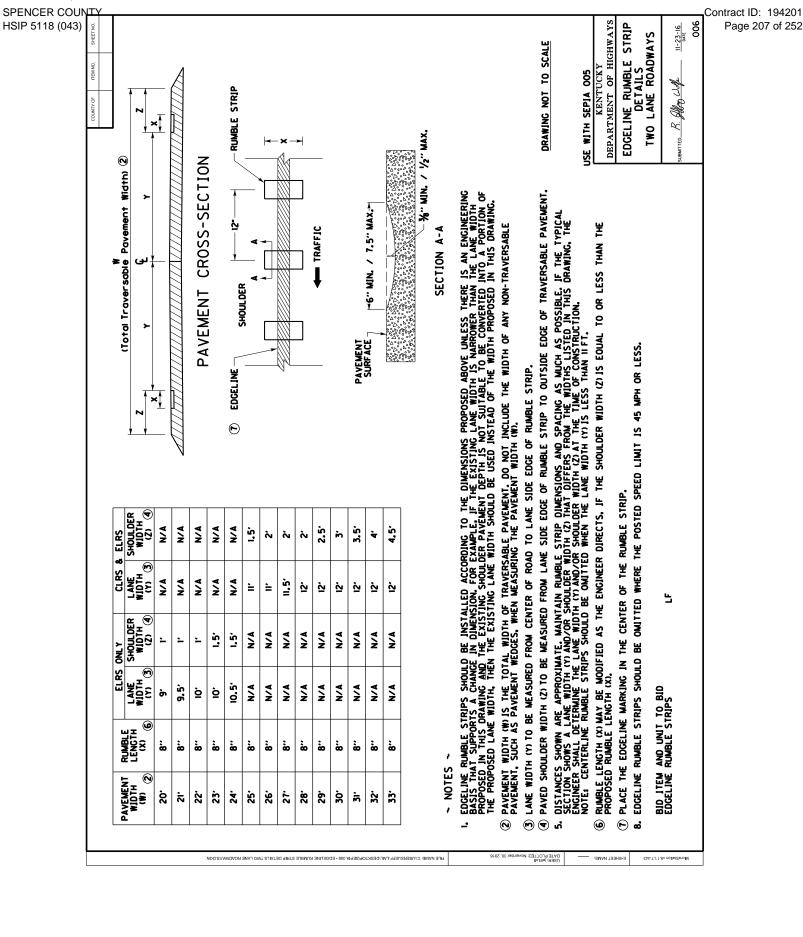
ROADWAY				
~ BARRIERS ~				
TYPICAL BARRIER INSTALLATIONS				
TYPICAL GUARDRAIL INSTALLATIONS	RBI-002-07			
GUARDRAIL HARDWARE				
GUARDRAIL COMPONENTS.	RBR-005-11			
GUARDRAIL TERMINAL SECTIONS				
GUARDRAIL END TREATMENT TYPE 3				
GUARDRAIL END TREATMENT TYPE 3 PIPE DRAINAGE DETAIL				
GUARDRAIL END TREATMENT TYPE 3 ALTERNATE ANCHOR	RBR-032			
~ DRAINAGE ~				
BOX INLETS AND OUTLETS				
DROP BOXES	DDD 001 12			
DROP BOX INLET TYPE 1	KDB-001-12			
PAVED DITCHES, FLUME INLETS AND CHANNEL LININGS				
CHANNEL LINING CLASS II AND III	DDD 040 05			
CHANNEL LINING CLASS II AND III	KDD-040-03			
TYPICAL DRAINAGE INSTALLATIONS				
CULVERT, ENTRANCE & STORM SEWER PIPE TYPES & COVER HEIGHTS (12" – 24" PIPE)	RDI-001-10			
PIPE BEDDING FOR CULVERTS, ENTRANCE, AND STORM SEWER PIPE				
PIPE BEDDING FOR CULVERTS, ENTRANCE, AND STORM SEWER, REINFORCED CONC. PIPE				
PIPE BEDDING, TRENCH CONDITION	RDI-025-05			
PIPE BEDDING, TRENCH CONDITION, REINFORCED CONC. PIPE	RDI-026-01			
EROSION CONTROL BLANKET SLOPE INSTALLATION				
EROSION CONTROL BLANKET CHANNEL INSTALLATION	RDI-041-01			
MISCELLANEOUS DRAINAGE				
TEMPORARY SILT FENCE	DDV 210 02			
TEMPORARY SILT FENCE WITH WOVEN WIRE FENCE FABRIC				
SILT TRAP - TYPE A				
SILT TRAP - TYPE B				
SILT TRAP - TYPE C				
~ GENERAL ~				
<b>CURVE WIDENING AND SUPERELEVATION</b>				
CURVE WIDENING AND SUPERELEVATION TRANSITIONS	RGS-001-07			
MISCELLANEOUS STANDARDS				
MISCELLANEOUS STANDARDS PART 1				
TYPE D BREAKAWAY SIGN SUPPORT	RGX-065-02			
D ALVERAGENTE				
~ PAVEMENT ~				
MEDIANS, CURBS, APPROACHES, ENTRANCES, ETC.	DD1 ( 100 10			
CURB AND GUTTER, CURBS AND VALLEY GUTTERAPPROACHES, ENTRANCES, AND MAIL BOX TURNOUT				
AFFRUACIES, ENTRANCES, AND MAIL DUA TURNUUT	KPIVI-11U-U/			

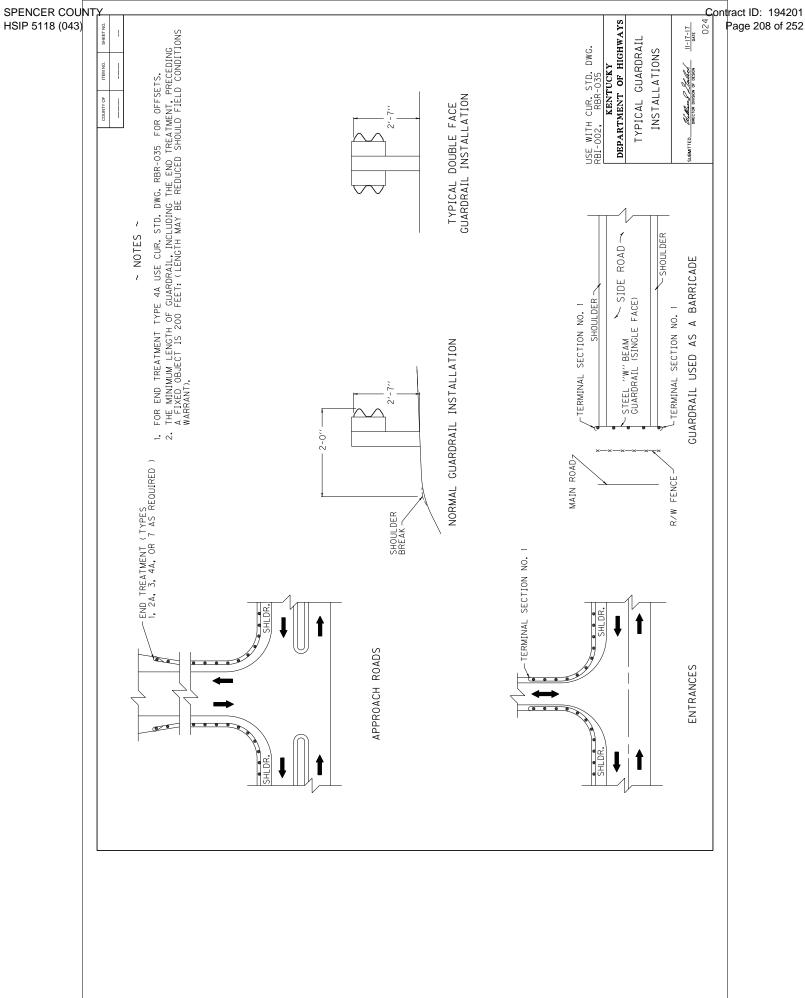
Standard Drawings That Apply Page 2 of 2

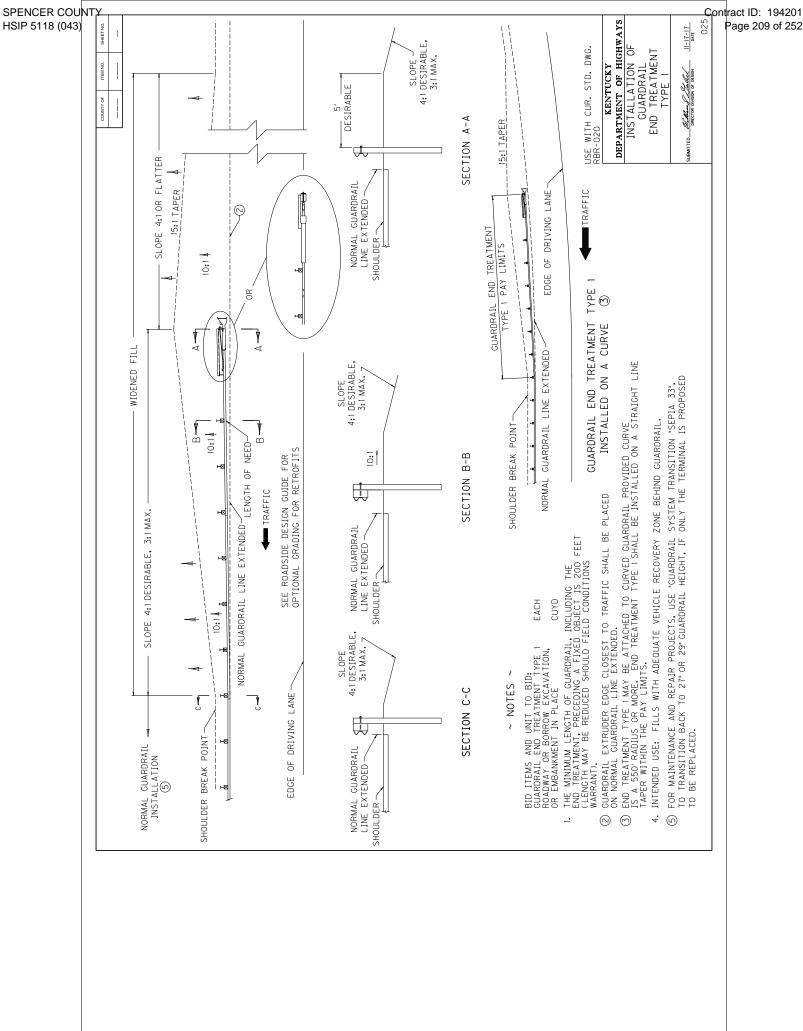
## TRAFFIC ~ TEMPORARY ~

TRAFFIC CONTROL	
LANE CLOSURE TWO-LANE HIGHWAY SHOULDER CLOSURE	
DEVICES	
PAVEMENT CONDITION WARNING SIGNS	TTD-125-02
STRIPING OPERATIONS	
MOBILE OPERATION FOR PAINT STRIPING CASE I	TTS-100-02
MOBILE OPERATION FOR PAINT STRIPING CASE II	TTS-105-02









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121/2" LAP ---81/2" 4" 41/2"

OFFSET

GUARDRAIL POST ت **ا** 

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RAIL SPLICE

6'-3" C-C POST SPACING

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DOUBLE FACE RAIL WITH ROUND TIMBER POST

DOUBLE FACE RAIL WITH STEEL POST (W6×9) (TIMBER OR APPROVED COMPOSITE OFFSET BLOCK

SECTION A-A

SECTION A-A

OFFSET BLOCK TYPE 3

OFFSET BLOCK TYPE 4

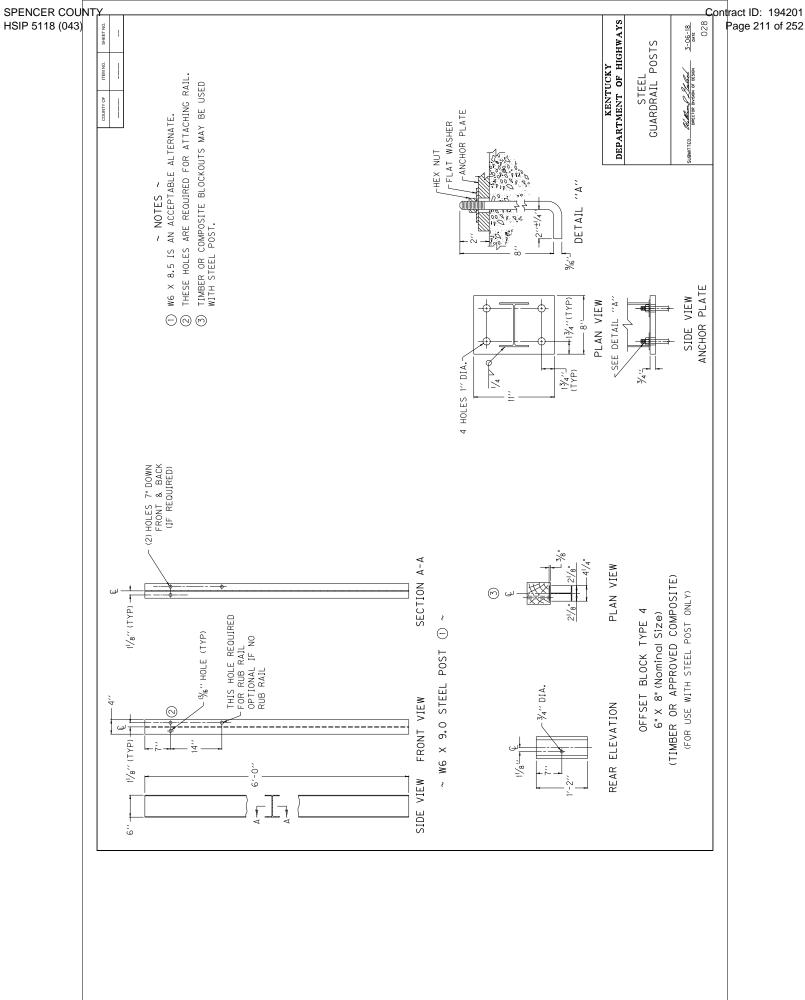
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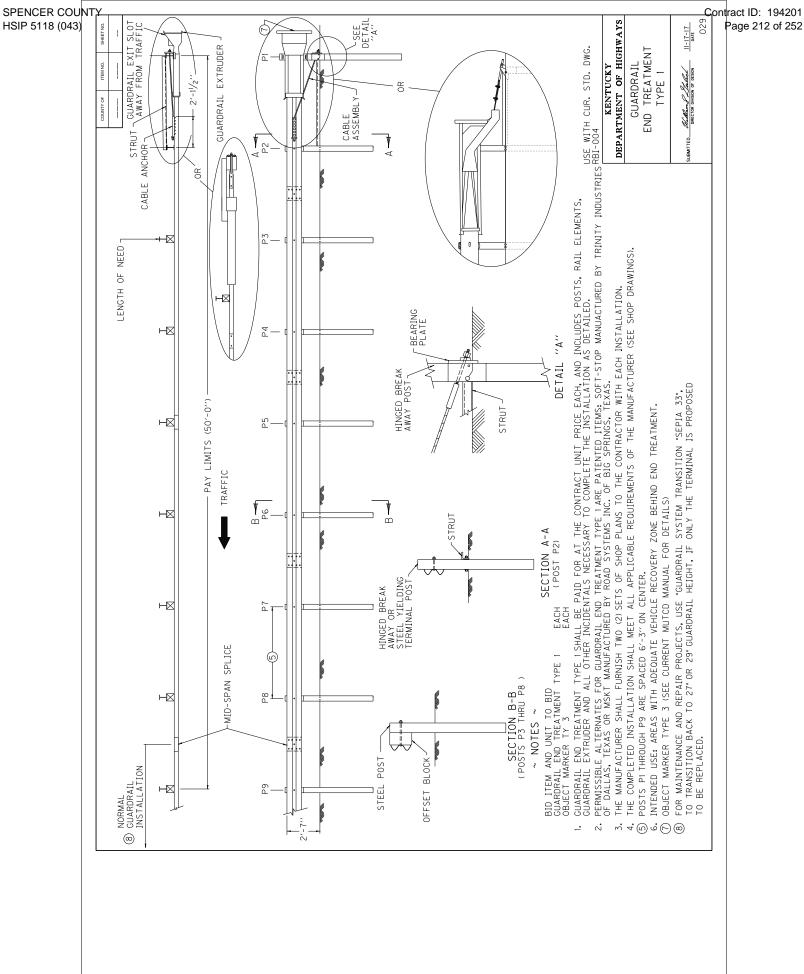
RAIL SPLICE

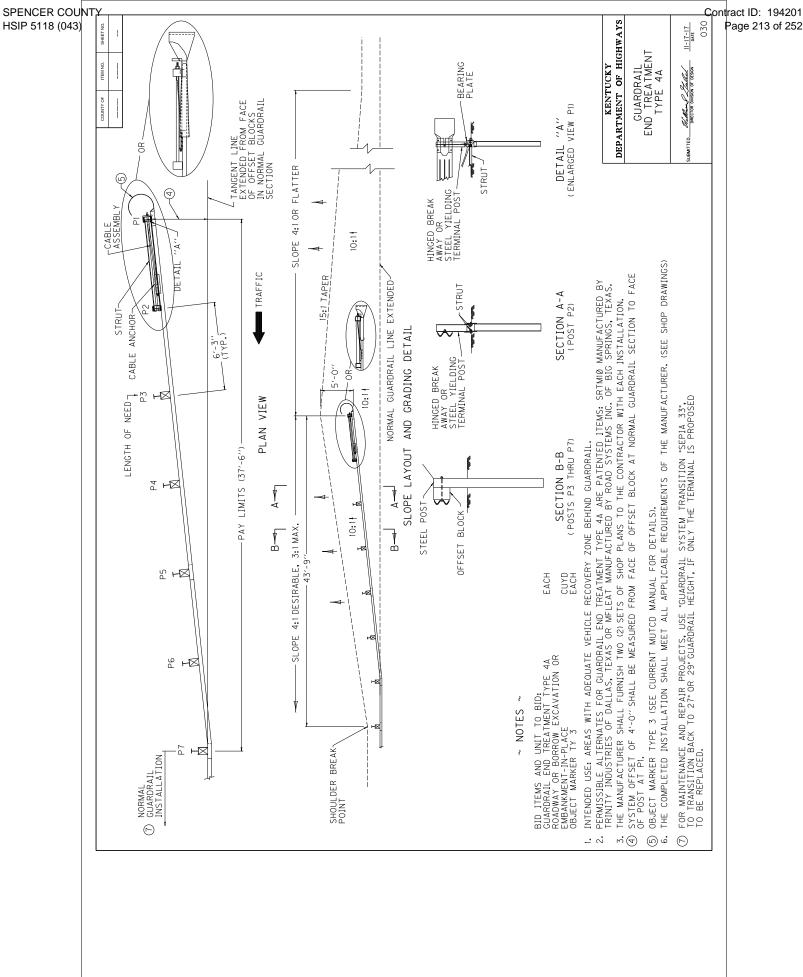
SECTION B-B

34"x 21/2" POST BOLT SLOT 6'-3" 0.

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#### **PART III**

#### EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

FHWA-1273 -- Revised May 1, 2012

# REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS

- I. General
- II. Nondiscrimination
- III. Nonsegregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- 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
- Compliance with Governmentwide Suspension and Debarment Requirements
- 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 designbuild 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 nonminority 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 <a href="Form FHWA-1391">Form FHWA-1391</a>. 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 federallyassisted 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:
- 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

T h i s p r o v i s i o n i s 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 (<a href="https://www.epls.gov/">https://www.epls.gov/</a>), 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:
- 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 (<a href="https://www.epls.gov/">https://www.epls.gov/</a>), 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 administrating 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:

- 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 01/04/2019 KY38

Superseded General Decision Number: KY20180100

State: Kentucky

Construction Type: Highway

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

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

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

Modification Number Publication Date 0 01/04/2019

BRIN0004-003 06/01/2017

BRECKENRIDGE COUNTY

Rates Fringes

BRICKLAYER		26.80	12.38
BRKY0001-005	06/01/2017		

BRKY0001-005 06/01/201/

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:

	Kates	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  Diver  PILEDRIVERMAN	\$ 41.63	16.06 16.06 16.06	

ELEC0212-008 06/04/2018

BRACKEN, GALLATIN and GRANT COUNTIES

	Rates	Fringes
ELECTRICIAN	.\$ 28.39	18.98
DI DOCCOLO 014 11/07/0017		

ELEC0212-014 11/27/2017

BRACKEN, GALLATIN & GRANT COUNTIES:

	Rates	Fringes
Sound & Communication Technician	\$ 23.55	11.26
ELEC0317-012 06/01/2018		
BOYD, CARTER, ELLIOT & ROWAN CO	OUNTIES:	
	Rates	Fringes
ELECTRICIAN (Wiremen) Cable Splicer Electrician		18.13 20.03
ELEC0369-007 05/30/2018		
ANDERSON, BATH, BOURBON, BOYLE, CLARK, FAYETTE, FRAONKLIN, GRAY JEFFERSON, JESSAMINE, LARUE, MAMONTGOMERY, NELSON, NICHOLAS, CSHELBY, SPENCER, TRIMBLE, WASHI	SON, HARDIN, ADISON, MARION OLDHAM, OWEN,	HARRISON, HENRY, I, MEADE, MERCER, ROBERTSON, SCOTT,
	Rates	Fringes
ELECTRICIAN	\$ 31.66	17.01
ELEC0575-002 05/28/2018		
FLEMING, GREENUP, LEWIS & MASON	COUNTIES:	
	Rates	Fringes
ELECTRICIAN	\$ 32.45	16.43
ENGI0181-018 07/01/2017		
	Rates	Fringes
POWER EQUIPMENT OPERATOR  GROUP 1		15.15 15.15

#### OPERATING ENGINEER CLASSIFICATIONS

GROUP 3.....\$ 29.54

GROUP 4.....\$ 28.77

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

15.15

15.15

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 Conrete 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%

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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, Pecksridge, Plummers Landing, Plummers Mill, Poplar Plains, Ringos Mills, Tilton & Wallingford); MASON (Eastern third, including Townships of Helena, Marshall, Orangeburg, Plumville & Springdale); NICHOLAS (Eastern eighth, including the Township of Moorefield Sprout)

	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.

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#### 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

	F	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; Bushammer; Chain Saw Operator; Concrete
Saw Operator; Deckhand Scow Man; Dry Cement Handler;
Environmental - Nuclear, Radiation, Toxic & Hazardous Waste
- Level C; Forklift Operator for Masonary; Form Setter;
Green Concrete Cutting; Hand Operated Grouter & Grinder
Machine Operator; Jackhammer; Pavement Breaker; Paving
Joint Machine; Pipelayer; Plastic Pipe Fusion; Power Driven
Georgia Buggy & Wheel Barrow; Power Post Hole Digger;
Precast Manhole Setter; Walk-Behind Tamper; Walk-Behind
Trencher; Sand Blaster; Concrete Chipper; Surface Grinder;

Vibrator Operator; Wagon Driller

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

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

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LABO0189-008 07/01/2018

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

	I	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; Bushammer; Chain Saw Operator; Concrete
Saw Operator; Deckhand Scow Man; Dry Cement Handler;
Environmental - Nuclear, Radiation, Toxic & Hazardous Waste
- Level C; Forklift Operator for Masonary; Form Setter;
Green Concrete Cutting; Hand Operated Grouter & Grinder
Machine Operator; Jackhammer; Pavement Breaker; Paving
Joint Machine; Pipelayer; Plastic Pipe Fusion; Power Driven
Georgia Buggy & Wheel Barrow; Power Post Hole Digger;
Precast Manhole Setter; Walk-Behind Tamper; Walk-Behind
Trencher; Sand Blaster; Concrete Chipper; Surface Grinder;
Vibrator Operator; Wagon Driller

GROUP 3 - Asphalt Luteman & Raker; Gunnite Nozzleman; Gunnite Operator & Mixer; Grout Pump Operator; Side Rail

Setter; Rail Paved Ditches; Screw Operator; Tunnel (Free Air); Water Blaster

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

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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; Bushammer; Chain Saw Operator; Concrete
Saw Operator; Deckhand Scow Man; Dry Cement Handler;
Environmental - Nuclear, Radiation, Toxic & Hazardous Waste
- Level C; Forklift Operator for Masonary; Form Setter;
Green Concrete Cutting; Hand Operated Grouter & Grinder
Machine Operator; Jackhammer; Pavement Breaker; Paving
Joint Machine; Pipelayer; Plastic Pipe Fusion; Power Driven
Georgia Buggy & Wheel Barrow; Power Post Hole Digger;
Precast Manhole Setter; Walk-Behind Tamper; Walk-Behind
Trencher; Sand Blaster; Concrete Chipper; Surface Grinder;
Vibrator Operator; Wagon Driller

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

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

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PAIN0012-005 06/11/2005

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

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

PAIN0012-017 05/01/2015

BRACKEN, GALLATIN, GRANT, MASON & OWEN COUNTIES:

	Rates	Fringes
PAINTER (Heavy & Highway Bridges - Guardrails - Lightpoles - Striping)		
Bridge Equipment Tender and Containment Builder Brush & Roller Elevated Tanks;	·	9.06 9.06
Steeplejack Work; Bridge & Lead Abatement	.\$ 24.14	9.06 9.06 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

<sup>\*</sup> PAIN1072-003 12/01/2018

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

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

PLUM0248-003 06/01/2018

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

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

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

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

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

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

	Rates	Fringes
Truck drivers:		
GROUP 1\$	16.57	7.34
GROUP 2\$	16.68	7.34
GROUP 3\$	16.86	7.34
GROUP 4\$	16.96	7.34

TRUCK DRIVER CLASSIFICATIONS

GROUP 1 - Mobile Batch Truck Tender

GROUP 2 - Greaser; Tire Changer; & Mechanic Tender

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

GROUP 4 - Euclid & Other Heavy Earthmoving Equipment & Lowboy; Articulator Cat; 5-Axle Vehicle; Winch & A-Frame when used in transporting materials; Ross Carrier; Forklift when used to transport building materials; & Pavement Breaker

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WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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)).

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

Union Rate Identifiers

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

005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

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

Survey Rate Identifiers

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

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

Union Average Rate Identifiers

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

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

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#### WAGE DETERMINATION APPEALS PROCESS

- 1.) Has there been an initial decision in the matter? This can be:
- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

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

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

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

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

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

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

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

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

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

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END OF GENERAL DECISION

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

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

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

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

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

#### TO: EMPLOYERS/EMPLOYEES

#### PREVAILING WAGE SCHEDULE:

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

#### **OVERTIME:**

Overtime is to be paid after an employee works eight (8) hours a day or forty (40) hours a week, whichever gives the employee the greater wages. At least time and one-half the base rate is required for all overtime. A laborer, workman or mechanic and an employer may enter into a written agreement or a collective bargaining agreement to work more than eight (8) hours a calendar day but not more than ten (10) hours a calendar day for the straight time hourly rate. Wage violations or questions should be directed to the designated Engineer or the undersigned.

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

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

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

GOALS FOR MINORITY	GOALS FOR FEMALE	
PARTICIPATION	PARTICIPATION IN	
IN EACH TRADE	EACH TRADE	
9.6%	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 Spencer County.

# **PART IV**

# **INSURANCE**

#### **INSURANCE**

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

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

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

# PART V

# **BID ITEMS**

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#### **PROPOSAL BID ITEMS**

**Report Date** 12/28/18

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	<b>UNIT PRIC</b>	FP AMOUNT
0010	00001		DGA BASE	1,474.00	TON		\$
0020	00020		TRAFFIC BOUND BASE	17.00	TON		\$
0030	00100		ASPHALT SEAL AGGREGATE	243.00	TON		\$
0040	00103		ASPHALT SEAL COAT	30.00	TON		\$
0050	00190		<b>LEVELING &amp; WEDGING PG64-22</b>	213.00	TON		\$
0060	00221		CL2 ASPH BASE 0.75D PG64-22	1,077.00	TON		\$
0070	00307		CL2 ASPH SURF 0.38B PG64-22	1,337.00	TON		\$
0800	00356		ASPHALT MATERIAL FOR TACK	6.00	TON		\$

Section: 0002 - ROADWAY

LINE	BID CODE	ALT DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0090	01987	DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	212.00	EACH		\$	
0100	02355	<b>GUARDRAIL-STEEL W BEAM-S FACE A</b>	200.00	LF		\$	
0110	02360	<b>GUARDRAIL TERMINAL SECTION NO 1</b>	18.00	EACH		\$	
0120	02367	<b>GUARDRAIL END TREATMENT TYPE 1</b>	47.00	EACH		\$	
0130	02373	<b>GUARDRAIL END TREATMENT TYPE 3</b>	4.00	EACH		\$	
0140	02381	REMOVE GUARDRAIL	11,510.00	LF		\$	
0150	02391	<b>GUARDRAIL END TREATMENT TYPE 4A</b>	1.00	EACH		\$	
0160	02399	EXTRA LENGTH GUARDRAIL POST	100.00	EACH		\$	
0170	02460	REMOVE TREES OR STUMPS	1.00	EACH		\$	
0180	02483	CHANNEL LINING CLASS II	568.00	TON		\$	
0190	02562	TEMPORARY SIGNS	200.00	SQFT		\$	
0200	02575	DITCHING AND SHOULDERING	32,937.00	LF		\$	
0210	02625	REMOVE HEADWALL	39.00	EACH		\$	
0220	02650	MAINTAIN & CONTROL TRAFFIC (SPENCER KY 44)	1.00	LS		\$	
0230	02676	MOBILIZATION FOR MILL & TEXT (SPENCER KY 44)	1.00	LS		\$	
0240	02677	ASPHALT PAVE MILLING & TEXTURING	744.00	TON		\$	
0250	02697	EDGELINE RUMBLE STRIPS	7,988.00	LF		\$	
0260	02701	TEMP SILT FENCE	4,000.00	LF		\$	
0270	02704	SILT TRAP TYPE B	12.00	EACH		\$	
0280	02705	SILT TRAP TYPE C	26.00	EACH		\$	
0290	02707	CLEAN SILT TRAP TYPE B	12.00	EACH		\$	
0300	02708	CLEAN SILT TRAP TYPE C	26.00	EACH		\$	
0310	02726	STAKING (SPENCER KY 44)	1.00	LS		\$	
0320	03240	BASE FAILURE REPAIR	2,324.00	SQYD		\$	
0330	03269	TRIM & REMOVE TREES & BRUSH	600.00	LF		\$	
0340	03302	REPAIR CONCRETE CURB	95.00	LF		\$	
0350	05950	EROSION CONTROL BLANKET	5,000.00	SQYD		\$	
0360	05963	INITIAL FERTILIZER	.10	TON		\$	
0370	05964	MAINTENANCE FERTILIZER	.30	TON		\$	
0380	05992	AGRICULTURAL LIMESTONE	3.00	TON		\$	
0390	06406	SBM ALUM SHEET SIGNS .080 IN	271.78	SQFT		\$	

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#### **PROPOSAL BID ITEMS**

#### **Report Date** 12/28/18

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	<b>UNIT PRIC</b>	FP	<b>AMOUNT</b>
0400	06407		SBM ALUM SHEET SIGNS .125 IN	18.00	SQFT		\$	
0410	06410		STEEL POST TYPE 1	762.00	LF		\$	
0420	06510		PAVE STRIPING-TEMP PAINT-4 IN	15,976.00	LF		\$	
0430	06514		PAVE STRIPING-PERM PAINT-4 IN	159,350.00	LF		\$	
0440	06572		PAVE MARKING-DOTTED LANE EXTEN	150.00	LF		\$	
0450	08150		STEEL REINFORCEMENT	134.00	LB		\$	
0460	08806		<b>GUARDRAIL-BRIDGE CASE I-A</b>	575.00	LF		\$	
0470	08810		PRECAST CONC BRIDGE RAIL BLOCK	8.00	EACH		\$	
0480	08811		REMOVE BRIDGE RAIL	575.00	LF		\$	
0490	10020NS		FUEL ADJUSTMENT	5,634.00	DOLL	\$1.00	\$	\$5,634.00
0500	10030NS		ASPHALT ADJUSTMENT	11,326.00	DOLL	\$1.00	\$	\$11,326.00
0510	21802EN		G/R STEEL W BEAM-S FACE (7 FT POST)	10,025.00	LF		\$	
0520	21813NN		REMOVE AND RELOCATE SHEET SIGNS	32.00	EACH		\$	
0530	23312EC		ROCK REMOVAL	133.00	CUYD		\$	
0540	24631EC		BARCODE SIGN INVENTORY	71.00	EACH		\$	

#### Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	<b>UNIT PRIC</b>	FP	<b>AMOUNT</b>
0550	00440		ENTRANCE PIPE-15 IN	45.00	LF		\$	
0560	00462		CULVERT PIPE-18 IN	284.00	LF		\$	
0570	00464		CULVERT PIPE-24 IN	124.00	LF		\$	
0580	01208		PIPE CULVERT HEADWALL-24 IN	1.00	EACH		\$	
0590	01310		REMOVE PIPE	160.00	LF		\$	
0600	01490		DROP BOX INLET TYPE 1	5.00	EACH		\$	
0610	01726		SAFETY BOX INLET-18 IN SDB-1	5.00	EACH		\$	
0620	01727		SAFETY BOX INLET-24 IN SDB-1	2.00	EACH		\$	
0630	01728		SAFETY BOX INLET-18 IN DBL SDB-5	1.00	EACH		\$	
0640	24575ES610		HEADWALL (SLOPED & MITERED CONCRETE-FOR 18 INCH PIPE)	19.00	EACH		\$	
0650	24575ES610		HEADWALL (SLOPED & MITERED CONCRETE-FOR 24 INCH PIPE)	7.00	EACH		\$	

### Section: 0004 - DEMOBILIZATION

LINE	BID CODE	ALT DESCRIPTION	QUANTITY	UNIT	UNIT PRIC FE	AMOUNT
0660	02569	DEMOBILIZATION	1.00	LS	\$	