

CALL NO. 318

CONTRACT ID. 162260

KNOTT COUNTY

FED/STATE PROJECT NUMBER FD51 060 3391 001-007

DESCRIPTION PERKINS MADDEN ROAD (KY 3391)

WORK TYPE FLOOD REPAIR FOR FEMA

PRIMARY COMPLETION DATE 6/30/2017

LETTING DATE: August 26,2016

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN DAYLIGHT TIME August 26,2016. Bids will be publicly announced at 10:00 AM EASTERN DAYLIGHT TIME.

NO PLANS ASSOCIATED WITH THIS PROJECT.

DEFERRED PAYMENT

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
- STATE CONTRACT NOTES
- 2016 DEFERRED PAY
- SPECIAL NOTE(S) APPLICABLE TO PROJECT
- WASTE AND BORROW SITES
- NEW GUARDRAIL INSTALLATION
- TRAFFIC CONTROL PLAN 2 LANE
- EROSION CONTROL PLAN FOR MAINTENANCE PROJECTS
- SKETCH MAP(S)
- SUMMARY SHEET(S)
- DETAIL SHEETS FOR SLIDE REPAIR

PART II SPECIFICATIONS AND STANDARD DRAWINGS

- SPECIFICATIONS REFERENCE
- SUPPLEMENTAL SPECIFICATION
- 2016 STANDARD DRAWINGS THAT APPLY

PART III EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

- LABOR AND WAGE REQUIREMENTS
- EXECUTIVE BRANCH CODE OF ETHICS
- KENTUCKY EQUAL EMPLOYMENT OPPORTUNITY ACT OF 1978 LOCALITY 1,2,3,4 / STATE (UNDER 250,000)
- PROJECT WAGE RATES LOCALITY 1,2,3,4 / STATE

PART IV INSURANCE

PART V BID ITEMS

PART I SCOPE OF WORK

ADMINISTRATIVE DISTRICT - 12

CONTRACT ID - 162260 FD51 060 3391 001-007

COUNTY - KNOTT

PCN - MP06033911603 FD51 060 3391 001-007

PERKINS MADDEN ROAD (KY 3391) (MP 1.588) FROM 1162 FEET SOUTH OF IRISHMAN CREEK ROAD EXTENDING NORTH TO 781 FEET SOUTH OF KY 160 (MP 6.125), A DISTANCE OF 04.54 MILES.FLOOD REPAIR FOR FEMA

GEOGRAPHIC COORDINATES LATITUDE 37:18:08.00 LONGITUDE 82:58:31.00

COMPLETION DATE(S):

COMPLETED BY 06/30/2017

APPLIES TO ENTIRE CONTRACT

CONTRACT NOTES

PROPOSAL ADDENDA

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

BID SUBMITTAL

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

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

JOINT VENTURE BIDDING

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

UNDERGROUND FACILITY DAMAGE PROTECTION

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

SPECIAL NOTE FOR COMPOSITE OFFSET BLOCKS

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

REGISTRATION WITH THE SECRETARY OF STATE BY A FOREIGN ENTITY

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

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

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

SPECIAL NOTE FOR PROJECT QUESTIONS DURING ADVERTISEMENT

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

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

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

HARDWOOD REMOVAL RESTRICTIONS

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

INSTRUCTIONS FOR EXCESS MATERIAL SITES AND BORROW SITES

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

ACCESS TO RECORDS

The contractor, as defined in KRS 45A.030 (9) agrees that the contracting agency, the Finance and Administration Cabinet, the Auditor of Public Accounts, and the Legislative Research Commission, or their duly authorized representatives, shall have access to any books, documents, papers, records, or other evidence, which are directly pertinent to this contract for the purpose of financial audit or program review. Records and other prequalification information confidentially disclosed as part of the bid process shall not be deemed as directly pertinent to the contract and shall be exempt from disclosure as provided in KRS 61.878(1)(c). The contractor also recognizes that any books, documents, papers, records, or other evidence, received during a financial audit or program review shall be subject to the Kentucky Open Records Act, KRS 61.870 to 61.884.

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

06/01/16

SPECIAL NOTE FOR RECIPROCAL PREFERENCE

Reciprocal preference to be given by public agencies to resident bidders

By reference, KRS 45A.490 to 45A.494 are incorporated herein and in compliance regarding the bidders residency. Bidders who want to claim resident bidder status should complete the Affidavit for Claiming Resident Bidder Status along with their bid in the Expedite Bidding Program. Submittal of the Affidavit should be done along with the bid in Bid Express.

DEFERRED PAYMENT: The contractor shall have the distinct understanding that payment for any Work Performed Estimates may be delayed until December 31, 2016.

SPECIAL NOTES SLIDE REPAIR PROJECT

I. DESCRIPTION

This work shall be performed in accordance with the Department's Current Standard Specifications and applicable Special Provisions except as hereafter specified. Article references are to the Standard Specifications.

This work shall consist of: (1) Do necessary excavation; (2) Furnish and install railroad rails; (3) **Install wall cribbing furnished by the Department of Highways;** (4) Excavate, place geotextile material, and backfill the area around the railroad rails and on the fill slope; (5) Reconstruct shoulder area; (6) Install guardrail, as stated in the guardrail special notes; (7) Maintain and control traffic; and (8) any other work as specified by this contract.

II. MATERIALS

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

- **A.** Railroad Rails. Use recycled (used) railroad rails classified with a nominal weight of 130 lb./yd (pounds per yard) size or greater. Use only visibly straight recycled railroad rails with no splices. The Engineer will verify rail nominal weights (Manufacturer's Stamp with lb./yd, date, etc.). Provide Certification for nominal weight if the Manufacturer's Stamp is unidentifiable.
- **B.** Wall Cribbing. Use wall cribbing: recycled (used) steel "W" beam guardrail. Cribbing material will furnished by the Department of Highways. The Department will make the materials available to the Contractor at the Bailey Bridge Lot between the hours of 8:00 a.m. and 3:30 p.m. Monday through Friday.
- C. Backfill material for Drilled Sockets. Use the following for backfill material for Drilled sockets: concrete; free flowing sand; pea gravel, crushed limestone, or crushed sandstone. Use backfill material with one hundred percent (100%) passing a one-half (1/2) inch sieve. Do not use auger tailings. Engineer will use visual inspection and/or material testing, as applicable to determine acceptability.
- **D. Fill Material for CRIBBING.** Use one of the following backfill materials: Kentucky Aggregate Gradation No. 2's or larger. Backfill material shall meet requirements of Section 805. The Engineer will use visual inspection and/or material testing, as applicable to determine acceptability.

NOTES SLIDE REPAIR PROJECT Page 2

- **E. DGA.** Furnish Dense Graded Aggregate as per Section 805. Do not use Crushed Stone Base.
- **F. Final Dressing, Seed and Protection.** Use Seed Mixture No. 1.
- G. Silt Trap A, B or C. Furnish Silt traps as per Std Drawings and Section 213.
- **H. Silt Fence.** Furnish Temporary Silt Fence as per Section 213 and Section 827.
- **I. Geotextile Fabric.** Furnish Geotextile Fabric Type 1V as per Section 843.

III. CONSTRUCTION METHODS

- **A. Maintain and Control Traffic.** See Traffic Control Plan.
- **B. Staking.** Establish proper slope elevations and ratios, shoulder widths, existing ditch profile and final ditch profile to insure positive drainage. Be responsible for field layout. Positive drainage is required upon completion of the project and is the responsibility of the Contractor.
- **C. Site Preparation.** Prepare flood repair sites. This includes clearing and grubbing, if necessary. Remove all obstructions. Sweep and remove debris, if necessary. The area to be cleared has not been measured by the Department and the bidder must draw his own conclusions. Construct silt checks and Temporary silt fence at locations directed by the engineer. The Engineer shall approve all site preparation. The Department will not make direct payment for site preparation.
- **D. Installation of Railroad Rails.** See attached summary for site locations and estimated quantities of materials required. <u>Contrary to the attached tables and drawings for drilled railroad rails, Install only 1 Row of RR Rails on 3 foot centers unless otherwise shown on the summary or mentioned in these notes. <u>The depth to rock shown on the location summary is approximate.</u> The embankment failures at these sites are caused by erosion.</u>

NOTE TO ENGINEER AND CONTRACTOR: ABSOLUTELY NO CHANGE IN SCOPE OF WORK OR INCREASE IN QUANTITIES WILL BE ALLOWED ON THIS PROJECT WITHOUT PRIOR WRITTEN APPROVAL FROM THE TEBM (Transportation Engineering Branch Manager) FOR OPERATIONS OR HIS REPRESENTATIVE IN THE DISTRICT OFFICE.

NOTES SLIDE REPAIR PROJECT Page 3

THE DEPARTMENT SHALL NOT BE LIABLE FOR PAYMENTS DUE TO ADDITIONAL WORK THAT HAS NOT BEEN AUTHORIZED BY THE AFOREMENTIONED PERSONS.

Install used railroad rail piling in drilled sockets in rock or stable material under the landslides (see figure 1) or the eroded areas (see figure 2) as project location dictates or as directed by the Engineer.

Drill the socket, furnish, and install the railroad rails into holes at slide locations. If the Engineer determines from the sounding obtained at a drilled socket that railroad rail piling cannot be used in that socket, the depth of the socket shall be measured and 50% of the depth shall be paid as "Railroad Rail-Drilled". Drill sockets into solid rock, if possible. The Department will monitor each hole, which will serve as a sounding for the rail to be installed in it. Embed the railroad rail into solid rock no less than one-half the free end length of the rail. (See figure 1 and figure 2). If solid rock cannot be obtained, the Engineer will determine the length of embedment required in other stable foundation. Allow adequate size of the drilled socket to allow free insertion of the railroad rail, but the maximum socket size is 1 foot in diameter.

After each hole is drilled, install railroad rail immediately with the flanges positioned perpendicular to the direction of the landslide or break (see figure 3). Determine the height of rail that is needed to reestablish pavement and shoulder typical section. Cut off excess rail flush with the proposed ground line that is not needed. Use cutoffs elsewhere in the project if possible; unusable cutoffs remain the property of the Contractor.

After railroad rail is installed, immediately backfill the drilled hole with the approved materials. Shovel the backfill material into the hole in small amounts. Avoid bridging between the rail and the sides of the hole. Do not use Auger tailings as backfill material.

When double or triple rows are required, stagger the rows to obtain the required spacing. Keep the spacing between the rows of rails as close as is practical; do not space between the rows of more than 2 feet, if possible. See figure 3 (Case II and Case III) for the diagrams showing two (2) or three (3) rows of rails. Select the spacing as per Table 1 for all 130 pound per yard rail or greater. The Department shall approve the selection prior to work being performed.

Crib any exposed portion of railroad rail before placing backfill.

KNOTT COUNTY FD51 060 3391 001-007 Contract ID: 162260 Page 13 of 79

NOTES SLIDE REPAIR PROJECT Page 4

E. Excavation and Backfill for Embankment Repair. Excavate each embankment/flood repair area to provide a platform for drilling the used railroad rails, if necessary. Excavate for roadway ditches as necessary for slope, shoulder and pavement drainage. Place geotextile fabric, then construct embankment behind railroad rails, cribbing and on slope, as per Section 206. Construct embankment up to the approximate existing pavement elevation.

Reconstruct the shoulder area with DGA up to the approximate existing elevation and width of the surrounding typical section or to a minimum width of <u>2 Feet</u> at each slide location. Do not pond water on the shoulder area or at the shoulder edge. Reconstruct the shoulder before installing guardrail. Asphalt paving will not be part of the contract. If necessary, asphalt paving will be done by state forces at a later date.

DO NOT USE EXCAVATED MATERIAL FROM THE SITE AS FILL MATERIAL. Excess excavation may be wasted at sites on the right-of-way, ONLY if approved by the Engineer. Material may NOT be wasted in flood prone areas or in streams.

If the Engineer deems no suitable sites are available within the right-of-way, the Contractor will be required to waste excess material off the right-of-way at sites obtained by the Contractor at no cost to the Department.

- **F. Installation of Wall Cribbing**. Install Cribbing as shown on Figure 1 or Figure 2 as slide location dictates or as directed by the Engineer. Extend wall cribbing 2 feet below the existing ground line. If bedded rock is encountered, install the cribbing to the bedded rock only. If necessary, the Engineer will direct changes to this procedure. Furnish all labor and equipment to deliver and install wall cribbing on the recycled (used) railroad rail piling. Wall cribbing shall be lapped, bolted, and attached solid to the drilled railroad rails.
- **G. Final Dressing, Seeding and Protection**. Apply Final Dressing; Class A to all disturbed areas, both on and off the right-of-way. Sow with Seed Mixture No. 1. The Department will NOT make direct payment for final dressing, or seeding and protection.
- **H. On-Site Inspection.** Each Contractor submitting a bid for this work shall make a thorough inspection of the site prior to submitting his bid and shall thoroughly familiarize themselves with the existing conditions so that the work can be expeditiously performed after a contract is awarded. Submission of a bid will be considered evidence of this inspection having been made.
- **I. Right-of-Way Limits.** Right-of-Way and easement limits shown on the plans are approximate only. The Contractor shall make every effort to limit his activities to obvious

NOTES SLIDE REPAIR PROJECT Page 5

right-of-way and permanent or temporary easements and shall be responsible for encroachments onto private lands.

J. Property Damage. The Contractor will be responsible for all damage to public and/or private property resulting from his work.

IV. METHOD OF MEASUREMENT

- **A. Maintain and Control Traffic.** See Traffic Control Plan.
- **B.** Railroad Rail-Drilled. The Department will measure this item in Linear Feet finished in-place length: Laps, cutoffs, excess and waste will not be measured for payment. If the Engineer determines from the sounding obtained at a drilled socket that railroad rail piling cannot be used in that socket, the depth of the socket shall be measured and 50% of the depth shall be paid as "Railroad Rail-Drilled".
- **C. Wall Cribbing** The Department will measure this item in square feet finished inplace area. Laps, cutoffs, excess and waste will not be measured for payment.
- **D.** Excavation and Backfill. The Department will measure this item in cubic yards. The Department will measure the quantity in the field as per Section 204 (Roadway Excavation) or other accepted methods of measurement as directed by the Engineer. The following items will not be measured directly by the Department: Site Preparation, Clearing and Grubbing, Seeding and Protection, Final Dressing, Temporary Erosion Control, Temporary Pollution Control, Waste removal, and Disposal, but will be incidental to "Excavation and Backfill" as applicable to each project.
- E. Site Preparation, Clearing and Grubbing, Seeding and Protection, Fertilizer, Temporary Erosion Control, Temporary Pollution Control, Waste Disposal. The Department will NOT MEASURE for payment these items. They include Site Preparation, Clearing and Grubbing, Seeding and Protection, Final Dressing, Temporary Erosion Control, Temporary Pollution Control, Waste Disposal, and other items not expressly bid as individual items. These items shall be incidental to the bid item "Excavation and Backfill" as applicable to each project.

NOTES SLIDE REPAIR PROJECT Page 6

V. BASIS OF PAYMENT

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B.** Railroad Rail-Drilled. The Department will pay for the completed and accepted quantities under the bid item of "Railroad Rail-Drilled". The Department will consider payment full compensation for all work required in these notes and elsewhere in the Contract.
- C. Excavation and Backfill. The Department will pay for the completed and accepted quantities under the bid item: Excavation and Backfill. Payment will be based on quantity measured in the field. The Department will consider payment full compensation for all work required on the project. The following items are incidental to "Excavation and Backfill" and will not be measured directly by the Department. These items include Site Preparation, Clearing and Grubbing, Seeding and Protection, Final Dressing, Temporary Erosion Control, Temporary Pollution Control, Waste removal and Disposal.
- **D.** Wall Cribbing. The Department will pay for the completed and accepted quantities under the bid item of "Wall Cribbing". Payment will be based on the quantity installed in the field. The Department will not make separate payment for the hauling of the wall cribbing to the slide site. The Department will consider payment full compensation for all work required on the project.
- E. Site Preparation, Clearing and Grubbing, Seeding and Protection, Fertilizer, Temporary Erosion Control, Temporary Pollution Control, Waste Disposal. The Department will NOT make direct payment for operations for which bid items do not exist. They include items listed here: Site Preparation, Clearing and Grubbing, Seeding and Protection, Final Dressing, Temporary Erosion Control, Temporary Pollution Control, Waste removal and Disposal. These activities shall be incidental to the bid item "Excavation and Backfill" as applicable to each project.

KNOTT COUNTY FD51 060 3391 001-007 Contract ID: 162260 Page 16 of 79

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 NOTES FOR GUARDRAIL

I. DESCRIPTION

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

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

(1) Site preparation; (2) Remove existing guardrail systems; (3) Resetting and installing guardrail systems; (4) Install Guardrail furnished by the Department; (5) End Treatments, Bridge End Connectors, and Terminal Sections, as applicable; (6) Delineators for guardrail; (7) Maintain and control traffic; and (8) all other work specified as part of this contract.

II. MATERIALS

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

- A Maintain and Control Traffic. See Traffic Control Plan.
- **B. Delineators for Guardrail.** Furnish bi-directional white and/or yellow Delineators for Guardrail according to the Delineators for Guardrail Sepia Drawing.
- **C. Erosion Control.** See Special Note for Erosion Control.

III. CONSTRUCTION METHODS

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

KNOTT COUNTY FD51 060 3391 001-007 Contract ID: 162260 Page 18 of 79

Guardrail Page 2 of 3

and debris; and final dressing, cleanup, and seeding and protection. Perform all site preparation as approved or directed by the engineer.

C. Remove and Reset Guardrail system, including Concrete Posts and Existing Guardrail End Treatments. Remove existing guardrail system including the guardrail end treatments, Bridge End connectors and all other elements of the existing guardrail system as per Section 719, except that the Contractor will take possession of all concrete posts and all concrete associated with existing bridge and/or guardrail end treatments. Locate all disposal areas off the Right of Way.

Dispose of all existing concrete off the right of way at locations approved by the Engineer. Salvage existing material as per Section 719.03.06, except that salvaged guardrail and guardrail end treatments shall be reused and reset in locations designated by the Engineer. Remove any existing guardrail with a lane closure in place. Do not leave the area unprotected. After the guardrail is removed, a shoulder closure shall remain in place until the guardrail is replaced in that area.

Reset and install guardrail systems as per Section 719. Steel guardrail posts are required. No alternate is allowed. The shoulder width shall be a minimum of 2 Ft unless otherwise directed by the Engineer. Grade slopes and shoulders as per applicable guardrail standard drawings. Guardrail locations shown on summary and/or drawing are approximate only. The Engineer will determine the exact termini for guardrail installations at time of construction. Construct radii at entrances and road intersections as per applicable Standard Drawings.

- **D. Delineators for Guardrail.** Construct Delineators for Guardrail according to the delineators for Guardrail Sepia Drawing.
- **E. Property Damage.** Be responsible for all damage to public and/or private property resulting from the work. Restore damaged roadway features and private property at no additional cost to the Department.
- **F. Coordination with Utility Companies.** Locate all underground, above ground and overhead utilities prior to beginning construction. Be responsible for contacting and maintaining liaison with all utility companies that have utilities located within the project limits. Do not disturb existing overhead or underground utilities. It is not anticipated that any utility facilities will need to be relocated and/or adjusted; however, in the event that it is discovered that the work does require 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 guardrail operations at no additional cost to the Department.
- **G. Right of Way Limits**. The Department has not established exact limits of the Right-of-Way. Limit work activities to obvious Right-of-Way, permanent or temporary easements,

Guardrail Page 3 of 3

and work areas secured by the Department through consent and release of the adjacent property owners. Be responsible for all encroachments onto private lands.

- **H. Disposal of Waste.** Dispose of all removed concrete, debris, and other waste and debris off the Right-of-Way at sites obtained by the Contractor at no additional cost to the Department. See Special Note for Waste and Borrow.
- **I. Final Dressing, Clean Up, and Seeding and Protection.** Apply Class A Final Dressing to all disturbed areas, both on and off the Right-of-Way. Sow all disturbed earthen areas according to the Special Note for Erosion Control.
- **J. Erosion Control.** See Special Note for Erosion Control.

IV. METHOD OF MEASUREMENT

- **A. Maintain and Control Traffic.** See Traffic Control Plan.
- **B. Site preparation.** Other than the bid items listed, the Department will not measure Site Preparation for separate payment but shall be incidental to Remove and Reset Guardrail; Guardrail, Steel W Beam Single Face, Install; End Treatments; Bridge End Connectors; and Terminal Sections as applicable.
- C. Remove and Reset Guardrail. The Department will measure the quantity in Linear Feet.
- D. Delineators for Guardrail. See Delineators for Guardrail Sepia Drawing.
- **E. Erosion Control.** See Special Note for Erosion Control.

V. BASIS OF PAYMENT

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B. Remove and Reset Guardrail.** The Department will make payment for the completed and accepted quantities of Remove and Reset Guardrail. The Department will consider payment as full compensation for furnishing all materials, equipment, labor, other expenses and all incidentals necessary to complete this work to remove and reset the Guardrail.
- C. Delineators for Guardrail. See Delineators for Guardrail Sepia Drawing.
- **D. Erosion Control.** See Special Note for Erosion Control.

TRAFFIC CONTROL PLAN

TRAFFIC CONTROL GENERAL

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

Contrary to Section 106.01, furnish new, or used in like new condition, traffic control devices at the beginning of the work and maintain in like new condition until completion of the work.

PROJECT PHASING & CONSTRUCTION PROCEDURES

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

Maintain alternating one way traffic during construction. Provide a minimum clear lane width of 9 feet; however, provide for passage of vehicles of up to 16 feet in width. If traffic should be stopped due to construction operations, and a school bus on an official run arrives on the scene, make provisions for the passage of the bus as quickly as possible.

LANE CLOSURES

Do not leave lane closures in place during non-working hours.

SIGNS

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

CHANGEABLE MESSAGE SIGNS

If deemed necessary by the Engineer, the Department will furnish, operate, and maintain Changeable Message Signs.

Traffic Control Plan Page 2 of 3

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.

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

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.

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 unresurfaced 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.

Traffic Control Plan Page 3 of 3

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 on coming 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.

SPECIAL NOTE FOR EROSION CONTROL

I. DESCRIPTION

Except as provided herein, perform all erosion and water pollution control work in accordance with the Department's Standard and Supplemental Specifications, and Standard and Sepia Drawings, current editions, and 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(s) 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

Except as provided herein, furnish all materials for erosion and water pollution control work in accordance with the Department's Standard and Supplemental Specifications, and Standard and Sepia Drawings, current editions, and as directed by the Engineer.

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

Except as provided herein, construct all erosion and water pollution control work in accordance with the Department's Standard and Supplemental Specifications, and Standard and Sepia Drawings, current editions, and as directed by the Engineer.

Erosion Control Page 2 of 3

Be advised, these Erosion Control Plan 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 and the supplemental specifications. 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, and the construction phasing, methods and 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 theses notes, the Standard Specifications, interim Supplemental Specifications, Special 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 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. 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 Special Note for Waste and Borrow).

As work progresses, add or remove erosion control measures as required by the BMP applicable to the Contractor's project phasing and 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.

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.

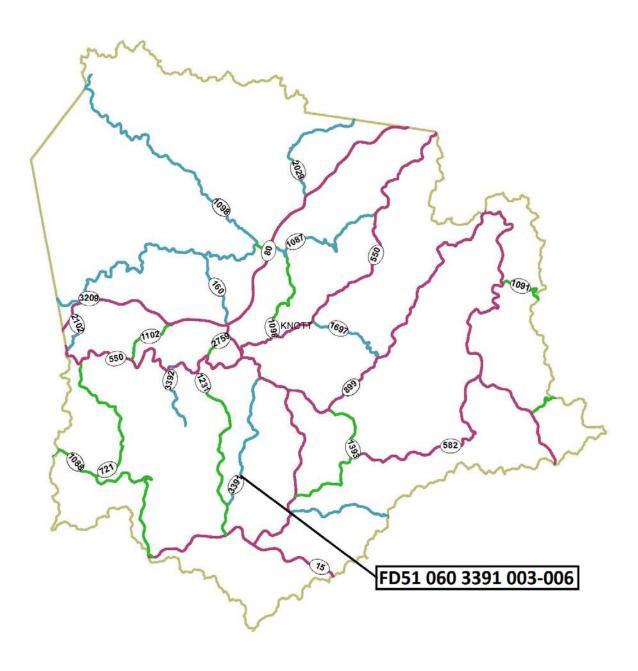
KNOTT COUNTY FD51 060 3391 001-007 Contract ID: 162260 Page 25 of 79

Erosion Control Page 3 of 3

IV. MEASUREMENT

Contrary to Section 212.04 and 213.04, the Department will not measure Erosion Control items for separate payment, but shall be incidental to other items of work as applicable.

KNOTT



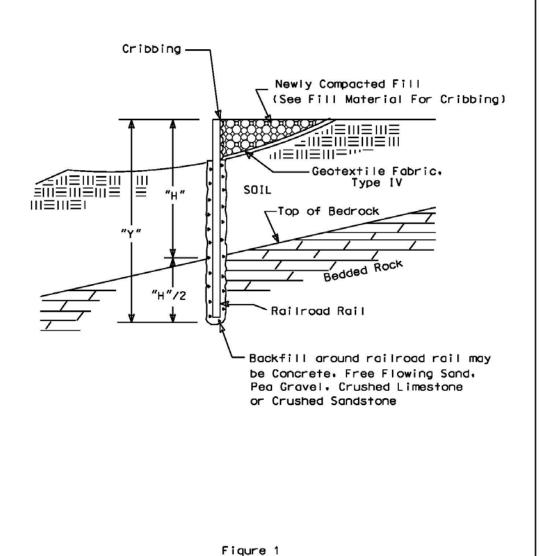


FEMA DR 4239 Knott County

Contract ID:	162260
Page	27 of 79

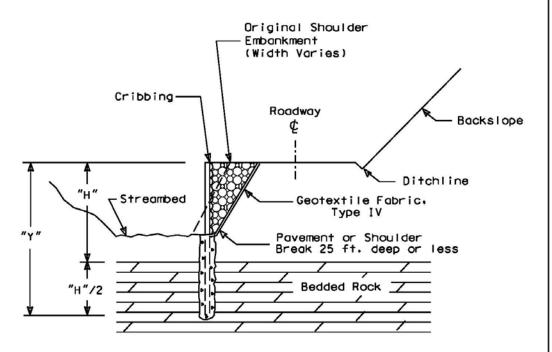
Route	Site#	Mile P	oints	
KY 3391	3	1.588	1.600	Slide repair using channel lining
	7	1.795	1.811	Slide repair using channel lining
	10	2.086	2.092	Slide repair using channel lining
	11	2.233	2.239	Slide repair using channel lining
	19	3.665	3.675	Shoulder/ditch repair using channel lining
	20	3.686	3.704	Shoulder/ditch repair using channel lining
	21	4.511	4.599	Shoulder/ditch repair using channel lining
	25	5.575	5.603	Slide repair using channel lining
	28	6.113	6.125	Slide repair using channel lining

TYPICAL SECTION DEPICTING INSTALLATION OF RECYCLED RAILROAD RAIL PLACED IN DRILLED SOCKET FOR LANDSLIDE CORRECTION



TYPICAL CROSS SECTION OF ROADWAY REPAIRS UTILIZING RECYCLED RAILROAD RAILS IN DRILLED SOCKETS FOR EMBANKMENT EROSION CORRECTION

NOTE: Spacing from edge to edge of drilled socket: 3 ft. max.



NOTE:
"H"/2 Depth of Rail into bedded rock =
1/3 total length where rock is present.

Figure 2

ALTERNATE SCHEMES FOR INSTALLING RAILROAD RAILS IN DRILLED SOCKETS

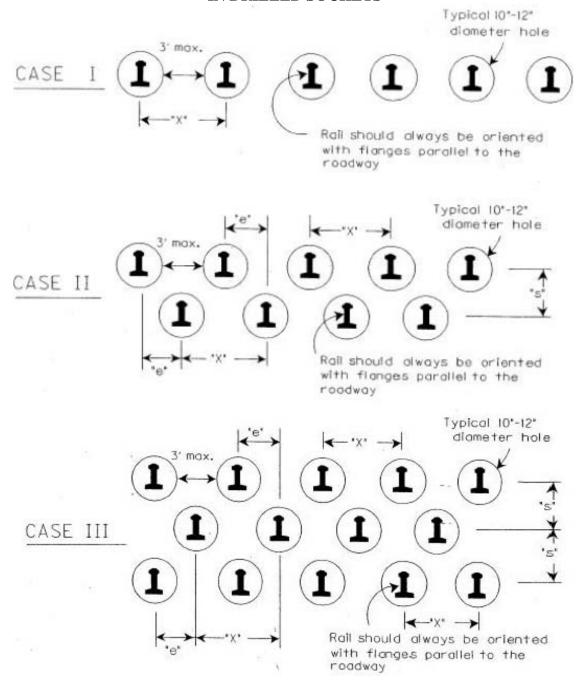


FIGURE 3

DESIGN CHART FOR 130LBS/YD TO 133 LBS/YD RECYCLED (USED) RAILROAD RAILS **FACTOR OF SAFETY = 1**

Effective Specing	Between Rows	of Rails "e"	(Inches)	VA	V/V	N/A	V/N	N/A	VA	N/A	24	22	18	14	12	11	5.6	V/N
Maximum Spacing Retween	Rails "X" (Max.	48") (Inches)		48	48	48	48	48	48	32	48	4	36	28	24	33	28.5	N/A
Required Number				1	1	1	1	1	1	1	2	2	2	2	2	3	3	N/A
Total Length of Installed Railroad	Rail "Y" (Feet)			12	13.5	15	16.5	18	19.5	21	22.5	24	25.5	27	28.5	30	31.5	N/A
Minimum Embedment into	Bedded Rock	"H/2" (Feet)		4	4.5	5	5.5	9	6.5	7	7.5	8	8.5	6	9.5	10	10.5	N/A
Soil Depth to	(Feet)			8	6	10	11	12	13	14	15	16	17	18	61	20	21	>21

1. REFER TO FIGURES 1, 2, & 3 FOR DIMENSIONS SHOWN
2. FOR SOIL DEPTHS "H" GREATER THAN 21 FEET CONTACT THE ENGINEER. NOTES:

TABLE I

IDENTIFICATION OF RAIL SIZES

Typically classified in units of Ibs-per-yard.

Examples:

155 lbs/yd, 140 lbs/yd, 132 lbs/yd, 90 lbs/yd

Each rail has a classification stamped in web: ٥į

Example

≣ 1935 NSA ILLINOIS Н R 112 25

Weight in Ibs/yd

PART II

SPECIFICATIONS AND STANDARD DRAWINGS

SPECIFICATIONS REFERENCE

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

Contract ID: 162260 Page 35 of 79

Supplemental Specifications to the Standard Specifications for Road and Bridge Construction, 2012 Edition Effective with the April 29, 2016 Letting

Subsection:	101.03 DEFINITIONS
Revision:	Add the following Definitions to this section:
	Superpave Mix Design Technologist (SMDT) - An inspector qualified by the KYTC to
	submit, adjust, or approve asphalt mix designs.
	Superpave Plant Technologist (SPT) - An inspector qualified by the KYTC to perform
	routine inspection and process control, acceptance, or verification testing on asphalt mixtures.
	102.15 Process Agent.
Revision:	Replace the 1st paragraph with the following:
	Every corporation doing business with the Department shall submit evidence of compliance
	with KRS Sections 14A.4-010, 271B.11-010, 271B.11-070, 271B.11-080, 271B.5-010 and
	271B.16-220, and file with the Department the name and address of the process agent upon
a	whom process may be served.
	105.13 Claims Resolution Process.
Revision:	Delete all references to TC 63-34 and TC 63-44 from the subsection as these forms are no
	longer available through the forms library and are forms generated within the AASHTO
Subsection:	SiteManager software. 108.01 Subcontracting of Contract.
Revision:	Replace the section with the following:
Kevision.	Do not subcontract, sell, transfer, assign, or otherwise dispose of the Contract or any portion of
	the Contract or Contracts, or of the right, title, or interest therein, without the Engineer's
	written consent. If the Contractor chooses to subcontract any portion of the Contract, a written
	request to sublet work must be submitted on the Subcontract Request (TC 63-35) form for the
	Engineer's approval. When directed by the Engineer, submit a certified copy of the actual
	subcontract agreement executed between the parties.
	-
	The Engineer will allow the Contractor to subcontract a portion, but the Contractor must perform with his own organization work amounting to no less than 30 percent of the total
	Contract cost. The Engineer will not allow any subcontractor to exceed the percentage to be
	performed by the Contractor and will require the Contractor to maintain a supervisory role over
	the entire project.
	• •
	Do not allow any subcontractor to further subcontract any portion of the work without
	obtaining written consent from the Engineer. When the Engineer gives such consent, the first
	tier subcontractor may further subcontract a portion of his work not to exceed 50 percent of the
	work originally subcontracted to him by the Contractor. Do not allow any second tier
	subcontractor to subcontract any portion of the work.
	Extra work performed by subcontractors in accordance with Section 109 will not be utilized in
	the computation of total dollar amount subcontracted. Subcontract percentages are based upon
	the original contract amount.
	Payment to subcontractors for satisfactory performance of their work or materials supplied must
	be made within 7 calendar days from receipt of payment from the Engineer. Upon request by
	the Engineer, provide proof that payment has been made to the subcontractor within the 7
	calendar days. Progress payments may be withheld for failure to comply with this request
	culculate days. Trogress payments may be withheld for failure to compry with this request

Contract ID: 162260 Page 36 of 79

Supplemental Specifications to the Standard Specifications for Road and Bridge Construction, 2012 Edition Effective with the April 29, 2016 Letting

The Engineer's written consent to subcontract, assign, or otherwise dispose of any portion of the Contract does not, under any circumstances, relieve the Contractor or the surety of their respective liabilities and obligations under the Contract. The Engineer will make transactions only with the Contractor. The Engineer will recognize subcontractors only in the similar capacity of employees or workers of the Contractor who are subject to the same requirements as to character and competence as specified in Subsection 108.06.

Lease agreements are acceptable on Department projects. No additional paperwork is needed when equipment is rented from a commercial rental company unless the leased equipment comes with an operator. In these circumstances, payroll records for the operator of the leased equipment must be maintained and submitted by the contractor in accordance with Department policy.

Lease agreements between contractors that involve equipment only will require the submittal of a TC 63-71 Department Equipment Rental Form. If a Contractor is found to be in violation of these requirements, the Engineer reserves the right to withhold payment for the work which was performed in violation of these requirements. This provision does not include the lease or use of equipment from a corporation or company wholly owned by the Contractor. The Contractor shall not use equipment in the performance of the Contract to which title is not held by the Contractor or an approved subcontractor without a submitted lease agreement.

If a public official has provided a documented Declaration of Emergency, then the Engineer may verbally waive the requirement of submitting a TC 63-71 Department Equipment Rental Form until the situation has ended. After the emergency situation ends, immediately remove the equipment from the project or submit a completed TC 63-71 Department Equipment Rental Form to the Engineer.

108.03 Preconstruction Conference.

Revision:

Replace 8) Staking with the following:

8) Staking (designated by a Professional Engineer or Land Surveyor licensed in the Commonwealth of Kentucky.

Subsection:

109.07.02 Fuel.

Revision:

Revise item Crushed Aggregate Used for Embankment Stabilization to the following:

Crushed Aggregate

Used for Stabilization of Unsuitable Materials

Used for Embankment Stabilization

Delete the following item from the table.

Crushed Sandstone Base (Cement Treated)

Subsection:

110.02 Demobilization.

Revision:

Replace the first part of the first sentence of the second paragraph with the following:

Perform all work and operations necessary to accomplish final clean-up as specified in the first paragraph of Subsection 105.12;

paragraph of Sacsection

Subsection:

112.03.12 Project Traffic Coordinator (PTC).

Revision:

Replace the last paragraph of this subsection with the following:

Ensure the designated PTC has sufficient skill and experience to properly perform the task assigned and has successfully completed the qualification courses.

Contract ID: 162260 Page 37 of 79

Subsection:	112.04.18 Diversions (By-Pass Detours).
Revision:	Insert the following sentence after the 2nd sentence of this subsection.
	The Department will not measure temporary drainage structures for payment when the contract
	documents provide the required drainage opening that must be maintained with the diversion.
	The temporary drainage structures shall be incidental to the construction of the diversion. If the
	contract documents fail to provide the required drainage opening needed for the diversion, the
ļ	cost of the temporary drainage structure will be handled as extra work in accordance with
	section 109.04.
Subsection:	201.03.01 Contractor Staking.
Revision:	Replace the first paragraph with the following: Perform all necessary surveying under the
	general supervision of a Professional Engineer or Land Surveyor licensed in the
	Commonwealth of Kentucky.
	201.04.01 Contractor Staking.
Revision:	Replace the last sentence of the paragraph with the following: Complete the general layout of
	the project under the supervision of a Professional Engineer or Land Surveyor licensed in the
	Commonwealth of Kentucky.
	206.04.01 Embankment-in-Place.
Revision:	Replace the fourth paragraph with the following: The Department will not measure suitable
	excavation included in the original plans that is disposed of for payment and will consider it
	incidental to Embankment-in-Place.
	208.02.01 Cement.
Revision:	Replace paragraph with the following: Select Type Lear Type II coment conforming to Section 801. Use the same type coment
ļ	Select Type I or Type II cement conforming to Section 801. Use the same type cement
Cubaatian	throughout the work. 208.03.06 Curing and Protection.
Revision:	Replace the fourth paragraph with the following:
Revision:	Do not allow traffic or equipment on the finished surface until the stabilized subgrade has
	cured for a total of 7-days with an ambient air temperature above 40 degrees Fahrenheit. A
	curing day consists of a continuous 24-hour period in which the ambient air temperature does
	not fall below 40 degrees Fahrenheit. Curing days will not be calculated consecutively, but
	must total seven (7), 24-hour days with the ambient air temperature remaining at or above 40
	degrees Fahrenheit before traffic or equipment will be allowed to traverse the stabilized
	subgrade. The Department may allow a shortened curing period when the Contractor requests.
	The Contractor shall give the Department at least 3 day notice of the request for a shortened
	curing period. The Department will require a minimum of 3 curing days after final compaction.
	The Contractor shall furnish cores to the treated depth of the roadbed at 500 feet intervals for
	each lane when a shortened curing time is requested. The Department will test cores using an
	unconfined compression test. Roadbed cores must achieve a minimum strength requirement of
	80 psi.
Subsection:	208.03.06 Curing and Protection.
Revision:	Replace paragraph eight with the following:
	At no expense to the Department, repair any damage to the subgrade caused by freezing.

Contract ID: 162260 Page 38 of 79

	Effective with the April 29, 2016 Letting
Subsection:	212.03.03 Permanent Seeding and Protection.
Part:	A) Seed Mixtures for Permanent Seeding.
Revision:	Revise Seed Mix Type I to the mixture shown below:
	50% Kentucky 31 Tall Fescue (Festuca arundinacea)
	35% Hard Fescue (Festuca (Festuca longifolia)
	10% Ryegrass, Perennial (Lolium perenne)
	5% White Dutch Clover (Trifolium repens)
Subsection:	212.03.03 Permanent Seeding and Protection.
Part:	A) Seed Mixtures for Permanent Seeding.
Number:	2)
Revision:	Replace the paragraph with the following:
	Permanent Seeding on Slopes Greater than 3:1 in Highway Districts 4, 5, 6, and 7. Apply seed
	mix Type II at a minimum application rate of 100 pounds per acre. If adjacent to a golf course
	replace the crown vetch with Kentucky 31 Tall Fescue.
Subsection:	212.03.03 Permanent Seeding and Protection.
Part:	A) Seed Mixtures for Permanent Seeding.
Number:	3)
Revision:	Replace the paragraph with the following:
	Permanent Seeding on Slopes Greater than 3:1 in Highway Districts 1, 2, 3, 8, 9, 10, 11, and
	12. Apply seed mix Type III at a minimum application rate of 100 pounds per acre. If adjacent
	to crop land or golf course, replace the Sericea Lespedeza with Kentucky 31 Fescue.
Subsection:	212.03.03 Permanent Seeding and Protection.
Part:	B) Procedures for Permanent Seeding.
Revision:	Delete the first sentence of the section.
Subsection:	212.03.03 Permanent Seeding and Protection.
Part:	B) Procedures for Permanent Seeding.
Revision:	Replace the second and third sentence of the section with the following:
	Prepare a seedbed and apply an initial fertilizer that contains a minimum of 100 pounds of
	nitrogen, 100 pounds of phosphate, and 100 pounds of potash per acre. Apply agricultural
	limestone to the seedbed when the Engineer determines it is needed. When required, place
	agricultural limestone at a rate of 3 tons per acre.
	212.03.03 Permanent Seeding and Protection.
Part:	D) Top Dressing.
Revision:	Change the title of part to D) Fertilizer.
	212.03.03 Permanent Seeding and Protection.
Part:	D) Fertilizer.
Revision:	Replace the first paragraph with the following:
	Apply fertilizer at the beginning of the seeding operation and after vegetation is established.
	Use fertilizer delivered to the project in bags or bulk. Apply initial fertilizer to all areas prior to
	the seeding or sodding operation at the application rate specified in 212.03.03 B). Apply 20-10-
	10 fertilizer to the areas after vegetation has been established at a rate of 11.5 pounds per 1,000
	square feet. Obtain approval from the Engineer prior to the 2nd fertilizer application. Reapply
	fertilizer to any area that has a streaked appearance. The reapplication shall be at no additional
	cost to the Department. Re-establish any vegetation severely damaged or destroyed because of
Subsection:	an excessive application of fertilizer at no cost to the Department.
Part:	212.03.03 Permanent Seeding and Protection. D) Fertilizer.
Revision:	Delete the second paragraph.
Kevision:	Delete the second paragraph.

Contract ID: 162260 Page 39 of 79

Subsections	212.04.04 Agricultural Limestone.						
Revision:	Replace the entire section with the following:						
Kevision.	The Department will measure the quantity of agricultural limestone in tons.						
Subsection:	212.04.05 Fertilizer.						
Revision:	Replace the entire section with the following:						
Kevision:	The Department will measure fertilizer used in the seeding or sodding operations for payment.						
	The Department will measure the quantity by tons.						
Subsection:	212.05 PAYMENT.						
Revision:	Delete the following item code:						
Kevision:	Code Pay Item Pay Unit						
	05966 Topdressing Fertilizer Ton						
Subsection:	212.05 PAYMENT.						
Revision:	Add the following pay items:						
Kevision.	Code Pay Item Pay Unit						
	05963 Initial Fertilizer Ton						
	05964 20-10-10 Fertilizer Ton						
	05992 Agricultural Limestone Ton						
Subsection:	213.03.02 Progress Requirements.						
Revision:							
	Replace the third paragraph with the following:						
	After exposing areas of erodible material, make every effort to stabilize and protect the areas as						
	quickly as possible. Permanently seed and mulch all areas at final grade within 14 days.						
	Temporary stabilization practices on those portions of the project where construction activities						
	have temporarily ceased shall be initiated within 14 days of the date of activity cessation. The						
	Engineer will suspend grading operations for instances where the Contractor fails to sustain						
	erosion control measures to effectively control erosion and to prevent water pollution in						
	accordance with the KPDES Permit. In addition, the Engineer will withhold monies due on						
	current estimates until corrective work has been initiated and is continuously progressing to						
	remediate noted deficiencies. Additionally, should noted deficiencies not be adequately						
	addressed to the satisfaction of the Engineer within 7 calendar days of receipt of written						
	notification of deficiencies, the Department will apply a penalty equal to the daily liquidated						
G 1 4	damages rate until all aspects of the work have been completed.						
	213.03.05 Temporary Control Measures.						
Part:	E) Temporary Seeding and Protection.						
Revision:	Delete the second sentence of the first paragraph.						
Subsection: Table:	304.02.01 Physical Properties.						
Revision:	Required Geogrid Properties Replace all references to Test Method "GRI-GG2-87" with ASTM D 7737.						
Subsection:	^						
Part:	402.03.02 Contractor Quality Control and Department Acceptance. B) Sampling.						
Revision:	Replace the second sentence with the following:						
IXC VISIUII.	The Department will determine when to obtain the quality control samples using the random-						
	number feature of the mix design submittal and approval spreadsheet. The Department will						
	randomly determine when to obtain the verification samples required in Subsections 402.03.03						
	and 402.03.04 using the Asphalt Mixture Sample Random Tonnage Generator.						
1							

Contract ID: 162260 Page 40 of 79

Supplemental Specifications to the Standard Specifications for Road and Bridge Construction, 2012 Edition Effective with the April 29, 2016 Letting

Subsection: 402.03.02 Contractor Quality Control and Department Acceptance.

D) Testing Responsibilities. Part:

3) VMA. Number:

Revision: Add the following paragraph below Number 3) VMA:

> Retain the AV/VMA specimens and one additional corresponding G_{mm} sample for 5 working days for mixture verification testing by the Department. For Specialty Mixtures, retain a mixture sample for 5 working days for mixture verification testing by the Department. When the Department's test results do not verify that the Contractor's quality control test results are within the acceptable tolerances according to Subsection 402.03.03, retain the samples and

specimens from the affected sublot(s) for the duration of the project.

Subsection: 402.03.02 Contractor Quality Control and Department Acceptance.

D) Testing Responsibilities. Part:

4) Density. Number:

Revision: Replace the second sentence of the Option A paragraph with the following:

Perform coring by the end of the following work day.

Subsection: 402.03.02 Contractor Quality Control and Department Acceptance.

D) Testing Responsibilities. Part:

Number: 5) Gradation.

Revision: Delete the second paragraph.

Subsection: 402.03.02 Contractor Quality Control and Department Acceptance.

H) Unsatisfactory Work. Part: 1) Based on Lab Data. Number:

Replace the second paragraph with the following: **Revision:**

> When the Engineer determines that safety concerns or other considerations prohibit an immediate shutdown, continue work and the Department will make an evaluation of

acceptability according to Subsection 402.03.05.

402.03.03 Verification. **Subsection:**

Replace the first paragraph with the following: Revision:

> **402.03.03 Mixture Verification.** For volumetric properties, the Department will perform a minimum of one verification test for AC, AV, and VMA according to the corresponding procedures as given in Subsection 402.03.02. The Department will randomly determine when to obtain the verification sample using the Asphalt Mixture Sample Random Tonnage Generator. For specialty mixtures, the Department will perform one AC and one gradation determination per lot according to the corresponding procedures as given in Subsection 402.03.02. However, Department personnel will not perform AC determinations according to KM 64-405. The Contractor will obtain a quality control sample at the same time the Department obtains the mixture verification sample and perform testing according to the procedures given in Subsection 402.03.02. If the Contractor's quality control sample is verified by the Department's test results within the tolerances provided below, the Contractor's sample will serve as the quality control sample for the affected sublot. The Department may perform the mixture verification test on the Contractor's equipment or on the Department's equipment.

Subsection: 402.03.03 Verification.

A) Evaluation of Sublot(s) Verified by Department. Part:

Revision: Replace the third sentence of the second paragraph with the following:

> When the paired t-test indicates that the Contractor's data and Department's data are possibly not from the same population, the Department will investigate the cause for the difference according to Subsection 402.03.05 and implement corrective measures as the Engineer deems appropriate.

Contract ID: 162260 Page 41 of 79

G 1 4:	402.02.02 \\ \tau_1 \\ \tau_2 \\ \tau_2 \\ \tau_3 \\ \tau_4 \\ \tau_2 \\ \tau_4 \\ \tau_4 \\ \tau_5 \\ \tau_6 \\ \tau			
	402.03.03 Verification.			
Part:	B) Evaluation of Sublots Not Verified by Department.			
Revision:	Replace the third sentence of the first paragraph with the following:			
	When differences between test results are not within the tolerances listed below, the			
	Department will resolve the discrepancy according to Subsection 402.03.05.			
	402.03.03 Verification.			
Part:	B) Evaluation of Sublots Not Verified by Department.			
Revision:	Replace the third sentence of the second paragraph with the following:			
	When the F-test or t-test indicates that the Contractor's data and Department's data are possibly			
	not from the same population, the Department will investigate the cause for the difference			
	according to Subsection 402.03.05 and implement corrective measures as the Engineer deems			
	appropriate.			
Subsection:	402.03.03 Verification.			
Part:	C) Test Data Patterns.			
Revision:	Replace the second sentence with the following:			
	When patterns indicate substantial differences between the verified and non-verified sublots,			
	the Department will perform further comparative testing according to subsection 402.03.05.			
Subsection:	402.03 CONSTRUCTION.			
Revision:	Add the following subsection: 402.03.04 Testing Equipment and Technician Verification.			
	For mixtures with a minimum quantity of 20,000 tons and for every 20,000 tons thereafter, the			
	Department will obtain an additional verification sample at random using the Asphalt Mixture			
	Sample Random Tonnage Generator in order to verify the integrity of the Contractor's and			
	Department's laboratory testing equipment and technicians. The Department will obtain a			
	mixture sample of at least 150 lb at the asphalt mixing plant according to KM 64-425 and split			
	it according to AASHTO R 47. The Department will retain one split portion of the sample and			
	provide the other portion to the Contractor. At a later time convenient to both parties, the			
	Department and Contractor will simultaneously reheat the sample to the specified compaction			
	temperature and test the mixture for AV and VMA using separate laboratory equipment			
	according to the corresponding procedures given in Subsection 402.03.02. The Department			
	will evaluate the differences in test results between the two laboratories. When the difference			
	between the results for AV or VMA is not within ± 2.0 percent, the Department will investigate			
	and resolve the discrepancy according to Subsection 402.03.05.			
Subsection	402.03.04 Dispute Resolution.			
Revision:	Change the subsection number to 402.03.05.			
	402.05 PAYMENT.			
Part:	Lot Pay Adjustment Schedule Compaction Option A Base and Binder Mixtures			
Table:	AC			
Revision:	Replace the Deviation from JMF(%) that corresponds to a Pay Value of 0.95 to ±0.6.			
	403.01 Description.			
Revision:	Replace the sentence three and four of the first paragraph with the following:			
_10 (10,10,10	Provide a Superpave Plant Technologist (SPT) or Superpave Mix Design Technician (SMDT)			
	qualified by the Laboratories' Quality Acceptance program. Be available to address all Quality			
	Control concerns arising during work performed under section 403.			
Subsection:	403.02.10 Material Transfer Vehicle (MTV).			
Revision:	Replace the first sentence with the following:			
TE VISIOII.	In addition to the equipment specified above, provide a MTV with the following minimum			
	characteristics:			
	ondideterrence.			

Contract ID: 162260 Page 42 of 79

Subsection	403.03.03 Preparation of Mixture
Part:	C) Mix Design Criteria
Number:	2)
Revision:	Revise part 2) to read as follows: Selection of Optimum AC. Normally, the Department will
110 (151011)	approve the AC at an air-void content of 4.0 percent. The Engineer may assign an AC
	corresponding to other air-void levels as deemed appropriate. Ensure the optimum AC is a
	minimum of 5.2 percent by weight of the total mixture for all 0.5-inch nominal surface
	mixtures and 5.5 percent by weight of the total mixture for all 0.38-inch nominal surface
	mixtures.
Subsection:	412.02.09 Material Transfer Vehicle (MTV).
Revision:	Replace the paragraph with the following:
	Provide and utilize a MTV with the minimum characteristics outlined in section 403.02.10.
Subsection:	412.03.07 Placement and Compaction.
Revision:	Replace the first paragraph with the following:
	Use a MTV when placing SMA mixture in the driving lanes. The MTV is not required on
	ramps and/or shoulders unless specified in the contract. When the Engineer determines the use
	of the MTV is not practical for a portion of the project, the Engineer may waive its requirement
	for that portion of pavement by a letter documenting the waiver.
	412.04 MEASUREMENT.
Revision:	Add the following subsection:
	412.04.03. Material Transfer Vehicle (MTV). The Department will not measure the MTV for
	payment and will consider its use incidental to the asphalt mixture.
	501.03.19 Surface Tolerances and Testing Surface.
Part:	B) Ride Quality.
Revision:	Add the following to the end of the first paragraph:
	The Department will specify if the ride quality requirements are Category A or Category B
	when ride quality is specified in the Contract. Category B ride quality requirements shall apply
	when the Department fails to classify which ride quality requirement will apply to the Contract.
Subgation	501.03.05 Weather Limitations and Protection.
Revision:	Replace the reference to Subsection 501.03.19 in Paragraph 5, with Subsection 501.03.20.
	601.02.02 Cement
	Replace the third sentence with the following: The Department will allow the use of Type
ite vision.	IP(≤ 20), Type IS(≤ 30), Type IL, Type II, and Type III when the Engineer approves.
Subsection:	601.02.02 Cement
Revision:	Replace the fifth sentence with the following: If unsatisfactory test results are obtained using
	Type IP(≤ 20), Type IS(≤ 30), Type IL, Type II, or Type III cement complete the work using
	Type I cement.

Contract ID: 162260 Page 43 of 79

Supplemental Specifications to the Standard Specifications for Road and Bridge Construction, 2012 Edition Effective with the April 29, 2016 Letting

Subsection:	<mark>601.</mark>	03.02 Concrete	e Producer Resp	onsibilities.				
Part:	E) Trip Tickets.							
Revision:	Replace the section with the following:							
	Furn	ish a trip ticke	t containing the	minimum in	formation	shown in the	e table below. Certify that	
							pproved mix design.	
			nt manager or a			_	•	
		_	-			_	nation on the back of the	
	_	ticket.	te inspector win	complete an	Other nece	cssary inform	nation on the back of the	
	uip t	icket.						
		Contract Id:	Proj. Number:	Date:	County:			
		Truck No:	Producer Name:	'	SiteManag	er Sample Id:		
		Qty(Yds ³):	Time Loaded (Non	Agitated Con				
		Begin Mixing T	•	M PM_	REV			
		Set Retarder Us		Yes	Туре	No		
		Water Reducer		Yes	Type	No		
		Water Underru		ial/Yd ³		tal Gallons		
				T		tal Gallons		
		Design W/C:	Actual W/C:	Slump (inche	S)			
		Batch Weight I	-	01 0			0/04 : 1	
		Material: De	escription: Desig	gn Qty: Requ	ired: Batc	ned: %Var:	%Moisture: Actual:	
		Remarks:						
		The data on the	his ticket is correc	t for the appro	oved concre	te mix design.	.	
		Signature:				Date:		
			KRMCA Level II Te	chnician or P	ant Manage	er		
1 1 4°	CO1	02 02 Duana at						
		*	oning and Requi	irements				
Part:		Concrete						
Revision:	Revise Table for INGREDIENT PROPORTIONS AND REQUIREMENTS FOR VARIOUS							
	CLASSES OF CONCRETE as follows: Replace "M1 w/ Type 1 cement" with "M1 w/ Type 1							
	or bl	<mark>lended hydraul</mark>	ic cement"					
Subsection:	601.	03.03 Proporti	oning and Requi	irements				
Part:	C) M	lixtures Using	Type IP, IS, and	d I(SM) Cem	ent or Min	eral Admixt	ures	
Revision:	Revi	ise part C) head	der to read as fol	llows: Mixtu	res Using	Type IP(<20	0), IS(≤30), and IL	
		_	al Admixtures.			J1 - ← -), ··· (=- ·), ··· ··	
Subsection			oning and Requi	irements				
Part:			Type IP, IS, and		ont or Min	oral Admixt	airag	
	-	lixtures Using	Type IF, IS, and	i i(Sivi) Celli	ent or win	ierai Aumini	ures	
Number:	1)				D (20) TO	(.2.0) II G		
Revision:	_		ce to read as foll		P(≤20), IS	(<u>≤</u> 30), IL Ce	ment.	
			oning and Requi					
Part:	C) N	lixtures Using	Type IP, IS, and	d I(SM) Cem	ent or Min	eral Admixt	ures	
Number:	2)							
Revision.	Revi	ise second sent	ence to read as f	follows: The	use of fly	ash blast fu	rnace slag cement or	

micosilica in concrete is the Contractor's option.

Contract ID: 162260 Page 44 of 79

	601.03.03 Proportioning and Requirements
Part:	C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures
Number:	2)
Revision:	Revise the first sentence in the second paragraph to read as follows: When the ability to use
	blast furnace slag cement or microsilica has not been demonstrated have the concrete producer
	provide trial batches in accordance with Subsection 601.03.02 G) 1).
Subsection:	601.03.03 Proportioning and Requirements
Part:	C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures
Number:	2)
Part:	b)
Revision:	Revise first sentence to read as follows: Blast Furnace Slag Cement
Subsection:	601.03.03 Proportioning and Requirements
Part:	C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures
Number:	2)
Part:	b)
Revision:	Revise second sentence to read as follows: When added as a separate ingredient, use Grade
	120 or Grade 100 slag to reduce the quantity of cement, except do not use blast furnace slag
	cement to reduce the quantity of Type IS(≤30) cement.
Subsection:	601.03.03 Proportioning and Requirements
Part:	C) Mixtures Using Type IP, IS, and I(SM) Cement or Mineral Admixtures
Number:	2)
Part:	b)
Revision:	In part b), replace all references to "GGBF slag" with "blast furnace slag cement".
	601.03.04 Classes and Primary Uses
Part:	H) Class M1
Revision:	Revise part H) to read as follows: High early strength for bridge joint repair and full or partial
	depth bridge deck patching. (Type 1 cement or blended hydraulic cement)
Subsection:	603.03.06 Cofferdams.
Revision:	Replace the seventh sentence of paragraph one with the following:
	Submit drawings that are stamped by a Professional Engineer licensed in the Commonwealth of
	Kentucky.
Subsection:	605.03.04 Tack Welding.
Revision:	Insert the subsection and the following:
	605.03.04 Tack Welding. The Department does not allow tack welding.
Subsection:	606.03.17 Special Requirements for Latex Concrete Overlays.
Part:	A) Existing Bridges and New Structures.
Number:	1) Prewetting and Grout-Bond Coat.
Revision:	Add the following sentence to the last paragraph: Do not apply a grout-bond coat on bridge
	decks prepared by hydrodemolition.
Subsection:	609.03 Construction.
Revision:	Replace Subsection 609.03.01 with the following:
	609.03.01 A) Swinging the Spans. Before placing concrete slabs on steel spans or precast
	concrete release the temporary erection supports under the bridge and swing the span free on its
	supports.
	609.03.01 B) Lift Loops. Cut all lift loops flush with the top of the precast beam once the
	beam is placed in the final location and prior to placing steel reinforcement. At locations where
	lift loops are cut, paint the top of the beam with galvanized or epoxy paint.
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Contract ID: 162260 Page 45 of 79

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	611.03.02 Precast Unit Construction.				
Revision:	Replace the first sentence of the subsection with the following:				
	Construct units according to ASTM C1577, replacing Table 1 (Design Requirements for				
	Precast Concrete Box Sections Under Earth, Dead and HL-93 Live Load Conditions)				
	with KY Table 1 (Precast Culvert KYHL-93 Design Table), and Section 605 with the				
	following exceptions and additions:				
Subsection:	613.03.01 Design.				
Number:	2)				
Revision:	Replace "AASHTO Standard Specifications for Highway Bridges" with "AASHTO LRFD				
	Bridge Design Specifications"				
Subsection:	615.06.02				
Revision:	Add the following sentence to the end of the subsection.				
	The ends of units shall be normal to walls and centerline except exposed edges shall be beveled				
	³ / ₄ inch.				
Subsection:	615.06.03 Placement of Reinforcement in Precast 3-Sided Units.				
Revision:	Replace the reference of 6.6 in the section to 615.06.06.				
Subsection:	615.06.04 Placement of Reinforcement for Precast Endwalls.				
Revision:	Replace the reference of 6.7 in the section to 615.06.07.				
Subsection:	615.06.06 Laps, Welds, and Spacing for Precast 3-Sided Units.				
Revision:	Replace the subsection with the following:				
	Tension splices in the circumferential reinforcement shall be made by lapping. Laps may not be				
	tack welded together for assembly purposes. For smooth welded wire fabric, the overlap shall				
	meet the requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.5.2 and				
	AASHTO 2012 Bridge Design Guide Section 5.11.6.3. For deformed welded wire fabric, the				
	overlap shall meet the requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.5.1				
	and AASHTO 2012 Bridge Design Guide Section 5.11.6.2. The overlap of welded wire fabric				
	shall be measured between the outer most longitudinal wires of each fabric sheet. For				
	deformed billet-steel bars, the overlap shall meet the requirements of AASHTO 2012 Bridge				
	Design Guide Section 5.11.2.1. For splices other than tension splices, the overlap shall be a				
	minimum of 12" for welded wire fabric or deformed billet-steel bars. The spacing center to				
	center of the circumferential wires in a wire fabric sheet shall be no less than 2 inches and no				
	more than 4 inches. The spacing center to center of the longitudinal wires shall not be more				
	than 8 inches. The spacing center to center of the longitudinal distribution steel for either line				
	of reinforcing in the top slab shall be not more than 16 inches.				
Cubaastiass					
Subsection: Revision:	615.06.07 Laps, Welds, and Spacing for Precast Endwalls.				
IVEAI21011:	Replace the subsection with the following: Splices in the reinforcement shall be made by lanning. Long may not be took yielded together.				
	Splices in the reinforcement shall be made by lapping. Laps may not be tack welded together				
	for assembly purposes. For smooth welded wire fabric, the overlap shall meet the requirements				
	of AASHTO 2012 Bridge Design Guide Section 5.11.2.5.2 and AASHTO 2012 Bridge Design				
	Guide Section 5.11.6.3. For deformed welded wire fabric, the overlap shall meet the				
	requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.5.1 and AASHTO 2012				
	Bridge Design Guide Section 5.11.6.2. For deformed billet-steel bars, the overlap shall meet				
	the requirements of AASHTO 2012 Bridge Design Guide Section 5.11.2.1. The spacing center-				
	to-center of the wire fabric sheet shall not be less than 2 inches or more than 8 inches.				

Contract ID: 162260 Page 46 of 79

Subsection:	615.08.01 Type of Test Specimen.						
Revision:	Replace the subsection with the following:						
	Start-up slump, air content, unit weight, and temperature tests will be performed each day on						
	the first batch of concrete. Acceptable start-up results are required for production of the first						
	unit. After the first unit has been established, random acceptance testing is performed daily for						
	each 50 yd ³ (or fraction thereof). In addition to the slump, air content, unit weight, and						
	temperature tests, a minimum of one set of cylinders shall be required each time plastic						
	property testing is performed.						
Subsections	615.08.02 Compression Testing.						
Revision:	Delete the second sentence.						
Subsection:	615.08.04 Acceptability of Core Tests.						
Revision:	Delete the entire subsection.						
	615.12 Inspection.						
Revision:	Add the following sentences to the end of the subsection: Units will arrive at jobsite with the						
	"Kentucky Oval" stamped on the unit which is an indication of acceptable inspection at the						
	production facility. Units shall be inspected upon arrival for any evidence of damage resulting						
	from transport to the jobsite.						
Subsection:	701.04.16 Deduction for Pipe Deflection.						
Revision:	Insert the following at the end of the paragraph:						
	The section length is determined by the length of the pipe between joints where the failure						
	occurred.						
Subsection:	716.02.02 Paint.						
Revision:	Replace sentence with the following: Conform to Section 821.						
Subsection:	716.03 CONSTRUCTION.						
Revision:	Replace bullet 5) with the following: 5) AASHTO Standard Specifications for Structural						
	Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current						
	interims,						
Subsection:	716.03.02 Lighting Standard Installation.						
Revision:	Replace the paragraph with the following:						
	Locate poles to avoid trees, drainage, structures, etc. Regardless of the station & offset noted,						
	locate all poles/bases behind guardrail a minimum of 4 feet behind the face of the guardrail.						
	All poles shall be placed as close to stations and offsets as stated on Plans to provide proper						
	illumination. If any pole needs to be relocated from stations indicated, the Division of Traffic						
	Operations shall be contacted. When submitting brochures for suggested luminaires include						
	iso lux curves, IES type distribution, lamp lumens, and typical ballast factor used for each type						
	of luminaire. Submit the photometric data in a digital IES format to the Division of Traffic						
	Operations. Include with the submittal a point of contact and phone number to answer						
	technical questions about the luminaire.						
Subsection:	716.03.02 Lighting Standard Installation.						
Part:	A) Conventional Installation.						
Revision:	Replace the third sentence with the following: Orient the transformer base so the door is						
151011	positioned on the side away from on-coming traffic.						
Subsection	716.03.02 Lighting Standard Installation.						
Part:	A) Conventional Installation.						
Number:	1) Breakaway Installation and Requirements.						
	Replace the first sentence with the following: For breakaway supports, conform to Section 12						
Revision:							
	of the AASHTO Standard Specifications for Structural Supports for Highway Signs,						
	Luminaires, and Traffic Signals, 2013-6th Edition with current interims.						

Contract ID: 162260 Page 47 of 79

Supplemental Specifications to the Standard Specifications for Road and Bridge Construction, 2012 Edition Effective with the April 29, 2016 Letting

Subsection: 716.03.02 Lighting Standard Installation.

Part: B) High Mast Installation

Revision: Replace the first three sentences of the first paragraph with the following: Install each high

mast pole as noted on Plans. Install each high mast pole on a separate circuit and use luminaires

with light patterns as indicated. Orient luminaires as shown in Plans.

Subsection: 716.03.02 Lighting Standard Installation.

Part: B) High Mast Installation
Number: 2) Concrete Base Installation

Revision: Modification of Chart and succeeding paragraphs within this section:

Drilled Shaft Depth Data							
3:1 Groun		round	2:1 (Fround	1.5:1	Ground	
Level	Level Ground		pe Slope		ope	Slope (2)	
Soil	Rock	Soil	Rock	Soil	Rock	Soil	Rock
17 ft	7 ft	19 ft	7 f t	20 ft	7 f t	(1)	7 ft

Steel Requirements					
Vert	ical Bars	Ties	s or Spiral		
Size			Spacing or		
3126	Total	Size	Pitch		
#10 16 #4		12 inch			

Note 1: Shaft length is 22 feet for cohesive soil only. For cohesionless soil, contact Geotechnical Branch for design.

Note 2: Do not construct high mast drilled shafts on ground slopes steeper than 1.5:1 without the approval of the Division of Traffic Operations.

If rock is encountered during drilling operations and confirmed by the Engineer to be of sound quality, the shaft is only required to be further advanced into the rock by the length of rock socket shown in the design table. The total length of the shaft need not be longer than that of soil alone. Both longitudinal rebar length and number of ties or spiral length shall be adjusted

If a shorter depth is desired for the drilled shaft, the Contractor shall provide, for the state's review and approval, a detailed column design with individual site specific soil and rock analysis performed and approved by a Professional Engineer licensed in the Commonwealth of Kentucky.

Spiral reinforcement may be substituted for ties. If spiral reinforcement is used, one and one-half closed coils shall be provided at the ends of each spiral unit. Subsurface conditions consisting of very soft clay or very loose saturated sand could result in soil parameters weaker than those assumed. Engineer shall consult with the Geotechnical Branch if such conditions

The bottom of the drilled hole shall be firm and thoroughly cleaned so no loose or compressible materials are present at the time of the concrete placement. If the drilled hole contains standing water, the concrete shall be placed using a tremie to displace water. Continuous concrete flow will be required to insure full displacement of any water.

The reinforcement and anchor bolts shall be adequately supported in the proper positions so no movement occurs during concrete placement. Welding of anchor bolts to the reinforcing cage is unacceptable, templates shall be used. Exposed portions of the foundation shall be formed to create a smooth finished surface. All forming shall be removed upon completion of foundation construction.

Contract ID: 162260 Page 48 of 79

	, ,
Subsection:	716.03.03 Trenching.
Part:	A) Trenching of Conduit for Highmast Ducted Cables.
Revision:	Add the following after the first sentence: If depths greater than 24 inches are necessary, obtain
	the Engineer's approval and maintain the required conduit depths coming into the junction
	boxes. No payment for additional junction boxes for greater depths will be allowed.
Subsection:	716.03.03 Trenching.
Part:	B) Trenching of Conduit for Non-Highmast Cables.
Revision:	Add the following after the second sentence: If depths greater than 24 inches are necessary for
	either situation listed previously, obtain the Engineer's approval and maintain the required
	conduit depths coming into the junction boxes.
Subsection:	716.03.04 Conduit Installation.
Revision:	Replace the first two sentences of the paragraph with the following: Provide rigid steel
	conduit encasement for all conductors except as specified in the Contract. Provide conduit that
	is listed on the Department's List of Approved Materials.
Subsection:	716.03.04 Conduit Installation.
Part:	A) Conduit Requirements in Junction Boxes.
Number:	1) Highmast Ducted Cable.
Revision:	Replace the first two sentences with the following: Install conduit horizontally through the
	junction box. Conduit shall be 4 inches from the bottom and 4 inches from the side of the
	junction box.
Subsection:	716.03.04 Conduit Installation.
Revision:	Add the following to the Part to the Subsection: G) Bore and Jack. Construction
C-l4'	methods shall be in accordance with Subsections 706.03.02, paragraphs 1, 2 and 4.
Subsection: Revision:	716.03.08 Splicing. Replace the last sentence of the paragraph with the following: Ensure the splices are of the
Revision:	correct size for the wire being used.
Subsection:	716.03.10 Junction Boxes.
Revision:	Replace subsection title with the following: Electrical Junction Box and replace the last
140 (191011)	sentence of the paragraph with the following: Any additional junction boxes shall be approved
	by the Engineer.
Subsection:	716.03.13 Temporary Lighting.
Revision:	Change subsection heading to the following: 716.03.13 Temporary/Maintain Lighting.
Subsection:	716.03.13 Temporary /Maintain Lighting.
Revision:	Replace the entire section with the following:
	The Contractor shall furnish and install all materials necessary to temporarily light the proposed
	roadway to design standards in Subsection 716.03. The Contractor shall submit his proposed
	design of temporary lighting to the Division of Traffic Operations for approval at least 30 days
	before installation.
	Maintain all lighting elements impacted within or outside the project limits until new lighting
	elements are installed and a functional inspection has been performed on the new lighting
	elements. The Contractor shall submit a proposed design for maintaining lighting to the
	Division of Traffic Operations for approval at least 30 days before installation.

Contract ID: 162260 Page 49 of 79

Subsection:	716.03.14 Remove Lighting.			
Revision:				
	Replace the section with the following: Remove all lighting equipment that is identified by the Engineer as no longer necessary including, but not limited to, the following: pole bases,			
	poles, junction boxes, cabinets, and wood poles. Pole bases shall be removed a minimum of			
	one foot below finished grade by chipping off or other method that is approved by the			
	Engineer. Dispose of all removed concrete off right-of-way. Wood poles shall be removed a			
	minimum of one foot below finished grade. Backfill holes with material approved by the			
	Engineer. Conduit may be abandoned in the ground. All materials shall be removed from the			
	project as directed by the Engineer. Transformers not owned by a utility shall be tested for			
	PCB's and disposed of in accordance with state regulations.			
Subsection:	716.03.15 Painting.			
Revision:				
	Replace the first sentence with the following: Clean non-galvanized or damaged surfaces of			
	exposed junction boxes, pull boxes, control panels, poles, and similar equipment, and apply			
	one coat of an inhibiting paint and two coats of aluminum paint.			
Subsection:	716.04.01. Poles.			
Revision:	Change the subsection heading to 716.04.01 Pole and replace the last sentence of the			
	subsection with the following: The Department will not measure anchor bolts, washers, nuts,			
	anchor bolt covers, ground lugs, and any associated hardware for payment and will consider them incidental to this item of work.			
Subsection:	716.04.02 High Mast Pole.			
Revision:	710.04.02 High Mast 1 ofc.			
AC VISIOII.	Doubs the good department with the followings. The Department will not macause the			
	Replace the second sentence with the following: The Department will not measure the lowering device, anchor bolts, head frame assembly, cables, winch unit, power cables, wiring,			
	connectors, circuit breakers, grounding lugs, ground wire, ground rods, conduits, test plugs,			
	adjustment and calibration of the unit to provide the desired operation, and any associated			
	hardware for payment and will consider them incidental to this item of work.			
Subsection:	716.04.03 Bracket.			
Revision:	Replace the second sentence with the following: The Department will not measure any			
	associated hardware needed for attaching the bracket to the pole for payment and will consider			
G 1	them incidental to this item of work.			
Subsection: Revision:	716.04.04 Pole Base. Change the subsection heading to 716.04.04 Pole Bases and delete the paragraph.			
Subsection:	716.04.04 Pole Bases.			
Revision:	Insert the following:			
	A. Pole Base. The Department will measure the quantity as each individual unit furnished			
	and installed. The Department will not measure excavation, concrete, conduits, fittings, ground			
	rods, ground wires, ground lugs, reinforcing steel, restoring disturbed areas to the satisfaction			
	of the Engineer, and any associated hardware for payment and will consider them incidental to			
	this item of work.			
	B. Pole Base High Mast. The Department will measure the quantity in cubic yards			
	furnished and installed. The Department will not measure excavation, concrete, conduits,			
	fittings, ground rods, ground wires, ground lugs, reinforcing steel, restoring disturbed areas to the satisfaction of the Engineer, and any associated hardware for payment and will consider			
	them incidental to this item of work.			
	ment included and them of work.			

Contract ID: 162260 Page 50 of 79

Subsection:	716.04.05 Pole Base in Median Wall.		
Revision:	Replace the last sentence with the following: The Department will not measure conduits, fittings, junction boxes, additional reinforcing steel, ground rods, ground wire, ground lugs, and aluminum cover plates (if specified) for payment, and will consider them incidental to this item of work.		
Subsection: Revision:	716.04.06 Transformer Base. Replace the last sentence with the following: The Department will not measure transformer door, ground lug, anchoring bolts, nuts, washers, and any associated hardware for payment and will consider them incidental to this item of work. The filling of any unused holes will also be considered incidental to this item of work.		
Subsection:	716.04.07 Pole with Secondary Equipment.		
Revision:	Replace the heading with the following: 716.04.07 Pole with Secondary Control Equipment.		
Subsection:	716.04.07 Pole with Secondary Control Equipment.		
Revision:	Replace the second and third sentence with the following: The Department will not measure mounting the cabinet to the pole, backfilling, restoration, any necessary hardware to anchor pole, electrical inspection fees, and required building fees involving utility secondary, and primary service for payment and will consider them incidental to this item of work. The Department will also not measure furnishing and installing electrical service conductors, specified conduits, meter base, transformer, service panel, fused cutout, fuses, lighting arrestors, photoelectrical control, circuit breaker, contactor, manual switch, ground rods, ground lugs, and ground wires for payment and will consider them incidental to this item of work. The filling of unused holes will also be considered incidental to this item of work.		
Subsection: Revision:	716.04.08 Lighting Control Equipment. Replace the paragraph with the following:		
	The Department will measure the quantity as each individual unit furnished and installed. The Department will not measure the concrete base, excavation, backfilling, restoration, any necessary anchors, electrical inspection fees, and required building fees involving utility secondary/primary service for payment and will consider them incidental to this item of work. The Department will also not measure furnishing and installing electrical service conductors, specified conduits, meter base, transformer, service panel, fused cutout, fuses, lighting arrestors, photoelectrical control, circuit breakers, contactor, manual switch, ground rods, ground lugs, and ground wires for payment and will consider them incidental to this item of work. The Department will not measure the filling of any unused holes with and will consider them incidental to this item of work.		
Subsection:	716.04.09 Luminaire.		
Revision:	Replace the paragraph with the following: The Department will measure the quantity as each individual unit furnished and installed. The Department will not measure lamps, starters, ballasts, drivers, surge protection, dimming modules, photo-control receptacle, specified shielding (if required), and any adjustments necessary to provide the desired lighting pattern for payment and will consider them incidental to this item of work.		
Subsection:	716.04.10 Fused Connector Kits.		
Revision:	Replace the heading with the following: 716.04.10 Fuse Connector Kits.		
ACVISIUII.	respines the neutring with the following. /10.07.10 1 doc Collifornia Kib.		

Contract ID: 162260 Page 51 of 79

Subsection:	716.04.10 Fuse Connector Kits.		
Revision:	Replace the paragraph with the following: The Department will measure the quantity as each individual unit furnished and installed. The Department will not measure fuses/lugs for payment and will consider them incidental to this item of work.		
Subsection:	716.04.11 Conduit.		
Revision:	Replace the second sentence with the following: The Department will not measure installation in ground or on structures, conduit fittings, test plugs, expansion joints with bonding straps, grounding lugs, drill anchors, clamps, and any additional hardware required for payment and will consider them incidental to this item of work.		
Subsection:	716.04.12 Markers.		
Revision:	Replace the section with the following: The Department will measure the quantity as each individual unit furnished and installed.		
Subsection:	716.04.13 Junction Box.		
Revision:	Replace the subsection title with the following: Electrical Junction Box Type Various.		
Subsection:	716.04.13 Electrical Junction Box Type Various.		
Revision:	Replace the section with the following: The Department will measure the quantity as each individual unit furnished and installed. The Department will not measure additional junction boxes for greater depths than those identified in Plans, #57 aggregate, backfilling, restoration of disturbed areas to the satisfaction of the Engineer, geotextile filter fabric, concrete, hot dipped galvanized cover, stainless steel screws, rubber gasket, and any associated hardware for payment , and will consider them incidental to this item of work.		
Subsection:	716.04.13 Junction Box.		
Part:	A) Junction Electrical.		
Revision:	Delete Part A.		
Subsection:	716.04.14 Trenching and Backfilling.		
Revision:	Replace the section with the following: The Department will measure the quantity in linear feet. The Department will not measure excavation, backfilling, underground utility warning tape (if required), and the restoration of disturbed areas to original condition for payment and will consider them incidental to this item of work.		
Subsection:	716.04.15 Wire or Cable.		
Revision:	Replace the section with the following: The Department will measure the quantity in linear feet furnished and installed. The Department will not measure installation within conduit, splice boots, and any other hardware required for installing cable for payment and will consider them incidental to this item of work.		
	boots, and any other hardware required for installing cable for payment and will consider them		
	boots, and any other hardware required for installing cable for payment and will consider them		
	boots, and any other hardware required for installing cable for payment and will consider them incidental to this item of work. 716.04.16 Ducted Cable. Replace the second sentence of the paragraph with the following: The Department will not measure installation within trench or conduit and any other necessary hardware for payment		
Subsection: Revision:	boots, and any other hardware required for installing cable for payment and will consider them incidental to this item of work. 716.04.16 Ducted Cable. Replace the second sentence of the paragraph with the following: The Department will not		

Contract ID: 162260 Page 52 of 79

Subsection:	716.04.17 Temporary Lighting/Maintain Lighting.			
	Delete the paragraph and add the following parts:			
Tto Vision.		gighting. The Department will measure	are the quantity by lump sum. The	
	Department will not measure poles, luminaires, wire, conduit, trenching and backfilling,			
	control equipment, all relocations and removal, design (if required), and any other necessary			
	hardware to make a complete installation for payment and will consider them incidental to this			
	item of work.			
	B) Maintain Lighting. The Department will measure the quantity by lump sum. The			
	Department will not measure maintenance of lighting elements and design (if required) for			
	payment and will consider them incidental to this item of work.			
	716.04.18 Remove Lighting.			
			partment will measure the quantity by lumn	
	Replace the paragraph with the following: The Department will measure the quantity by lump sum. The Department will not measure backfilling and the disposal or transportation of			
	equipment and materials associated with any structural or electrical component of the lighting			
	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.			
	for payment and will consider them meldental to this item of work.			
Subsection:	716.04.19 Rem	ove Pole Base.		
Revision:	Delete Subsection	on.		
Subsection:	716.04.20 Bore	and Jack Conduit.		
Revision:	Renumber Subs	ection to 716.04.19 Bore and Jack Co	onduit.	
Subsection:	716.04.19 Bore	and Jack Conduit.		
Revision:	Replace the para	agraph with the following: The Depar	rtment will measure the quantity in linear	
	feet. This item shall include all work necessary for boring and installing conduit under an			
	existing roadway.			
Subsection:	716.05 PAYME	NT.		
Revision:	Revise the follow	wing under <u>Code</u> , <u>Pay Item</u> , and <u>Pay</u>	<u>Unit</u> with the following:	
	<u>Code</u>	Pay Item	Pay Unit	
	04700-04701	Pole(Various)Mtg Ht	Each	
	04710-04714	Pole(Various)Mtg Ht High Mast	Each	
	04810-04811	Electrical Junction Box (Various)	Each	
	20391NS835	Electrical Junction Box Type A	Each	
	20392NS835	Electrical Junction Box Type C	Each	
	04770-04773	Luminaire (Various)	Each	
	04780	Fuse Connector Kit	Each	
	20410ED	Maintain Lighting	Lump Sum	
	04941	Remove Pole Base	- Each	
	723.02.02 Paint.			
	Replace sentence with the following: Conform to Section 821.			
	723.03 CONSTRUCTION.			
Revision:	•	,	Standard Specifications for Structural	
	Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current			
	interims,			
	723.03.02 Poles and Bases Installation.			
Revision:	Replace the title with the following: 723.03.02 Pole and Base Installation.			

Contract ID: 162260 Page 53 of 79

Subsection:	723.03.02 Pole and Base Installation.			
Revision:	Replace the first paragraph with the following: Regardless of the station and offset noted,			
	locate all poles/bases behind the guardrail a minimum of four feet from the front face of the			
	guardrail to the front face of the pole base. Orient the handhole door away from traffic travel			
	path. If pole base is installed within a sidewalk the top of the pole base shall be the same grade			
	as the sidewalk.			
Subsection:	723.03.02 Poles and Bases Installation.			
Part:	A) Steel Strain and Mastarm Poles Installation			
Revision:	Replace the title of Part A) Steel Strain and Mast Arm Pole Installation.			
Subsection:	723.03.02 Pole and Base Installation.			
Part:	A) Steel Strain and Mast Arm Pole Installation.			
Revision:	Insert the following sentence at the beginning of the first paragraph: Install pole bases 4 to 6			
	inches above grade.			
Subsection:	723.03.02 Pole and Base Installation.			
Part:	A) Steel Strain and Mast Arm Pole Installation.			
Revision:	Replace the second paragraph with the following: For concrete base installation, see Subsection			
	716.03.02 B), 2), Paragraphs 2-6. Drilled shaft depth shall be based on the soil conditions			
	encountered during drilling and slope condition at the site. Refer to the design chart below:			
Subsection:	723.03.02 Pole and Base Installation.			
Part:	B) Pedestal or Pedestal Post Installation.			
Revision:	Replace the second sentence with the following: If over 12 feet high the base shall have the			
	minimum depth and diameter as Subsection 716.03.02 (A), paragraph 2.			
Subsection:	723.03.02 Poles and Bases Installation.			
Part:	B) Pedestal or Pedestal Post Installation.			
Revision:	Replace the fourth sentence of the paragraph with the following: For breakaway supports,			
	conform to Section 12 of the AASHTO Standard Specifications for Structural Supports for			
	Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims.			
Subsection:	723.03.03 Trenching.			
Revision:	Replace the first sentence with the following: See Subsection 716.03.03 (B).			
Subsection:	723.03.03 Trenching.			
Part:	A) Under Roadway.			
Revision:	Delete Part A) Under Roadway.			
Subsection:	723.03.05 Conduit Requirements in Junction Boxes.			
Revision:	Delete the Subsection and replace with the following:			
	723.03.05 Fuse Connector Kits. See Subsection 716.03.09.			
Subsection:				
Revision:	Delete the Subsection and replace with the following:			
	723.03.06 Painting. See Subsection 716.03.15.			
Subsection:				
Revision:	Delete the Subsection and replace with the following:			
	723.03.07 Electrical Junction Boxes. See Subsection 716.03.10.			

Contract ID: 162260 Page 54 of 79

	723.03.08 Painting.		
	Replace with 723.03.06 Painting. See Subsection 716.03.15.		
	Renumber Subsection to 723.03.08 Underground Warning Tape.		
	723.03.10 Backfilling and Disturbed Areas.		
Revision:	Renumber Subsection to 723.03.09 Backfilling and Disturbed Areas.		
Subsection:			
Revision:	Renumber Subsection to 723.03.10 Wiring Installation.		
Subsection:	723.03.10 Wiring Installation.		
Revision:	Add the following sentence between the fifth and sixth sentences: Provide an extra two feet of		
	loop wire and lead-in past the installed conduit in poles, pedestals, and junction boxes.		
G 1 · ··	702.02.10 Learn Installation		
	723.03.12 Loop Installation.		
	Renumber Subsection to 723.03.11 Loop Installation.		
	723.03.11 Loop Installation.		
	Replace the fourth sentence of the 2nd paragraph with the following: Provide an extra two feet		
	of loop wire and lead-in past the installed conduit in poles, pedestals, and junction boxes.		
Subsections	723.03.13 Grounding Installation.		
	Renumber Subsection to 723.03.12 Grounding Installation.		
	723.03.12 Grounding Installation.		
	Replace the reference to "Standard Detail Sheets" in the first sentence with "Plans".		
	723.03.14 Splicing.		
	Renumber Subsection to 723.03.13 Splicing.		
	723.03.13 Splicing.		
	Delete the reference to (IMSA 19-2) from the 5th sentence of the paragraph.		
	723.03.15 Painting.		
	Delete Subsection.		
	723.03.14 Splicing.		
	Replace with new Subsection 723.03.14 Remove Signal Equipment.		
	723.03.14 Remove Signal Equipment.		
Revision:	Insert the following for the new subsection: Remove all traffic signal equipment that is		
	identified by the Engineer as no longer necessary including, but not limited to, the following:		
	pole bases, poles, junction boxes, cabinets, wood poles, and advance warning flashers. Pole		
	bases shall be removed a minimum of one foot below finished grade by chipping off or other		
	method that is approved by the Engineer. Dispose of all removed concrete off right-of-way.		
	Wood poles shall be removed a minimum of one foot below finished grade. Backfill holes with		
	material approved by the Engineer. Conduit may be abandoned in the ground. Contact the		
	district traffic Engineer to determine if any removed signal equipment needs to be returned to		
	the district and to determine the location/time for such deliveries.		
Subsection:	723.05.16 Drawings.		
	Renumber the Subsection to 723.03.15 Drawings.		
IXCAISIOII:	Renumber the Subsection to 725.05.15 Drawings.		

Contract ID: 162260 Page 55 of 79

Subsection:	723.03.15 Drawings.		
	Replace Subsection with the following: Before final inspection of the traffic control device, provide a complete set of reproducible as-built drawings that show the arrangement and locations of all equipment including: junction boxes, conduits, spare conduits, etc. Keep a daily record of all conduits placed in trenches, showing the distance from the pavement edge, the depth, and the length of runs, and indicate this information on the as-built drawings.		
Subsection:	723.03.17 Acceptance and Inspection Requirements.		
Revision:	Renumber Subsection to 723.03.16 Acceptance and Inspection Requirements.		
Subsection:	723.03.16 Acceptance and Inspection Requirements.		
	Replace the first paragraph of the section with the following: See Subsection 105.12. In coordination with the District Traffic Engineer, energize traffic control device as soon as it is fully functional and ready for inspection. After the work has been completed, conduct an operational test demonstrating that the system operates in accordance with the Plans in the presence of the Engineer. The Department will also conduct its own tests with its own equipment before final acceptance. Ensure that the traffic control device remains operational until the Division of Traffic Operations has provided written acceptance of the electrical work.		
	723.04.01 Conduit.		
	Replace the second sentence of the subsection with the following: The Department will not measure conduit fittings, ground lugs, test plugs, expansion joints, and clamps for payment and		
Subsection:	will consider them incidental to this item of work. 723.04.02 Junction Box.		
	Replace subsection title with the following: Electrical Junction Box Type Various.		
	723.04.02 Electrical Junction Box Type Various.		
Revision:	Replace the subsection with the following: The Department will measure the quantity as each individual unit furnished and installed. The Department will not measure additional junction boxes for greater depths than those identified in Plans, Aggregate (#57), backfilling, restoration of disturbed areas to the satisfaction of the Engineer, geotextile fabric, concrete, hot dipped galvanized cover, stainless steel screws, rubber gasket, and any associated hardware for payment and will consider them incidental to this item of work.		
Subsection:	723.04.03 Trenching and Backfilling.		
	Replace the second sentence with the following: The Department will not measure excavation, backfilling, underground utility warning tape, and the restoration of disturbed areas to original condition for payment and will consider them incidental to this item of work.		
Subsection:	723.04.04 Open Cut Roadway.		
	Replace the second sentence of the subsection with the following: The Department will not measure concrete, reinforcing steel, and asphalt for payment and will consider them incidental to this item of work.		
Subsection:	723.04.05 Loop Wire.		
	Replace the second sentence of the subsection with the following: The Department will not measure splice boots, cable rings, and any other necessary hardware for payment and will consider them incidental to this item of work.		
	723.04.06 Cable.		
Revision:	Replace the second sentence of the subsection with the following: The Department will not measure splice boots, cable rings, and any other hardware for payment and will consider them incidental to this item of work.		

Contract ID: 162260 Page 56 of 79

Subsection:	723.04.07 Pole-Wooden.			
Revision:	Replace the second sentence of the subsection with the following: The Department will not			
	measure excavation, backfilling, and restoring disturbed areas for payment and will consider			
	them incidental to this item of work.			
Subsection:	723.04.08 Steel Strain Pole.			
Revision:	Replace the second sentence of the subsection with the following: The Department will not			
	measure excavation, backfilling, and restoring disturbed areas for payment and will consider			
	them incidental to this item of work.			
Subsection:	723.04.09 Mast Arm Pole.			
Revision:	Replace the second sentence of the subsection with the following: The Department will not			
	measure anchor bolts, arms, mounting brackets, and any other necessary hardware for payment			
	and will consider them incidental to this item of work.			
Subsection:	723.04.10 Signal Pedestal.			
Revision:	Replace the second sentence of the subsection with the following: The Department will not			
	measure excavation, concrete, reinforcing steel, conduits, fittings, ground rods, ground wire,			
	ground lugs, backfilling, restoring disturbed areas, and other necessary hardware for payment			
	and will consider them incidental to this item of work.			
Subsection:	723.04.11 Post.			
Revision:	Replace the second sentence of the subsection with the following: The Department will not			
	measure excavation, backfilling, and restoring disturbed areas for payment and will consider			
	them incidental to this item of work.			
Subsection:	723.04.12 Anchor.			
Revision:	Replace the second sentence of the subsection with the following: . The Department will not			
	measure down-guy, messenger, clamps, guy guard, or insulators, and possible installation in			
	various soil conditions for payment and will consider them incidental to this item of work.			
Subsection:	723.04.13 Messenger.			
Revision:	Replace the second sentence of the subsection with the following: The Department will not			
	measure strand vises, bolts, washers, and other necessary hardware for payment and will			
	consider them incidental to this item of work.			
Subsection:	723.04.14 Install Signal LED.			
Revision:	Revise subsection title to 723.04.14 Install Beacon Controller - 2 Circuit.			
Subsection:	723.04.14 Install Beacon Controller - 2 Circuit.			
Revision:	Replace the subsection with the following: The Department will measure the quantity as each			
	individual unit furnished and installed. The Department will not measure the controller			
	housing, mounting equipment, S5-1 school zone sign, time clock, nema flasher, ground rods,			
	ground wires, ground lugs, metering disconnect hardware, electrical inspection fees, and			
	required building fees involving utility secondary/primary service for payment and will			
	consider them incidental to this item of work.			

Contract ID: 162260 Page 57 of 79

Replace the second sentence of the subsection with the following: The Department will not measure sawing, cleaning, filling induction loop saw slot, loop sealant, backer rod, drilling hole			
for conduit, and grout for payment and will consider them incidental to this item of work. 723.04.16 Pedestrian Detector.			
Replace the subsection with the following: The Department will measure the quantity as each			
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partment will not			
hardware for sign			
723.04.17 Signal.			
partment will not			
plates, and any other			
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partment will not			
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ervice for payment			
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tors, load switches,			
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gn, time clock, nema			
vare, electrical			
nary service for			
payment and will consider them incidental to this item of work. 723.04.20 Install Signal Controller - Type 170.			
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se, mounting the			
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quired building fees			
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Contract ID: 162260 Page 58 of 79

Subsection:	723.04.22 Remove Signal Equipment.
Revision:	Replace the paragraph with the following: The Department will measure the quantity by lump sum. 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.
Subsection: Revision:	723.04.23 Install Span/Pole Mounted Sign. Replace the second sentence of the subsection with the following: The Department will not measure the hanger or any other hardware necessary to install the sign for payment and will consider them incidental to this item of work.
Subsection: Revision:	723.04.24 Install Pedestrian Head LED. Insert the following sentence at the end of the paragraph: The Department will not measure the installation of LED modules and any other necessary hardware for payment and will consider them incidental to this item of work.
Revision:	723.04.25 Install Signal LED. Insert the following sentence at the end of the paragraph: The Department will not measure the installation of LED modules, retroreflective tape, back plates, and any other necessary hardware for payment and will consider them incidental to this item of work.
	723.04.26 Install Coordinating Unit. Replace the subsection with the following: The Department will measure the quantity as each individual unit installed. The Department will not measure radio, modem, cable(s), antenna(s), router, repeater, and any other necessary hardware for payment and will consider them incidental to this item of work.
Subsection: Revision:	723.04.27 Video Camera. Replace the second sentence of the subsection with the following: The Department will not measure video modules, mounting bracket, truss type arm, power cable, coaxial cable, and any other necessary hardware for payment and will consider them incidental to this item of work.
Subsection: Revision:	723.04.28 Install Pedestrian Detector Audible. Replace the second sentence with the following: The Department will not measure installing R10-3e sign, detector housing, and installing mounting hardware for payment and will consider them incidental to this item of work.
Subsection: Revision:	723.04.29 Audible Pedestrian Detector. Replace the second sentence with the following: The Department will not measure furnishing and installing the R10-3e sign, detector housing, and installing mounting hardware for payment and will consider them incidental to this item of work.
Subsection: Revision:	723.04.30 Bore and Jack Conduit. Replace the paragraph with the following: The Department will measure the quantity in linear feet. This item shall include all work necessary for boring and installing conduit under an existing roadway.

Contract ID: 162260 Page 59 of 79

Subsection:	723.04.31 Install Pedestrian Detector.			
Revision:	Replace the paragraph with the following: The Department will measure the quantity as each			
	individual unit installed and connected to pole/pedestal. The Department will not measure			
	installing R 10-3e sign, detector housing, and installing mounting hardware for payment and			
	will consider them incidental to this item of work.			
Subsection:	723.04.32 Install Mast Arm Pole.			
Revision:	Replace the second sentence with the following: The Department will not measure installation			
110 (151011)	of arms, signal mounting brackets, anchor bolts, and any other necessary hardware for payment			
	and will consider them incidental to this item of work.			
Subsection:				
Revision:	Replace the second sentence with the following: The Department will not measure excavation			
Kevision.	backfilling, restoration, furnishing and installing concrete, reinforcing steel, anchor bolts,			
	conduit, fittings, ground rod, ground wire, ground lugs, or any other necessary hardware for			
	payment and will consider them incidental to this item of work.			
	723.04.34 Span Mounted Sign.			
Revision:	Revise subsection title to 723.04.34 Span/Pole-Mounted Sign.			
	723.04.34 Span/Pole-Mounted Sign.			
Revision:	Replace the second sentence of the subsection with the following: The Department will not			
	measure the hanger, sign, and any other necessary hardware for payment and will consider			
	them incidental to this item of work.			
Subsection:	723.04.35 Remove and Reinstall Coordinating Unit.			
Revision:	Add the following sentence to the end of the subsection: The Department will not measure			
	removing, storage, reinstalling, and connecting radio, modem, cable(s), antenna(s), router,			
	repeater, and any other necessary hardware for payment and will consider them incidental to			
	this item of work.			
Subsection:	723.04.36 Traffic Signal Pole Base.			
Revision:	Replace the second sentence of the subsection with the following: The Department will not			
	measure excavation, backfilling, restoration, furnishing and installing reinforcing steel, anchor			
	bolts, conduits, ground rods, ground wires, and ground lugs for payment and will consider			
	them incidental to this item of work.			
Subsection:	723.04.37 Install Signal Pedestal.			
Revision:	Replace the second sentence of the subsection with the following: . The Department will not			
	measure excavation, backfilling, restoration, furnishing and installing concrete, reinforcing			
	steel, conduits, fittings, ground rod, ground wire, ground lugs, and any other necessary			
	hardware for payment and will consider them incidental to this item of work.			
Subsection:	723.04.38 Install Pedestal Post.			
Revision:	Replace the second sentence of the subsection with the following: The Department will not			
	measure excavation, backfilling, restoration, furnishing and installing concrete, reinforcing			
	steel, conduit, fittings, ground rod, ground wire, ground lugs, and any other necessary hardware			
	for payment and will consider them incidental to this item of work.			
	1 3			
Subsection:	723.04.39 Install Antenna.			
Revision:	Replace the second sentence of the subsection with the following: The Department will not			
IXCVISIUII.	measure any other materials necessary to complete the installation for payment and will			
	consider them incidental to this item of work.			
	Consider them incidental to this item of work.			

Contract ID: 162260 Page 60 of 79

Subsection:	723.05 PAYMENT.			
Revision:	Replace items 04810-04811, 20391NS835, 20392NS835,23052NN and add item number			
AC VISIOII.	24526ED under Code, Pay Item, and Pay Unit with the following:			
	24320ED under <u>Code</u> , <u>1 ay Item</u> , and <u>1 ay Ome</u> with the following.			
	Code	Pay Item	Pay Unit	
	04810	Electrical Junction Box	Each	
	04811	Electrical Junction Box Type B	Each	
	20391NS835	Electrical Junction Box Type A	Each	
	20392NS835	Electrical Junction Box Type C	Each	
	23052NN	Span/Pole-Mounted Sign	Each	
	24526ED	Install Beacon Controller 2 Cir	Each	
Subsection	ļ		Lacii	
Revision:	801.01 REQUIREMENTS Replace first sentence in paragraph one with the following: Provide Portland cement or			
Kevision.	Replace first sentence in paragraph one with the following: Provide Portland cement or			
	blended hydraulic cement from approved mills listed in the Department's List of Approved			
Subsection	Materials. 801.01 REQUIREMENTS			
Number:	1)	CENTERVIO		
Revision:		atence with the following: Type L.	II, III, and IV Portland cement conforms to	
Revision:	ASTM C 150.	intence with the following. Type 1, 1	ii, iii, and i v i ortiuna cemeni comornis to	
Subsection		DEMENITO		
Number:	801.01 REQUIREMENTS			
Revision:	Bonlage the first	t contained with the following: Two	e IP (≤20), Portland-pozzolan cement,	
Revision:		© **	* · · · · · · · · · · · · · · · · · · ·	
	conforms to ASTM C595, and the following additional requirements to Type IP (≤20).			
Cubaadian	201 ALDEOLUDE ATAUTO			
Number:	801.01 REQUIREMENTS			
	3) b)			
Part:	b) Delete part b)			
Revision:				
	801.01 REQUIREMENTS			
Number:	3)			
Part:	C) Reserve Post s) to Post b) and apple of the test with the Callegian. The consent areas Cottons			
Revision:	Rename Part c) to Part b) and replace the text with the following: The cement manufacturer shall furnish to the Engineer reports showing the results of tests performed on the fly ash used			
	in the manufacture of the Type IP(≤20) cement shipped to the project.			
Subsection	801.01 REQUIF	REMENTS		
Number:	3)			
Part:	d)			
Revision:	Rename Part d) to Part c)			
	801.01 REQUIREMENTS			
Number:	3)			
Part:	e)			
Revision:			the following: Use only one brand of Type	
	IP(≤20) cement	throughout the project, unless the E	Engineer approved a change in brand in	
	writing.			
Subsection:	801.01 REQUIREMENTS			
Number:	4)			
Revision:	Replace first sentence with the following: Type IS(≤30), Portland blast furnace slag cement,			
	conforms to ASTM C 595 and the following requirements:			

Contract ID: 162260 Page 61 of 79

Subsection:	801.01 REQUIREMENTS
Number:	4)
Part:	a)
Revision:	Replace part a) with the following: Use Grade 100 or 120 blast furnace slag cement
ICC VISIOII.	conforming to the requirements of ASTM C 989.
Subsection	801.01 REQUIREMENTS
Number:	4)
Part:	
	b) Delete next b)
	Delete part b)
	801.01 REQUIREMENTS
Number:	4)
Part:	c)
Revision:	Rename Part c) to Part b) and replace the text with the following: The cement manufacturer
	shall furnish to the Engineer reports showing the results of the tests performed on the blast
	furnace slag cement used in the manufacturing of the Type IS(≤30) shipped to the project.
Subsection:	801.01 REQUIREMENTS
Number:	4)
Part:	d)
Revision:	Rename Part d) to Part c)
	801.01 REQUIREMENTS
Number:	4)
Part:	e)
Revision:	Rename Part e) to Part d) and replace the text with the following: Use only one brand of Type
	IS(≤30) cement throughout the project, unless the Engineer approves otherwise.
Subsection:	801.01 REQUIREMENTS
Number:	5)
Revision:	Insert part 5) as the following: Type IL(5-15), Portland-limestone cement, conforms to ASTM
110 (151011)	C 595 and the following additional requirements:
Subsection:	801.01 REQUIREMENTS
Number:	5)
Part:	a)
Revision:	Insert part a) as the following: The cement manufacturer shall furnish to the Engineer reports
_10,101011	showing the results of test performed on the limestone used in the manufacture of the Type IL
	cement shipped to the project.
Subsection:	801.01 REQUIREMENTS
Number:	5)
Part:	b)
Revision:	Insert part b) as the following: Use only one brand of Type IL cement throughout the project,
	unless the Engineer approves a brand change in writing.
Subsection:	801.01 REQUIREMENTS
Number:	5)
Part:	c)
Revision:	Insert part c) as the following: The Type IL blended cement shall be an intimate and uniform
ACVISIUII.	blend produced by intergrinding of the Portland cement and limestone.
Subsection:	804.01.02 Crushed Sand.
Revision:	Delete last sentence of the section.
vealeigh:	Detete 14St Sentence of the Section.

Contract ID: 162260 Page 62 of 79

Cbasation.	2014 01 06 Class								
	804.01.06 Slag.								
Revision:	Add subsection and following sentence.								
	Provide blast furnace slag sand where permitted. The Department will allow steel slag sand								
~	only in asphalt surface applications.								
	804.04 Asphalt Mixtures.								
Revision:	Replace the subsection with the following:								
	Provide natural, crushed, conglomerate, or blast furnace slag sand, with the addition of filler as								
	necessary, to meet gradation requirements. The Department will allow any combination of								
	natural, crushed, conglomerate or blast furnace slag sand when the combination is achieved								
	using cold feeds at the plant. The Engineer may allow other fine aggregates.								
Subsection:	806.03.01 General Requirements.								
Revision:	Replace the second sentence of the paragraph with the following:								
	Additionally, the material must have a minimum solubility of 99.0 percent when tested								
	according to AASHTO T 44 and PG 76-22 must exhibit a minimum recovery of 60 percent,								
	with a J_{NR} (non-recoverable creep compliance) between 0.1 and 0.5, when tested according to								
	AASHTO TP 70.								
Subsection:	806.03.01 General Requirements.								
Table:	PG Binder Requirements and Price Adjustment Schedule								
Revision:	Replace the Elastic Recovery, % (3) (AASHTO T301) and all corresponding values in the table								
	with the following:								
	Test Specification 100% Pay 90% Pay 80% Pay 70% Pay 50% Pay 100% P								
	MSCR recovery, $\%^{(3)}$ 60 Min. ≥ 58 56 55 54 <53								
	(AASHTO TP 70)								
Subsection	806.03.01 General Requirements.								
Table:	PG Binder Requirements and Price Adjustment Schedule								
Superscript:									
Revision:	Replace (3) with the following:								
ic vision.	Perform testing at 64°C.								
Cubacations	808.07 Polypropylene Waterproofing Membrane.								
Revision:	Replace the paragraph and table with the following: Furnish a layered waterproofing								
Revision:	membrane. The layers will consist of an internal puncture resistant woven polypropylene fabric								
	sandwiched between two rubberized mastic layers. The mastic will have a heavy polyethylene								
	membrane attached on the top and the bottom mastic layer will be covered by a protective								
	release film.								
G 1									
	808.09 Acceptance.								
Revision:	Replace the reference to "KMIMS" in the second paragraph with SiteManager.								
	811.10.04 Properties of the Coated Bar.								
Part:	B) Flexibility of Coating. Penless the second contents of the personal with the followings. Ensure that the coated have								
Revision:	Replace the second sentence of the paragraph with the following: Ensure that the coated bars								
	are capable of being bent to 180 degrees (after rebound) over a mandrel, without any visible								
Cubaat!	evidence of cracking the coating.								
	813.04 Gray Iron Castings.								
Revision:	Replace the reference to "AASHTO M105" with "ASTM A48".								
Subsection:									
Number:	A) Bolts.								
Revision:	Delete first paragraph and "Hardness Number" Table. Replace with the following:								
	A) Bolts. Conform to ASTM A325 (AASHTO M164) or ASTM A490 (AASHTO 253) as								
	applicable.								

a	014.04.02.07.1.1.0
	814.04.02 Timber Guardrail Posts.
Revision:	Third paragraph, replace the reference to "AWPA C14" with "AWPA U1, Section B, Paragraph 4.1".
Subsection:	814.04.02 Timber Guardrail Posts.
Revision:	Replace the first sentence of the fourth paragraph with the following:
	Use any of the species of wood for round or square posts covered under AWPA U1.
Subsection:	814.04.02 Timber Guardrail Posts.
Revision:	Fourth paragraph, replace the reference to "AWPA C2" with "AWPA U1, Section B,
	Paragraph 4.1".
Subsection:	814.04.02 Timber Guardrail Posts.
Revision:	Delete the second sentence of the fourth paragraph.
Subsection:	814.05.02 Composite Plastic.
Revision:	1) Add the following to the beginning of the first paragraph: Select composite offset blocks
	conforming to this section and assure blocks are from a manufacturer included on the
	Department's List of Approved Materials.
	2) Delete the last paragraph of the subsection.
Subsection:	816.07.02 Wood Posts and Braces.
Revision:	First paragraph, replace the reference to "AWPA C5" with "AWPA U1, Section B, Paragraph
	4.1".
Subsection:	816.07.02 Wood Posts and Braces.
Revision:	Delete the second sentence of the first paragraph.
Subsection:	818.07 Preservative Treatment.
Revision:	First paragraph, replace all references to "AWPA C14" with "AWPA U1, Section A".
Subsection:	833.01.02 Sheeting Signs.
Revision:	Replace the second sentence with the following: Provide a thickness of 125 mils if any single
	edge dimension of the sign exceeds 3 feet.
Subsection:	834.14 Lighting Poles.
Revision:	Replace the first sentence with the following: Lighting pole design shall be in accordance with loading and allowable stress requirements of the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims, with the exception of the following: The Cabinet will waive the requirement stated in the first sentence of Section 5.14.6.2 – Reinforced Holes and Cutouts for high mast poles (only). The minimum diameter at the base of the pole shall be 22 inches for high mast poles (only).
Subsection	834.14.03 High Mast Poles.
Revision:	Remove the second and fourth sentence from the first paragraph.
Subsection	834.14.03 High Mast Poles.
Revision:	Replace the third paragraph with the following: Provide calculations and drawings that are
	stamped by a Professional Engineer licensed in the Commonwealth of Kentucky.

Contract ID: 162260 Page 64 of 79

Supplemental Specifications to the Standard Specifications for Road and Bridge Construction, 2012 Edition Effective with the April 29, 2016 Letting

Subsection: Revision:

834.14.03 High Mast Poles.

Replace paragraph six with the following: Provide a pole section that conforms to ASTM A 595 grade A with a minimum yield strength of 55 KSI or ASTM A 572 with a minimum yield strength of 55 KSI. Use tubes that are round or 16 sided with a four inch corner radius, have a constant linear taper of .144 in/ft and contain only one longitudinal seam weld. Circumferential welded tube butt splices and laminated tubes are not permitted. Provide pole

sections that are telescopically slip fit assembled in the field to facilitate inspection of interior surface welds and the protective coating. The minimum length of the telescopic slip splices shall be 1.5 times the inside diameter of the exposed end of the female section. Use longitudinal seam welds as commended in Section 5.15 of the AASHTO 2013 Specifications. The thickness of the transverse base shall not be less than 2 inches. Plates shall be integrally welded to the tubes with a telescopic welded joint or a full penetration groove weld with backup bar.

The handhole cover shall be removable from the handhole frame. One the frame side opposite the hinge, provide a mechanism on the handhole cover/frame to place the Department's standard padlock as specified in Section 834.25. The handhole frame shall have two stainless studs installed opposite the hinge to secure the handhole cover to the frame which includes providing stainless steel wing nuts and washers. The handhole cover shall be manufactured from 0.25 inch thick galvanized steel (ASTM A 153) and have a neoprene rubber gasket that is permanently secured to the handhole frame to insure weather-tight protection. The hinge shall be manufactured from 7-guage stainless steel to provide adjustability to insure weather-tight fit for the cover. The minimum clear distance between the transverse plate and the bottom opening of the handhole shall not be less than the diameter of the bottom tube of the pole but needs to be at least 15 inches. Provide products that are hot-dip galvanized to the requirements of either ASTM A123 (fabricated products) or ASTM A 153 (hardware items).

Subsection:

834.16 ANCHOR BOLTS.

Revision:

Insert the following sentence at the beginning of the paragraph: The anchor bolt design shall follow the NCHRP Report 494 Section 2.4 and NCHRP 469 Appendix A Specifications.

Subsection:

834.17.01 Conventional.

Revision:

Add the following sentence after the second sentence: Provide a waterproof sticker mounted on the bottom of the housing that is legible from the ground and indicates the wattage of the fixture by providing the first two numbers of the wattage.

Subsection

Subsection: | 834.21.01 Waterproof Enclosures.

Revision:

Replace the last five sentences in the second paragraph with the following sentences: Provide a cabinet door with a louvered air vent, filter-retaining brackets and an easy to clean metal filter. Provide a cabinet door that is keyed with a factory installed standard no. 2 corbin traffic control key. Provide a light fixture with switch and bulb. Use a 120-volt fixture and utilize a L.E.D. bulb (equivalent to 60 watts minimum). Fixture shall be situated at or near the top of the cabinet and illuminate the contents of the cabinet. Provide a 120 VAC GFI duplex receptacle in the enclosure with a separate 20 amp breaker.

G 1 .:	027 07 T CC D 1
	835.07 Traffic Poles.
Revision:	Replace the first sentence of the first paragraph with the following: Pole diameter and wall thickness shall be calculated in accordance with the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims.
Subsection:	835.07 Traffic Poles.
Revision:	*Replace the first sentence of the fourth paragraph with the following: Ensure transverse plates
	have a thickness ≥ 2 inches.
	*Add the following sentence to the end of the fourth paragraph: The bottom pole diameter
	shall not be less than 16.25 inches.
Subsection:	835.07 Traffic Poles.
Revision:	Replace the third sentence of the fifth paragraph with the following: For anchor bolt design,
	pole forces shall be positioned in such a manner to maximize the force on any individual
	anchor bolt regardless of the actual anchor bolt orientation with the pole.
Subsection:	835.07 Traffic Poles.
Revision:	Replace the first and second sentence of the sixth paragraph with the following: The pole handhole shall be 25 inches by 6.5 inches. The handhole cover shall be removable from the handhole frame. On the frame side opposite the hinge, provide a mechanism on the handhole cover/frame to place the Department's standard padlock as specified in Section 834.25. The handhole frame shall have two stainless studs installed opposite the hinge to secure the handhole cover to the frame which includes providing stainless steel wing nuts and washers. The handhole cover shall be manufactured from 0.25 inch thick galvanized steel (ASTM 153) and have a neoprene rubber gasket that is permanently secured to the handhole frame to insure weather-tight protection. The hinge shall be manufactured from 7 gauge stainless steel to provide adjustability to insure a weather-tight fit for the cover. The minimum clear distance between the transverse plate and the bottom opening of the handhole shall not be less than the diameter of the bottom tube but needs to be at least 12 inches.
Subsection: Revision:	835.07 Traffic Poles. *Replace the first sentence of the last paragraph with the following: Provide calculations and drawings that are stamped by a Professional Engineer licensed in the Commonwealth of Kentucky. *Replace the third sentence of the last paragraph with the following: All tables referenced in 835.07 are found in the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 2013-6th Edition with current interims.
Subsection:	835.07.01 Steel Strain Poles.
Revision:	Replace the second sentence of the second paragraph with the following:
	The detailed analysis shall be certified by a Professional Engineer licensed in the
	Commonwealth of Kentucky.
	835.07.01 Steel Strain Poles.
Revision:	Replace number 7. after the second paragraph with the following: 7. Fatigue calculations
	should be shown for all fatigue related connections. Provide the corresponding detail, stress
a.	category and example from table 11.9.3.1-1.
	835.07.02 Mast Arm Poles.
Revision:	Replace the second sentence of the fourth paragraph with the following: The detailed analysis
	shall be certified by a Professional Engineer licensed in the Commonwealth of Kentucky.

Subsection:	835.07.02 Mast Arm Po	oles.								
Revision:	Replace number 7) after the fourth paragraph with the following: 7) Fatigue calculations									
110 (151011)	should be shown for all fatigue related connections. Provide the corresponding detail, stress									
	category and example from table 11.9.3.1-1.									
Subsection	835.07.03 Anchor Bolts									
Revision:	Add the following to the end of the paragraph: There shall be two steel templates (one can be									
Revision:	_	t of the anchor bolt when designed i	- '							
	_									
	_	ained within a 26.5 inch diameter.	An templates shall be fully							
G 1 4	galvanized (ASTM A 153).									
	835.16.05 Optical Units									
Revision:	Replace the 3rd paragra									
		ducts can be found on the following	website: http://www.intertek.com.							
	835.19.01 Pedestrian D									
Revision:	*	ce with the following: Provide a fou	•							
		t is compatible with the pedestrian of	letector.							
Subsection:	843.01.01 Geotextile Fa	abric.								
Table:	TYPE I FABRIC GEO	TEXTILES FOR SLOPE PROTECT	ΓΙΟΝ AND CHANNEL LINING							
Revision:	Add the following to th	e chart:								
	Property	Minimum Value ⁽¹⁾	Test Method							
	CBR Puncture (lbs)	494	ASTM D6241							
	Permittivity (1/s)	0.7	ASTM D4491							
	1 Crimitary (1/3)	0.7	ASIM D 1171							
Subsection:	843.01.01 Geotextile Fa	abric.								
Table:	TYPE II FABRIC GEC	TEXTILES FOR UNDERDRAINS	9							
Revision:	Add the following to the chart:									
	Property	Minimum Value ⁽¹⁾	Test Method							
	CBR Puncture (lbs)	210	ASTM D6241							
	Permittivity (1/s)	0.5	ASTM D0241 ASTM D4491							
	remittivity (1/8)	0.3	AS 1 W D4491							
Subsection:	843.01.01 Geotextile Fa	abric								
Table:		OTEXTILES FOR SUBGRADE OF	REMBANKMENT							
Tubic.	STABILIZATION	ore sobolicies of	C DIVIDI II VICIVIDI VI							
Revision:	Add the following to th	e chart:								
ACVISIOII.	_		T-4 M-41 - 1							
	Property (II)	Minimum Value ⁽¹⁾	Test Method							
	CBR Puncture (lbs)	370	ASTM D6241							
	Permittivity (1/s)	0.05	ASTM D4491							
Subsections	843.01.01 Geotextile Fa	abric								
Table:		OTEXTILES FOR EMBANKMEN	T DD AINIACE DI ANIVETO AND							
rable:	PAVEMENT EDGE D		I DRAINAGE BLAINE IS AND							
D										
Revision:	Add the following to th									
	<u>Property</u>	Minimum Value ⁽¹⁾	<u>Test Method</u>							
	CBR Puncture (lbs)	309	ASTM D6241							
	Permittivity (1/s)	0.5	ASTM D4491							

KNOTT COUNTY FD51 060 3391 001-007 Contract ID: 162260 Page 67 of 79

Supplemental Specifications to the Standard Specifications for Road and Bridge Construction, 2012 Edition Effective with the April 29, 2016 Letting

Subsection: 843.01.01 Geotextile Fabric.

Table: TYPE V HIGH STRENGTH GEOTEXTILE FABRIC

Revision: Make the following changes to the chart:

<u>Property</u> <u>Minimum Value⁽¹⁾</u> <u>Test Method</u>

CBR Puncture (lbs) 618 ASTM D6241

Apparent Opening Size U.S. #40⁽³⁾ ASTM D4751

(3) Maximum average roll value.

2016 KENTUCKY STANDARD DRAWINGSSUPPLEMENTS TO STANDARD SPECIFICATIONS TABLE OF CONTENTS

TYPICAL GUARDRAIL INSTALLATIONS	RBI-001-11
TYPICAL GUARDRAIL INSTALLATIONS	RBI-002-07
DELINEATORS FOR GUARDRAIL	RBR-055
TEMPORARY SILT FENCE	RDX-210-03
TEMPORARY SILT FENCE WITH WOVEN WIRE FENCE FABRIC	RDX-215-01
SILT TRAP - TYPE A	RDX-220-05
SILT TRAP - TYPE B	RDX-225-01
SILT TRAP - TYPE C	RDX-230-01
MISCELLANEOUS STANDARDS	RGX-001-06
LANE CLOSURE TWO-LANE HIGHWAY	TTC-100-04
SHOULDER CLOSURE	TTC-135-02

PART III

EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

KNOTT COUNTY FD51 060 3391 001-007

Contract ID: 162260 Page 70 of 79

TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS

LABOR AND WAGE REQUIREMENTS APPLICABLE TO OTHER THAN FEDERAL-AID SYSTEM PROJECTS

I. Application

II. Nondiscrimination of Employees (KRS 344)

III. Payment of Predetermined Minimum Wages

IV. Statements and Payrolls

I. APPLICATION

- 1. These contract provisions shall apply to all work performed on the contract by the contractor with his own organization and with the assistance of workmen under his immediate superintendence and to all work performed on the contract by piecework, station work or by subcontract. The contractor's organization shall be construed to include only workmen employed and paid directly by the contractor and equipment owned or rented by him, with or without operators.
- 2. The contractor shall insert in each of his subcontracts all of the stipulations contained in these Required Provisions and such other stipulations as may be required.
- 3. A breach of any of the stipulations contained in these Required Provisions may be grounds for termination of the contract.

II. NONDISCRIMINATION OF EMPLOYEES

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 (between forty and seventy); 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 (between forty and seventy). 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, disability or age (between forty and seventy), except that such notice or advertisement may indicate a preference, limitation, or specification based on religion, or national origin when religion, or national origin 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 (between forty and seventy), 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.

III. PAYMENT OF PREDETERMINED MINIMUM WAGES

- 1. These special provisions are supplemented elsewhere in the contract by special provisions which set forth certain predetermined minimum wage rates. The contractor shall pay not less than those rates.
- 2. The minimum wage determination schedule shall be posted by the contractor, in a manner prescribed by the Department of Highways, at the site of the work in prominent places where it can be easily seen by the workers.

IV. STATEMENTS AND PAYROLLS

- 1. All contractors and subcontractors affected by the terms of KRS 337.505 to 337.550 shall keep full and accurate payroll records covering all disbursements of wages to their employees to whom they are required to pay not less than the prevailing rate of wages. Payrolls and basic records relating thereto will be maintained during the course of the work and preserved for a period of one (1) year from the date of completion of this contract.
- 2. The payroll records shall contain the name, address and social security number of each employee, his correct classification, rate of pay, daily and weekly number of hours worked, itemized deductions made and actual wages paid.
- 3. The contractor shall make his daily records available at the project site for inspection by the State Department of Highways contracting office or his authorized representative.

Periodic investigations shall be conducted as required to assure compliance with the labor provisions of the contract. Interrogation of employees and officials of the contractor shall be permitted during working hours.

Aggrieved workers, Highway Managers, Assistant District Engineers, Resident Engineers and Project Engineers shall report all complaints and violations to the Division of Contract Procurement.

The contractor shall be notified in writing of apparent violations. The contractor may correct the reported violations and notify the Department of Highways of the action taken or may request an informal hearing. The request for hearing shall be in writing within ten (10) days after receipt of the notice of the reported violation. The contractor may submit

records and information which will aid in determining the true facts relating to the reported violations.

Any person or organization aggrieved by the action taken or the findings established as a result of an informal hearing by the Division of Contract Procurement may request a formal hearing.

- 4. The wages of labor shall be paid in legal tender of the United States, except that this condition will be considered satisfied if payment is made by a negotiable check, on a solvent bank, which may be cashed readily by the employee in the local community for the full amount, without discount or collection charges of any kind. Where checks are used for payments, the contractor shall make all necessary arrangements for them to be cashed and shall give information regarding such arrangements.
- 5. No fee of any kind shall be asked or accepted by the contractor or any of his agents from any person as a condition of employment on the project.
- 6. No laborers shall be charged for any tools used in performing their respective duties except for reasonably avoidable loss or damage thereto.
- 7. Every employee on the work covered by this contract shall be permitted to lodge, board, and trade where and with whom he elects and neither the contractor nor his agents, nor his employees shall directly or indirectly require as a condition of employment that an employee shall lodge, board or trade at a particular place or with a particular person.
- 8. Every employee on the project covered by this contract shall be an employee of either the prime contractor or an approved subcontractor.
- 9. No charge shall be made for any transportation furnished by the contractor or his agents to any person employed on the work.
- 10. No individual shall be employed as a laborer or mechanic on this contract except on a wage basis, but this shall not be construed to prohibit the rental of teams, trucks or other equipment from individuals.

No Covered employee may be employed on the work except in accordance with the classification set forth in the schedule mentioned above; provided, however, that in the event additional classifications are required, application shall be made by the contractor to the Department of Highways and (1) the Department shall request appropriate classifications and rates from the proper agency, or (2) if there is urgent need for additional classification to avoid undue delay in the work, the contractor may employ such workmen at rates deemed comparable to rates established for similar classifications provided he has made written application through the Department of Highways, addressed to the proper agency, for the supplemental rates. The contractor shall retroactively adjust, upon receipt of the supplemental rates schedule, the wages of any employee paid less than the established rate and may adjust the wages of any employee overpaid.

- 11. 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 laborer or mechanic in any work-week in which he is employed on such work, to work in excess of eight hours in any calendar day or 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 his basic rate of pay for all hours worked in excess of eight hours in any calendar day or in excess of forty hours in such work-week. A laborer, workman or mechanic and an employer may enter into a written agreement or a collective bargaining agreement to work more than eight (8) hours a calendar day but not more than ten (10) hours a calendar day for the straight time hourly rate. This agreement shall be in writing and shall be executed prior to the employee working in excess of eight (8) hours, but not more than ten (10) hours, in any one (1) calendar day.
- 12. Payments to the contractor may be suspended or withheld due to failure of the contractor to pay any laborer or

mechanic employed or working on the site of the work, all or part of the wages required under the terms of the contract. The Department may suspend or withhold payments only after the contractor has been given written notice of the alleged violation and the contractor has failed to comply with the wage determination of the Department of Highways.

13. Contractors and subcontractors shall comply with the sections of Kentucky Revised Statutes, Chapter 337 relating to contracts for Public Works.

Revised 2-16-95

Contract ID: 162260 Page 72 of 79

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 (6) provides:

No present or former public servant shall, within six (6) months of 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 the state in matters in which he was directly involved during 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, provided that, for a period of six (6) months, he personally refrains from working on any matter in which he was directly involved 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.

KRS 11A.040 (8) states:

A former public servant shall not represent a person in a matter before a state agency in which the former public servant was directly involved, 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, Room 136, Capitol Building, 700 Capitol Avenue, Frankfort, Kentucky 40601; telephone (502) 564-7954.

Kentucky Equal Employment Opportunity Act of 1978

The requirements of the Kentucky Equal Employment Opportunity Act of 1978 (KRS 45.560-45.640) shall not apply to this Contract.

Contract ID: 162260 Page 74 of 79

TRANSPORTATION CABINET DIVISION OF CONSTRUCTION PROCUREMENT COMPLIANCE SECTION PROJECT WAGE RATES

WORKERS	MINIMUM HOURLY
RATE\$7.25	

Note: Parts III and IV of "Labor and Wage Requirements Applicable to Other Than Federal-Aid System Projects" do not apply to this project.

Federal-State Sheet 1 of 1

EMPLOYEE RIGHTS UNDER THE FAIR LABOR STANDARDS ACT

THE UNITED STATES DEPARTMENT OF LABOR WAGE AND HOUR DIVISION

FEDERAL MINIMUM WAGE

\$7.25

PER HOUR

BEGINNING JULY 24, 2009

OVERTIME PAY

At least $1\frac{1}{2}$ times your regular rate of pay for all hours worked over 40 in a workweek.

CHILD LABOR

KNOTT COUNTY FD51 060 3391 001-007 An employee must be at least **16** years old to work in most non-farm jobs and at least **18** to work in non-farm jobs declared hazardous by the Secretary of Labor.

Youths **14** and **15** years old may work outside school hours in various non-manufacturing, non-mining, non-hazardous jobs under the following conditions:

Contract ID: 162260 Page 75 of 79

No more than

- 3 hours on a school day or 18 hours in a school week;
- 8 hours on a non-school day or 40 hours in a non-school week.

Also, work may not begin before **7 a.m.** or end after **7 p.m.**, except from June 1 through Labor Day, when evening hours are extended to **9 p.m.** Different rules apply in agricultural employment.

TIP CREDIT

Employers of "tipped employees" must pay a cash wage of at least \$2.13 per hour if they claim a tip credit against their minimum wage obligation. If an employee's tips combined with the employer's cash wage of at least \$2.13 per hour do not equal the minimum hourly wage, the employer must make up the difference. Certain other conditions must also be met.

ENFORCEMENT

The Department of Labor may recover back wages either administratively or through court action, for the employees that have been underpaid in violation of the law. Violations may result in civil or criminal action.

Employers may be assessed civil money penalties of up to \$1,100 for each willful or repeated violation of the minimum wage or overtime pay provisions of the law and up to \$11,000 for each employee who is the subject of a violation of the Act's child labor provisions. In addition, a civil money penalty of up to \$50,000 may be assessed for each child labor violation that causes the death or serious injury of any minor employee, and such assessments may be doubled, up to \$100,000, when the violations are determined to be willful or repeated. The law also prohibits discriminating against or discharging workers who file a complaint or participate in any proceeding under the Act.

ADDITIONAL INFORMATION

- Certain occupations and establishments are exempt from the minimum wage and/or overtime pay provisions.
- Special provisions apply to workers in American Samoa and the Commonwealth of the Northern Mariana Islands.
- Some state laws provide greater employee protections; employers must comply with both.
- The law requires employers to display this poster where employees can readily see it.
- Employees under 20 years of age may be paid \$4.25 per hour during their first 90 consecutive calendar days of employment with an employer.
- Certain full-time students, student learners, apprentices, and workers with disabilities may be paid less than the minimum wage under special certificates issued by the Department of Labor.



PART IV

INSURANCE

Contract ID: 162260 Page 77 of 79

INSURANCE

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

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

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

PART V

BID ITEMS

Contract ID: 162260 Page 79 of 79

162260

PROPOSAL BID ITEMS

Page 1 of 1

Report Date 8/1/16

Section: 0001 - ROADWAY

LINE	BID CODE	ALT DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	02484	CHANNEL LINING CLASS III	2,316.00	TON		\$	
0020	02562	TEMPORARY SIGNS	150.00	SQFT		\$	
0030	02599	FABRIC-GEOTEXTILE TYPE IV	495.00	SQYD		\$	
0040	02650	MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0050	21554EN	EXCAVATION	132.00	CUYD		\$	

Section: 0002 - GUARDRAIL

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0060	01987		DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	8.00	EACH		\$	
0070	02383		REMOVE & RESET GUARDRAIL	225.00	LF		\$	

Section: 0003 - DEMOBILIZATION

LINE	BID CODE	ALT DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0080	02569	DEMOBILIZATION	1.00	LS		\$	