

CALL NO. 109
CONTRACT ID. 224425
WARREN COUNTY
FED/STATE PROJECT NUMBER HSIP 9010(348)
DESCRIPTION CAMPBELL LANE (US 231)
WORK TYPE ASPHALT SURFACE WITH GRADE & DRAIN
PRIMARY COMPLETION DATE 11/30/2022

LETTING DATE: June 23,2022

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN DAYLIGHT TIME June 23,2022. Bids will be publicly announced at 10:00 AM EASTERN DAYLIGHT TIME.

NO PLANS ASSOCIATED WITH THIS PROJECT.

DBE CERTIFICATION REQUIRED - 0%

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

TABLE OF CONTENTS

PART I SCOPE OF WORK

- PROJECT(S), COMPLETION DATE(S), & LIQUIDATED DAMAGES
- CONTRACT NOTES
- FEDERAL CONTRACT NOTES
- NATIONAL HIGHWAY
- ASPHALT MIXTURE
- DGA BASE
- COMPACTION OPTION B
- SPECIAL NOTE(S) APPLICABLE TO PROJECT
- LIQUIDATED DAMAGES
- WASTE AND BORROW SITES
- NON-TRACKING TACK COAT
- COORDINATION OF WORK WITH OTHER CONTRACTS
- TYPICAL SECTION DIMENSIONS
- SIDEWALK RAMPS & DETECTABLE WARNINGS
- TRAFFIC CONTROL PLAN
- TRAFFIC SIGNAL LOOP DETECTORS
- RIGHT OF WAY CERTIFICATION
- UTILITY IMPACT & RAIL CERTIFICATION NOTES
- DETAIL SHEET(S)

PART II SPECIFICATIONS AND STANDARD DRAWINGS

- SPECIFICATIONS REFERENCE
- SUPPLEMENTAL SPECIFICATION
- [SN-11] PORTABLE CHANGEABLE SIGNS
- [SN-11N] LONGITUDINAL PAVEMENT JOINT ADHESIVE
- 2020 STANDARD DRAWINGS THAT APPLY

PART III EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

- FEDERAL-AID CONSTRUCTION CONTRACTS FHWA 1273
- NONDISCRIMINATION OF EMPLOYEES
- EXECUTIVE BRANCH CODE OF ETHICS
- PROJECT WAGE RATES LOCALITY 1 / FEDERAL
- NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EEO WARREN

PART IV INSURANCE

PART V BID ITEMS

PART I SCOPE OF WORK

Contract ID: 224425 Page 4 of 148

ADMINISTRATIVE DISTRICT - 03

CONTRACT ID - 224425 HSIP 9010(348)

COUNTY - WARREN

PCN - 0311402312201 HSIP 9010(348)

CAMPBELL LANE (US 231) (MP 10.500) IMPROVEMENTS AT THE INTERSECTION OF GARY FARM BLVD AND CAMPBELL LANE (US 231) (MP 11.500), A DISTANCE OF 01.00 MILES.ASPHALT SURFACE WITH GRADE & DRAIN SYP NO. 03-09018.00.

GEOGRAPHIC COORDINATES LATITUDE 36:27:13.00 LONGITUDE 86:25:50.00 ADT 21,683

COMPLETION DATE(S):

COMPLETED BY 11/30/2022 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 https://secure.kentucky.gov/sos/ftbr/welcome.aspx .

SPECIAL NOTE FOR PROJECT QUESTIONS DURING ADVERTISEMENT

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

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

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

HARDWOOD REMOVAL RESTRICTIONS

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

INSTRUCTIONS FOR EXCESS MATERIAL SITES AND BORROW SITES

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

ACCESS TO RECORDS

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

WARREN COUNTY HSIP 9010(348)

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 Rating 102.08 Preparation and Delivery of Proposals

102.13 Irregular Bid Proposals 102.14 Disqualification of Bidders

102.09 Proposal Guaranty

CIVIL RIGHTS ACT OF 1964

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

NOTICE TO ALL BIDDERS

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

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

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

SECOND TIER SUBCONTRACTS

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

DISADVANTAGED BUSINESS ENTERPRISE PROGRAM

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

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

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

DBE GOAL

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

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

OBLIGATION OF CONTRACTORS

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

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

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

CERTIFICATION OF CONTRACT GOAL

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

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

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

DBE PARTICIPATION PLAN

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

The DBE Participation Plan shall include the following:

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

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

UPON AWARD AND BEFORE A WORK ORDER WILL BE ISSUED

Contractors must submit the signed subcontract between the contractor and the DBE contractor, along with the DBE's certificate of insurance. If the DBE is a supplier of materials for the project, a signed purchase order 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 (hard copy along with an electronic copy) of this information must be received in the Division of Contract Procurement no later than 12:00 noon of the tenth calendar day after receipt of notification that they are the apparent low bidder.

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

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

- 1. Whether the bidder attended any pre-bid meetings that were scheduled by the Cabinet to inform DBEs of subcontracting opportunities;
- 2. Whether the bidder provided solicitations through all reasonable and available means;
- 3. Whether the bidder provided written notice to all DBEs listed in the DBE directory at the time of the letting who are prequalified in the areas of work that the bidder will be subcontracting;
- 4. Whether the bidder followed up initial solicitations of interest by contacting DBEs to determine with 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 Disadvantaged Enterprise Business Liaison Officer (DEBLO) in the Office for Civil Rights and Small Business Development to give notification of the bidder's inability to get DBE quotes;
- 5. Whether the bidder selected portions of the work to be performed by DBEs in order to increase the likelihood of meeting the contract goals. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate DBE participation, even when the prime contractor might otherwise perform these work items with its own forces;
- 6. Whether the bidder provided interested DBEs with adequate and timely information about the plans, specifications, and requirements of the contract;
- 7. Whether the bidder negotiated in good faith with interested DBEs not rejecting them as unqualified without sound reasons based on a thorough investigation of their capabilities. Any rejection should be so noted in writing with a description as to why an agreement could not be reached;
- 8. Whether quotations were received from interested DBE firms but were rejected as unacceptable without sound reasons why the quotations were considered unacceptable. The fact that the DBE firm's quotation for the work is not the lowest quotation received will not in itself be considered as a sound reason for rejecting the quotation as unacceptable. The fact that the bidder has the ability and/or desire to perform the contract work with its own forces will not be considered a sound reason for rejecting a DBE quote. Nothing in this provision shall be construed to require the bidder to accept unreasonable quotes in order to satisfy DBE goals;
- 9. Whether the bidder specifically negotiated with subcontractors to assume part of the responsibility to meet the contract DBE goal when the work to be subcontracted includes potential DBE participation;
- 10. Whether the bidder made any efforts and/or offered assistance to interested DBEs in obtaining the necessary equipment, supplies, materials, insurance and/or bonding to satisfy the work requirements of the bid proposal; and
- 11. Any other evidence that the bidder submits which may show that the bidder has made reasonable good faith efforts to include DBE participation.

FAILURE TO MEET GOOD FAITH REQUIREMENT

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

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

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

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

SANCTIONS FOR FAILURE TO MEET DBE REQUIREMENTS OF THE PROJECT

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

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

PROMPT PAYMENT

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

CONTRACTOR REPORTING

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

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

***** IMPORTANT ******

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

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

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

DEFAULT OR DECERTIFICATION OF THE DBE

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

PROHIBITION ON TELECOMMUNICATIONS EQUIPMENT OR SERVICES

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

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

Revised: 5/3/2022

<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.

WARREN COUNTY HSIP 9010(348)

Page 16 of 148

Contract ID: 224425

NATIONAL HIGHWAY

Be advised this project is on the NATIONAL HIGHWAY SYSTEM.

ASPHALT MIXTURE

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

DGA BASE

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

OPTION B

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

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

CAUTION

The information in this proposal and the type of work listed herein are approximate only and are not to be taken as an exact evaluation of the materials and conditions to be encountered during construction; the bidder must draw his/her own conclusions when developing the Unit Bid Prices for each bid item. As such, if the conditions encountered are not in accordance with the information shown, the Department does not guarantee any changes to the Unit Bid Prices nor extension of the contract will be considered. The Department will pay for bid item quantity overruns, but only if pre-approved by the Engineer.

STATIONING

The contractor shall refer to the coordinate control sheet in the plan set for the basis of project stationing. **NOTE**: The existing mile marker signs <u>DO NOT</u> correspond to the proposed work locations.

SURVEY

Survey information was obtained from conventional survey with control from GPS methods. All work 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 and environmentally cleared by the Contractor at no additional cost to the Department. In the event that private improvements (i.e. fences, buildings, etc.) encroach upon the Right-of-Way, the contractor shall notify the Engineer and limit work activities in order to NOT disturb the improvements. If they become necessary, the Department will secure consent and releases from property owners through the Engineer. Be responsible for all encroachments onto private lands.

CONTROL

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

WARREN COUNTY HSIP 9010(348) Contract ID: 224425 Page 18 of 148

General Notes & Description of Work Page 2 of 2

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:

Right-Turn Lane. The intent of this project is to construct a right-turn lane at the intersection of US 231 (Campbell Lane) and Gary Farm Blvd. Work will include excavating the existing curb & gutter and sidewalk, placing new curb & gutter, CSB, asphalt, sidewalk, pavement markings, and re-grading the roadside as shown on the Typical Sections, Plans, and/or Cross Sections.

Drainage. There are locations throughout the project where storm sewer pipes and structures are being added, replaced and/or extended. Locations are noted on the Drainage Summary and in the Pipe sections. Refer to the Special Note for Pipe Replacements / Extensions for more information on this item of work.

Traffic Signals: The traffic signal at the intersection of US 231 (Campbell Lane) and Gary Farm Blvd. must be reconstructed. Refer to the traffic plans for additional details.

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 201.03.01, perform items 1 & 2 usually performed by the Engineer.
- 2. Using the proposed pavement superelevation rates, runout lengths, and runoff lengths, determine the necessary elevation changes along the edges of pavement for each proposed curve and the transitions leading into and out of each curve to achieve the proposed superelevation improvements. The intent is to provide a consistent superelevation throughout each proposed curve and smooth transitions into and out of each curve. Once the elevation changes along the edges of pavement for each proposed curve are determined and prior to starting paving operations, verify the proposed roadside re-grading corresponding to each curve can be constructed so that the new roadside will be flush with the new edges of pavement and the new toe of slope, or top of cut, will remain within the Right-of-Way, or within the general area noted on any applicable Consent & Releases, 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 elevations of the edges of pavement will cause the proposed roadside grading to extend beyond the Right-of-Way, or extend outside of the general area described on any applicable Consent & Releases, 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 adjust the proposed dimensions of the roadside grading so the new toe of slope or top of cut will remain within the Right-of-Way, or within the general area noted on any applicable Consent & Releases, and/or not impact a sensitive obstruction. After the final proposed elevation changes along the edges of pavement for each curve 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 mix design of each lift of Leveling & Wedging the contractor plans to use to achieve the proposed 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 the Manual on Uniform on Traffic Control Devices (MUTCD), current edition. The MUTCD cover items such as: appropriate sign location, advance placement distances, and spacing requirements for signing. The intent is for the proposed signs to be consistent with, and meet the requirements of, the MUTCD. Once the proposed sign locations have been staked, notify and coordinate with the District Traffic Engineer, and perform a review of the staked locations. Adjust the staked

Staking Page 2 of 2

locations, as directed by the District Traffic Engineer and obtain approval of the final staked locations. This review will also be used to determine if there are any existing signs that require removal and/or relocation. Provide the District Traffic Engineer with 2 weeks of notice when a route will be ready for a review of the staked locations. NOTE: The District Traffic Engineer may determine that the proposed signing, including sign types and messages, needs to be adjusted and/or modified from what is shown in the proposal. Therefore, the Contractor shall not order any sign material for a route until the route has been staked and final sign location approval has been given by the District Traffic Engineer.

- 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.

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

Erosion Control Page 2 of 3

vegetation not required to be removed by the work or the contract. Seed and/or mulch disturbed areas at the earliest opportunity. Use silt fence, silt traps, temporary ditches, brush barriers, erosion control blankets, sodding, channel lining, and other erosion control measures in a timely manner as required by the BMP and as directed or approved by the Engineer. Prevent sediment laden water from leaving the project, entering an existing drainage structure, or entering a 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 as possible to its original condition, or as directed by the Engineer. Prepare the seed bed areas and sow all exposed earthen areas with the applicable seed mixture(s) according to Section 212.03.03.

Erosion Control Page 3 of 3

IV. MEASUREMENT

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

V. Basis of Payment

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

Special Note for Pipe Replacements and 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 existing pavement; clearing and grubbing; staking; incidental excavation and backfilling; common and solid rock excavation; embankment in place; removal of obstructions, or any other items; restoration of pavements, slopes, and all disturbed areas; final dressing and cleanup; and disposal of materials. Limit clearing and grubbing to the absolute minimum required to construct the drainage features. Perform all site preparation only as approved or directed by the Engineer.
- D. Removing Headwalls, Pipe, and Excavation. Remove existing headwalls and lengths of culvert

Pipe Replacements/Extensions Page 2 of 4

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

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

Pipe Replacements/Extensions Page 3 of 4

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

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

IV. METHOD OF MEASUREMENT

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

Pipe Replacements/Extensions
Page 4 of 4

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

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

V. BASIS OF PAYMENT

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

SPECIAL NOTE FOR PIPELINE INSPECTION

- **1.0 DESCRIPTION.** The Department will perform visual inspections on all pipe on the project. A video inspection will be required on projects having more than 250 linear feet of storm sewer and/or culvert pipe and on routes with an ADT of greater than 1,000 vehicles. Conduct video inspections on all pipe located under the roadway and 50 percent of the remaining pipe not under the roadway. Storm sewer runs and outfall pipes not under the roadway take precedence over rural entrance pipes. Contractors performing this item of work must be prequalified with the Department in the work type J51 (Video Pipe Inspection and Cleaning). Deflection testing shall be completed using a mandrel in accordance with the procedure outlined below or by physical measurement for pipes greater than 36inches in diameter. Mandrel testing for deflection must be completed prior to the video inspection testing. Unless otherwise noted, Section references herein are to the Department's most current version of the Standard Specifications for Road and Bridge Construction.
- **2.0 VIDEO INSPECTION.** Ensure pipe is clear of water, debris or obstructions. Complete the video inspection and any necessary measurement prior to placing the final surface over any pipe. When paving will not be delayed, take measurements 30 days or more after the completion of earthwork to within 1 foot of the finished subgrade. Notify the Engineer a minimum of 24 hours in advance of inspection and notify the Engineer immediately if distresses or locations of improper installation are logged.

2.1 INSPECTION FOR DEFECTS AND DISTRESSES

- **A)** Begin at the outlet end and proceed through to the inlet at a speed less than or equal to 30 ft/minute. Remove blockages that will prohibit a continuous operation.
- **B)** Document locations of all observed defects and distresses including but not limited to: cracking, spalling, slabbing, exposed reinforcing steel, sags, joint offsets, joint separations, deflections, improper joints/connections, blockages, leaks, rips, tears, buckling, deviation from line and grade, damaged coatings/paved inverts, and other anomalies not consistent with a properly installed pipe.
- C) During the video inspection provide a continuous 360 degree pan of every pipe joint.
- ${f D}$) Identify and measure all cracks greater than 0.1" and joint separations greater than 0.5".
- **E**) Video Inspections are conducted from junction to junction which defines a pipe run. A junction is defined as a headwall, drop box inlet, curb box inlet, manhole, buried junction, or other structure that disturbs the continuity of the pipe. Multiple pipe inspections may be conducted from a single set up location, but each pipe run must be on a separate video file and all locations are to be referenced from nearest junction relative to that pipe run.
- F) Record and submit all data on the TC 64-765 and TC 64-766 forms.
- **3.0 MANDREL TESTING.** Mandrel testing will be used for deflection testing. For use on Corrugated Metal Pipe, High Density Polyethylene Pipe, and Polyvinyl Chloride Pipe,

use a mandrel device with an odd number of legs (9 minimum) having a length not less than the outside diameter of the mandrel. The diameter of the mandrel at any point shall not be less than the diameter specified in Section 3.6. Mandrels can be a fixed size or a variable size.

- **3.1** Use a proving ring or other method recommended by the mandrel manufacturer to verify mandrel diameter prior to inspection. Provide verification documentation for each size mandrel to the Engineer.
- **3.2** All deflection measurements are to be based off of the AASHTO Nominal Diameters. Refer to the chart in section 3.6.
- **3.3** Begin by using a mandrel set to the 5.0% deflection limit. Place the mandrel in the inlet end of the pipe and pull through to the outlet end. If resistance is met prior to completing the entire run, record the maximum distance achieved from the inlet side, then remove the mandrel and continue the inspection from the outlet end of the pipe toward the inlet end. Record the maximum distance achieved from the outlet side.
- **3.4** If no resistance is met at 5.0% then the inspection is complete. If resistance occurred at 5.0% then repeat 3.1 and 3.2 with the mandrel set to the 10.0% deflection limit. If the deflection of entire pipe run cannot be verified with the mandrel then immediately notify the Engineer.
- 3.5 Care must be taken when using a mandrel in all pipe material types and lining/coating scenarios. Pipe damaged during the mandrel inspection will be video inspected to determine the extent of the damage. If the damaged pipe was video inspected prior to mandrel inspection then a new video inspection is warranted and supersedes the first video inspection. Immediately notify the Engineer of any damages incurred during the mandrel inspection and submit a revised video inspection report.
- **3.6** AASHTO Nominal Diameters and Maximum Deflection Limits.

Base Pipe Diameter	AASHTO Nominal Diameter	Max. Beneedon Emit	
•		5.0%	10.0%
(inches)	(inches)	(inches)	
15	14.76	14.02	13.28
18	17.72	16.83	15.95
24	23.62	22.44	21.26
30	29.53	28.05	26.58
36	35.43	33.66	31.89
42	41.34	39.27	37.21
48	47.24	44.88	42.52
54	53.15	50.49	47.84
60	59.06	56.11	53.15

- **4.0 PHYSICAL MEASUREMENT OF PIPE DEFLECTION.** Alternate method for deflection testing when there is available access or the pipe is greater than 36 inches in diameter, as per 4.1. Use a contact or non-contact distance instrument. A leveling device is recommended for establishing or verifying vertical and horizontal control.
 - **4.1** Physical measurements may be taken after installation and compared to the AASHTO Nominal Diameter of the pipe as per Section 3.6. When this method is used, determine the smallest interior diameter of the pipe as measured through the center point of the pipe (D2). All measurements are to be taken from the inside crest of the corrugation. Take the D2 measurements at the most deflected portion of the pipe run in question and at intervals no greater than ten (10) feet through the run. Calculate the deflection as follows:
 - % Deflection = [(AASHTO Nominal Diameter D2) / AASHTO Nominal Diameter] x 100%

Note: The Engineer may require that preset monitoring points be established in the culvert prior to backfilling. For these points the pre-installation measured diameter (D1) is measured and recorded. Deflection may then be calculated from the following formula:

% Deflection =
$$[(D1 - D2)/D1](100\%)$$

- **4.2** Record and submit all data.
- **5.0 DEDUCTION SCHEDULE.** All pipe deductions shall be handled in accordance with the tables shown below.

FLEXIBLE PIPE DEFLECTION			
Amount of Deflection (%)	Payment		
0.0 to 5.0	100% of the Unit Bid Price		
5.1 to 9.9	50% of the Unit Bid Price (1)		
10 or greater	Remove and Replace (2)		

⁽¹⁾ Provide Structural Analysis for HDPE and metal pipe. Based on the structural analysis, pipe may be allowed to remain in place at the reduced unit price. (2) The Department may allow the pipe to remain in place with no pay to the Contractor in instances where it is in the best interest to the public and where the structural analysis demonstrates that the pipe should function adequately.

RIGID PIPE REMEDIATION TABLE PIPE			
Crack Width (inches)	Payment		
≤ 0.1	100% of the Unit Bid Price		
Greater than 0.1	Remediate or Replace (1)		

⁽¹⁾ Provide the Department in writing a method for repairing the observed cracking. Do not begin work until the method has been approved.

6.0 PAYMENT. The Department will measure the quantity in linear feet of pipe to inspect. The Department will make payment for the completed and accepted quantities under the following:

CodePay ItemPay Unit24814ECPipeline InspectionLinear Foot10065NSPipe Deflection DeductionDollars

Special Note for Cored Hole Drainage Box Connector

I. DESCRIPTION.

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

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

II. MATERIALS.

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

- A. Maintain and Control Traffic. See the Traffic Control Plan.
- **B.** Erosion Control. See the Special Note for Erosion Control.
- C. Non-Shrink Grout. Conform to Subsection 601.03.03 (B).
- **D. Asphalt Mastic Joint Sealing Compound**. Conform to Section 807.
- E. Pipe. Conform to Subsection 704.02. Furnish the same type and size as the underdrain pipe. Culvert Pipe. Furnish the same type and size as the existing culvert pipe being connected to the existing small drainage structure. Furnish pipe meeting the requirements of Section 810. Select pipe for pH range Medium and minimum fill cover height according to the applicable Standard or Sepia Drawings, current editions. Verify maximum and minimum fill cover height required for new pipe prior to construction and obtain the Engineer's approval of the class or gauge of pipe and type of coating prior to delivering pipe to project. Furnish approved connecting bands or pipe anchors and toe walls.
- F. Flowable Fill. Furnish Flowable Fill for Pipe Backfill per Section 601.03.03(B).
- **G.** Styrofoam Backer Rod. Obtain the Engineer's approval.

III. CONSTRUCTION.

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

Cored Hole Drainage Box Connector Page 2 of 2

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

SPECIAL NOTES FOR COMPLETION DATES & LIQUIDATED DAMAGES

The ultimate fixed completion date for this project will be July 31, 2023. The contractor must complete construction of the right-turn lane up to the top lift of base within 30 calendar days of beginning work. The contractor will notify the Engineer in writing of the planned start date. Liquidated Damages for failure to complete the project on time will be assessed following Section 108.09.

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

Contrary to Section 108.09, Liquidated Damages will be assessed 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

SPECIAL NOTE FOR NON-TRACKING TACK COAT

- 1. DESCRIPTION AND USEAGE. This specification covers the requirements and practices for applying a non-tracking tack asphalt coating. Place this material on the existing pavement course, prior to placement of a new asphalt pavement layer. Use when expedited paving is necessary or when asphalt tracking would negatively impact the surrounding area. This material is not suitable for other uses. Ensure material can "break" within 15 minutes under conditions listed in 3.2.
- 2. MATERIALS, EQUIPMENT, AND PERSONNEL.
 - 2.1 Non-Tracking Tack. Provide material conforming to Subsection 2.1.1.
 - 2.1.1 Provide a tack conforming to the following material requirements:

Property	Specification	Test Procedure
Viscosity, SFS, 77 ° F	20 - 100	AASHTO T 72
Sieve, %	0.3 max.	AASHTO T 59
Asphalt Residue ¹ , %	50 min.	AASHTO T 59
Oil Distillate, %	1.0 max.	AASHTO T 59
Residue Penetration, 77 ° F	0 - 30	AASHTO T 49
Original Dynamic Shear (G*/sin δ), 82 ° C	1.0 min.	AASHTO T 315
Softening Point, ° F	149 min.	AASHTO T 53
Solubility, %	97.5 min.	AASHTO T 44

¹ Bring sample to 212 °F over a 10-15 minute period. Maintain 212 °F for 15-20 minutes or until 30-40 mL of water has distilled. Continue distillation as specified in T59.

- 2.2. Equipment. Provide a distributor truck capable of heating, circulating, and spraying the tack between 170 °F and 180 °F. Do not exceed 180 °F. Circulate the material while heating. Provide the correct nozzles that is recommend by the producer to ensure proper coverage of tack is obtained. Ensure the bar can be raised to between 14" and 18" from the roadway.
- 2.3. Personnel. Ensure the tack supplier has provided training to the contractor on the installation procedures for this product. Make a technical representative from the supplier available at the request of the Engineer.

3. CONSTRUCTION.

3.1 Surface Preparation. Prior to the application of the non-tracking tack, ensure the pavement surface is thoroughly dry and free from dust or any other debris that would inhibit adhesion. Clean the surface by scraping, sweeping, and the use of compressed air. Ensure this preparation process occurs shortly before application to prevent the return of debris on to the pavement. If rain is expected within one hour after application, do not apply material. Apply material only when the surface is dry, and no precipitation is expected.

- 3.2 Non-tracking Tack Application. Placement of non-tracking tack is not permitted from October 1st to May 15th. When applying material, ensure the roadway temperature is a minimum of 40°F and rising. Prior to application, demonstrate competence in applying the tack according to this note to the satisfaction of the Engineer. Heat the tack in the distributor to between 170 180 °F. After the initial heating, between 170 180 °F, the material may be sprayed between 165 °F and 180 °F. Do not apply outside this temperature range. Apply material at a minimum rate of 0.70 pounds (0.08 gallons) per square yard. Ensure full coverage of the material on the pavement surface. Full coverage of this material is critical. Increase material application rate if needed to achieve full coverage. Schedule the work so that, at the end of the day's production, all non-tracking tack is covered with the asphalt mixture. If for some reason the non-tracking tack cannot be covered by an asphalt mixture, ensure the non-tracking tack material is clean and reapply the non-tracking tack prior to placing the asphalt mixture. Do not heat material more than twice in one day.
- 3.3 Non-tracking Tack Certification. Furnish the tack certification to the Engineer stating the material conforms to all requirements herein prior to use.
- 3.4 Sampling and Testing. The Department will require a sample of non-tracking tack be taken from the distributor at a rate of one sample per 15,000 tons of mix. Take two 1 gallon samples of the heated material and forward the sample to the Division of Materials for testing within 7 days. Ensure the product temperature is between 170 and 180 °F at the time of sampling.
- 4. MEASUREMENT. The Department will measure the quantity of non-tracking tack in tons. The Department will not measure for payment any extra materials, labor, methods, equipment, or construction techniques used to satisfy the requirements of this note. The Department will not measure for payment any trial applications of non-tracking tack, the cleaning of the pavement surface, or furnishing and placing the non-tracking tack. The Department will consider all such items incidental to the non-tracking tack.
- 5. PAYMENT. The Department will pay for the non-tracking tack at the Contract unit bid price and apply an adjustment for each manufacturer's lot of material based on the degree of compliance as defined in the following schedule. Non-tracking tack will not be permitted for use from October 1st to May 15th. During this timeframe, the department will allow the use of an approved asphalt emulsion in lieu of a non-tracking tack product but will not adjust the unit bid price of the material. When a sample fails on two or more tests, the Department may add the deductions, but the total deduction will not exceed 100 percent.

Non-Tracking Tack Price Adjustment Schedule							
Test	Specification	100% Pay	90% Pay	80% Pay	50% Pay	0% Pay	
Viscosity, SFS, 77 ° F	20 – 100	19 - 102	17 - 18	15 - 16	14	≤13	
			103 - 105	106 - 107	108 - 109	≥ 110	
Sieve, %	0.30 max.	≤ 0.40	0.41 - 0.50	0.51 - 0.60	0.61 - 0.70	≥ 0.71	
Asphalt Residue, %	50 min.	≥49.0	48.5 – 48.9	48.0 - 48.4	47.5-47.9	≤ 47.4	
Oil Distillate, %	1.0 max.	≤1.0	1.1-1.5	1.6 - 1.7	1.8-1.9	>2.0	
Residue Penetration, 77 ° F.	30 max.	≤ 31	32 - 33	34 - 35	36 - 37	≥ 38	
Original Dynamic Shear (G*/sin δ), 82 ° C	1.0 min.	≥0.95	0.92 - 0.94	0.90 - 0.91	0.85 - 0.89	≤ 0.84	
Softening Point, ° F	149 min.	≥145	142 - 144	140 - 141	138 - 139	≤ 137	
Solubility, %	97.5 min.	≥ 97.0	96.8 – 96.9	96.6 – 96.7	96.4 – 96.5	≤ 96.3	

Code
24970ECPay Item
Asphalt Material for Tack Non-TrackingPay Unit
Ton

Revised: May 23, 2022

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

WARREN COUNTY HSIP 9010(348)

SPECIAL NOTE FOR TYPICAL SECTION DIMENSIONS

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

1-3725 Typical Section Dimensions 01/02/2012

SPECIAL NOTE FOR SIDEWALK RAMPS & DETECTABLE WARNINGS

GENERAL

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

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

MEASUREMENT & PAYMENT

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

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

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

1-3791 Sidewalk Ramps Pay SY 06/10/2016

TRAFFIC CONTROL PLAN

TRAFFIC CONTROL GENERAL

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

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

PROJECT PHASING & CONSTRUCTION PROCEDURES

See the Maintenance of Traffic Special Notes and the Maintenance of Traffic Plan in the attached Plan Set for additional details.

Always maintain at least one 10 ft. lane of traffic in each direction and 12 ft. left-turn lanes at each intersection during construction.

Signal phasing and/or timing adjustments may be required during construction. Obtain the Engineers approval prior to making any changes.

No temporary lane closures will be permitted on weekdays between the hours of 6:00 a.m. to 8:00 p.m. No temporary lane closures will be permitted on Saturday or Sunday.

During any lane closure, make provisions for the passage of vehicles of up to 16 feet in width. If traffic should be stopped due to construction operations, and a school bus or emergency vehicle on an official run arrives on the scene, make provisions for the passage of the school bus or emergency vehicle as quickly as possible.

The Department will allow night work on this project. Obtain the Engineer's approval of the method of lighting prior to performing night work.

Take these restrictions into account in submitting bid. The Department will not consider any claims for money or grant contract time extensions for any delays to the Contractor as a result of these restrictions.

Traffic Control Plan Page 2 of 9

Unless otherwise approved by the Engineer, no lane closures will be allowed on the following dates:

Independence Day 3 pm Friday, July 1, 2022 – 11 pm Monday, July 4, 2022 Labor Day Weekend 3 pm Friday, September 2, 2022 – 8 pm Monday, September 5, 2022 Thanksgiving Holiday 3 pm Wednesday, November 23, 2022 – 8 pm Sunday, Nov. 27, 2022 3 pm Friday, December 23, 2022 – 8 pm Sunday, December 25, 2022 Christmas Holiday New Year's Day Holiday 7 am Saturday, December 31, 2022 – 8 pm Sunday, January 1, 2023 Easter Weekend 3 pm Friday, April 7, 2023 – 8 pm Sunday, April 9, 2023 Memorial Day Weekend 3 pm Friday, May 26, 2023 – 8 pm Monday, May 29, 2023 Independence Day 7 am Saturday, July 1, 2023 – 11 pm Tuesday, July 4, 2023

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

TEMPORARY SIGNS

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

CHANGEABLE MESSAGE SIGNS

Provide changeable message signs at locations determined by the Engineer. The Engineer may vary the designated locations as the work progresses. The Engineer will determine the messages to be displayed. In the event of damage or mechanical/electrical failure, repair or replace the Changeable Message Sign within 8 hours. The Department will measure for payment the maximum number of Changeable Message Signs in concurrent use at the same time on a single day on all sections of the contract. The Department will measure individual Changeable Message Signs only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. The Department will not measure for payment any replacements for damaged Changeable Message Signs or any changeable message signs the Engineer directs to be replaced due to poor condition or readability. Retain possession of the Changeable Message Signs upon completion of the work.

ARROW PANELS

Use arrow panels as shown on the Standard Drawings or as directed by the Engineer. The Department will measure for payment the maximum number of arrow panels in concurrent use at the same time on a single day on all sections of the contract. The Department will measure individual Arrow Panels 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 Arrow Panels or

Traffic Control Plan Page 3 of 9

for panels signs the Engineer directs be replaced due to poor condition or readability for payment. Retain possession of the Arrow Panels upon completion of the work.

BARRICADES

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

TEMPORARY ENTRANCES

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

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

THERMOPLASTIC INTERSECTION MARKINGS

Consider the locations listed on the summary and/or shown on the plan sheets as approximate only. Prior to milling and/or resurfacing, locate and document the locations of the existing markings. After final surfacing operations, replace the markings at their approximate existing locations, as shown on the plan sheets, or as directed by the Engineer. Place markings not existing prior to resurfacing as shown on the plan sheets or as directed by the Engineer.

PAVEMENT MARKINGS

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

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

Traffic Control Plan Page 4 of 9

PAVEMENT EDGE DROP-OFFS

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

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

Less than 2" - No protection required.

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

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

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

Traffic Control Plan Page 5 of 9

USE AND PLACEMENT OF CHANGEABLE MESSAGE SIGNS

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

Application

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

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

CMS should not be used for:

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

Traffic Control Plan Page 6 of 9

Messages

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

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

Placement

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

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

Traffic Control Plan Page 7 of 9

<u>Standard Abbreviations</u>
The following is a list of standard abbreviations to be used on CMS:

he	following is a list of stand		
	Word	Abbrev	Example
	Access	ACCS	ACCIDENT AHEAD/ USE ACCS RD NEXT RIGHT
	Alternate	ALT	ACCIDENT AHEAD/ USE ALT RTE NEXT RIGHT
	Avenue	AVE	FIFTH AVE CLOSED/ DETOUR NEXT LEFT
	Blocked	BLKD	FIFTH AVE BLKD/ MERGE LEFT
	Boulevard	BLVD	MAIN BLVD CLOSED/ USE ALT RTE
	Bridge	BRDG	SMITH BRDG CLOSED/ USE ALT RTE
	Cardinal Directions	N, S, E, W	N I75 CLOSED/ DETOUR EXIT 30
	Center	CNTR	CNTR LANE CLOSED/ MERGE LEFT
	Commercial	COMM	OVRSZ COMM VEH/ USE I275
	Condition	COND	ICY COND POSSIBLE
	Congested	CONG	HVY CONG NEXT 3 MI
	Construction	CONST	CONST WORK AHEAD/ EXPECT DELAYS
	Downtown	DWNTN	DWNTN TRAF USE EX 40
	Eastbound	E-BND	E-BND I64 CLOSED/ DETOUR EXIT 20
	Emergency	EMER	EMER VEH AHEAD/ PREPARE TO STOP
	Entrance, Enter	EX, EXT	DWNTN TRAF USE EX 40
	Expressway	EXPWY	WTRSN EXPWY CLOSED/ DETOUR EXIT 10
	Freeway	FRWY, FWY	GN SYNDR FWY CLOSED/ DETOUR EXIT 15
	Hazardous Materials	HAZMAT	HAZMAT IN ROADWAY/ ALL TRAF EXIT 25
	Highway	HWY	ACCIDENT ON AA HWY/ EXPECT DELAYS
	Hour	HR	ACCIDENT ON AA HWY/ 2 HR DELAY
	Information	INFO	TRAF INFO TUNE TO 1240 AM
	Interstate	I	E-BND I64 CLOSED/ DETOUR EXIT 20
	Lane	LN	LN CLOSED MERGE LEFT
	Left	LFT	LANE CLOSED MERGE LFT
	Local	LOC	LOC TRAF USE ALT RTE
	Maintenance	MAINT	MAINT WRK ON BRDG/ SLOW
	Major	MAJ	MAJ DELAYS I75/ USE ALT RTE
	Mile	MI	ACCIDENT 3 MI AHEAD/ USE ALT RTE
	Minor	MNR	ACCIDENT 3 MI MNR DELAY
	Minutes	MIN	ACCIDENT 3 MI/ 30 MIN DELAY
	Northbound	N-BND	N-BND I75 CLOSED/ DETOUR EXIT 50
	Oversized	OVRSZ	OVRSZ COMM VEH/ USE I275 NEXT RIGHT
	Parking	PKING	EVENT PKING NEXT RGT
	Parkway	PKWY	CUM PKWAY TRAF/ DETOUR EXIT 60
	Prepare	PREP	ACCIDENT 3 MI/ PREP TO STOP
	Right	RGT	EVENT PKING NEXT RGT
	Road	RD	HAZMAT IN RD/ ALL TRAF EXIT 25
	Roadwork	RDWK	RDWK NEXT 4 MI/ POSSIBLE DELAYS
	Route	RTE	MAJ DELAYS 175/ USE ALT RTE
	Shoulder	SHLDR	SHLDR CLOSED NEXT 5 MI
	Slippery	SLIP	SLIP COND POSSIBLE/ SLOW SPD
	Southbound	S-BND	S-BND I75 CLOSED/ DETOUR EXIT 50
	Speed	SPD	SLIP COND POSSIBLE/ SLOW SPD
	=		

Traffic Control Plan Page 8 of 9

Standard Abbreviations (cont)

Word	Abbrev	Example
Street	ST	MAIN ST CLOSED/ USE ALT RTE
Traffic	TRAF	CUM PKWAY TRAF/ DETOUR EXIT 60
Vehicle	VEH	OVRSZ COMM VEH/ USE 1275 NEXT RIGHT
Westbound	W-BND	W-BND I64 CLOSED/ DETOUR EXIT 50
Work	WRK	CONST WRK 2MI/ POSSIBLE DELAYS

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

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

Typical Messages

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

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

Traffic Control Plan Page 9 of 9

Typical Messages (cont)

Reason/Problem Action FOG XX MILES PASS TO RIGHT FREEWAY CLOSED PREPARE TO STOP FRESH OIL REDUCE SPEED **HAZMAT SPILL SLOW ICE SLOW DOWN** INCIDENT AHEAD STAY IN LANE LANES (NARROW, SHIFT, MERGE, ETC.) STOP AHEAD LEFT LANE CLOSED STOP XX MILES LEFT LANE NARROWS **TUNE RADIO 1610 AM LEFT 2 LANES CLOSED USE NN ROAD** LEFT SHOULDER CLOSED **USE CENTER LANE** LOOSE GRAVEL **USE DETOUR ROUTE** USE LEFT TURN LANE MEDIAN WORK XX MILES MOVING WORK ZONE, WORKERS IN ROADWAY **USE NEXT EXIT NEXT EXIT CLOSED USE RIGHT LANE** WATCH FOR FLAGGER NO OVERSIZED LOADS NO PASSING NO SHOULDER ONE LANE BRIDGE PEOPLE CROSSING

RAMP (SLIPPERY, ICE, ETC.)
RIGHT LANE CLOSED
RIGHT LANE NARROWS
RIGHT SHOULDER CLOSED
ROAD CLOSED
ROAD CLOSED XX MILES
ROAD (SLIPPERY, ICE, ETC.)
ROAD WORK

ROAD WORK (OR CONSTRUCTION) (TONIGHT, TODAY, TOMORROW, DATE)

ROAD WORK XX MILES

SHOULDER (SLIPPERY, ICE, SOFT, BLOCKED, ETC.)

NEW SIGNAL XX MILES

SLOW 1 (OR 2) - WAY TRAFFIC

SOFT SHOULDER

RAMP CLOSED

STALLED VEHICLES AHEAD

TRAFFIC BACKUP

TRAFFIC SLOWS

TRUCK CROSSING

TRUCKS ENTERING

TOW TRUCK AHEAD

UNEVEN LANES

WATER ON ROAD

WET PAINT

WORK ZONE XX MILES

WORKERS AHEAD

SPECIAL NOTE FOR TRAFFIC SIGNAL LOOP DETECTORS

- 1.0 DESCRIPTION. Be advised that there are existing traffic signal loop detectors within the construction limits of this project. Except as specified herein, perform traffic signal loop replacement in accordance with the Department's Standard/Supplemental Specifications, Special Provisions, Special Notes, and Standard/Sepia Drawings, current editions and as directed by the Engineer. Article references are to the Standard Specifications. Furnish all materials, labor, equipment, and incidentals for replacement of traffic signal loop installation(s) and all other work specified as part of this contract.
 - 1.1 Pre-bid Requirements. Conform to Subsection 723.03.17
- **2.0 MATERIALS.** Except as specified herein, furnish materials in accordance with Subsection 732.02 and Section 835. Provide for materials to be sampled and tested in accordance with the Department's Sampling Manual. Make materials available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing, unless otherwise specified in this Special Note.
 - 2.1 Maintain and Control Traffic. See Traffic Control Plan.
 - **2.2** Sand. Furnish natural sand meeting the requirements of Subsection 804.04.01.
 - **2.3 Seeding.** Furnish Seed Mix Type I.
- **2.4** Loop Saw Slot and Fill. Furnish loop sealant, backer rod, and non-shrink grout according to the Saw Slot Detail.
- **2.5 Junction Boxes.** Furnish junction box type B, #57 aggregate, and geotextile filter type IV according to junction box detail.
- **2.6** Cable No. 14/1 Pair (Lead-in). Furnish cable that is specified in Section 835. Cable shall be ran splice free. This shall include splice kits to connect to the loop wire.
- **2.7 Conduit.** Furnish and install appropriate conduit from transitions to the roadway, junction boxes and poles. See details below.
- **3.0 CONSTRUCTION.** Except as specified herein, install and test Traffic Signal Loop Detectors in accordance with Section 723 and the drawings.
 - **3.1 Testing.** Conform to Subsection 723.03.17 (A)
 - **3.2 Coordination.** Conform to Subsection 723.03.17 (B)
 - **3.3 Connection.** Conform to Subsection 723.03.17 (C)
 - 3.4 Maintain and Control Traffic. See Traffic Control Plan.
 - **3.5** Milling. Conform to Subsection 723.03.17 (F)
 - **3.6** Loop Saw Slot and Fill. Conform to Subsection 723.03.13 (A).

Traffic Signal Loop Detectors Page 2 of 9

- **3.7 Backfilling and Disturbed Areas.** Conform to Subsection 723.03.11.
- **3.8 Removal.** Conform to Subsection 723.03.16.
- **3.9 Property/Roadway Damage.** Conform to Subsection 723.03.17 (J).
- **3.10 Right-of-Way Limits.** Conform to Subsection 723.03.17 (K).
- **3.11** Utility Clearance. Conform to Subsection 716.03.01.
- **3.12** Control. Obtain the Engineer's approval of all designs required to be furnished by the Contractor prior to incorporation into the work. The Department reserves the right to permit other contractors, state forces, public utility companies, and others to do work during the construction within the limits of, or adjacent to, the project. Conduct operations and cooperate with such other parties so that interference with each other's work will be reduced to a minimum. The Contractor agrees to make no claims against the Department for additional compensation due to delays or other conditions created by the operations of such other parties. Should a difference of opinion arise as to the rights of the Contractor and others working within the limits of, or adjacent to, the project, the Engineer will decide as to the respective rights of the various parties involved in order to ensure the completion of the work in general harmony and in a satisfactory manner, and the Engineer's decision shall be final and binding upon the Contractor.
 - **3.13 Bore and Jack**. Conform to Subsection 723.03.06 (I).
 - **3.14 Open Cut Roadway.** Conform to Subsection 723.03.06 (I).
- **4.0 MEASUREMENT.** See Subsection 723.04 for bid item notes. Additional bid items include the following:
- **4.1 Loop Test.** The Department will measure the quantity as each individual unit loop tested. The Department will not measure disconnection, reconnection, traffic control, re-splicing per specifications, before and after testing per note above, and any associated hardware for payment and will consider them incidental to this item of work.
- **4.2 Remove Signal Equipment.** The department will measure the quantity by each. The department will not measure backfilling and the disposal or transportation of equipment and materials associated with any structural or electrical component of the signal system including, but not limited to pole bases, poles, junction boxes, cabinets, and wood poles for payment and will consider them incidental to this item of work.
- **5.0 PAYMENT**. The Department will make payment for the completed and accepted quantities of listed items according to Subsection 723.05 in addition to the following:

CodePay ItemPay UnitConduit 1"4792Linear FootPVC Conduit - 1 1/4 inch - sch 8024900ECLinear Foot

Traffic Signal Loop Detectors Page 3 of 9

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

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

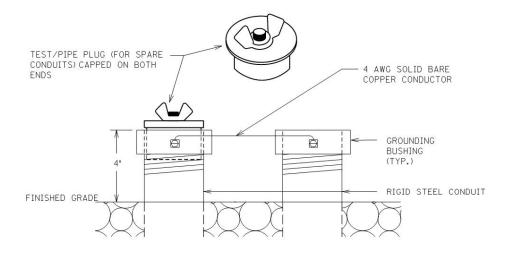
Contrary to section 723:

SUBSECTION: 03.13 Loop Installation.

REVISION: Replace first sentence note with the following:

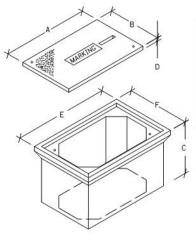
twist unshielded loop wire (imsa 51-7) with 3 to 5 turns from the start of homerun to the inside conduit, junction box, cabinet, or pole. Twist unshielded loop wires (imsa 51-7) with 3 to 5 turns per foot from the start of the homerun to the junction box, cabinet, or pole. Slot can be widen to .5" to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

Traffic Signal Loop Detectors Page 4 of 9



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

Traffic Signal Loop Detectors Page 5 of 9



JUNCTION BOX

	JUNC	TION BOX (DIMENSIONS	S (NOMINAL)		
	А	В	С	D	E	F
TYPE A	23*	14"	27'	2"	25"	15*
TYPE B	18"	111*	12"	13/4" •	20"	13*
TYPE C	36"	24"	30*	3*	38"	26'

* MINIMUM
NOTE: STACKABLE BOXES ARE PERMITTED

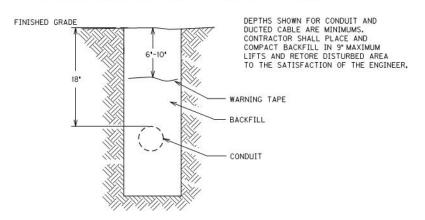
BEFORE THE INSTALLATION OF THE "57 AGGREGATE AND JUNCTION BOX, THE CONTRACTOR SHALL INSTALL GEOTEXTILE FILTER FABRIC TYPE IV IN THE HOLE. THE FABRIC SHALL EXTEND TO JUST BELOW THE LIP OF THE JUNCTION BOX AND SHALL BE CONTINUOUSLY ADHERED TO THE EXTERIOR OF THE BOX WITH ADHESIVE. ANY LOCATIONS WHERE CONDUITS ENTER THE BOX, THE FABRIC SHALL BE "X CUT" ONLY AS MUCH AS NECESSARY TO ALLOW PASSAGE OF EACH INDIVIDUAL CONDUIT THROUGH THE FABRIC. THE FABRIC SHALL BE INCIDENTAL TO BID ITEMS 4811, 2039INS835, OR 20392NS835.

CONDUCTOR INSTALLATIONSCONDUIT SHALL BE EXPOSED
4" FROM BOTTOM OF BOX

EARTH

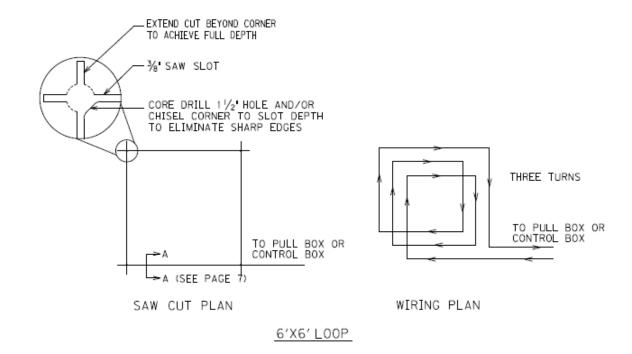
GRADATION SIZE
NO. 57 AGGREGATE
FIBER FABRIC TYPE IV

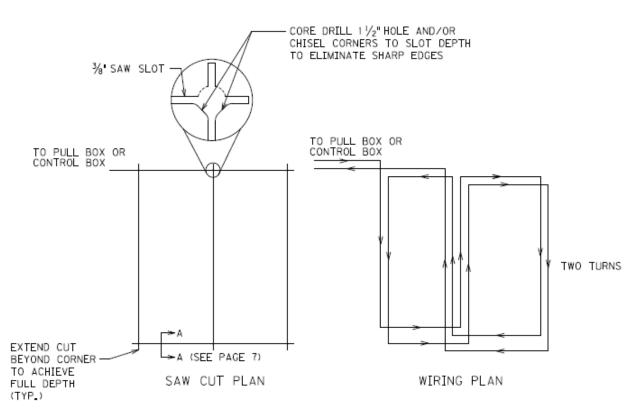
JUNCTION BOX INSTALLATION FOR
CONVENTIONAL LIGHTING OR TRAFFIC SIGNALS



CONDUIT AND WARNING TAPE TRENCH

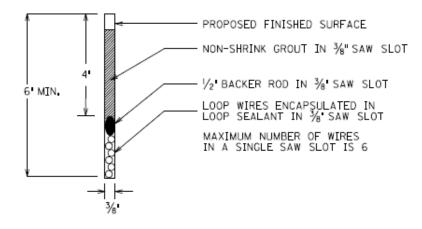
Traffic Signal Loop Detectors Page 6 of 9



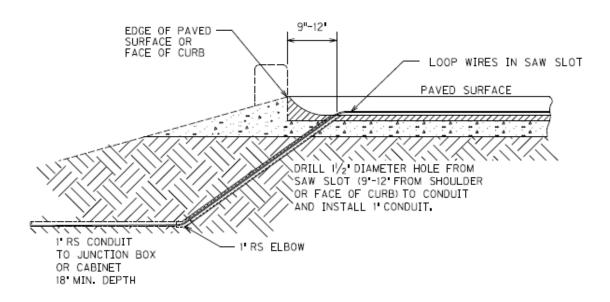


6'X30' QUADRAPOLE LOOP

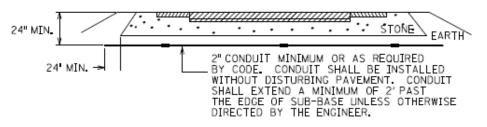
Traffic Signal Loop Detectors Page 7 of 9



SECTION A-A (SAW SLOT DETAIL)

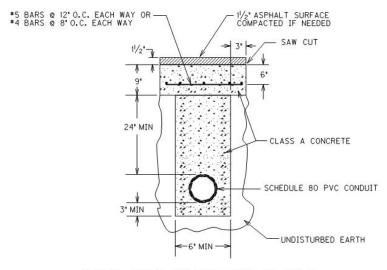


SAW SLOT EDGE OF PAVEMENT TRANSITION

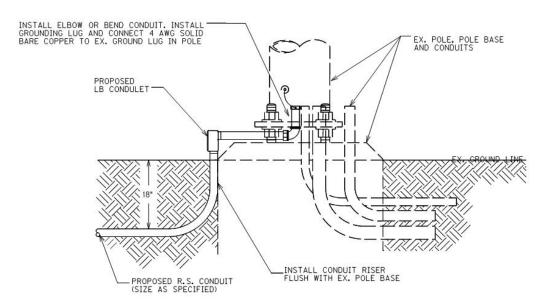


CONDUIT UNDER EXISTING PAVEMENT DETAIL

Traffic Signal Loop Detectors Page 8 of 9

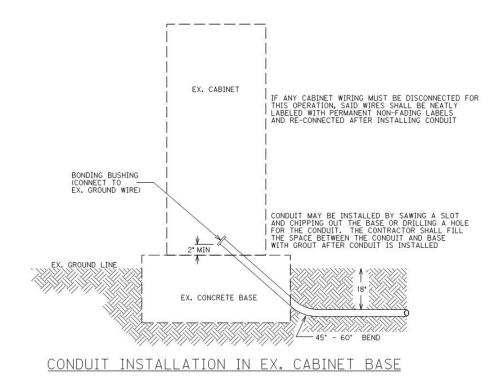


OPEN CUT PAVEMENT DETAIL



CONDUIT INSTALLATION IN EX. POLE BASE

Traffic Signal Loop Detectors Page 9 of 9



Update: 4-5-2022

WARREN COUNTY Contract ID: 224425 HSIP 9010(348)



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

TC 62-226 Rev. 01/2016 Page 1 of 1

Page 60 of 148

RIGHT OF WAY CERTIFICATION

Origi	nal	Re-0	Certific	ation		RIGHT C	F WAY CERTIFICATION	 ON
,	EM#			(COUNTY	PROJE	CT # (STATE)	PROJECT # (FEDERAL)
3-9018.00			Warı	ren			14 9527501R	HSIP 9010 (348)
PROJECT D	ESCRIP1	ION						
Intersectio	n Impro	vement	betwe	en MP 1	L0.5 to 11.5 along US	Highway 231		
		l Right o				<u> </u>		
						ne right of way w	vas acquired in accorda	ance to FHWA regulations
							•	No additional right of way or
relocation assistance were required for this project.								
Condition # 1 (Additional Right of Way Required and Cleared)								
All necessar	right of	way, inc	luding o	control o	of access rights when a	pplicable, have b	een acquired including	રુ legal and physical
possession.	Trial or a	ppeal of	cases m	nay be pe	ending in court but leg	al possession has	s been obtained. There	e may be some improvements
_	_	-		-		· · · · · · · · · · · · · · · · · · ·		physical possession and the
_		_		-				n paid or deposited with the
								ilable to displaced persons
					with the provisions of		WA directive.	
		•			Nay Required with E	• •		
_	-		-	-		_		he proper execution of the
			-	-	-	•		n has not been obtained, but
right of entry has been obtained, the occupants of all lands and improvements have vacated, and KYTC has physical possession and right								
	to remove, salvage, or demolish all improvements. Just Compensation has been paid or deposited with the court for most parcels. Just Compensation for all pending parcels will be paid or deposited with the court prior to AWARD of construction contract							
]					paid or deposited with I		O AWARD OF CONSTRUCT	lion contract
		•					nnlete and/or some na	arcels still have occupants. All
	_				nousing made available		·	
_	-		-		_			necessary right of way will not
				-				paid or deposited with the
			-			-	•	35.309(c)(3) and 49 CFR
	-			_	acquisitions, relocation	•		
	-		=		account construction.		o .	·
Total Number o	f Parcels o	n Project	1	EXC	CEPTION (S) Parcel #	ANTICI	PATED DATE OF POSSESSIO	N WITH EXPLANATION
Number of Par	cels That H	ave Been A	Acquired					
Signed Deed				1				
Condemnation								
Signed ROE Notes/ Comn	ants /I Is	Δddition	al Shoot	t if naces	sary)			
ivotes, comin	101113 (03	Addition	iai Siicei	t ii iicces	sui y j			
LPA RW Project Manager			Right of Way Supervisor					
Printed Nar						Printed Name	N	1ike Russell
Signature						Signature	N	Take / (uscell
Date						Date	0	5/04/2022
	F	Right of \	Way Di	rector			FHWA	
Printed Nar	ne					Printed Name	No Signat	ure Required
Signature		1	2 0		ılly signed by Kelly R.	Signature	as per FI	HWA-KYTC ardship Agreement
Date	2	Kun R.	Ome	Divine Date:	2022.05.05 14:02:30 -05'00'	Date	- Current stew	ardanib Agreement

Date

UTILITIES AND RAIL CERTIFICATION NOTE

Warren County – HSIP 9010 (348)

FD52 114 0231 010-012

Right-Turn Lane at US 231 and Gary Farm Blvd.

Item No. 3-9018.00

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

BGMU - Electric: Overhead and underground lines run parallel to and cross US 231 and Gary Farm Blvd. **BGMU - Water/Wastewater:** Water service lines cross US 231 within the project limits. Sanitary Sewer lines run along the project limits to the north and cross US 231 and Gary Farm Blvd.

Atmos: A 6" Gas line is intended to be left within the project disturb limits (under the proposed pavement). Atmos has reviewed the plans. The contractor **SHALL** contact Atmos prior to beginning excavation on the project. Atmos intends to have a representative on site during excavation.

AT&T: Overhead lines may be present parallel and crossing US 231 and Gary Farm Blvd.

Spectrum: Overhead lines may be present parallel and crossing US 231 and Gary Farm Blvd.

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

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

None.

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

None.

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

None.

UTILITIES AND RAIL CERTIFICATION NOTE

Warren County – HSIP 9010 (348)

FD52 114 0231 010-012

Right-Turn Lane at US 231 and Gary Farm Blvd.

Item No. 3-9018.00

THE FOLLOWING RAIL COMPANIES HAVE FACILITIES IN CONJUNCTION WITH THIS PROJECT AS NOTED					
⊠ No Rail Involved	☐ Minimal Rail Involved (See Below)	☐ Rail Involved (See Below)			

UNDERGROUND FACILITY DAMAGE PROTECTION - BEFORE YOU DIG

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

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

<u>SPECIAL CAUTION NOTE – PROTECTION OF UTILITIES</u>

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

Warren County – HSIP 9010 (348)
FD52 114 0231 010-012
Right-Turn Lane at US 231 and Gary Farm Blvd.
Item No. 3-9018.00

AREA UTILITIES CONTACT LIST

Utility Company/Agency	Contact Name	Contact Information
AT&T – Legacy	Mike Diederich	7555 East Pleasant Valley Rd. Ste. 140 Independence, OH 44131 216-750-0135
Atmos Energy	Ryne White	3275 Highland Point Dr. Owensboro, KY 42303 270-929-1706
Bowling Green Municipal Utilities Electric Division	Chad Spencer	801 Center St. PO Box 10300 Bowling Green, KY 42102 270-782-4333
Bowling Green Municipal Utilities Water & Wastewater	Philip Hunt	801 Center St. PO Box 10300 Bowling Green, KY 42102 270-782-4542
Spectrum Cable	Richard (Mike) Wisotzkey	250 Madison Square Dr. Madisonville, KY 42431 270-619-2429

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.

WARREN COUNTY HSIP 90 10(348) Contract ID: 224425 Page 64 of 148 EA Partners. PLC ITEM NO. 3-9018.00 THIS PROJECT IS ON THE NH SYSTEM COUNTY OF WARREN SEPTEMBER 20, 2021 THE CONTROL OF ACCESS ON THIS PROJECT SHALL BE BY PERMIT Country of Kentucky DEPARTMENT OF HIGHWAYS COUNTY OF WARREN BEGIN CONSTRUCTION STA. 293+60 BEGIN RIGHT OF WAY STA. 294+32.39 END CONSTRUCTION STA, 299+55 END RIGHT OF WAY STA. 298+47.50 MICHAEL VAUGHN, P.E. TTEM NO. 3-9018.00
PROJECT HSIP 9010 (348)
NUMBER: FDS2 114 0231 010-012 LETTING DATE: APRIL 28, 2022 U.S. 231 CAMPBELL LANE HSIP 9010 (348) FD52 114 0231 010–012 THESE PLANS ARE FOR GRADE, DRAIN, & SURFACE DEPARTMENT OF HIGHWAYS Commonwealth of Kentucky LIN, FT. -MILES -LIN, FT. -UN. FT. GEOGRAPH FOR EQUALITIES
-LIN. FT. GEOGRAPH FOR EQUALITIES
NOT INCLUDED
-LIN. FT. RAILROAD GROSSINGS NO.
-LIN. FT. BRIDGES WARREN COUNTY PROPOSED PROJECT LAYOUT MAP PLANS OF SCALE IN MILES LENGTH LIN. FT.

ABOUTED FOR EQUALITIES

NOT INCLUDED

RAILFADD CROSSINGS NO. LIN. FT. LENGTH LIN. FT.

BEBOOTED FOR EQUALITIES

NOT INCLUDED

RAILROAD CROSSINGS NO. LIN. FT. B LIN. FT. 0.113 MILES DUALITIES LIN. FT. LENGTH 595 LIN. FT. U.II. BEDUCTED FOR EQUALITIES NOT INCLUDED RAILROAD CROSSINGS NO. BRIDGES LATITUDE 36 DEGREES 27 MINUTES 13 SECONDS NORTH LONGITUDE 86 DEGREES 25 MINUTES 50 SECONDS WEST GEOGRAPHIC COORDINATES LAYOUS SKETS
PLAN AD PROFILE SKETS
RIGHT OF MAY SUMMARY SKETS
RIGHT OF MAY STRIP MAP SKETS
OBOURTH SKETS
MANIFORMED F PRAFIC SKETS
CORRIBINITE CONFINENCE OF PRAFIC SKETS
CORRIBINITE CONFINENCE SKETS
PROSION CONFINENCE SKETS STANDARD DRAWINGS TPM-203 TPM-204 TPM-207 TPM-207 TTC-115-04 TTS-115-02 TTS-120-02 TTS-120-02 INDEX OF SHEETS
DESCRIPTION DESIGN CRITERIA SHEETS NOT INCLUDED IN TOTAL SHEETS Part of the control o DESIGNED ROSS SECTIONS DESIGN SPECION STATE OF STATE OF STATE OF SERVICE NAA LEVEL OF SERVICE NAA LEVEL OF SERVICE (2009) 124.683 AD PRESENT (2009) 25.400 PW 2000 (2009) 2435 (2029) D 5.532 T 7 5152 MAX. DISTANCE W/O PASSING N/A LEVEL OF SERVICE N/A % RESTRICTED SD N/A RZA, RZB, R9A KR2-R8 R83-R6 R12 R13 X USER: ehackworth DATE PLOTTED: February 25, 2022

Page 65 of 148

WARREN COUNTY HSIP 9010 (348) Contract ID: 224425 ALL ASPHALT MIXTURES SHALL BE ESTIMATED AT 110 LBS. PER SO. YD. PER INCH OF DEPTH, UNLESS NOTED OTHERWISE. ΓI ④ ESTIMATED AT 200 MGAL/MILE GENERAL, PAVING, & DRAINAGE SUMMARY (6) JUNC, BOX TY, B-2 FRAME & PAID FOR UNDER JUNC, BOX SPECIAL ITEM 1653 © ESTIMATED AT 115 LB/SY/IN.
② ESTIMATED AT 0.50 LB/SY (S) 50 TONS INCLUDED FOR MOT WEDGE 599 CU YD ROADWAY EXC. TOTAL EMBANKMENT REFILL TOTAL EMB ASSUMPTIONS FOR SHRINKAGE AND SWELL FACTORS ARE THE CONTRACTORS RESPONSIBILITY. GAS LINE COMMON REFILL TOTAL EXC 3 0.3 ACRES DISTURBED EARTHWORK VOLUMES REMARKS 3-9018.00 TEM NO. DIST. 36 CU YD E 46 CU YD F 82 CU YD 1 553 CU YD 46 CU YD 599 CU YD NOT COUNTY OF WARREN 8 NOTES 23822EC 23952EC EACH **PROJECT PROJECT** 344 446 53 442 442 79 80 80 560 560 681 681 83 NOUCTION BOX TY B ۵ JATOT JATOT 80 + 662 JE INCH D' BOX CON' COBED HOLE EACH .ЯТИЭ 597 + 24 80 + 662 56 2 .ЯТИЭ .ЯТИЭ JONUCTION 80X 8PECIAL EACH SUMMARY 597 + 24 442 442 0.8 314 US 231 69 2 .ЯТИЭ DROP BOX INLET EACH 1585 a H IN IN NO. กร รม 260 560 560 681 189 PIPE DRAINAGE PAVING SUMMARY EACH 1456 CURB BOX PAVING AREAS STORM SEWER PIPE 15 IN 397 521 느 130 CRISSED STONE BASE

CL3 ASPH BASE L.050 PC 64-22

CL3 ASPH BASE L.050 PC 64-22

CL3 ASPH BASE 0.350 PC 64-22

CL3 ASPH SINE 0.350 PC 64-22

CL3 ASPH SINE 0.350 PC 64-22

CL0 ASPH BASE D.350 PC 64-22

CL3 ASPH SINE 0.350 PC 64-22 DESIGN (D)(D) TEM COVER HEIGHT 3.6' TEM 1,25°CL3 ASPH SURF 0,388 PG 64-22
1.5°CL3 ASPH SURP 0,388 PG 64-22
2.25°CL3 ASPH BASE 1,000 PG 64-22
3.25°CL3 ASPH BASE 1,000 PG 64-22
6°CRUSHED STONE BASE
8°CRUSHED STONE BASE SKEW TOTAL PROJECT UNIT TO BID CODE STA 295+50.00 STA 295+65.00 STA 296+95.00 STA 297+49.50 ITEM 3 214 223 388 20071EC 21289ED 24970EC ITEM SHEET NO. **PROJECT** 1218 386 386 298 149 149 23 298 973 325 2 62 35 102 406 228 JATOT 2 386 2298 149 149 23 1218 298 228 973 0.1 184 175 0.9 1349 761 288 288 8 8 4 325 2 62 35 102 406 กร รม LF LF EACH LF LF Ę GENERAL SUMMARY PERFORATED PIPE EDGE DRAIN - 4 IN
INSPECT & CERTIFY EDGE DRAIN
CORED HOLE DRAINAGE BOX CONCRETE - 4 INCH
STANDARD CLIRB AND GUITER DEMOBILIZATION
GEOTEXTILE FABRIC CLASS II 4FOR PIPE)
MAINTAIN & CONTROL TRAFFIC
PORTABLE CHANGEABLE MESSAGE SIGN
TEMPORARY SILT FENCE DESCRIPTION PAVE MARKING - THERMO STOP BAR - 24
PAVE MARKING - DOTTED LANE EXT.
PAVE MARKING - THERMO CURVE ARROW PAVE STRIPING - THERMO - 6 INCH - W PAVE MARKING - THERMO X-WALK - 6 IN PAVE MARKING - THERMO X-WALK - 12 IN TEMPORARY SEEDING AND PROTECTION REMOVE & RELOCATE TRAFFIC SIGN ROADWAY EXCAVATION
WATER (FOR DUST CONTROL) (4)
RIGHT OF WAY MONUMENT TYPE I
WITNESS POST WATER BLASTING EXISTING STRIPE SILT TRAP TYPE A
SILT TRAP TYPE B
SILT TRAP TYPE C
CLEAN SILT TRAP A
CLEAN SILT TRAP C
CLEAN SILT TRAP C
SIDEWALK - 4 IN CONCRETE CLEARING AND GRUBBING (3)
TEMPORARY SIGNS INITIAL FERTILIZER
MAINTENANCE FERTILIZER
SEEDING AND PROTECTION DETECTABLE WARNINGS PIPELINE INSPECTION TEMPORARY MULCH

2726 2775 5952 5953 5963

1005 1015 1016 11140 111

TEM

5990 5992 6510 6542 6565 6565 6566 6568 6572 6572

Page 66 of 148

WARREN COUNTY HSIP 90

Contract ID: 224425 Page 67 of 148

COUNTY OF 11EM NO. SHEET	R2	3-9018,00	WARREN
	SHEET	ON METI	COUNTY OF

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	SHEET IO	348 822	3)
	JTEM NO.	3-9018,00	
	COUNTY OF	WARREN	
	ı		

MANNER UNLESS DIRECTED NOT DISTURB N.G.S. (U.S.G.S.) BENCH MARKS IN ANY THE ENGINEER. 4.6.S. (U.S.G.S.) BENCH MARKS

BEFORE YOU DIG

THE CONTRACTOR IS INSTRUCTED TO CALL 1800-752-5607 TO REACH VY 811 THE CONTRACTOR IS INSTRUCTED TO CALL 1800-752-5607 TO REACH VY 810 THE CALL IS A USE PREACH A LAUGUMENT OF THE CALL ON REACHERS THAT IS NO BISINESS DAYS PRING TO EXCLAVITOR. THE CONTRACTOR SHOULD BE AMARE THAT IOWESS DAYS PRING TO EXCLAVITOR. THE CONTRACTOR SHOULD BE AMARE THAT IOWESS ON EXCHANGE A CALL LIBER OF THE VIEW OF THE CONTRACTOR MAJES. THE CONTRACTOR MAJES OF THE VIEW OF THE CONTRACTOR MAJES AND THE MAGES OF THE MAJES OF

DEPARTMENT OF THE ARMY PERMIT AND WATER QUALITY CERTIFICATION APPROVALS

A DEPARTMENT OF THE ARANT OLD FEMILT, WHICH MAY REQUIRE APPROVAL OF A STATE MEDICAL STATE METERS AND AND ADMINISTRATION OF MATER, REQUIRED THIS PROJECT AT ONE OR HOME COLVIDOS. PREFORM ALL APPLIABLE WORN IN COMPLIANCE WHITH WE COMPRISE MAY DEPART MAD THE APPROVED WATER COLVID CREMITOR WAS OFF OFF THE OLD FEMIL MAD THE MATER COLVID CREMITOR WAS CONSOLORS FALCE AT THE PROJECT SITE. THE OLD PROJECT SITE, THE OLD PROJECT SITE, THE OLD STATE OLD STATE WAS CONTINUED THE PROPERTY. SERVING THE APPROVALL IS PRODUKE, ONLY OFF THE OLD STATEMENT OFF APPROVALL STATEMENT OFF APPROVALLS. WETCH TO MATERS OFF OFF APPROVAL BY THE WAS THE OFF APPROVAL. BY THE WAS THE OFF APPROVAL. BY THE WAS THE

COMPACTION OF ASPHALT MIXTURES

WILL ACCEPT THE COMPACTION OF ASPHALT MIXTURES FURNISHED ON THIS PROJECT BY OPTION B ACCORDING TO SUBSECTIONS 402.03.02 AND 403.03.10 OF THE STANDARD SPECIFICATIONS.

GENERAL NOTES

EDGE KET HIS WORK PICLUES CUTTING OUT THE EXISTING ASPIALT SUPERCE TO A MINIMUM DEPTH AND WIDTH AS DETALED ELSEWHEE IN THE PLASS SOT THAT THE NEW SUPPLIES HAVE THEN THO THE STSTIME SUPERCE. THE CONTINGACT WINT PRICE BID LINKAR FOOT PERF METERORY EVEN INCLUDES ALL NECESSARY TO REPEORU THE WORK AND DISPOSE OF THE PROVICES ASPIALL MATERIALS.

ANY DAMAGES TO EXISTING SIGNS, OUTSIDE THE CONSTRUCTION LIMITS, SHALL BE REPAIRED AT THE CONTRACTORS SPENSES, ALL RESTINGS OFFIA AT MED THE PROJECT MILL MED TO BE REMOVED AND RESTINGLISE, AS DIRECTED BY THE ENGINEEN. CONTRACT SHALL INCLUDE A UNIT PRICE PER EACH FOR PERMOVE AND RELOCATE SIGNS.

EXISTING SIGNS

EXISTING LANDSCAPE MATERIAL

DO NOT DISTURB LANDSCAPE PLANTS UNLESS ABSOLUTELY NECESSARY.

DO NOT DISTURB ANY PLANTS WITHOUT PRIOR APPROVAL OF THE PROJECT ENGINEER.

THE PROJECT ENGINEER SHALL NOTIFY THE DISTRICT AGRONOMIST FOR POSSIBLE DEPARTMENT SALVAGE OF ANY PLANTS NEEDING REMOVAL.

STANDARD DRAWINGS

STANDARD DRAWINGS ARE NOT ATTACHED TO THESE PLANS. A STANDARD DRAWING NOW ONE MEADMALL SUPPLEMENTAL BOOK MAY BE OBTAINED FROM THE POLICY SUPPORT BRANCH OF THE DEPARTMENT OF ADMINISTRATIVE SERVICES IN FRANKFORT, NY. AT (502) 564-3610

EXISTING UTILITIES

ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR IS ADVISED THAT THE UTILITY LOCATIONS AND ELEVATIONS SHOWN ON THE PLANS ARE APPROXIMATE.

NOTES GENERAL WARREN COUNTY HSIP 9010 (348) Contract ID: 224425 Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS COUNTY OF 595+00 EXIST. UTILITY EASE. TEM NO. 3-9018.00 STA. 292+00 TO STA. 295+00 US 231 CAMPBELL LANE WARREN SCALE: 1°= 20'
TNERS, PLC COUNTY OF WARREN ROJECT HSIP 9010 (348) _ 2<u>03</u>.23_ DET. WARN. BEGIN CONSTRUCTION STA, 293+60 + |¥ |T LT. STA. 294+23 TO STA. 295+00 CONST. 107 LF OF LONGITUDINAL EDGE KEY η η η CONSTRUCT SIDEWALK L RAMP DET. WARN. STATION TO STATION SY 294+37 - 295+00 RAMP 9 Σ¥ GWT TO CAS -STATION TO STATION 294+33 - 295+50 λ CONSTRUCT STANDARD CURB & GUTTER LT STATION TO STATION STATION TO STATION 294+24 - 295+00 GREENWOOD MARKETPLACE IILLC 294+37 - 295+00 GREENWOOD PLAZA LLC ELECTRIC & COMMUNICATIONS -1|1-7.6.=537.40 = = = SAN = = = = ⊥ ww T ⊥ T SPECTRUM CABLE 250 MADISON SQUARE DRIVE MADISONILLE, KY 42431 (270) 619-2429 RICHARD (MIKE) WISOTZKEY 592+00 BOWILNG CREEN MANGIPAL UTILITIES WATER AND WASTE WATER ENGINEERING BOI CENTER STREET A. BAY 100 BOWILING GREEN, KY 42102 PILLIP HINT BOWING CREEN MUNICIPAL UTILITIES ELECTRIC DIVISION BOLICENTER YISTON P.O. BOWING CREEN, KY 42102 CZOV 182-4333 CAD SFEIGER UTILITY OWNERS ■ BEFORE YOU DIG ORIGIN OF LEVELS ELEVATIONS WERE DERIVED FROM GPS METHODS AND ARE ADJUSTED TO THE NAVDBB VERTICAL DATUM.GEOID MODEL WAS GEOIDIZE AT&T - LEGACY TSSE EAST PLEASANT VALLEY ROAD SUJTE 140 INDEPENDENCE, OH 44131 C216, 750-0135 MIKE DIEDERICH ATMOS ENERGY 3275 HIGHLAND POINT DRIVE OWENSBORO, KY 42303 (270) 929-1706 RYNE WHITE RIGHT OF WAY CALLS

(A) N20'20'32"W 10.00'

(B) 569'39'28"W 18.78'

(C) N20'32'25"W 20.00' PATCK TERNINAL TERNINAL 000000000000000 亦 亦 亦 亦 亦 EMH HMH 0 0 0 • FRAME FRAME SHED SHED FRAME CAMPORAL Z B.M. NO.4 CONVENTIONAL SIGNS 蜒 • 0 E ≱ ELECTRIC DUCT ORDER DUBLECT BRIGHT OF CABLE SANITARY SERRE (WITH MANHOLE) STORM SEWER (WITH MANHOLE) DIRECT BURLAL ELECTRIC CABLE DIRECT BURLAL ELECTRIC CABLE OVERBELD WIRE TRAFFIC LIGHTS JOINT POWER & TELEPHONE POLE TELEPHONE & TELEGRAPH POLE ANCHOR, POWER OR TELEPHONE RAILROAD FENCE (CONTROLLED ACCESS) FENCE (EXCEPT STONE AND HI EXISTING R/W MARKER RIGHT OF WAY MONUMENT EXISTING/PROPOSED SURVEY LINE
GRADE LINE
GROUND LINE
CONDIATY LIMITS
EXIST, RIGHT OF WAY & PROPERTY LIMITS
EXIST, RIGHT OF WAY & PROPESSED RIGHT OF WAY MONUMENT INTERMITTENT STREAM OR DITCH REGULATED FLOODWAY UTILITY TEST HOLE TELEPHONE MANHOL ELECTRIC MANHOLE BLUE LINE STREAN STUB TELEPHONE SWAMP OR MARSH AKES OR PONDS EXISTING ROAD STONE FENCE HEDGE FENCE PIPE CULVERT BENCH MARK POWER POLE STUB POWER WATER MAIN DUARRY SITE NORTH POINT TREE LINE CULVERT SPRINGS TREES BRIDGE

Page 68 of 148

WARREN COUNTY HSIP 90 0 348 5 Contract ID: 224425 25.788 537.84 537.84 3-9013.00 STA 292+00 TO STA 295+00 ITEM NO. US 231 CAMPBELL LANE COUNTY OF 32.788 32.788 HORIZONTAL r = 20. 88.752 81,852 65.85.49 550 524 520 548 526 FILE NAME: J.711903 - 2019 D3 INTERSECTIONS HSIPROADWAYPROFILES/PROFILE_29200.DGN USER: PLOTTED: February 25, 2022 DATE PLOTTED: February 25, 2022 E-SHEET NAME:

Page 69 of 148

Page 70 of 148

WARREN COUNTY HSIP 90 Q(348) Contract ID: 224425 00-01 3-9013.00 ITEM NO. STA 295+00 TO STA 300+00 536 534 US 231 CAMPBELL LANE COUNTY OF 297+26 CAL VPI 9434 IS. IORI IERT 22 .11.71 E. E. DAT PLOTT BELOW 527.90 528.25 IZ INCH Z Z LENE 532,32 1412 | 294+492 | 412 |-8 | 17 | XOB | NOITJNUL 7: :::7 532,90 t:::|X 853,48 14.81 11: 50.452 : [:: T. 6. 533,92 (REMOVE TOP PHASE) 91A - 29 * 449 60 REMOVE: 10PF CONST. JUNCTION BOX TY. B. CONST. JUNCTION BOX TY. B. 72.952 72.952 **□**:/≡ :1: :1:: PED 51.252 :PLOTTE BELOW: SAL S96+95 00 CONST. CBL. ΩC 27.25.2 27.25. EEN 557.24 514, 296-47 PLOTTED AT ID BELOW DATUME 5.5 0.0 04.952 535.83 7. 11... 1780 536, 17 536, 17 EMOVE STA 295+65 00 CONST. CBI - 18:95- V313 00 EB 88,888 (REMOVE) SLOT DRAIN IZ RCP T.G. 536.18 9.79 PAC. 295+17.00. PS.788 5 550 530 520 546 528 526 524 552 548 FILE NAME: J.11903 - 2019 D3 INTERSECTIONS HSIP/ROADWAY/PROFILES/PROFILE_29500,DGN USER: twright DATE PLOTTED: February 25, 2022 E-SHEET NAME:

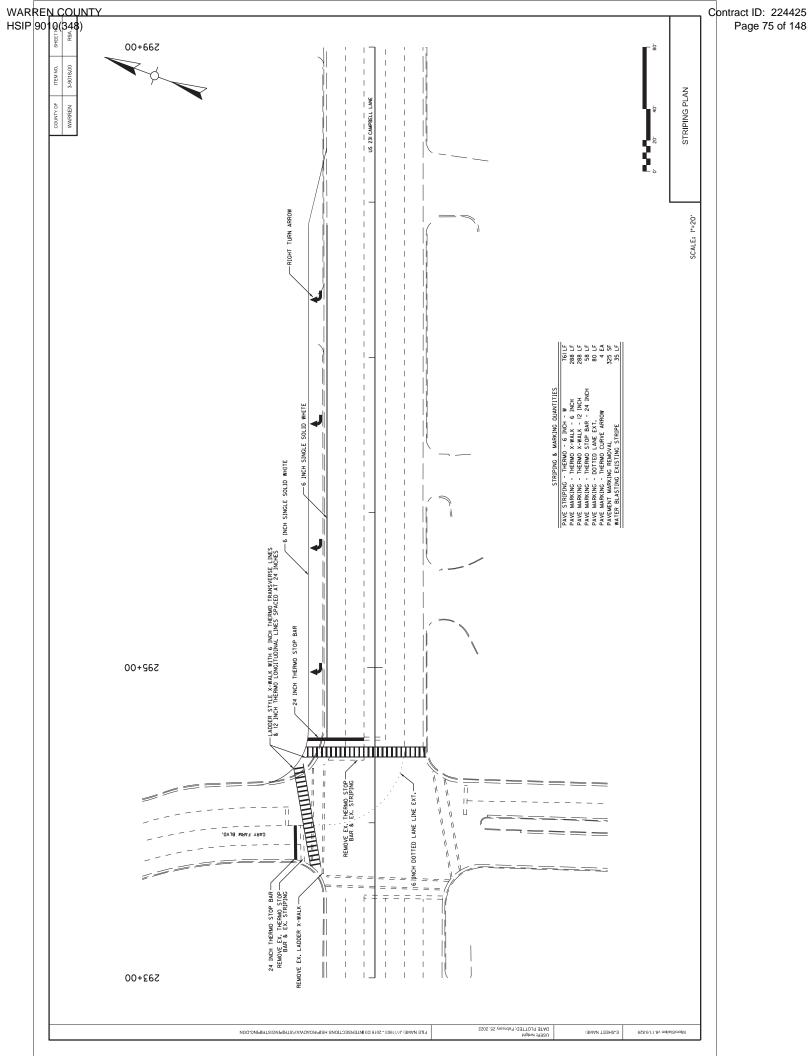
Page 71 of 148

WARREN COUNTY HSIP 90 Q(348) DB 458 PC 605 DB 976 PC 637 PB 4 PC 60 PB 38 PC 409-410 SHEET ITEM NO. 3-9018,00 "INCLUDES HAZARDOUS WASTE (UST - UNDERGROUND STORAGE TANKS) OF WAY SUMMARY WARREN COUNTY OF AREA FROM DEED RIGHT SOURCE OF TITLE DB 430 PG 12 PB 31 PG 121-125 BUILDINGS ACOUIRED CODE
C - COMMERICAL
F RESIDENTIAL
F - FRAN
S - STORAGE SEWER SYSTEM BULLDINGS ACOUIRED NUMBER
M BY PROJECT NUMBER
YES NO C R F S 9 SYSTEM TYPE EXCESS PURCHASED PORTION REMAINING ACRES SO. FT. 9,765 S0. FT. ACRES RIGHT OF WAY SUMMARY SO. FT. ACRES AREA SEVERED ACRES SO. FT. THE CONTROL OF ACCESS ON THIS PROJECT SHALL BE BY PERMIT PERMANENT TEMPORARY
SO. FT. SO. FT. PERMANENT R/W ACOUIRED ACRES SO. FT. 1,971 S0. FT. TOTAL AREA OF TRACT ACRES 9,81 (AREA FROM PLAT) PERMANENT R/W ACOUIRED + AREA SEVERED = TOTAL AREA OF TRACT. GREENWOOD PARK CHURCH OF CHRIST PARCEL NO. DATE PLOTTED: February 25, 2022 FILE NAME: J:/11903 - 2019 D3 INTERSECTIONS HSIP/ROADWAY/SUMMARR_SHTS/ROW SUMMARY.DGN Microstotion va.II.9.829 E-SHEET NAME:

Contract ID: 224425 Page 72 of 148 WARREN COUNTY HSIP 90 19 (348) Contract ID: 224425 Page 73 of 148 539+00 RIGHT OF WAY STRIP MAP WARREN EXIST, UTILITY EASE. SCALE: 1'=20' -85 65/ 999 595+00 - 568'10'52'E 37.25' X 3 X X X X X X IXXXXXXXXXXXXX PLAZA LLC \$ 293+00

WARREN COUNTY HSIP 9010 (348) Contract ID: 224425 US 231 TO GARY FARM BLVD. RADIUS 00+962 ITEM NO. ELEVATION DEVELOPMENT COUNTY OF WARREN SCALE: 1"=10' 25 00° 25 00° VPI 0+18 00 TB JBI -| OM | ========== ТВ İ 593+00 FILE NAME: J.71903 - 2019 D3 INTERSECTIONS HSIPROADWAY/PLAU_SHEETS/RADIUS DETAIL SHEET. DGN USER: twight DATE PLOTTED: February 25, 2022 E-SHEET NAME:

Page 74 of 148



MAINTENANCE OF TRAFFIC SPECIAL NOTES

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R10	3-9018.00	WARREN	
SHEETIN	'ON WELL	GOUNTY OF	

PAVEMENT DROP-OFF 15. TRAFFIC BRIDGE TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE MANUAL ON UNIFORM CONTROL DEVICES MULTOD, THE STANDARD SPECIFICATIONS. FOR ROAD AND CONSTRUCTION AND THE STANDARD DRAWINGS, CURRENT EDITIONS.

ALL GRADING AND MESCESARP ORBANGE UNLESS. A BID TIEM FOR DETOUR CONSTRUCTION IS INCLUDED FOR THE TEAMORANY ROLDBAY AND REMOVAL. THEREOF, WHEN IT IS NO LONGER WEEDED. IF A BID TIEM FOR DETOUR CONSTRUCTION IS NOCLUDE. GRADING AND DRAINAGE WILL BE PAID FOR IN THE BID TIEM "DETOUR CONSTRUCTION".

EXCEPT FOR THE ROADWAY AND TRAFFIC CONTROL BID ITEMS LISTED, ALL ITEMS OF WORK NECESSARY TO MANTALAN BAG CONTROL TRAFFIC MILL BE RAID AT THE LUMP SIJN BID PRICE TO "MANTALAN BAG CONTROL TRAFFIC AS SET FORTH IN THE CURRENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION WILESS OTHERWISE PROVIDED FOR IN THESE WOTES. THE LUMP SIDN BID TO WANTAIN AND CONTROL TRAFFIC SHALL ALSO INCLUDE BE BUT IS NOT LIMITED TO, THE FOLLOWING TIEMS AND OPERATIONS.

5

ALL LABOR AND MATERIALS NECESSARY FOR CONSTRUCTION AND MAINTENANCE OF TRAFFIC CONTROL DEVICES AND MARKINGS.

ALL FLACPERSONS AND TRAFFIC CONTROL DEVICES SICH AS, BUT NOT LIMITED TO, TLASHERS, SIGNS BARRICADES AND VERTICAL PANELS, PLASTIC DAMAS STEEL DRUMS WILL NOT BE PERMITTED AND COMES NECESSARY FOR THE CONTROL AND PROTECTION OF VERTICAL AND PROEDERINA TRAFFIC AS SPECIFIED IN THESE NOTES, THE PLANS, THE MAUTCO OR THE ROKINEERA.

ANY TEMPORARY TRAFFIC CONTROL ITEMS, DEVICES, MATERIALS AND INCIDENTALS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR WHEN NO LONGER NEEDED.

THE CONTRACTOR SALL MANTANIN TWO MESTEDION THROUGH LAKES WITH A MINIMAL LAKE MIDTH OF THE DISCRETION OF THE WORLD AND THE DISCRETION OF THE ENGINEER, PROVIDED ADGOLATE SIGNING AND BE FLAGERSON ARE AT THE LOCATION. THE ENSTBOUND THROUGH LAKES AND THE CENTER TURN LAKE SHALL NOT BE DISTURBED.

THE CONTRACTOR SHALL COMPLETELY COVER ANY SIGNS, ETHER EXISTING, PERMANENT OR THE CURRENT TRAFFLED PHASING, AND SHALL MAINTH THE COVERING UNIT RESIGNS ARE APPLICABLE OR ARE REMOVED.

IN GENERAL, ALL TRAFFIC CONTROL DEVICES SMALL BE PLACED STARTING AND PROCEEDING IN THE DIRECTION OF THE FLOW OF TRAFFIC.

THE DIRECTION OFPOSITE THE FLOW OF TRAFFIC.

THE ENGINEER AND THE CONTRACTOR, OR THEIR AUTHORIZED REPRESENTATIVES, SHALL REVIEW THE SIGNING BEFORE TRAFFIC IS ALLOWED TO USE ANY LANE CLOSURES, CROSSOVERS OR DETOURS, ALL SIGNING SHALL BE APPROVED BY THE ENGINEER BEFORE WORK CAN BE STARTED BY THE CONTRACTOR.

IF THE CONTRACTOR DESIRES TO DEVLATE FROM THE TRAFFIC CONTROL SCHOOL OF CONSTRUCTION SCHEDULE CULLINED IN THESE PLANS AND THIS PROPOSAL. HE SHALL PREPARE IN A LITEMATE PLAN AND PRESENT IT IN WRITING TO THE ENGINEER. THIS ALLEMATE PLAN AND ENGINEER, THIS THERM THE TAX OF THE PROPEN AND THE PROPOSAL OF THE DIVISIONS OF TRAFFIC, DESIGN, AND CONSTRUCTION, AND THE FEDERAL HIGHMAY ADMINISTRALION, WHERE APPLICABLE. IF TRAFFIC SHOULD BE STOPPED DUE TO CONSTRUCTION OPERATIONS AND AN EMERGENCY VARIETIES ON AN OFFICIAL LEMERGENCY RIAN ARRIETS. AT THE RECENT, HICK OFFICES AND THE ANSIGN FOR THE PASSAGE OF THAT VEHICLE AS DUJISIONS FOR THAT VEHICLE AS DUJISIONS FOR THE PASSAGE OF THE PASSAGE

ALL SIGNS WILL BE PROVIDED BY THE CONTRACTOR AS REQUIRED BY STANDARD DRAWINGS AND THE MATCD. TEMPORARY SIGNS SHALL BE PAID FOR BY THE SQUARE FOOT UNDER THE BID ITEM "TEMP SIGNS." THIS QUANTITY SHALL INCLUDE SIGN MOUNTING HARDWARE AND POSTS.

THE CONTRACTOR'S VEHICLES SHALL ALWAYS MOVE WITH AND NOT AGAINST THE FLOW OF TRAFFIC. VEHICLES SHALL WHISE AND LEAVE WORR AREAS IN A MANMER THAT WILL NOT BE HAZARODIS TO OR INTERFERE WITH NORMAL TRAFFIC FLOW. VEHICLES SHALL NOT PARK OR STOP EXCEPT WITHIN WORR AREAS DESIGNATED BY THE ENGINEER. ÷

CROSS, EXCEPT ဥ EXPECTED A PAVEMENT EDGE THAT TRAFFIC IS NOT SHOULD BE TREATED AS FOLLOWS: LESS THAN 2 INCHES - NO PROTECTION REQUIRED. WARNING SIGNS SHOULD BE PLACED IN ADVANCE AND THROUGHOUT THE DROP-OFF AREA.

2 TO 4 INCHES - PLACE PLASTIC DRUMS, VERTICAL PANELS OR BABRIALOZES EVERY 100 FEET ON TANGEN'S SCUINDES FOR SPECISOS OF SOLVILES PER MOUND OR GREATEN. COMES MAY BE USED IN PLACE OF PLASTIC DRUMS, PANELS, AND BARRICADES DURING DAYLIGHT HOURS, FOR TANGEN'S ESCRIPONS MITS PRED SENDING DAYLIGHT HOURS, POR CHROVES, DEVICES SHAULD BE LACED EVERY SO FEET. SPACING ON TAPERED, SECTIONS SHOULD BE IN ACCORDANCE WITH THE SPACING ON TAPERED SEC MUTCD, CURRENT EDITION. GEGLTEN THAN A INCHES - POSITIVE SEPARATION ON REDGE WITH 3.1 OF LATTER SLOPE WEEDED. IF THERE IS 5 FEET ON WORE DISTANCE BETWEEN THE EDGE OF PAVEMENT AND DROP-OFF. DRUMS, PANELS, OF BARRICADES MY BE USED, IF THE PROPO-OFF IS GREATER THAN IZ DRUMS, POSITIVE SEPARATION IS STRONGLY ENCORAGED. IF CONCRETE BARRIERS ARE USED SPECIAL REFLECTIVE DRUGES OF STRAND BURN LIGHTS SHOULD BE USED FOR OVERHICH INSTALLATION.

FOR TEMPORARY CONDITIONS, DROP-OFFS GREATER THAN 4 INCHES MAY BE PROTECTED WITH PLASTIC DRUMS, VERTICAL PANELS, OR BARRICADES FOR SHORT DISTANCES DURING DAYLIGHT HOURS WHILE WORK IS BEING DONE IN THE DROP-OFF AREA.

LESSER TREATMENTS THAN THOSE DESCRIBED ABOVE MAY BE CONSIDERED FOR LOW-VOLUME LOCAL STREETS.

HAS PAYMENT WILL BE ALLOWED FOR DGA USED FOR WEDGING. A QUANTITY OF 50 TONS BEEN INCLUDED FOR BIDDING PURPOSES. 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 TIMES. ₽.

LANE CLOSURES 4.

WHEN CONSTRUCTION ADJACENT TO THE EDGE OF PAVENENT WITHOUT POSITIVE SEPARATION IS IN PROPRESS NOT LANK CASCHES SHALL BE CLOSSED. LANK CLOSSHES SHALL BE ALLONED ONLY DIRTHY. HOURS OF LANK CLOSSHEY SHALL BELOW, ADVANCE WARNING SIGNING, VARIABLE MESSAGE SIGNS, BARRICARES, ETC.) IN ACCORDANCE WITH THE WUITCD AND STANDARD SPECIFICATIONS. IN SEQUIRED AT ALL LANK CLOSHER LOCATIONS. NO LANK CLOSHES ARE PERMITTED DURING HOLINAY ON SPECIAL EVENTS, AS DESCRIBED BELOW.

IF LANE CLOSURES EXCEED THE HOURS OF LANE CLOSURE OPERATIONS, LIOUIDATED DAMAGES WILL BE ASSESSED AT THE RATE OF %,000.00 PER HOUR.

ALL LANE CLOSURES SHALL BE APPROVED BY THE ENGINEER PRIOR TO WORK COMMENCING.

HOURS OF LANE CLOSURE OPERATIONS 5.

MIDNIGHT - 6:00 AM & 8:00 PM - MI MIDNIGHT - 6:00 AM & 8:00 PM - MI MIDNIGHT - 6:00 AM & 8:00 PM - MI MIDNIGHT - 6:00 AM & MICONIGHT - 6:00 AM CLOSURES PERMITTED CLOSURES PERMITTED MIDNIGHT MIDNIGHT MIDNIGHT NO LANE C MON. TUE. WED. THR. FRI. SAT.

HOLIDAYS AND SPECIAL EVENTS

SPECIAL EVENTS WHEN LANE LISTED BELOW ARE DATES AND TIMES FOR HOLIDAYS AND CLOSURES WILL NOT BE PERMITTED:

MEMORIAL DAY WEEKEND INDEPENDENCE DAY WEEKEND LABOR DAY WEEKEND THANKSGIVING HOLIDAY CHRISTMAS HOLIDAY APRIL 15 - 17, 2022 MAY 27 - 30, 2022 MULY 2 - 4, 2022 SEPTEMBER 2 - 5, 2022 NOVEMBER 24 - 27, 2022 DECEMBER 24 - 26, 2022 FITURE MOIDAY AND SPECIAL EVENTS DATES WERE LAME CLOSURES WILL NOT BE PERAITTED SHALL BE DETENUINED BY THE DEPARTMENT IF NECESSARY, COMPANDAGE TO ABOVE DATES. THE CONTINGATION IS THATH AN MINIMAL OF ABOVED THE TOWNER WAY, WITH A MINIMAL OF BROKEN MAY, WITH A MINIMAL OF BROKEN WILLS OF DATES OF A DATE OF A DATE OF THE THAT THE ENGINEER PEELS WOUND BE DETRIMENTAL TO TRAFFIC FOR SPECIAL OR UNUSUAL DAYS NOT

LANE CLOSURES (LONG-TERM FOR MAINTAIN & CONTROL NO DIRECT PAYMENT WILL BE MADE FOR LANE CLOSURES. ALL I OR SHORT-TERM) WILL BE INCIDENTAL TO THE LUMP SUM ITEM 7.

COVERED ABOVE.

CONSTRUCTION SCHEDULE

CONSTRUCTION UP TO THE TOP LAYER OF BASE SHALL BE COMPLETED WITHIN 30 CALENDAR DAYS.

MAINTENANCE OF TRAFFIC SPECIAL NOTES

E-SHEET NAME:

928 9.11.8v notistiZorotiV

NOTES

CONTROL

EROSION

SHEET 3-9018,00 ITEM NO. WARREN COUNTY OF

NOTES CONTROL EROSION

CUBIC 3,600 9F A VOLUME RETAIN 10 SIZED SILT CONTROL DEVICES SHALL B DISTURBED CONTRIBUTING ACRE. ALL PER

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS TO MINIMIZE THE AMOUNT OF DISTURBED GROUND DURING EACH PHASE OF CONSTRUCTION. THE CONTRACTOR SHALL COMPUTE THE VOLUME NECESSARY TO CONTROL SEDIMENT DURING EACH PHASE OF CONSTRUCTION. AS WORK PROCEEDS, SILT TRAPS MAY BE ADDED OR REMOVED IN ORDER TO ACHIEVE THE BEST MANAGEMENT PLAN. THE REQUIRED VOLUME AT EACH ADDED SILT TRAP SHALL BE COMPUTED AS UP GRADIENT CONTRIBUTING AREAS ARE DISTURBED OR ARE STABILIZED TO THE SATISFACTION OF THE ENGINEER. THE REQUIRED VOLUME CALCULATION FOR EACH SILT TRAP SHALL BE DEFERMINED BY THE CONTRACTOR AND VERFIED BY THE ENGINEER. THE REQUIRED VOLUME AT EACH SILT TRAP AMOUNTS:

EROSION 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),
THE USE OF TEMPORARY MULCH IS ENCOURAGED.
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 FOOD PER LINEAR FOOT OF SILT FENCE.
UP GRADIENT AREAS THAT HAVE BEEN PROTECTED BY SILT TRAPS (ACRES),

IF A SILT BASIN IS NOT USED THEN ONE SILT TRAP TYPE A, ALTERNATE NUMBER 2 OR SILT TRAP TYPE B SHALL ALWAYS BE PLACED AT THE MOST REMOTE DOWNSTREAM COLLECTION POINT PRIOR TO DISCHARGING INTO A BLUE LINE STREAM OR ONTO AN ABDJACENT PROPERTY OWNER. WHERE OVERLAND FLOW EXIST, A SILT FENCE OR OTHER FILTER DEVICES MAY BE USED OR THE OVERLAND FLOW MAY BE DIVERTED TO ONE OF THE AFOREMENTED SILT BASIN OR TRAPS. DEVICE THE THE EROSION CONTROL PLAN SHALL BE ANNOTATED AS THE WORK PROCEEDS
BY THE CONTRACTOR TO DETAIL THE SELECTION OF EACH EROSION CONTROL DEV
USED AND THE VOLUME PROVIDED BY EACH SILT TRAP IN ACCORDANCE WITH THE
DOCUMENTATION PROCEDURES ESTABLISHED BY THE DIVISION OF CONSTRUCTION.

THE EROSION CONTROL PLANS DO NOT CONSTITUTE A BMP BY THEMSELVES. THEY PROVIDE A STARTING POINT FOR THE CONTRACTOR AND SECTION ENGINEER TO DEVELOP THE BMP ACCORDING TO SECTION 213.03.01 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE SUPPLEMENTAL SPECS EFFECTIVE WITH THE OCTOBER, 2004 LETTING.

ANY AND FUNCTIONING PRIOR TO AREA. SHALL BE IN PLACE / WITHIN A DRAINAGE EXCAVATION OR DISTURBANCE

THE CONTRACTOR SHALL BE REQUIRED TO CLEAN OUT (REMOVE SEDIMENT FROM) SILT TRAPS AND SILT FENCES WHENEVER THEY BECOME ONE- HALF FULL AND PROPERLY DISPOSE OF THE MATERIAL AT SITES APPROVED BY THE SECTION ENGINEER.

EROSION CONTROL MEASURES EMPLOYED BY THE CONTRACTOR WILL BE UNIOUE TO THE PROJECT AND WORK CONDITIONS AND SHALL BE APPROVED BY THE SECTION ENGINEER. THE DEVELOPMENT AND UTILIZATION OF THESE MEASURES WILL BE RECORDED AS PART OF THE BMP, KEPT ON SITE, AND AVAILABLE FOR PUBLIC INSPECTION.

WARREN COUNTY HSIP 90 Q(348) Contract ID: 224425 300+00 **∄** ⊚ 3-9018.00 CONTROL LEGEND TEM NO. **EROSION CONTROL PLAN 4** 🗓 🖟 COUNTY OF DISTURBED DRAINAGE AREA SILT FENCE TEMPORARY SILT DITCH OVERLAND SHEET FLOW PROPOSED EASEMENT SILT TRAP TYPE C SILT TRAP TYPE B CARMET BOWLING GREEN LLC DISTURBED DRAINAGE AREAS SCALE: 1"=20' 30° RCP CAREC 13 LLC HJ3 PROPERTIES LLC 00+968 DDA 2--||-/п ||/ п 562.40 294+00 USER: twright DATE PLOTTED: February 25, 2022 ess.e.ff.8v nottsteoroiM

Page 79 of 148

WARREN COUNTY HSIP 90 10 (348) Contract ID: 224425 4 3-9018,00 ITEM NO. COORDINATE CONTROL CONSTRUCTION 299+55 WARREN 300+00 SCALE: 1"=100" STA. 297+26 US 231 CAMPBELL LN.= STA. 10+00 ENTR. 297+26 LT. 595+00 the Coordinates for Primary Horizontal Control were determined from Global Positioning System (GPS) methods. Coordinates are based on Kentucky State Plane Coordinate System (Single Zone) NAD83 and in U.S. Survey Feet. No Project Grid Factor was determined for the project area. Elevation were derived from GPS methods and are adjusted to NAVD88 Vertical Datum. Geoid model used was Geoid12B. COORDINATES ELEVATIONS 292+00 PCB 292+00,00 BEGIN CONST OF PROJECT BASIS OFFSET 41.74 N/A N/A 294+54.66 N/A N × COORDINATE CONTROL POINTS ELEV. (Z) 541.39 537.78 543.66 3506647.60 4720688.02 3507002.37 4721621.95 NORTH (Y) EAST (X) 4722385.22 State Plane Coordinate EAST (X) 4722322.02 4722661.33 WAY MONUMENT POINTS 4722356.59 4722682.60 4722839.84 ENTR. 297 + 26 LT. CENTERLINE 3507291.38 NORTH (Y) 3507397.79 3507383.95 3507496.93 US 231 CENTERLINE 3507499.48 State Plane 3507504.45 IP W/CAP IP W/CAP IP W/CAP POB STA. 292+00.00 BEGIN CONSTRUCTION END CONSTRUCTION and OFFSET DESCRIPTION DESCRIPTION 298+05.83, 50' Left 297 + 85.00, 55' Left STA. 9+00.00 294+60, 55' Left RIGHT OF STATION C. P. 4 C.P. 5 C.P. 3 DATE PLOTTED: February 25, 2022

Page 80 of 148

WARREN COUNTY HSIP 90 Q(348) Contract ID: 224425 540 540 540 530 STA, 295+50 TO STA, 296+95 ITEM NO. COUNTY OF WARREN REMOVE DBI (TOP PHASE) JUNC. BOX TY. B-2 FRAME & LID CURB BOX INLET TY. A DESIGN PH LEVEL 2 oţ MAX. COVER HEIGHT PIPE DRAINAGE SHEET -40 STORM SEWER PIPE -30 15.851. -55 14084 -65 -12 540 540 540 USER: twright DATE PLOTTED: February 25, 2022 FILE NAME: JA11903 - 2019 D3 INTERSECTIONS HSIPIROADWAY/PIPE_SHEETS/PIPE_SHEET_29550.0GN E-SHEET NAME: esse.ff.8v noilsteoroiM

Page 81 of 148

WARREN COUNTY HSIP 9010(348) Contract ID: 224425 540 530 STA 297+49.50 TO 299+49.50 ITEM NO. COUNTY OF WARREN JUNC. BOX TY. B-2 FRAME & LID CORED HOLE IS INCH REMOVE DBI (TOP PHASE) JUNC. BOX TY. B-2 DESIGN PH LEVEL oŧ MAX. COVER HEIGHT PIPE DRAINAGE SHEET F. E. 530.05 CONST. JUNCTION BOX Y BI NO. 2 (III 55 55) 46,67 LT OF STA. 2994 49,50 -40 Ex. 6 645 LINE STORM SEWER PIPE -30 -55 -65 -12 540 530 USER: twright DATE PLOTTED: February 25, 2022 FILE NAME: J.713903 - 2019 D3 INTERSECTIONS HSIPROADWAY/PIPE_SHEETS/PIPE_29749_60.DGN E-SHEET NAME: esse.ff.8v noilsteoroiM

Page 82 of 148

WARREN COUNTY HSIP 90 Q(348) Contract ID: 224425 Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS COUNTY OF STA.293+00 F 3-9018.00 ITEM NO. DT WARREN D 10 WARREN PROJECT HSIP 9010 (348) NUMBERS FD52 114 0231 010-012 ROCK STA.292+00 EMB COM GRAN. EMB. EMB. BENCH REFILL EX. 6' GAS 1 INC. 8**4**5. USER: twight DATE PLOTTED: February 25, 2022 FILE NAME: J7711903 - 2019 D3 INTERSECTIONS HSIP/WORKING/XSEC/P_XSEC.DGN ess.e.ff.8v noilesconoiM

Page 83 of 148

WARREN COUNTY HSIP 9010(348) Contract ID: 224425 STA.294+50 F 3-9018.00 ITEM NO. DT D 10 COUNTY OF WARREN ROCK 293+50 EMB STA. COM GRAN. EMB. EMB. BENCH REFILL ക്ക 90.523 EX. 6 CAS CINE EXT. BEECT. FINE X 4 6 × 44 346 SURF. SUR SUR USER: twright DATE PLOTTED: February 25, 2022 FILE NAME: J.111903 - 2019 D3 INTERSECTIONS HSIP/WORKING/XSEC/P_XSEC.DGN E-SHEET NAME: ess.e.11.8v noites2onoiM

Page 84 of 148

Contract ID: 224425 .296+00 F 3-9018.00 ITEM NO. DT STA. D 10 WARREN ROCK STA.295+00 EMB COM GRAN. EMB. EMB. BENCH REFILL Z9 SSS 900 ¥4.6 SURF DT. USER: twright DATE PLOTTED: February 25, 2022 FILE NAME: J7/11903 - 2019 D3 INTERSECTIONS HSIP/WORKING/XSEC/P_XSEC.DGN : SHEET NAME: 628.6.11.8v noite/2oroiM

Page 85 of 148

WARREN COUNTY HSIP 90 0 (348) Contract ID: 224425 STA.297+50 F 3-9018.00 ITEM NO. DT DI 10 WARREN ROCK .296+50 EMB STA. COM GRAN. EMB. EMB. BENCH REFILL P F F X44 ¥4.6 USER: twright DATE PLOTTED: February 25, 2022 FILE NAME: J7/11903 - 2019 D3 INTERSECTIONS HSIP/WORKING/XSEC/P_XSEC.DGN ess.e.ff.8v notistSoroiM

Page 86 of 148

WARREN COUNTY HSIP 90 Q(348) Contract ID: 224425 STA.299+00 F 3-9018.00 ITEM NO. DT D 10 WARREN ROCK STA.298+00 EMB COM GRAN. EMB. EMB. BENCH REFILL ക്ക 12.002 33183 P P C × 44 346 SURF. SUR SUR USER: twright DATE PLOTTED: February 25, 2022 FILE NAME: J7/11903 - 2019 D3 INTERSECTIONS HSIP/WORKING/XSEC/P_XSEC.DGN E-SHEET NAME: ess.e.11.8v noites2onoiM

Page 87 of 148

WARREN COUNTY HSIP 90 Q(348) Contract ID: 224425 STA.300+00 F 3-9018.00 ITEM NO. DT DI 10 WARREN ROCK STA.299+50 EMB COM GRAN. EMB. EMB. BENCH REFILL ക്ക X44 USER: twright DATE PLOTTED: February 25, 2022 FILE NAME: J.111903 - 2019 D3 INTERSECTIONS HSIP/WORKING/XSEC/P_XSEC.DGN E-SHEET NAME: ess.e.11.8v noites2onoiM

Page 88 of 148

WARREN COUNTY HSIP 9010(348) g SHEET NO.

F

3-9018.00 ITEM NO.

COUNTY OF WARREN Contract ID: 224425 age 89 of 148

NOTES

TRAFFIC SIGNAL ESTIMATE OF OUANTITIES MEASUREMENT, CONST, AND MISC

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PICKING UP MATERIALS FOR INSTALL ITEMS AT KYTCS DIVISION OF EQUIPMENT WAREHOUSE (1239 MILKINSON BOLLEVARD, FRANKFORT, KY 40622). THE FOLLOWING PROCEDURES SHALL BE FOLLOWED FOR WATERIAL RELEASE. FAILURE TO FOLLOW THESE PROCEDURES MAY RESULT IN LONG DELAYS OR REFUSAL TO DISTRIBUTE MATERIALS UPON ARRIVAL. THE CONTRACTOR SHALL WAKE AN INSPECTION OF THE PROJECT SITE PRIOR TO MEMBLITING A BLD AND SHALL BE THOROUGHLY FAMILLARIZED WITH EXISTING CONDITIONS. SUBMISSIONS OF A BLD WILL BE CONSIDERED AN AFFIRMATION OF THIS INSPECTION HAVING BEEN COMPLETED. CONDUIT 1174 INCH
CONDUIT 2 INCH
ELECTRICAL JUNCTION BOX TYPE B
TRENCHING AND BACKFILLING CABLE-NO. 1475C
CABLE-NO. 1475C
CABLE-NO. 1475C
CABLE-NO. 1471PAIR
MESSENGER-10800 LB
LOOP SAW SLOT AND FILL
INSTALL ESTEEL STRAIN POLE
REMOVE SIGNAL EQUIPMENT
INSTALL ESTEEL STRAIN POLE
INSTALL SIGNAL-4 SECTION LED
INSTALL EDESTRIAM DETECTOR
INSTALL EDESTRIAM DETECTOR
INSTALL EDESTRIAM DETECTOR
INSTALL SIGNAL POLE BASE
FRAFFIC SIGNAL ESTIMATE OF QUANTITIES ITEM DESCRIPTION CONDUIT 1 INCH LOOP WIRE 4792 4795 4795 4810 4820 4830 484 484 4865 4932 4932 24956ad 20093N835 20093N835 20266ES835 20390NS835 21743NN 23157EN 1 1 1 1 1 1 1 1 1 LIN FI UNITS EACH EACH EACH EACH EACH CU YD EACH 35 240 80 6 6 355 2,400 2,200 2,065 390 1,005

THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT DELITION, AND OTHER SPECIAL NOTES AND SPECIFICATIONS WILL APPLY ON THIS PROJECT, SEE SECTION TOE, 723, AND 112 FOR MEASUREMENT AND OTHER DETAILS, SEE SECTION GOS FOR SPIRAL REINFORCEMENT SPLICING.

1. CONTRACTOR SHALL SECURE THE SIGNATURES OF KYTC'S PROJECT ENGINEER AND THE ELECTRICAL CONTRACTOR'S FOREMAN ON THE PROJECT MATERIALS FELLEASE FORM. IF THE RELEASE FORM IS NOT IN THE PROPOSAL, CONTACT TED SHANSEGAR OR KERRY ROBERTS WITH THE DIVISION OF TRAFTIC OPERATIONS BY PHONE 65202-782-5540/502-782-5536)
OR EMAIL (TED. SHANSEGARW, COVINCERT NOBERTSWY, COV).
2. CONTRACTOR SHALL CONTACT THE SIGNATORIES TO ME WATERIALS.
CONTRACTOR SHALL EMAIL THE PROJECT MATERIALS RELEASE FORM WITH REQUIRED SIGNATURES TO THE WAREHOUSE AT KIM STAMPERRY, COV AND SHALL NOT SHALL SHALL SHALL LEAST TWO COVERACTOR SHALL LEAST TWO COVERACTOR SHALL LEAST TWO COVERACTOR SHALL LEAST TWO THE WAREHOUSE BY PHONE 652-782-5943-6502-782-55470 OR EMAIL NOTIFY THE LAGE CONTRACTOR SHALL ALSO CONTRACTOR SHALL ALSO CONTRACTOR STISSIENCY, COVA TEAST TWO COVERACTOR SHALL LEAST COVERACTOR SHALL LEAST TWO COVERACTOR SHALL LEAST COVERACTOR SHALL LEAST TWO COVERACTOR SHALL LEAST COVERACTOR SHALL REPRESENTED CONTRACTOR SHAULCH PROJECT WATERIALS RELEASE FORM WITH THE REQUIRED SIGNATURES.

CONSTRUCTION AND MEASUREMENT NOTES THAT ARE CONTRARY TO SECTION 723

SUBSECTION: 03.02 POLES AND BASES INSTALLATION. B) REVISION: REPLACE ENTIRE TABLE WITH THE FOLLOWING:

DRJLLED SHAFT DATA

MAXIMUM SERVICE FORCES

	_		
VERTICAL BARS SIZE TOTAL		TOTAL	000000000000000000000000000000000000000
	VERTIC	SIZE	
	2:1 GROUND SLOPE"	ROCK	ന സ എ
133	2:1 GR0	SOIL	00000000000000000000000000000000000000
DEPTH (FEET)	UND SLOPE	ROCK	าม ก กำ-กำอดดดดดดดดดดดดดดดดดดดดดดดดดดดดดดดดดด
	< 2:1 GROUND	SOIL	ด⊢∞อออ <u>ุठ≕กรสูนเ</u> ⊢ตู⊻บูบู ณ ณฑ์ ณ ณ
	DIAMETER	("N")	NAMAKANANANANANAA OROGOOGOOGOO
MAX SERVICE MOMENT (FT-KJPS)		(FT-KJPS)	C-CV-A-U-S-CV-V-V-A-C-CV-V-V-A-C-C-CV-V-V-A-C-C-C-C

ŝ

4444444444444

SPACING OR PITCH (OR SPJRAL

TES BAR SIZE 03.13 LOOP INSTALLATION.
REPLACE FIRST SENTENCE NOTE WITH THE FOLLOWING:
THIST UNSTALLELED LOOP WIRES (IMSA 51-77 WITH 3 TO 5 TURNS PER FOOT FROM
THE START OF THE HOWERIN TO THE JUNCTION BOX, CABINET, OR POLE. SLOT
AND BE WIDEN TO 1/2" TO 5/8" TO HELP WITH THE INSTALLATION OF THE TWISTED
WIRE. SUBSECTION: REVISION:

04.22 REMOVE SIGNAL EOLIPMENT, ICONSTRUCTION ONLY)
THE LACE THE PARAGRAH WITH THE FOLLOWING.
THE DEPARTMENT WILL MEASURE THE QUANTITY BY EACH. THE DEPARTMENT WILL
MAY MASSIVE BARKSOFT AND THE DISPOSAL OR TRASPORTATION OF EQUIPMENT
MAY MAY ASSOCIATED WITH ANY STRUCTURAL OR ELECTRICAL COMPONENT OF
STACH. SYSTEM, INCLUDING, BIN 10AT LIMITED TO POLE BASES, POLES, JUNCTION
BOXES, CABINETS, AND WOOD POLES FOR PAYMENT AND WILL CONSIDER THEM
INCIDENTAL TO THIS JIEM OF WORK. SUBSECTION: REVISION:

AH

ADD SENTENCE TO SECTION 835,17s ALL WIRE SHALL HAVE WORDING ADDED TO THE OUTER JACKET THAT STATES 1. PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564 0500°.

MEASUREMENT NOTES THAT ARE IN ADDITION TO SECTION 723

INSTALL SIGNAL CONTROLLER TYPE ATC. THE DEPARTMENT WILL WEASURE
THE QUUNTITY AS ACH INDIVIDUAL UNI INSTALLED. THE DEPARTMENT WILL NOT
MEASURE THE COMERTE BASE, MOUNTING THE CABINET, CONNECTING THE SIGNAL
AND DETECTORS, EXCANATION, BACKFILLING, RESTORATION, ANY NECESSARY POLE
MOUNTING MARDWARE, ELECTRIC SERVICE, ELECTRICLA INSPECTION FEES, AND
REQUIRED BULLOWSIDER THEM INCIDENT TITM OF WORK, THE
DEPARTMENT WILL ASSO NOT MEASURE CONNECTING THE INDUCTION LOOP
AMPLIFIERS, PEDESTRIAN ISOLATORS, LOAD SWITCHES, WODEL 400 WODEM CARD
FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL OF THIS ITEM OF
WORK, THE DEPARTMENT WILL ALSO NOT MEASURE TERNISHING AND INSTALLING
ELECTRICAL SERVICE CONDUCTORS, CONDUCTORS, ANGHORS, METRE BASE, FUSED
CUTOUT, FUSES, GROUND RODS, GROUND LUGS, AND GROUND WIRES FOR PAYMENT
AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK,

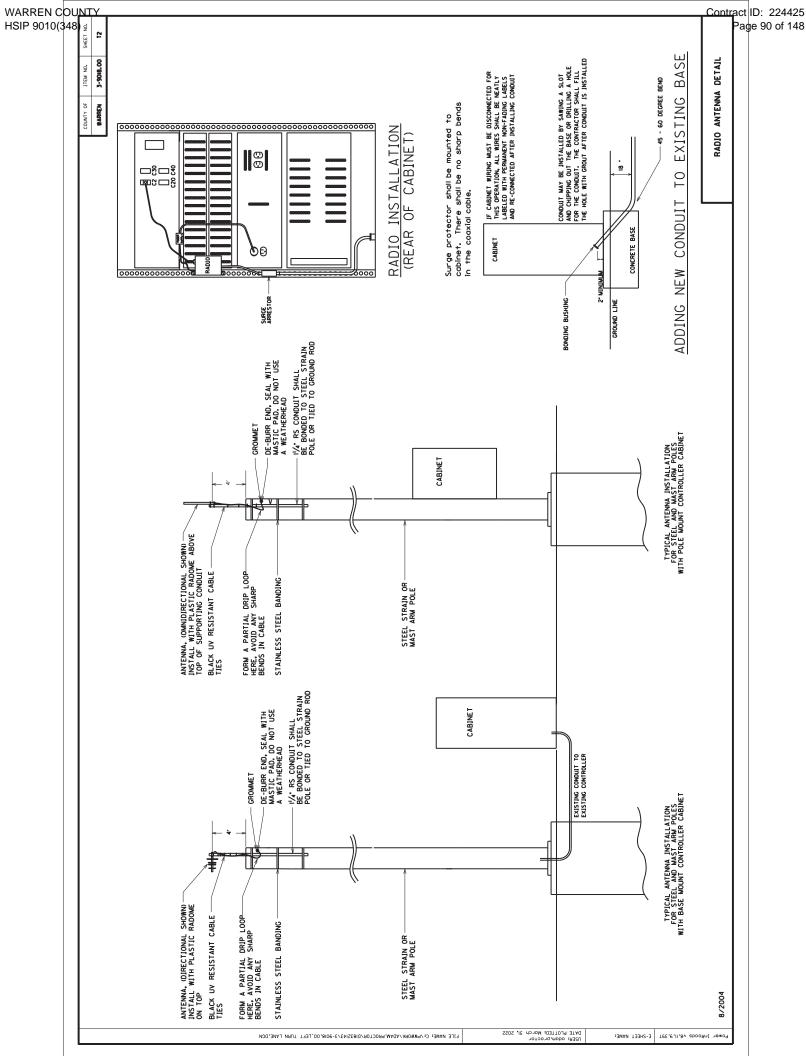
MATERIAL NOTES THAT ARE CONTRARY TO SECTION 835

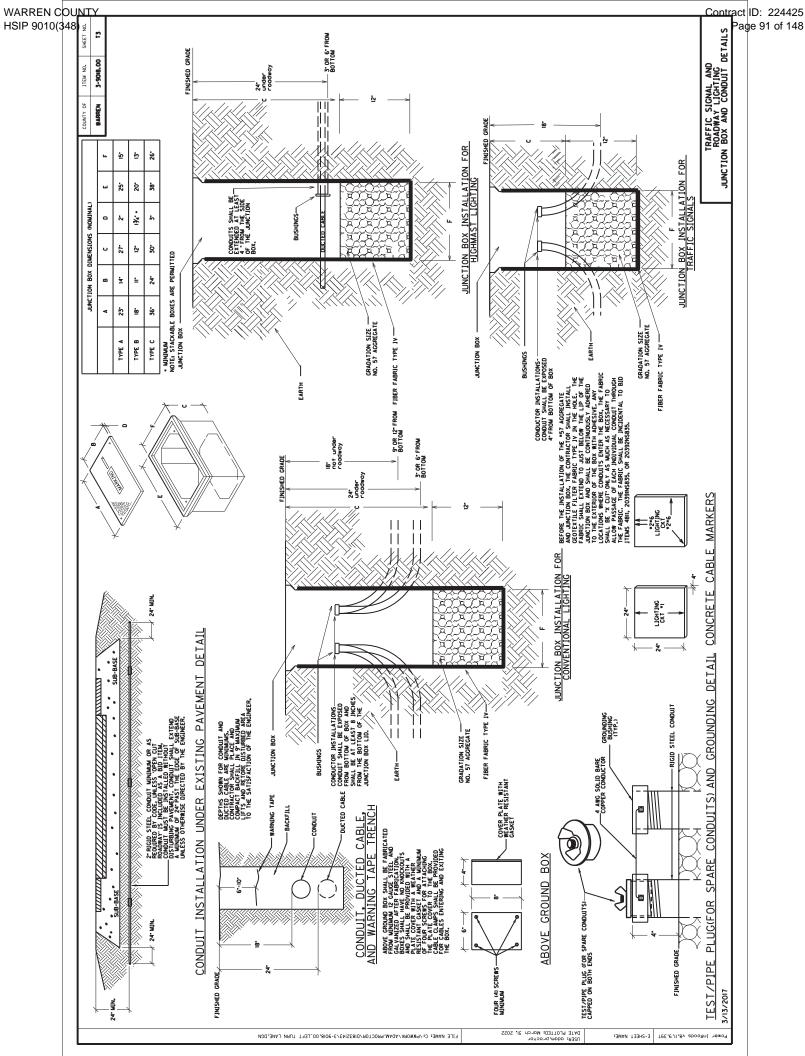
835.21 WARNING TAPE. SUBSECTION: REVISION:

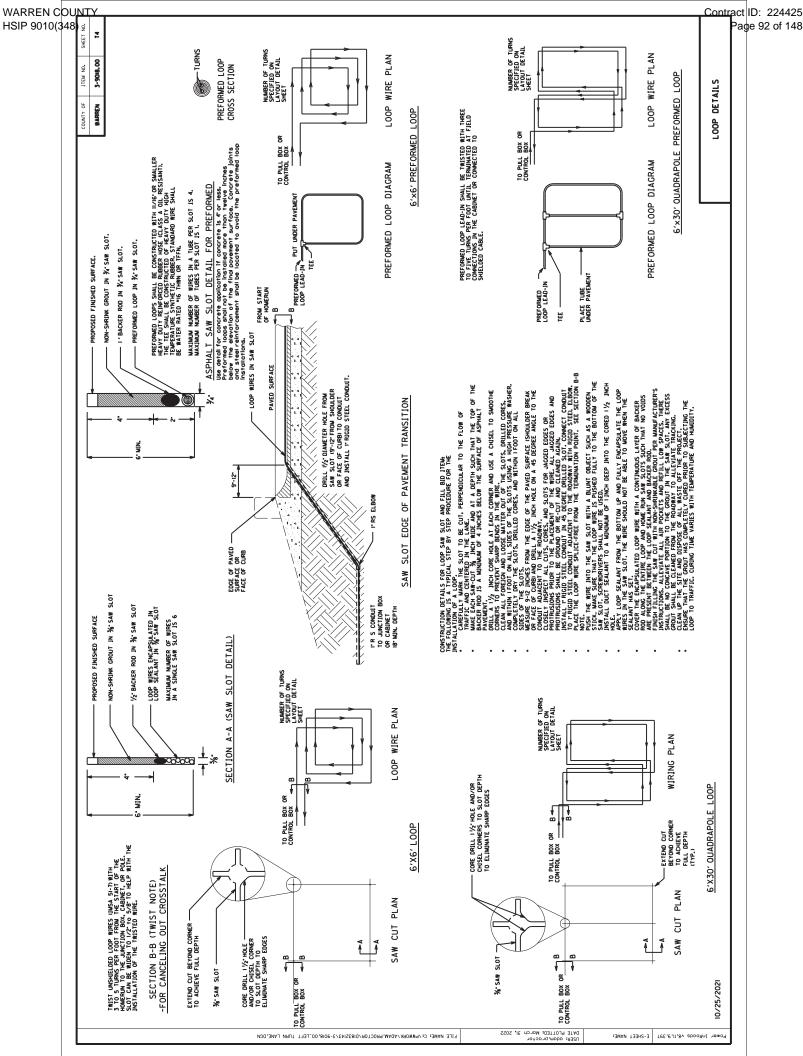
REPLACE FIRST SENTENCE WITH THE FOLLOWING IN 834,33; PROVIDE RECTABLE TYPE TAPE THAT IS 6 INCHES WIDE AND 7.0 MILS (MOMINAL)THICK.

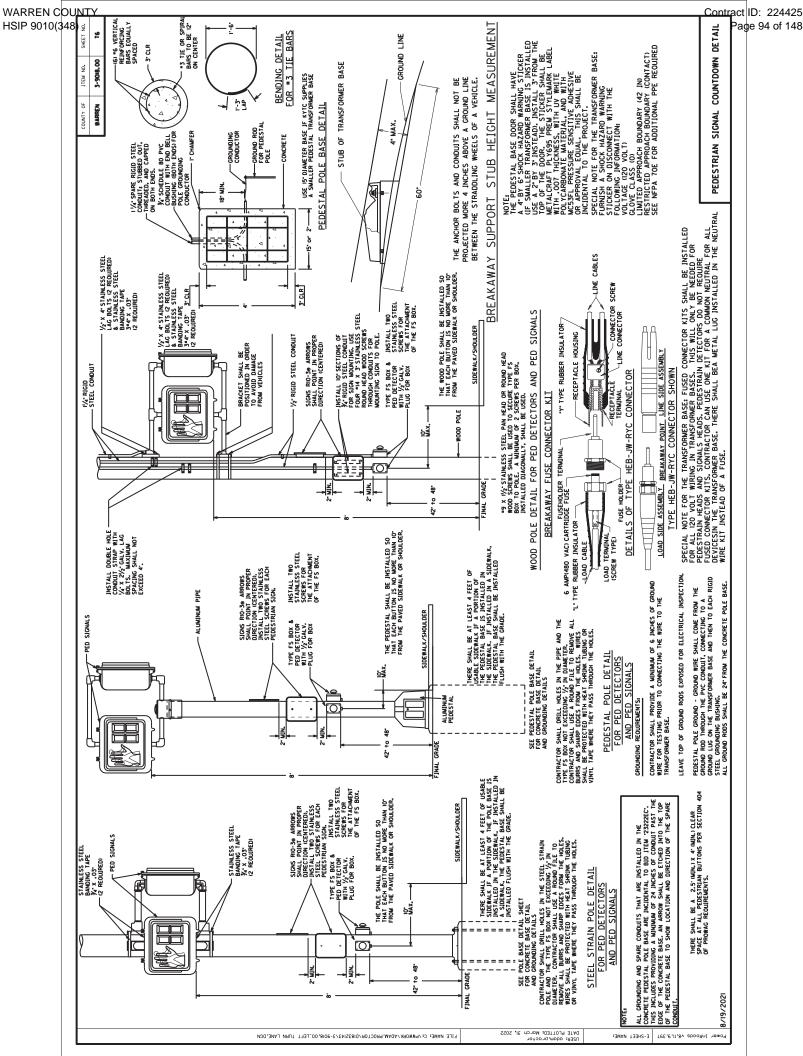
Country of Kentucky DEPARTMENT OF HIGHWAYS COUNTY OF WARREN DESIGNED BY: ADAM PROCTOR PROJECT OMSJP9010348 NUMBERS:

6-29-2021









WARREN COUNTY HSIP 9010(348) ½ Contract ID: 224425 1/4, SPARE SCHEDULE BO PVC COMDIL'S ISUBBED OUT WITH END BELL BUSHING AND CAPED AT BOTH ENDS. AN ARROW SYALL BE ETCHED TO SHOW THE TOP OF THE BASE TO SHOW THE LOCATION AND THE TOP OF THE BASE TO SHOW THE LOCATION AND THE SPARE . N Page 95 of 148 72- REFLECTIVE TAPE (IF SPECIFIED) LOUVERS (TYP.) DEPTH VARIES SEE SECTION 723.03.02 SHEET CABINET GROUND ROD POLE BASE/SIGNAL HEAD DETAILS FOR ECOUPLENT CROWN SCIONAL/PED NEADS, COMECT GREEN WIRE FROM 5-7/1 MISA CABLE TO CONNECTOR THAT WILL BE INSTALLED UNDER ONE OF THE BOLT'S FOW HE THIS STUD MISSERBLY THAT CONNECTS THE NEADS. WE RECOMBED OF THIS SCAN ACCOSED BARRET, FOR THIS CONNECTION. FINISHED GRADE ANCHOR BOLTS.

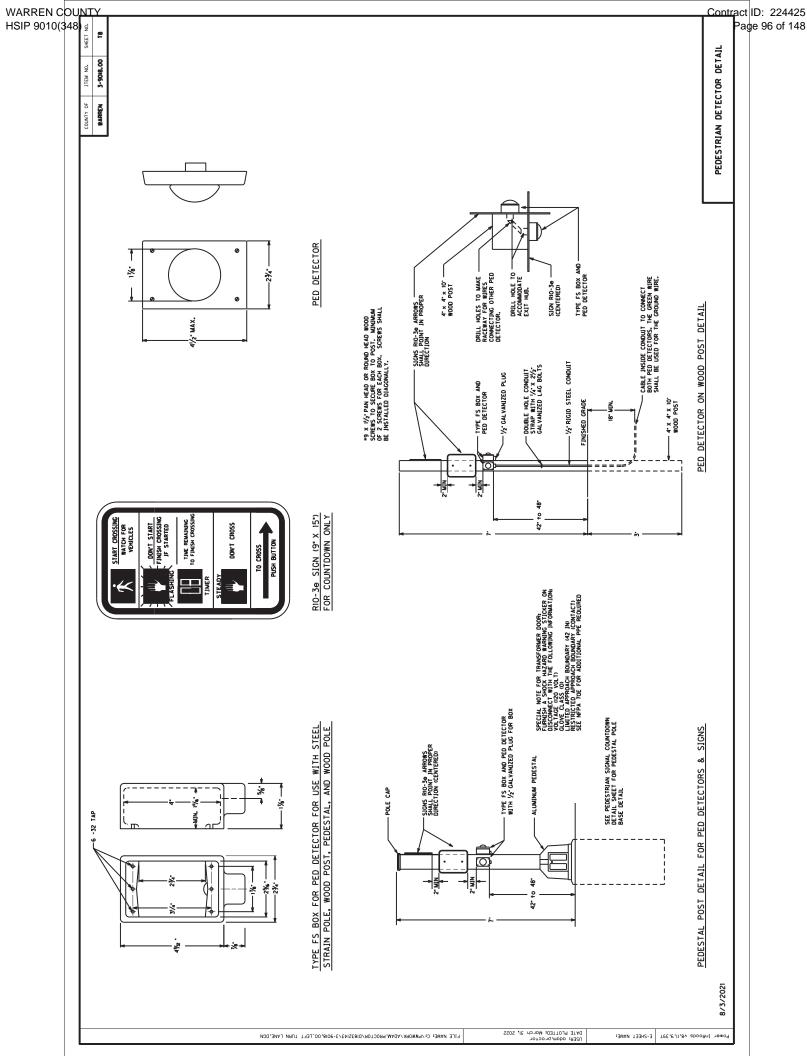
OWANTY AS STEEL STRAIN POLE BASE WITH SERVICE, POLE, POLE, POLE, WANTER AND POLE MOUNTED CABINET GROUNDING DETAILS WANT, G. 40. 3-9018.00 ITEM NO. BACKPLATE DETAIL ř 91111: 1111 (YELLOW) GREEN ..Q COUNTY OF WARREN 111111 FOR EQUIPMENT GROUND,
COMMECT SAN BINES AT
"4 AND BARE COMPER AT BULL RING,
THE GROUNDING LUG SHALL BE
BROWE TIPE.
WESSENGER CABLE
"TIPE." STRAND VISE Ή Λ BULL AERIAL CORNER DETAIL POLE
FOR EQUIJARY GROUND;
GONECT SEAM WIRE TO DOLE WITH
"4 AME BARE COPPER. THE GROUNDING
LUC SHALL BE BRONZE TYPE. THERE SHALL
BE THERE SLALL
BETHERE RACH LUG. INSTALL MESSENGER THROUGH STRAND VISE AND BEND MESSENGER AT EXIT POINT. %* SCHEDULE BO PVC CONDUIT FOR SERVICE GROUND (REOUIRED AT SERVICE LOCATION ONLY) 3- CLR JOHNNYBALLS OR STRAIN JSOLATORS SHALL NOT BE USED ON THE ATTACHMENT OF THE SPAN WIRE TO THE POLE. THERE SHALL BE A SEPARATE COLLAR JSED FOR EACH SPAN, INSTALL MESSENGER THROUGH STRAND VISE AND BEND MESSENGER AT EXIT POINT. MESSENCER SHALL EXTEND 8" TO 10" BEYOND THE STRAND VISE YOKE. MESSENGER SHALL EXTEND 8°TO 10° BEYOND THE STRAND VISE YOKE. FOR UNDERGROUND SERVICE FEEDS, USE 1'RIGID STEEL CONDUIT TO METER BASE ON EXTERIOR OF POLE DROP BOX CONNECT EACH STRAND VISE TO BULL RING AT AERIAL CORNER, SERVICE GROUND RODS-AS EXTERIOR CONDUIT MAY BE REQUIRED USED FOR EITHER OR BOTH (BY MFR THE FOLLOWING CONDITIONS) POLE GROUND ROD -FOR EXTERIOR SERVICE GROUNDING (OPTIONAL), USE %-SCHEDULE 80 PVC VERTICAL REINFORCING BARS EQUALLY SPACED (SIZE AND NUMBER VARY) *4 TJE OR SPJRAL BARS TO BE 12" ON CENTER 24/2" MAX, DIAMETER BOLT CIRCLE NOTE: INSTALL TWO BOLTS TOWARD CURB SIDE. OUTSIDE OF FOUNDATION - 3- CLR MAXIMUM DIAMETER OF ANCHOR BOLTS SHALL BE 21/4" — HEX NUT, WASHER, AND
LOCK WASHER ABOVE BASE
PLATE (TYPICAL)
— TOP OF FOUNDATION MUST
BE LEVEL POLE CURB SIDE CLEARANCE OF ONE BOLT DIAMETER ė. -MESSENGER CABLE STRAND VISE SPAN WIRE DETAIL CARVED LOCATION J /DIRECTION OF SPARE CONDUIT. JF ANCHOR BOLTS ARE STRAIGHT NOT BEND, THE METAL TEMPLATE SHALL BE INSTALLED FOR STRUCTURAL INTEGRITY. CONTRACTOR SHALL PROVIDE A MINIMUM OF 6 NUCHES OF GROUND WIRE FOR TESTING PRIOR TO CONNECTING THE WIRE TO ANY DISCONNECT CABINET OR POLE. LEAVE TOP OF GROUND RODS EXPOSED FOR ELECTRICAL INSPECTION. ALL GROUND RODS SHALL BE 24' FROM THE CONCRETE POLE BASE. POLE GROUND - GROUND WIRE SHALL COME FROM THE GROUND ROD THROUGH THE PVC COMDUIT, CONNECTING TO THE POLE AND THEN TO EACH RIGID STEEL GROUNDING BUSHING. PROVIDE SAG IN WIRES TO PREVENT WATER IN WEATHERHEAD SPECIAL WOIT FOR "DAY E DOOR"

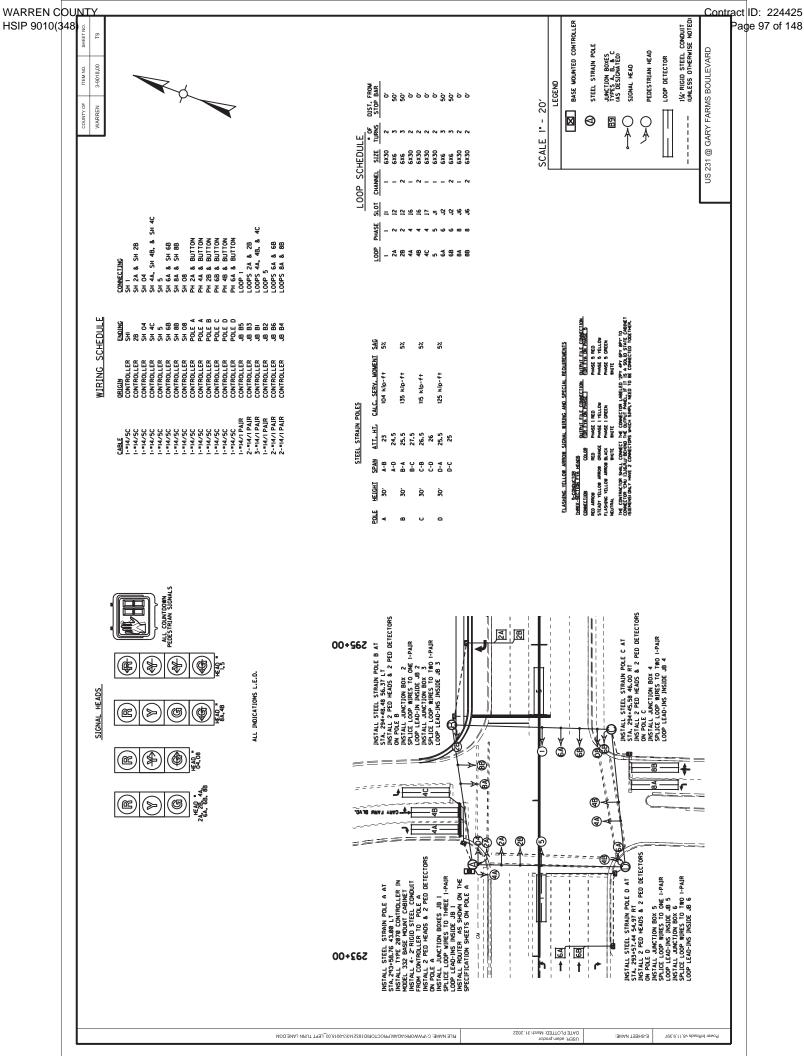
STRINGS A STOCK TAZED WRINING STICKER ON DISCONDECT WITH THE "GLICHWING INFORMATION CLASS (OF LASS OF LIMITED APPROACH BOUNDARY (AZ 10) TRESTRICTED APPROACH BOUNDARY (CONTACT)

RESTRUCTED APPROACH BOUNDARY (CONTACT)

RESTRUCTED APPROACH BOUNDARY (CONTACT) IJ Л BENDING DETAIL FOR TIE BARS CONCRETE GROUNDING REQUIREMENTS: 1/4" SPARE SHEDULE 80 PVC CONDUIT STUBBED OUT WITH END BELL BUSHING AND CAPPED AT BOTH ENDS. HEX NUT AND WASHER – UNDER BASE PLATE FOR PLUMBING OR RAKING POLE (TYP) 3- CAL VANIZED CABLE
RINGS - 18- MAX. SPACING.
THE CABLE RINGS SHALL BE
INSTALLED ACROSS THE
WHOLE LENGTH OF THE SPAN. A MINIMUM OF TWO —
BOLT THREADS SHALL
EXTEND ABOVE THE
NUT
FINISHED GRADE 1.-8-LAP CIAMP ASSEMBLY SPECIFCATIONS

CLAM ASSEMBLIS BUST BE DESIGNED. IN ACCORDANCE
TO THE ASSITO STAMARD SPECIFICATIONS FOR
TOTHCHARL SURPORTS FOR HOURAY SIGNS, LUMINAIRES
AND TRAFFIC SIGNALS, SIXTH EDITION 2013, ADDITIONAL DESIGN PROTISONS NOT ADDRESSED IN THE
AND TIONAL CESCH PROVISIONS NOT ADDRESSED IN THE
ASTRONOMADOR SPECIFICATIONS FOR HUMANY
BRIDGES, COARS, CLAMP ASSEMBLIES, SHALL COMPONE
THIS STAMARDARD. CLAMP/CLEVIS- ASTM A36 (GRADE 36)/ASTM A572 (GRADE 50) BOLTS (EXCEPT U- BOLTS)- HIGH STRENGTH ASTM A325, ASTM A449, OR ASTM A490 THE STEEL STRAIN DOOR SAALL HAVE
THE STEEL STRAIN DOOR SAALL HAVE
THE STRUCK HAZION THE DOOR.
THE STRUCK STRAIN BY THE BATH THE STRUCK STRUCK HAZION THE TOO OF THE DOOR.
THE STRUCK STRUCK HAZION THE STRUCK STRUCK HAZION THE STRUCK STRUCK HAZION THE STRUCK STRUCK HAZION THE STRUCK AND STRUCK STRU STEEL STRAIN POLE BASE WITH POLE GROUND DETAIL U- BOLTS- MINIMUM ASTM A36 GALVANIZING- ASTM A153 Ω. % SCHEDULE 80 PVC— CONDUIT WITH END BELL BUSHING FOR POLE GROUNDING CONDUCTOR Clamp Assembly Alt. GROUND ROD FOR POLE Threaded Both
Cotter Pin
Nut Sold Both
Nut Sold Both
Lock Rosher
Hosher ROUNDING -ONDUCTOR Detail 3 ALL CONDUITS USED FOR THE TELEPHONE, CROUNDING, SPARE, AND SERVICE THAT ARE INSTALLED IN THE POLE BASE ARE INCIDENTAL, TO BID ITEM 235/5TW. THIS JUCLUSES PROVIDING A MINIMAM OF 24 INCHES OF CONDUIT PAST THE EDGE OF THE CONCRETE POLE BASE. OVERNEAD SERVICE WIRES SMALL BE INSTALLED ON THE EXTERIOR OF THE POLE IN A 1' PROLOS STELL CONDUIT WITH WEATHERNEAD, OR ON THE INSIDE THE STELL STRAIN POLE IN FLEXBLE CONDUIT, Detail UNDERGROUND SERVICE WIRES SHALL BE INSTALLED IN 1º RIGID STEEL CONDUIT AS SHOWN ON THE CONTROLLER CABINET DETAIL SHEET. FOR POLE BASE DEPTH SEE CHART IN SECTION 723 OF THE KENTUCKY STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION. PROVIDE 2 FOOT COIL IN SIGNAL CABLES TO PREVENT WATER ACCESS TO WEATHERHEADS FOR EACH SIGNAL HEAD. Detall 2 Mosher --Lock Wosher --Nut --Cotter Pin --Threaded Bolt --ALL CONDUITS SHALL BE INSTALLED BETWEEN 4 TO 6 INCHES ABOVE THE CONCRETE PAD, AND THEY CANNOT EXCEED THE 6 INCH HEIGHT. 000 17' - 19' & CONFORM TO FIGURE 4D-1 MUTCD LATEST EDITION SPAN DETAIL Clamp Assembly Alt, Clamp Assembly Alt. MIN. SAC R ALL SPANS OTHERWISE 4/15/2021 DATE PLOTTED; Morch 31, 2022 E-SHEET NAME: Power inRoads v8.11.9.397 FILE NAME: C:\PWWORK\ADAM.PROCTOR\DI832I43\3-9018.00_LEFT TURN LANE.DGN





DIVISION OF TRAFFIC OPERATIONS

PROJECT MATERIALS RELEASE FORM FOR SIGNAL AND LIGHTING

Note: Email form with signatures to KYTC's warehouse (kim.stamper@ky.gov) at least two (2) days prior to arrival for pickup. Ensure Contractor's delivery driver has a copy of form with signatures. Failure to do either may result in long delays or refusal to distribute materials upon arrival.

3-9018.00 WARREN Item Number: County:

US231 @ GARY FARMS Description:

Cabinets	Master code	
	T-01-0020	Base Mounted 332 Cabinet
	T-01-0105	ATC Controller
	T-01-0106	1C w/Maxtime (this should go with item ATC controller)
	T-01-0501	Conflict Monitor, Model 2018
2	T-01-0510	Isolator, Model 242 (1 for 2070, plus for ped detector and railroad)
7	T-01-0600	Loop Detector, Model 222
10	10 T-01-0700	Load Switches

Signals	
8 1-02-0009	Siemens 3 Section Signal
4 T-02-0033	Siemen 4 secton 12" signal (poly)
6 T-02-0090	Pedestrian signal housing
2 T-02-0300	LED Module 12" red arrow
6 T-02-0310	LED Module 12" yellow arrow
4 T-02-0320	LED Module 12" green arrow
10 T-02-0330	LED Module 12" red ball
8 T-02-0340	LED Module 12" yellow ball
8 T-02-0350	LED Module 12" green ball
6 T-02-0365	LED Countdown Pedestrian Module

1 -02-0304	Danish and Abrila in the contract of the contr
0 T O O O T	Router (this includes power supply/antenna/cabing)
01./0-90-1	Ped Detector Pole Mount FSA Box
6 T-06-0730	Ped Button w/o Plunger
6 T-17-0015	9 X 15 Countdown Ped Sign DBL Sided

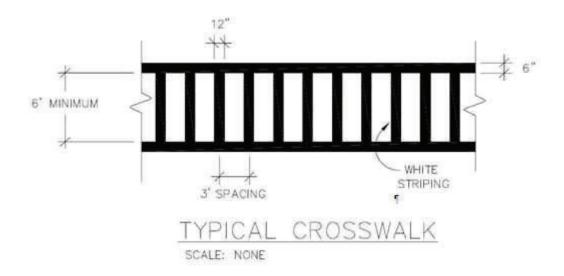
Electrical Contractor Name Electrical Contractor Supervisor

Project Engineer
Project Engineer attests that the mentioned contractor is the actual electrical contractor on this project
Signature of Project Engineer or Designee

Contact number for Supervisor Contact number for Project Engineer

Tim Tharpe - Director Phone (502) 564-3020 FAX (502) 564-7759

LADDER STYLE CROSSWALK DETAIL



GENERAL NOTE: ALL CROSSWALKS SHALL BE "LADDER" STYLE CROSSWALKS.

The Department will measure the sum of the lengths of the rails in linear feet for payment as: Pavement Marking – Thermo X-Walk – 6 Inch.

The Department will measure the sum of the lengths of the rungs in linear feet for payment as: Pavement Marking – Thermo X-Walk – 12 Inch.

PART II

SPECIFICATIONS AND STANDARD DRAWINGS

SPECIFICATIONS REFERENCE

Any reference in the plans or proposal to previous editions of the *Standard Specifications* for Road and Bridge Construction and Standard Drawings are superseded by Standard Specifications for Road and Bridge Construction, Edition of 2019 and Standard Drawings, Edition of 2020.

SUPPLEMENTAL SPECIFICATIONS

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

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

1I

SPECIAL NOTE FOR PORTABLE CHANGEABLE MESSAGE SIGNS

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

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

2.0 MATERIALS.

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

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

2.2 Sign and Controls. All signs must:

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

1**I**

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

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

*Insert numerals as directed by the Engineer.

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

2.3 Power.

- Design solar panels to yield 10 percent or greater additional charge than sign consumption. Provide direct wiring for operation of the sign or arrow board from an external power source to provide energy backup for 21 days without sunlight and an on-board system charger with the ability to recharge completely discharged batteries in 24 hours.
- **3.0 CONSTRUCTION.** Furnish and operate the variable message signs as designated on the plans or by the Engineer. Ensure the bottom of the message panel is a minimum of 7 feet above the roadway in urban areas and 5 feet above in rural areas when operating. Use Class I, II, or III signs on roads with a speed limit less than 55 mph. Use Class I or II signs on roads with speed limits 55 mph or greater.

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

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

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

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

1I the actual number of individual signs acceptably furnished and operated during the project. The Department will not measure signs replaced due to damage or

rejection.

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

CodePay ItemPay Unit02671Portable Changeable Message SignEach

Effective June 15, 2012

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SPECIAL NOTE FOR LONGITUDINAL PAVEMENT JOINT ADHESIVE

- 1. DESCRIPTION. This specification covers the requirements and practices for applying an asphalt adhesive material to the longitudinal joint of the surface course of an asphalt pavement. Apply the adhesive to the face of longitudinal joint between driving lanes for the first lane paved. Then, place and compact the adjacent lane against the treated face to produce a strong, durable, waterproof longitudinal joint.
- 2. MATERIALS, EQUIPMENT, AND PERSONNEL.
 - 2.1 Joint Adhesive. Provide material conforming to Subsection 2.1.1.
 - 2.1.1 Provide an adhesive conforming to the following requirements:

Property	Specification	Test Procedure
Viscosity, 400 ° F (Pa·s)	4.0 - 10.0	ASTM D 4402
Cone Penetration, 77 ° F	60 – 100	ASTM D 5329
Flow, 140 ° F (mm)	5.0 max.	ASTM D 5329
Resilience, 77 ° F (%)	30 min.	ASTM D 5329
Ductility, 77 ° F (cm)	30.0 min.	ASTM D 113
Ductility, 39 ° F (cm)	30.0 min.	ASTM D 113
Tensile Adhesion, 77 ° F (%)	500 min.	ASTM D 5329, Type II
Softening Point, ° F	171 min.	AASHTO T 53
Asphalt Compatibility	Pass	ASTM D 5329

Ensure the temperature of the pavement joint adhesive is between 380 and 410 °F when the material is extruded in a 0.125-inch-thick band over the entire face of the longitudinal joint.

- 2.2. Equipment.
- 2.2.1 Melter Kettle. Provide an oil-jacketed, double-boiler, melter kettle equipped with any needed agitation and recirculating systems.
- 2.2.2 Applicator System. Provide a pressure-feed-wand applicator system with an applicator shoe attached.
- 2.3 Personnel. Ensure a technical representative from the manufacturer of the pavement joint adhesive is present during the initial construction activities and available upon the request of the Engineer.

3. CONSTRUCTION.

3.1 Surface Preparation. Prior to the application of the pavement joint adhesive, ensure the face of the longitudinal joint is thoroughly dry and free from dust or any other debris that would inhibit adhesion. Clean the joint face by the use of compressed air.

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Ensure this preparation process occurs shortly before application to prevent the return of debris on the joint face.

- 3.2 Pavement Joint Adhesive Application. Ensure the ambient temperature is a minimum of 40 °F during the application of the pavement joint adhesive. Prior to applying the adhesive, demonstrate competence in applying the adhesive according to this note to the satisfaction of the Engineer. Heat the adhesive in the melter kettle to the specified temperature range. Pump the adhesive from the melter kettle through the wand onto the vertical face of the cold joint. Apply the adhesive in a continuous band over the entire face of the longitudinal joint. Do not use excessive material in either thickness or location. Ensure the edge of the extruded adhesive material is flush with the surface of the pavement. Then, place and compact the adjacent lane against the joint face. Remove any excessive material extruded from the joint after compaction (a small line of material may remain).
- 3.3 Pavement Joint Adhesive Certification. Furnish the joint adhesive's certification to the Engineer stating the material conforms to all requirements herein prior to use.
- 3.4 Sampling and Testing. The Department will require a random sample of pavement joint adhesive from each manufacturer's lot of material. Extrude two 5 lb. samples of the heated material and forward the sample to the Division of Materials for testing. Reynolds oven bags, turkey size, placed inside small cardboard boxes or cement cylinder molds have been found suitable. Ensure the product temperature is 400°F or below at the time of sampling.
- 4. MEASUREMENT. The Department will measure the quantity of Pavement Joint Adhesive in linear feet. The Department will not measure for payment any extra materials, labor, methods, equipment, or construction techniques used to satisfy the requirements of this note. The Department will not measure for payment any trial applications of Pavement Joint Adhesive, the cleaning of the joint face, or furnishing and placing the adhesive. The Department will consider all such items incidental to the Pavement Joint Adhesive.
- 5. PAYMENT. The Department will pay for the Pavement Joint Adhesive at the Contract unit bid price and apply an adjustment for each manufacturer's lot of material based on the degree of compliance as defined in the following schedule. When a sample fails on two or more tests, the Department may add the deductions, but the total deduction will not exceed 100 percent.

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Pavement Joint Adhesive Price Adjustment Schedule								
Test	Specification	100% Pay	90% Pay	80% Pay	50% Pay	0% Pay		
Joint Adhesive Referenced in Subsection 2.1.1								
Viscosity, 400 ° F (Pa•s)			3.0-3.4	2.5-2.9	2.0-2.4	≤1.9		
ASTM D 3236	4.0-10.0	3.5-10.5	10.6-11.0	11.1-11.5	11.6-12.0	≥ 12.1		
Cone Penetration, 77 ° F			54-56	51-53	48-50	≤ 47		
ASTM D 5329	60-100	57-103	104-106	107-109	110-112	≥ 113		
Flow, 140 ° F (mm) ASTM D 5329	≤ 5.0	≤ 5.5	5.6-6.0	6.1-6.5	6.6-7.0	≥ 7.1		
Resilience, 77 ° F (%) ASTM D 5329	≥ 30	≥ 28	26-27	24-25	22-23	≤ 21		
Tensile Adhesion, 77 ° F (%) ASTM D 5329	≥ 500	≥ 490	480-489	470-479	460-469	≤ 459		
Softening Point, ° F AASHTO T 53	≥ 171	≥ 169	166-168	163-165	160-162	≤ 159		
Ductility, 77 ° F (cm) ASTM D 113	≥ 30.0	≥ 29.0	28.0-28.9	27.0-27.9	26.0-26.9	≤ 25.9		
Ductility, 39 ° F (cm) ASTM D 113	≥ 30.0	≥ 29.0	28.0-28.9	27.0-27.9	26.0-26.9	≤ 25.9		

CodePay ItemPay Unit20071ECJoint AdhesiveLinear Foot

May 7, 2014

2020 STANDARD DRAWINGS THAT APPLY

ROADWAY

~ **DRAINAGE** ~ BOX INLETS AND OUTLETS

<u>DROP BOXES</u>	
DROP BOX INLET TYPE 13 (DETAIL SHEET)	RDB-013-07
DROP BOX INLET TYPE 13 AND TYPE 16 (FRAME & GRATE DETAILS)	RDB-014-06
DROP BOX INLET TYPE 13 (DETAIL & BAR CHART FOR LID)	RDB-015-04
DROP BOX INLET TYPE 13 (PIPE CHAMBER - GRADE CONDITION)	RDB-016-03
DROP BOX INLET TYPE 13 (PIPE CHAMBER - SAG CONDITION)	RDB-017-03
DROP BOX INLET TYPE 13 (ADDITIONAL STEEL - RISER)	RDB-018-04
DROP BOX INLET TYPE 13 (ADDITIONAL STEEL - CHAMBER)	RDB-019-04
DROP BOX INLET TYPE 16 (DETAIL SHEET)	RDB-030-04
DROP BOX INLET TYPE 16 (STEEL SHEET)	
DROP BOX INLET TYPE 16 (DETAIL & BAR CHART FOR LID)	
DROP BOX INLET TYPE 16 (DIMENSIONS & ESTIMATE OF QUANTITIES)	
DROP BOX INLET TYPE 16 (ADDITIONAL STEEL - RISER)	
DROP BOX INLET TYPE 16 (ADDITIONAL STEEL - CHAMBER)	
<u>CURB BOXES</u>	
CURB BOX INLET TYPE A (DETAIL DRAWING)	RDB-270-09
CURB BOX INLET TYPE A (STEEL DRAWING)	RDB-271-05
CURB BOX INLET TYPE A (TOP PHASE TABLES)	RDB-272-07
CURB BOX INLET TYPE A (DETAIL & BAR CHART FOR 8" LID)	
BOX INLET RISER	
BOX INLET PIPE CHAMBER	RDB-410-06
BOX INLET PIPE CHAMBER (ADDITIONAL STEEL)	RDB-420-05
TYPICAL DRAINAGE INSTALLATIONS CULVERT, ENTRANCE & STORM SEWER PIPE TYPES & COVER HEIGHTS (12" – 24" PIPE)	
PIPE BEDDING FOR CULVERTS, ENTRANCE, AND STORM SEWER PIPE	
PIPE BEDDING FOR CULVERTS, ENTRANCE, AND STORM SEWER, REINFORCED CONC. PIPE \ldots	
PIPE BEDDING, TRENCH CONDITION	
PIPE BEDDING, TRENCH CONDITION, REINFORCED CONC. PIPE	
COATINGS, LININGS AND PAVINGS FOR NON-STRUCTURAL PLATE PIPE	RDI-035-02
14.177.77	
<u>MANHOLES</u>	
FRAME AND LID TYPE 1	
FRAME AND LID TYPE 2	RDM-105-03
PERFORATED PIPE	
PERFORATED PIPE TYPES AND COVER HEIGHTS	RDP-001-06
PERFORATED PIPE FOR SUBGRADE DRAINAGE ON TWO-LANE (CLASS 2) AND	
MULTI-LANE ROADS	RDP-005-05
MISCELLANEOUS DRAINAGE	
JUNCTION BOX TYPE B.	RDX-005-03
INTERMEDIATE AND END ANCHORS FOR CIRCULAR PIPE	RDX-060-04

Standard Drawings That Apply Page 2 of 2

SECURITY DEVICES FOR FRAMES, GRATES AND LIDS	RDX-160-06
TEMPORARY SILT FENCE.	
SILT TRAP - TYPE A	
SILT TRAP - TYPE B	RDX-225-01
SILT TRAP - TYPE C	
MISCELLANEOUS STANDARDS	
MISCELLANEOUS STANDARDS	
RIGHT OF WAY MONUMENTS	
DETECTABLE WARNINGS	RGX-040-03
~ PAVEMENT ~	
MEDIANS, CURBS, APPROACHES, ENTRANCES, ETC.	
CURB AND GUTTER, CURBS AND VALLEY GUTTER	DDM 100 11
SIDEWALK RAMPS	
SIDE WALK RAINI S	KI WI-1 / 0-09
TRAFFIC	
~ PERMANENT ~	
<u>MARKERS</u>	
PAVEMENT MARKER ARRANGEMENTS TWO-WAY LEFT TURN LANE	
TYPICAL MARKINGS AT SIGNALIZED INTERSECTIONS	
TYPICAL MARKINGS FOR GORE AREAS	
TYPICAL MARKINGS FOR TURN LANES PAGE 2	TPM-207
TEMPOR ARY	
~ TEMPORARY ~	
TRAFFIC CONTROL	
LANE CLOSURE MULTI-LANE HIGHWAY CASE I	TTC-115-04
DEVICES	
PAVEMENT CONDITION WARNING SIGNS	TTD-125-03
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STRIPING OPERATIONS MOBILE OPERATION FOR PAINT STRIPING CASE III	
MOBILE OPERATION FOR PAINT STRIPING CASE III	TTS-110-02
MOBILE OPERATION FOR PAINT STRIPING CASE IV	
MOBILE OPERATION FOR DURABLE STRIPING CASE I	TTS-120-02
MOBILE OPERATION FOR DURABLE STRIPING CASE II	TTS-125-02

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 Form FHWA-1391. The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor

will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions

of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

- b.(1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:
 - (i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and
 - (ii) The classification is utilized in the area by the construction industry; and
 - (iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.
 - (2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.
 - (3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or

will notify the contracting officer within the 30-day period that additional time is necessary.

- (4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.
- c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.
- d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other 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 (https://www.epls.gov/), which is compiled by the General Services Administration.

- i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
- j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

* * * * *

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

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

2. Instructions for Certification - Lower Tier Participants:

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

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

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

- c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.
- d. The terms "covered transaction," "debarred,"
 "suspended," "ineligible," "participant," "person," "principal,"
 and "voluntarily excluded," as used in this clause, are defined
 in 2 CFR Parts 180 and 1200. You may contact the person to
 which this proposal is submitted for assistance in obtaining a
 copy of those regulations. "First Tier Covered Transactions"
 refers to any covered transaction between a grantee or
 subgrantee of Federal funds and a participant (such as the
 prime or general contract). "Lower Tier Covered Transactions"
 refers to any covered transaction under a First Tier Covered
 Transaction (such as subcontracts). "First Tier Participant"
 refers to the participant who has entered into a covered
 transaction with a grantee or subgrantee of Federal funds
 (such as the prime or general contractor). "Lower Tier
 Participant" refers any participant who has entered into a
 covered transaction with a First Tier Participant or other Lower
 Tier Participants (such as subcontractors and suppliers).
- e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.
- f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.
- g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (https://www.epls.gov/), which is compiled by the General Services Administration.
- h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
- i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the

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

* * * * *

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

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

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

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

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

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

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

- 1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:
- a. To the extent that qualified persons regularly residing in the area are not available.
- b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.
- c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.
- 2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.
- 3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.
- 4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.
- 5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

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

KENTUCKY TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS

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

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

KRS CHAPTER 344 EFFECTIVE JUNE 16, 1972

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

- 1. The contractor shall not fail or refuse to hire, or shall not discharge any individual, or otherwise discriminate against an individual with respect to his compensation, terms, conditions, or privileges of employment, because of such individual's race, color, religion, national origin, sex, disability or age (forty and above); or limit, segregate, or classify his employees in any way which would deprive or tend to deprive an individual of employment opportunities or otherwise adversely affect his status as an employee, because of such individual's race, color, religion, national origin, sex, disability or age forty (40) and over. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
- 2. The contractor shall not print or publish or cause to be printed or published a notice or advertisement relating to employment by such an employer or membership in or any classification or referral for employment by the employment agency, indicating any preference, limitation, specification, or discrimination, based on race, color, religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, except that such a notice or advertisement may indicate a preference, limitation, or specification based on religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, when religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, is a bona fide occupational qualification for employment.
- 3. If the contractor is in control of apprenticeship or other training or retraining, including on-the-job training programs, he shall not discriminate against an individual because of his race, color, religion, national origin, sex, disability or age forty (40) and over, in admission to, or employment in any program established to provide apprenticeship or other training.

4. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representative of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment. The contractor will take such action with respect to any subcontract or purchase order as the 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, 1025 Capital Center Drive, Suite 104, Frankfort, Kentucky 40601; telephone (502) 564-7954.

Revised: May 23, 2022

"General Decision Number: KY20220040 05/06/2022

Superseded General Decision Number: KY20210040

State: Kentucky

Construction Type: Highway

Counties: Allen, Ballard, Butler, Caldwell, Calloway, Carlisle, Christian, Crittenden, Daviess, Edmonson, Fulton, Graves, Hancock, Henderson, Hickman, Hopkins, Livingston, Logan, Lyon, Marshall, McCracken, McLean, Muhlenberg, Ohio, Simpson, Todd, Trigg, Union, Warren and Webster Counties in Kentucky.

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

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

|If the contract is entered |. | into on or after January 30, | | 2022, or the contract is | | renewed or extended (e.g., an |. | option is exercised) on or | | after January 30, 2022:

- |. Executive Order 14026 | generally applies to the | contract.
- . The contractor must pay all covered workers at least \$15.00 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 2022.

If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:

- Executive Order 13658 generally applies to the contract.
- The contractor must pay all covered workers at least \$11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at https://www.dol.gov/agencies/whd/government-contracts.

Modification Number	Publication Date
0	01/07/2022
1	01/14/2022
2	02/11/2022
3	02/18/2022
4	02/25/2022
5	05/06/2022

BRIN0004-002 06/01/2021

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

	Rates	Fringes
BRICKLAYER		
Ballard, Caldwell,		
Carlisle, Crittenden,		
Fulton, Graves, Hickman,		
Livingston, Lyon,		
Marshall, and McCracken		
Counties	.\$ 30.50	15.16
Butler, Edmonson, Hopkins,		
Muhlenberg, and Ohio		
Counties	.\$ 26.80	12.38
Daviess, Hancock,		
Henderson, McLean, Union,		
and Webster Counties	.\$ 29.57	14.75
DDTN0004 005 06/04/2024		

BRTN0004-005 06/01/2021

	Rates	Fringes	
BRICKLAYER	\$ 29.75	14.75	
* CARDOSET GOS GA/G1/3G33			-

* CARP0357-002 04/01/2022

	Rates	Fringes	
CARPENTER	\$ 46.64	22.15 22.15 22.15	

ELEC0369-006 05/31/2021

BUTLER, EDMONSON, LOGAN, TODD & WARREN COUNTIES:

	Rates	Fringes
ELECTRICIAN	\$ 33.85	18.72
ELEC0429-001 01/01/2020		

ALLEN & SIMPSON COUNTIES:

	Rates	Fringes
ELECTRICIAN	\$ 27.72	13.48
ELEC0816-002 06/01/2021		

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

Cable spicers receive \$.25 per hour additional.

ELEC1701-003 06/01/2021

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

Cable spicers receive \$.25 per hour additional.

ELEC1925-002 01/01/2022

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

CABLE SPLICER	1	Rates	Fringes
·	-		

ENGI0181-017 07/01/2021

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 1	\$ 34.80	17.85
GROUP 2	\$ 31.94	17.85
GROUP 3	\$ 32.39	17.85
GROUP 4	\$ 31.62	17.85

OPERATING ENGINEER CLASSIFICATIONS

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

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

GROUP 2 - Air Compressor (Over 900 cu. ft. per min.);
Bituminous Mixer; Boom Type Tamping Machine; Bull Float;
Concrete Mixer (Under 21 cu. ft.); Dredge Engineer;
Electric Vibrator; Compactor/Self-Propelled Compactor;
Elevator (One Drum or Buck Hoist); Elevator (When used to
Hoist Building Material); Finish Machine; Firemen & Hoist
(One Drum); Flexplane; Forklift (Regardless of Lift
Height); Form Grader; Joint Sealing Machine; Outboard Motor
Boat; Power Sweeper (Riding Type); Roller (Rock); Ross
Carrier; Skid Mounted or Trailer Mounted 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 equals or exceeds 150 ft. - \$1.00 above Group 1 rate

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

IRON0070-005 06/01/2021

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

Rates Fringes

IRONWORKER

Structural; Ornamental; Reinforcing; Precast

Concrete Erectors......\$ 31.09 23.

23.75

IRON0103-004 08/01/2021

DAVIESS, HANCOCK, HENDERSON, HOPKINS, MCLEAN, OHIO, UNION & WEBSTER COUNTIES

BUTLER COUNTY (Townships of Aberdeen, Bancock, Casey, Dexterville, Dunbar, Elfie, Gilstrap, Huntsville, Logansport, Monford, Morgantown, Provo, Rochester, South Hill & Welchs Creek);

CALDWELL COUNTY (Northeastern third, including the Township of Creswell);

CHRISTIAN COUNTY (Northern third, including the Townships of Apex, Crofton, Kelly, Mannington & Wynns);

CRITTENDEN COUNTY (Northeastern half, including the Townships of Grove, Mattoon, Repton, Shady Grove & Tribune);
MUHLENBERG COUNTY (Townships of Bavier, Beech Creek Junction, Benton, Brennen, Browder, Central City, Cleaton, Depoy, Drakesboro, Eunis, Graham, Hillside, Luzerne, Lynn City, Martwick, McNary, Millport, Moorman, Nelson, Paradise, Powderly, South Carrollton, Tarina & Weir)

Rates Fringes
Ironworkers:.....\$30.00 25.29

IRON0492-003 05/01/2021

ALLEN, LOGAN, SIMPSON, TODD & WARREN COUNTIES
BUTLER COUNTY (Southern third, including the Townships of
Boston, Berrys Lick, Dimple, Jetson, Quality, Sharer, Sugar
Grove & Woodbury);

CHRISTIAN COUNTY (Eastern two-thirds, including the Townships of Bennettstown, Casky, Herndon, Hopkinsville, Howell, Masonville, Pembroke & Thompsonville);

EDMONSON COUNTY (Southern fourth, including the Townships of Chalybeate & Rocky Hill);

MUHLENBERG COUNTY (Southern eighth, including the Townships of Dunnior, Penrod & Rosewood)

Rates Fringes

Ironworkers:.....\$ 30.35 15.36

IRON0782-006 08/01/2021

BALLARD, CALLOWAY, CARLISLE, FULTON, GRAVES, HICKMAN, LIVINGSTON, LYON, MARSHALL, MCCRACKEN & TRIGG COUNTIES CALDWELL COUNTY (Southwestern two-thirds, including the Townships of Cedar Bluff, Cider, Claxton, Cobb, Crowtown, Dulaney, Farmersville, Fredonia, McGowan, Otter Pond & Princeton);

CHRISTIAN COUNTY (Western third, Excluding the Townships of Apex, Crofton, Kelly, Mannington, Wynns, Bennettstown, Casky, Herndon, Hopkinsville, Howell, Masonville, Pembroke & Thompsonville);

CRITTENDEN COUNTY (Southwestern half, including the Townships of Crayne, Dycusburg, Frances, Marion, Mexico, Midway, Sheridan & Told)

Rates Fringes

Ironworkers:

Projects with a total

contract cost of \$20,000,000.00 or above....\$ 30.83 25.52 All Other Work......\$ 29.24 23.22

LAB00189-005 07/01/2021

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

	Rates	Fringes
Laborers:		
GROUP	1\$ 23.51	16.22
GROUP	2\$ 23.76	16.22
GROUP	3\$ 23.81	16.22
GROUP	4\$ 24.41	16.22

LABORER CLASSIFICATIONS

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

GROUP 2 - Batter Board Man (Sanitary & Storm Sewer);
Brickmason Tender; Mortar Mixer Operator; Scaffold Builder;
Burner & Welder; 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; Blaster; Side Rail Setter; Rail Paved Ditches; Screw Operator; Tunnel (Free Air); Water Blaster

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

LAB00189-006 07/01/2021

ALLEN, BUTLER, CALDWELL, CHRISTIAN, DAVIESS, EDMONSON, HANCOCK, HOPKINS, LOGAN, MCLEAN, MUHLENBERG, OHIO, SIMPSON, TODD, TRIGG & WARREN COUNTIES

	Rates	Fringes
		S
Laborers:		
GROUP	1\$ 23.51	16.22
GROUP	2\$ 23.76	16.22
GROUP	3\$ 23.81	16.22
GROUP	4\$ 24.41	16.22

LABORER CLASSIFICATIONS

GROUP 1 - Aging & Curing of Concrete; Asbestos Abatement Worker; Asphalt Plant; Asphalt; Batch Truck Dump; Carpenter Tender; Cement Mason Tender; Cleaning of Machines; Concrete; Demolition; Dredging; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level D; Flagperson; Digging & Hand Back Filling; Highway Grade Checker; Hand 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; Blaster; Side Rail Setter; Rail Paved Ditches; Screw Operator; Tunnel (Free Air); Water Blaster

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

LAB00561-001 07/01/2021

CRITTENDEN, HENDERSON, UNION & WEBSTER COUNTIES

	Rates	Fringes
Laborers:		
GROUP	1\$ 24.01	16.60
GROUP	2\$ 24.26	16.60
GROUP	3\$ 24.31	16.60
GROUP	4\$ 24.91	16.60

LABORER CLASSIFICATIONS

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

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

PAIN0032-002 09/01/2020

BALLARD COUNTY

	Rates	Fringes
Painters: Bridges		17.93 17.93
Spray, Blast, Steam, High & Abatement) and All Epoxy -		luding Lead
PAIN0118-003 06/01/2014		

EDMONSON COUNTY:

Rates	Fringes	
Painters: Brush & Roller\$ 18.50 Spray, Sandblast, Power	11.97	
Tools, Waterblast & Steam Cleaning\$ 19.50	11.97	

^{*} PAIN0156-006 04/01/2022

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

	Rates	Fringes
Painters:		
BRIDGES		
GROUP 1\$	28.45	18.98
GROUP 3\$	29.45	18.98
GROUP 4\$	30.70	18.98
ALL OTHER WORK:		
GROUP 1\$	27.30	18.98
GROUP 2\$	27.55	18.98
GROUP 3\$	28.30	18.98
GROUP 4\$	29.55	18.98

PAINTER CLASSIFICATIONS

GROUP 1 - Brush & Roller

GROUP 2 - Plasterers

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

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

PAIN0500-002 06/01/2020

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

	Rates	Fringes
Painters:		
Bridges	\$ 27.75	15.10
All Other Work	\$ 21.50	15.10

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

PLUM0184-002 07/01/2021

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

	Rates	Fringes
Plumber; Steamfitter	\$ 37.16	19.03
DI IMOCO 2 004 00 /01 /2021		

PLUM0502-004 08/01/2021

ALLEN, BUTLER, EDMONSON, SIMPSON & WARREN

Rates Fringes
Plumber; Steamfitter......\$ 38.07 20.78

PLUM0633-002 07/01/2021

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

Rates Fringes

PLUMBER/PIPEFITTER.....\$33.17 19.30
-----TEAM0089-003 04/01/2020

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

	Rates	Fringes
Truck drivers: Zone 1:		
Group 1		23.49 23.49
Group 3	.\$ 21.08	23.49 23.49

GROUP 1 - Greaser; Tire Changer

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

GROUP 3 - Mixer All Types

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

TEAM0215-003 04/01/2020

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

	Rates	Fringes
TRUCK DRIVER		
Group 1	\$ 22.45	23.49
Group 2	\$ 22.68	23.49
Group 3	\$ 22.75	23.49
Group 4	\$ 22.76	23.49

GROUP 1: Greaser, Tire Changer

GROUP 2: Truck Mechanic

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

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

TEAM0236-001 04/01/2020

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

	Rates	Fringes
TRUCK DRIVER		
Group 1	.\$ 20.82	23.49
Group 2	.\$ 21.00	23.49
Group 3	.\$ 21.00	23.49
Group 4	.\$ 21.00	23.49
Group 5	.\$ 21.08	23.49

GROUP 1: Greaser, Tire Changer

GROUP 2: Truck Mechanic

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

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

GROUP 5: Mixer All Types

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

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

https://www.dol.gov/agencies/whd/government-contracts.

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

.....

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

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

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

Survey Rate Identifiers

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

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

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union

average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

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

WAGE DETERMINATION APPEALS PROCESS

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

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

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

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

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

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

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

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

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

WARREN COUNTY HSIP 9010(348) Contract ID: 224425 Page 141 of 148

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

END OF GENERAL DECISIO"

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

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

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

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

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

TO: EMPLOYERS/EMPLOYEES

PREVAILING WAGE SCHEDULE:

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

OVERTIME:

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

Director Division of Construction Procurement Frankfort, Kentucky 40622 502-564-3500 WARREN COUNTY HSIP 9010(348)

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
12.0%	6.9%

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

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

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

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

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

PART IV

INSURANCE

Refer to *Kentucky Standard Specifications for Road and Bridge Construction*,

current edition

PART V

BID ITEMS

Contract ID: 224425 Page 146 of 148

Page 1 of 3

224425

PROPOSAL BID ITEMS

Report Date 5/25/22

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00001		DGA BASE	50.00	TON		\$	
0020	00003		CRUSHED STONE BASE	344.00	TON		\$	
0030	00214		CL3 ASPH BASE 1.00D PG64-22	446.00	TON		\$	
0040	00223		CL3 ASPH BASE 0.75D PG64-22	11.00	TON		\$	
0050	00388		CL3 ASPH SURF 0.38B PG64-22	53.00	TON		\$	
0060	20071EC		JOINT ADHESIVE	442.00	LF		\$	
0070	21289ED		LONGITUDINAL EDGE KEY	442.00	LF		\$	
0800	24970EC		ASPHALT MATERIAL FOR TACK NON- TRACKING	.80	TON		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0090	01810	STANDARD CURB AND GUTTER	386.00	LF		\$	
0100	02200	ROADWAY EXCAVATION	599.00	CUYD		\$	
0110	02242	WATER	23.00	MGAL		\$	
0120	02429	RIGHT-OF-WAY MONUMENT TYPE 1	4.00	EACH		\$	
0130	02432	WITNESS POST	4.00	EACH		\$	
0140	02545	CLEARING AND GRUBBING (0.40 AC)	1.00	LS		\$	
0150	02650	MAINTAIN & CONTROL TRAFFIC (WARREN US 231)	1.00	LS		\$	
0160	02701	TEMP SILT FENCE	298.00	LF		\$	
0170	02703	SILT TRAP TYPE A	1.00	EACH		\$	
0180	02704	SILT TRAP TYPE B	1.00	EACH		\$	
0190	02705	SILT TRAP TYPE C	1.00	EACH		\$	
0200	02706	CLEAN SILT TRAP TYPE A	1.00	EACH		\$	
0210	02707	CLEAN SILT TRAP TYPE B	1.00	EACH		\$	
0220	02708	CLEAN SILT TRAP TYPE C	1.00	EACH		\$	
0230	02720	SIDEWALK-4 IN CONCRETE	228.00	SQYD		\$	
		STAKING					
0240	02726	(WARREN US 231)	1.00	LS		\$	
0250	05952	TEMP MULCH		SQYD		\$	
0260	05953	TEMP SEEDING AND PROTECTION		SQYD		\$	
0270	05963	INITIAL FERTILIZER	.10	TON		\$	
0280	05964	MAINTENANCE FERTILIZER	.10	TON		\$	
0290	05985	SEEDING AND PROTECTION		SQYD		\$	
0300	05992	AGRICULTURAL LIMESTONE	.90	TON		\$	
0310	06510	PAVE STRIPING-TEMP PAINT-4 IN	1,349.00	LF		\$	
0320	06542	PAVE STRIPING-THERMO-6 IN W	761.00	LF		\$	
0330	06565	PAVE MARKING-THERMO X-WALK-6 IN	288.00	LF		\$	
0340	06566	PAVE MARKING-THERMO X-WALK-12 IN	288.00	LF		\$	
0350	06568	PAVE MARKING-THERMO STOP BAR-24IN	58.00	LF		\$	
0360	06572	PAVE MARKING-DOTTED LANE EXTEN	80.00	LF		\$	
0370	06574	PAVE MARKING-THERMO CURV ARROW	4.00	EACH		\$	
0380	06598	PAVEMENT MARKING REMOVAL	325.00	SQFT		\$	
0390	08901	CRASH CUSHION TY VI CLASS BT TL2	1.00	EACH		\$	

Contract ID: 224425 Page 147 of 148

224425

PROPOSAL BID ITEMS

Report Date 5/25/22

Page 2 of 3

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0400	20430ED		SAW CUT	62.00	LF		\$	
0410	22664EN		WATER BLASTING EXISTING STRIPE	35.00	LF		\$	
0420	23158ES505		DETECTABLE WARNINGS	102.00	SQFT		\$	

Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0430	00521		STORM SEWER PIPE-15 IN	397.00	LF		\$	
0440	01005		PERFORATED PIPE EDGE DRAIN-4 IN	386.00	LF		\$	
0450	01015		INSPECT & CERTIFY EDGE DRAIN SYSTEM (WARREN US 231)	1.00	LS		\$	
0460	01456		CURB BOX INLET TYPE A	2.00	EACH		\$	
0470	01585		REMOVE DROP BOX INLET (REMOVE TOP PHASE ONLY)	2.00	EACH		\$	
0480	01653		JUNCTION BOX-SPECIAL	2.00	EACH		\$	
0490	01740		CORED HOLE DRAINAGE BOX CON-4 IN	2.00	EACH		\$	
0500	02159		TEMP DITCH	298.00	LF		\$	
0510	02160		CLEAN TEMP DITCH	149.00	LF		\$	
0520	02607		FABRIC-GEOTEXTILE CLASS 2 FOR PIPE	1,218.00	SQYD	\$2.00	\$	\$2,436.00
0530	23822EC		CORED HOLE DRAINAGE BOX CON-15 IN	1.00	EACH		\$	
0540	23952EC		DRAINAGE JUNCTION BOX TY B	1.00	EACH		\$	
0550	24814EC		PIPELINE INSPECTION	406.00	LF		\$	

Section: 0004 - SIGNING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0560	02562		TEMPORARY SIGNS	165.00	SQFT		\$	
0570	02671		PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH		\$	
0580	02775		ARROW PANEL	1.00	EACH		\$	
0590	20418ED		REMOVE & RELOCATE SIGNS	2.00	EACH		\$	

Section: 0005 - SIGNALIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0600	04792		CONDUIT-1 IN	35.00	LF		\$	
0610	04793		CONDUIT-1 1/4 IN	240.00	LF		\$	
0620	04795		CONDUIT-2 IN	80.00	LF		\$	
0630	04811		ELECTRICAL JUNCTION BOX TYPE B	6.00	EACH		\$	
0640	04820		TRENCHING AND BACKFILLING	355.00	LF		\$	
0650	04830		LOOP WIRE	2,400.00	LF		\$	
0660	04844		CABLE-NO. 14/5C	2,200.00	LF		\$	
0670	04850		CABLE-NO. 14/1 PAIR	2,065.00	LF		\$	
0680	04885		MESSENGER-10800 LB	390.00	LF		\$	
0690	04895		LOOP SAW SLOT AND FILL	1,005.00	LF		\$	
0700	04932		INSTALL STEEL STRAIN POLE	4.00	EACH		\$	
0710	20093NS835		INSTALL PEDESTRIAN HEAD-LED	6.00	EACH		\$	

Contract ID: 224425 Page 148 of 148

224425

PROPOSAL BID ITEMS

Report Date 5/25/22

Page 3 of 3

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0720	20188NS835		INSTALL LED SIGNAL-3 SECTION	8.00	EACH		\$	
0730	20266ES835		INSTALL LED SIGNAL- 4 SECTION	4.00	EACH		\$	
0740	20390NS835		INSTALL COORDINATING UNIT	1.00	EACH		\$	
0750	21743NN		INSTALL PEDESTRIAN DETECTOR	6.00	EACH		\$	
0760	23157EN		TRAFFIC SIGNAL POLE BASE	16.80	CUYD		\$	
0770	24908EC		INSTALL SIGNAL CONTROLLER-TY ATC	1.00	EACH		\$	
0780	24955ED		REMOVE SIGNAL EQUIPMENT	1.00	EACH		\$	

Section: 0006 - LANDSCAPING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0790	05990		SODDING	175.00	SQYD		\$	

Section: 0007 - DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0800	02569		DEMOBILIZATION	1.00	L	S	\$	