



CALL NO. 364

CONTRACT ID. 221001

BULLITT COUNTY

FED/STATE PROJECT NUMBER FD04 015 0065 117-118

DESCRIPTION I-65

WORK TYPE RETAINING WALL

PRIMARY COMPLETION DATE 4/30/2023

LETTING DATE: June 23,2022

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

PLANS AVAILABLE FOR THIS PROJECT.

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

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PART I
SCOPE OF WORK

ADMINISTRATIVE DISTRICT - 05

CONTRACT ID - 221001

FD04 015 0065 117-118

COUNTY - BULLITT

PCN - DE01500652148

FD04 015 0065 117-118

I-65 (MP 117.40) CONSTRUCT SOUND BARRIER ON THE EAST SIDE OF NORTHBOUND I-65 FROM MP 117.4 TO MP 117.8 (MP 117.80), A DISTANCE OF 0.40 MILES. RETAINING WALL SYP NO. 05-08856.00.

GEOGRAPHIC COORDINATES LATITUDE 37:57:00.00 LONGITUDE 85:40:00.00

ADT

COMPLETION DATE(S):

COMPLETED BY 04/30/2023

APPLIES TO ENTIRE CONTRACT

CONTRACT NOTES

PROPOSAL ADDENDA

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

BID SUBMITTAL

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

JOINT VENTURE BIDDING

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

UNDERGROUND FACILITY DAMAGE PROTECTION

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

REGISTRATION WITH THE SECRETARY OF STATE BY A FOREIGN ENTITY

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

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

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

SPECIAL NOTE FOR PROJECT QUESTIONS DURING ADVERTISEMENT

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

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

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

HARDWOOD REMOVAL RESTRICTIONS

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

INSTRUCTIONS FOR EXCESS MATERIAL SITES AND BORROW SITES

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

ACCESS TO RECORDS

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

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

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

April 30, 2018

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 electronic bidding software. Submittal of the Affidavit should be done along the bid in Bid Express.

April 30, 2018

PROJECT TRAFFIC COORDINATOR (PTC)

Be advised this project is a significant project pursuant to section 112.03.12.

BULLITT COUNTY
I-65 SOUND BARRIER WALL
From MP 117.4 to MP 117.8
Item No. 5-8856.00
Project No. FD04 015-0065-117-118

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SOUND BARRIER WALL PROJECT DESCRIPTION

Project No. FD04 015-0065-117-118

The purpose of this project is to construct a sound barrier wall on the east side northbound I-65 (MP 117.4 to MP 117.8) as shown on the plan set. The project includes the following items:

- Installation of a precast concrete sound barrier wall which includes the design of the sound barrier wall and coring and design of the foundation for the wall;
- Maintaining and controlling traffic; and
- Other miscellaneous items defined in the plans, notes, and estimated bid item quantities.

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GENERAL NOTES

Project No. FD04 015-0065-117-118

EXISTING STORM DRAINAGE FACILITIES AND UNDERGROUND UTILITIES:

The Contractor shall use all possible care in his operations to avoid damaging existing pipes and any underground existing utilities. He shall be responsible for any damages to the above-mentioned items and shall repair or restore at his own expense any items damaged as the result of his operations.

The existing storm drainage facilities and underground utilities shown on the plans are based on record drawings provided by the respective agencies. It is the responsibility of the contractor to verify the accuracy (both location and elevation) of the facilities prior to fabrication of the sound wall panels due to the potential impact with the proposed drilled shafts. This work is incidental to "Site Preparation".

OVERHEAD UTILITIES:

The minimum vertical clearance of existing overhead utilities should be 18 feet on state roads and 24 feet when crossing interstate or other limited access highway roadways and ramps. Clearance must also adhere to the requirements of the National Electric Safety Code, American Standards Institute, and Institute of Electrical and Electronic Engineers, Inc. Any questions concerning working around the existing facilities in the area can be addressed at the preconstruction meeting.

UTILITIES (HAZARDOUS OR FLAMMABLE MATERIAL):

The Contractor is advised to exercise caution in his operations in areas of gas line or other lines carrying hazardous material.

CONSTRUCTION MATERIAL DISPOSAL:

All material that is required to be removed shall be disposed of off the Right-of-Way at sites acquired by the Contractor and approved by the Engineer, at no additional cost to the department, per section 204.03.08 of current KYTC Standard Specifications.

EXISTING SIGNS:

It is the Contractor's responsibility to "remove and re-install signs" as needed for construction. This work includes removing and installing signs, adjusting the height, etc. as directed by the Engineer.

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AVOIDANCE OF UNDERGROUND TRAFFIC DEVICES:

It is the Contractor's responsibility to coordinate with Central Office traffic through the Engineer when working near or affecting underground traffic control devices located within the project limits. Locations of existing traffic devices may not be completely reflected on the plans and should be addressed before beginning construction. The Contractor shall contact the KYTC District 5 Traffic Office ten business days prior to beginning work to mark the existing roadway lighting conduits. The Contractor shall be responsible for any damages to the above-mentioned items and shall repair or restore at their own expense any items damaged as a result of their operations.

BEFORE YOU DIG:

THE CONTRACTOR IS INSTRUCTED TO CALL 1-800-752-6007 TO REACH KY 811, THE ONE-CALL SYSTEM FOR INFORMATION ON THE LOCATION OF EXISTING UNDERGROUND UTILITIES. THE CALL IS TO BE PLACED A MINIMUM OF TWO (2) AND NO MORE THAN TEN (10) BUSINESS DAYS PRIOR TO EXCAVATION. THE CONTRACTOR SHOULD BE AWARE THAT OWNERS OF UNDERGROUND FACILITIES ARE NOT REQUIRED TO BE MEMBERS OF THE KY 811 ONE-CALL BEFORE-U-DIG (BUD) SERVICE. THE CONTRACTOR MUST COORDINATE EXCAVATION WITH THE UTILITY OWNERS, INCLUDING THOSE WHO DO NOT SUBSCRIBE TO KY 811. IT MAY BE NECESSARY FOR THE CONTRACTOR TO CONTACT THE COUNTY COURT CLERK TO DETERMINE WHAT UTILITY COMPANIES HAVE FACILITIES IN THE AREA.

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SPECIAL NOTES FOR SOUND BARRIER WALL CONSTRUCTION

Project No. FD04 015-0065-117-118

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

GENERAL

All work shall be performed in accordance with the Department's Standard Specifications, current Standard Drawings, and the Manual on Uniform Traffic Control Devices (MUTCD), latest edition adopted by the Department, except as specified in these notes or elsewhere in this proposal. Section references are to the Standard Specifications.

SITE PREPARATION

The contractor shall be responsible for all site preparation, including, but not limited to, clearing and grubbing; incidental excavation, grading, backfilling, embankment, cleaning existing ditch, grading existing ditch to drain; saw cutting trees, stump grinding and herbicide treatment, tree trimming, tree removal; removal of obstructions or any other items; disposal of materials, waste and debris; temporary and permanent erosion control; restoration, final dressing, and seeding and protection. The Department has not determined the area of clearing and grubbing. In the area identified on the plans as the Highway Beautification Tract, the Contractor shall do the minimal amount of tree trimming and/or removal, only that which is necessary for installation of the sound barrier wall.

Construct silt traps and temporary silt fence and clean as directed by the Engineer. KYTC has not determined the disturbed area and it is the responsibility of the Contractor to make this determination and file a Kentucky Pollutant Discharge Elimination System (KPDES) Electronic Notice of Intent (eNOI) if necessary.

Perform all site preparation only as approved or directed by the Engineer. All work described above or identified in the plan set as incidental to site preparation will not be measured or paid for but shall be incidental to the lump sum bid for Site Preparation.

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 himself with existing conditions so that the work can be expeditiously performed after a contract is awarded. Submission of a bid will be considered evidence of this inspection having been made. Any claims resulting from site conditions will not be honored by the Department.

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RIGHT-OF-WAY LIMITS

The Department has not established the exact limits of right-of-way. Limit activities to obvious Right-of-Way and work areas, if any, secured by the Department through consent and release of the adjacent property owners. Be responsible for all encroachments onto private lands.

PROPERTY DAMAGE AND RESTORATION

The Contractor shall be responsible for all damage to public and/or private property resulting from the work. All disturbed features shall be restored in like kind materials and designed at no additional cost to the Department.

SOUND BARRIER WALLS

See “**Special Notes for Sound Barrier Walls**” and the Plans.

MAINTAINING AND CONTROLLING TRAFFIC

See “**Traffic Management General Notes**” in the Roadway Plan Set.

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SPECIAL NOTES FOR SOUND BARRIER WALLS

Project No. FD04 015-0065-117-118

I. DESCRIPTION

All work shall be performed in accordance with the Department's latest Standards and Supplemental Specifications and applicable Special Provisions and Standard and Sepia Drawings, except as specified in these notes or elsewhere in this proposal. Section references are to the Standard Specifications. This work shall consist of design of the sound barrier wall, foundation, and connections, construction plans for the foundation, shop drawing preparation, and construction of precast concrete sound barrier walls, including construction of the drilled shaft foundations, in reasonably close conformity with the lines and grades shown on the contract plans and the Contractor's approved plans.

All references to AASHTO are to the AASHTO LRFD Bridge Design Specifications for Highway Bridges, Current Edition with Interims.

II. DESIGN

A. General

Furnish plans for sound barrier walls and foundations designed by a Registered Professional engineer licensed to practice in the Commonwealth of Kentucky. Design according to the AASHTO LRFD Bridge Design Specifications, and the Contract plans and documents.

The Contractor's design shall comply with all restrictions imposed by the site conditions and the proposal notes and plan sheets such as drainage, accommodation of existing and proposed utilities, limitations on dimensions or sound barrier wall location, fire hydrant access, and other conditions noted or found in the field. The top and bottom of the sound barrier wall elevation throughout shall be as shown on the contract plans.

B. Site Conditions

Be advised that Section 102.07 of the Specifications applies to this project. It shall be distinctly understood that any references in the contract plans and other contract documents to rock, rock disintegration zone, earth, or any other subsurface material whether in numbers, words, letters, or lines is solely for the Department's information. The Bidder draws his own conclusions as to the field conditions to be encountered.

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Tops of drilled shafts are to be a minimum of 6 inches below finished grade.

C. Utilities

Take into consideration existing and proposed utilities and the Department's electrical service for interchange lighting in the vicinity of the sound barrier walls when developing sound barrier wall details. Show on the Contractor's plans and shop drawings additional work or materials necessary to construct the sound barrier wall without disturbing the utilities. The Contractor shall contact the KYTC District 5 Traffic Office ten business days prior to beginning work to mark the existing roadway lighting conduits. Repair or replace features damaged during construction in like kind materials and design at no additional cost to the Department.

D. Contractor Submittals

Submit design calculations and plans to the Engineer for review within thirty calendar days of the "Notice to Begin Work". Submit adequate documentation of proprietary designs and/or products to the Engineer for review.

Obtain sufficient subsurface information in order to design the drilled shaft foundations for axial and lateral loading conditions. Show field measured top of rock elevations, as appropriate, on the Contractor's plans.

Submit electronic files in PDF format of calculations and plans for the sound barrier wall to the Engineer for approval. Design calculations shall include the design for each component of the wall and the wall as a unit. Include the design for the horizontal connection between panels. Include the design of the connection to the existing barrier wall where shown on the plans. Include drilled shaft foundation design for axial and lateral loading. Show on the plans the drilled shaft foundations. One set of design calculations and plans, with any corrections noted will be returned to the Contractor. Each time corrections are made, three copies of the revised calculation sheets and/or five copies of the revised plan sheets shall be submitted.

The Department will review the design calculations and plans for general conformance with AASHTO, this Special Note, and the Contract Documents. The design calculations, plans, details and dimensions may not be completely checked by the Department. The Contractor shall be responsible for the accuracy of his design calculations and for compatibility with the contract plans. The Department's review will not relieve the Contractor of responsibility for the accuracy and completeness of the design calculations and plans.

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Upon final approval by the Department, furnish electronic files in PDF format of the Contractor's approved plans to the Engineer. The Department will provide copies of the approved plans to the Contractor.

Do not produce shop drawings before the Department's approval of the design calculations and Contractor's plans is completed. The Contractor's wall design engineer providing the design calculations and plans shall be responsible for shop drawing review. The Contractor's wall design engineer shall provide the Engineer electronic files in PDF format for the wall and provide the Department with a statement of assurance that the shop drawings are accurate and that they satisfy the project requirements. Each sheet of the shop drawings shall be dated, sealed, and signed by the wall design engineer providing the Contractor's design for the wall. Place the Drawing Number on the lower right-hand side of all shop drawings.

Do not order materials or begin fabrication or construction before the Department's review of the shop drawings is completed. The Contractor may request permission from the Engineer to begin foundation construction at his own risk. Written permission from the engineer is required.

After acceptance by the Department, submit requests for changes to the design calculations, Contractor's approved plans and shop drawings to the Engineer. Obtain written acceptance from the Engineer before incorporating any of the requested changes into the work.

Allow thirty working days for the Department's review of each submission of the design calculations, Contractor's plans, and shop drawings for the sound barrier wall. The thirty-day period begins when the design calculations, Contractor's plans, or shop drawings are received by the Engineer. Additional time required by the Department to review re-submissions shall not be cause for extending the specified completion date. Provide additional re-submissions as requested at no additional cost to the Department and with no extension of the specified completion date.

III. SOUND BARRIER WALLS

Precast Concrete Walls

Where shown on the plans, design a free standing sound barrier wall finished on one side. The maximum precast panel length shall be 40 feet. Design all sound barrier walls for the same appearance and materials. Design drilled shafts for foundations; other type foundation designs will not be accepted.

Precast Concrete panels may be pilaster (post), and panel design or connected panels.

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Precast concrete panels, pilasters, and other precast elements shall comply with Section 605 of the Standard Specifications. Precast concrete shall be Class D with a minimum 28-day compressive strength of 5000 p.s.i. All materials and reinforcement shall conform to the Department's Standard Specifications.

Precast panels, pilasters, and other precast elements may be prestressed. Prestress fabrication shall be in accordance with Section 605 of the Standard Specifications. Prestressing tendons may be either bar or strand. Prestressing bars shall conform to ASTM A722, 'High Strength Steel Bars for Prestressed Concrete'. Prestressing strands shall be seven wire strands conforming to ASTM A416, 'Low-Relaxation, Seven-Wire Steel Strand for Prestressed Concrete'.

Use drilled shafts as foundation. The Contractor's design should be in accordance to the Special Note for Drilled Shafts (11C) of the Standard Specifications. The Contractor's plans shall indicate whether or not permanent casings will be required. Drilled Shaft Common, Drilled Shaft Solid Rock, Rock Sounding, and Rock Coring will be incidental to the Sound Barrier Wall and will not be measured for separate payment.

Use preformed joint filler complying with AASHTO M153 for Types I, II, or III or AASHTO M213.

Provide positive means of alignment between panels. Use tongue and groove joints with a minimum protrusion of 1".

Seal all joints between panels and between pilasters and panels with silicone sealer to prevent sound leaks. Obtain the Engineer's approval of the sealant before use. See notes for finish requirements below.

Step elevation changes at the top of the sound barrier wall except for end panels. Construct the top of sound barrier level between steps. Make steps only at the pilasters. Construct the top of the sound barrier wall at the elevation of the top of the sound barrier shown on the contract plans. The top of the pilaster elevation should match the elevation of the highest adjacent panel.

Construct reinforced concrete pilasters. Cast using metal forms. Construct pilasters that protrude a maximum of twelve inches from the front face of the precast panels. Connect pilasters to drilled shaft foundations above the finish grade. Use bolted galvanized steel for the connections; the Engineer will not allow or permit field welding.

Obtain the Engineer's approval of joint materials and details before use.

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Finish Requirements:

Precast Panels – Provide an architectural formed finish representing an ashlar stone form lined surface on one side of the wall as approved by the Resident Engineer.

Pilasters - Pilasters shall be concrete and shall be cast using metal forms.

Color – All concrete surfaces of the precast panels and pilasters shall be stained as approved by the Resident Engineer, using outdoor grade coloring agents applied according to the manufacturer's instructions. Provide a uniform color throughout the entire length of the sound barrier wall.

Joints – Horizontal joints are to be filled with silicone sealer and stained to match the color of the wall as approved by the Resident Engineer.

Provide two samples of the precast concrete panels, a minimum of four feet by eight feet, cast using same form liners as proposed for production for the Department's approval. Retain one sample at the casting yard for a standard of comparison for the production panels. Deliver the second sample to the project site. Casting and delivering the samples to the job site will not be measured for separate payment, but shall be incidental to Sound Barrier Wall.

IV. MATERIALS APPROVAL

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, obtain acceptance of materials from the Engineer before use.

V. CONSTRUCTION

Perform site preparation necessary to construct the sound barrier wall in accordance with the Standard Specifications, contract plans, Contractor's approved plans and notes in the proposal.

Construct sound barrier walls in accordance with the contract plans, the Contractor's approved plans, and the approved shop drawings. Construct vertical and horizontal joints so that the sound barrier wall is structurally sound and with no sound leaks. Construct the face of the completed sound barrier wall without deviation from the vertical of more than ½ inch in ten feet and with horizontal alignment conforming to the neat line shown on the contract plans.

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Alternate drilled shaft foundation designs are permitted if solid rock is encountered above the solid rock line shown on the Contractor's approved plans; however, contact the Engineer before revising the drilled shaft foundations. Revised calculations and Contractor's plans will be required. Obtain the Engineer's acceptance of revised drilled shaft foundation designs before constructing. Construct the tops of drilled shaft foundations a minimum of six inches below finish grade on both sides of the sound barrier wall. There will be no deduction in area to be measured for payment when drilled shaft foundations protrude into the sound barrier bottom pay limit.

Revising the drilled shaft foundation designs shall not be cause for an extension in contract time or change the contract price.

Transport, store, handle, and erect precast units in accordance with Section 605 of the Standard Specifications.

Protect all masonry materials from the weather from the time of manufacture until they are in the finished sound barrier walls.

Construction of the ditches shown on the plans will not be measured for payment but shall be incidental to Site Preparation.

After constructing the wall, clean all sound barrier wall surfaces. Clean from the top of the wall to twelve inches below finished grade on both sides. Use a cleaner selected by the Contractor and approved by the Engineer.

VI. MEASUREMENT

SOUND BARRIER WALL

Sound Barrier Walls will be measured in square feet of surface area in a vertical plane between the vertical and horizontal limits, top of wall elevations, and lateral limits shown on the Contractor's approved plans or approved changes; however, tops of footings may be above the minimum depth of burial with no reduction in area to be measured.

Any area of the sound barrier wall outside the approved vertical and horizontal plan limits as shown on the approved plans or changes approved or directed by the Engineer will not be measured for payment. Approved adjustments in the area will be measured in square feet and the final quantity will be increased or decreased as applicable.

The Department will not measure caps, copings, joint sealants, void fill material, weep holes, connectors, trim, surface finish, concrete stain, cleaning, sample panels, and incidental items that are a normal part of the sound barrier wall construction, but shall be incidental to Sound Barrier Wall.

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FOUNDATION PREPARATION

Contrary to Section 603.04.03, **Foundation Preparation** will be measured as lump sum. Structure Excavation Common, Structure Excavation Solid Rock, Structure Excavation Unclassified, Foundation Undercut, Drilled Shaft Common, Drilled Shaft Solid Rock, Rock Sounding, and Rock Coring for removal of unsuitable foundation materials will not be measured for separate payment but shall be incidental to **Foundation Preparation or Site Preparation**.

SITE PREPARATION

See the Special Notes for Sound Barrier Wall Construction on page 5.

VII. PAYMENT

Payment at the contract unit price per square foot shall be full complete compensation for all labor, materials, equipment, and incidentals to design and construction of the sound barrier walls.

<u>CODE</u>	<u>PAY ITEM</u>	<u>PAY UNIT</u>
21590EN	Sound Barrier Wall	Square Feet
08003	Foundation Preparation	Lump Sum
20257NC	Site Preparation	Lump Sum

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SPECIAL NOTE FOR LIQUIDATED DAMAGES

Project No. FD04 015-0065-117-118

Liquidated Damages in the amount of \$25,000 will be assessed for each hour or part of an hour that a temporary lane and/or shoulder closure remains in place during periods prohibited by the Traffic Management Plan. All liquidated damages will be applied accumulatively.

All other applicable portions of KYTC Standard Specification Section 108 shall apply.

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PROJECT COMPLETION DATE

Project No. FD04 015-0065-117-118

The specified completion date for this project is **May 31, 2022.** See “**Special Note for Liquidated Damages**”.

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STANDARD DRAWINGS

Project No. FD04 015-0065-117-118

RDX-210-03	TEMPORARY SILT FENCE
RDX-225-01	SILT TRAP TYPE B
TTC-115-04	LANE CLOSURE MULTI-LANE HIGHWAY CASE I
TTC-135-03	SHOULDER CLOSURE

I-65 SOUND BARRIER WALL ITEM # 5-8856 PUBLIC INFORMATION PLAN

The primary goal of the Public Information Plan (PIP) is to inform the motoring public and area stakeholders of project information including Maintenance of Traffic (MOT) which includes temporary widening, lane shifts, temporary diversions & median crossovers, and lane closures. The KYTC District 5 Public Information Officer (PIO) will coordinate and disseminate to stakeholders and the media appropriate information regarding the construction plans.

LOCAL STAKEHOLDERS

- Elected Officials
 - State Senator Mike Nemes - (502) 564-8100; Nemes, Mike (State Sen.) (LRC)
<Mike.Nemes@LRC.KY.GOV>
 - State Representative Thomas Huff – (502) 564-8100; Huff, Thomas (State Rep.) (LRC)
<Thomas.Huff@LRC.KY.GOV>
 - State Representative Russell Webber – (502) 564-8100; Webber, Russell (State Rep.) (LRC)
<Russell.Webber@LRC.KY.GOV>
 - Bullitt County Judge Executive Jerry Summers – (502) 543-2262;
<jsummers@bullittky.com>
 - County Coordinator - Candy Renfrow <crenfrow@bullittky.com>
 - Bullitt County Magistrate District 4 Joe Rayhill – (502) 299-4106;
<joe.rayhill@yahoo.com>
 - Shepherdsville Mayor Curtis Hockenbury – (502) 543-2923
<mayorhock@shepcity.com>
 - Shepherdsville City Clerk – (502) 215-1529
<trichmond@shepcity.com>

- Local Agencies
 - Walt Sholar, Bullitt County Sheriff– (502) 543-2514; walt.sholar@bcky.org
 - Bullitt County E-911 Center – (502) 543-7074; fax (502) 955-5562
 - Eric Cook, Bullitt County Emergency Services- (502) 543-2000; <ecook@bullittky.com>
 - Joseph Shepherd, Bullitt County Schools Transportation Dept. – (502) 869-8031; <joseph.shepherd@bullitt.kyschools.us>
 - Robert Watkins, Bullitt County Road Department – (502) 543-2510; <rwatkins@bullittky.com>
 - Layne Troutman, Shepherdsville Fire Department – (502) 543-6833; <ltroutman@shepfire.com>

- Utility Companies
 - Local utility companies are kept apprised of this project at the monthly utility coordination meetings hosted by District 5

- Neighborhoods and their Mayors

TRUCKING FIRMS AND OUT OF STATE STAKEHOLDERS

Information will be distributed electronically to trucking firms via Rick Taylor at the Department of Vehicle Regulation (502-564-4540; rick.taylor@ky.gov). Information will also be posted on the 511 website (www.511.ky.gov) and on the 511 telephone information system.

PRESENTATIONS

A project description including anticipated schedule will be provided to the media, stakeholders and other emergency service agencies via e-mail prior to construction. Information will be provided to these groups via traffic advisories, press releases, the District 5 website and the weekly District 5 Road Show of Construction and Maintenance Activities.

MEDIA RELATIONS

The District PIO will prepare an initial news release regarding the contract award for the project. The PIO will conduct interviews with the media throughout the project duration to keep the public informed of construction progress. Traffic advisories will be submitted to the media when a change in the MOT occurs. The contractor must provide to the PIO via the Resident Engineer notification of any change in the MOT at least five (5) days prior to the change.



Kentucky Transportation Cabinet
Division of Highway Design
TRAFFIC MANAGEMENT PLAN

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County: Jefferson Item No.: 05-8856

Federal Project No.: FD04 015-0065-117-118

Project Description:

TO CONSTRUCT SOUND BARRIERS ON EAST SIDE OF I-65 ACROSS FROM CONESTOGA INDUSTRIAL AREA. (MP 117.4 to 117.8)

Roadway Classification: Urban Rural

Local Collector Arterial Interstate
ADT (current) 94,000 AM Peak Current 3550 NB PM Peak Current 3450 NB % Trucks

Project Designation: Significant Other: _____

Traffic Control Plan Design:

Taper and Diversion Design Speeds _____

Minimum Lane Width * Minimum Shoulder Width N/A

Minimum Bridge Width N/A

Minimum Radius N/A Maximum Grade N/A

Minimum Taper Length N/A Minimum Intersection Level of Service N/A

Existing Traffic Queue Lengths N/A Projected Traffic Queue Lengths N/A

Comments:

*See Traffic Management General Notes



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TRAFFIC MANAGEMENT PLAN

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Item No. 05-8856

Discussion:

1) Public Information Plan	
a) Prepare with assistance from <input checked="" type="checkbox"/> KYTC or <input type="checkbox"/> _____	
b) Identify Trip Generators Referenced	f) Railroad Involvement Referenced
c) Identify Types of Road Users Referenced	g) Address Pedestrians, Bikes Mass Transit Referenced
d) Public Information Message Referenced	h) Address Timing, Frequency, Updates, Effectiveness of Plan Referenced
e) Public Information Strategies to be used Referenced	i) Police & Other Emergency Services Referenced



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2) Temporary Traffic Control Plan (For Each Phase of Construction) Phase 1 & 2			
Exposure Control Measures		Positive Protection Measures	
a) Is Road Closure Allowed Type:	Referenced	a) Address Drop Off Protection Criteria	N/A
b) Detour Conditions	N/A	b) Temporary Barrier Requirements	Referenced
c) Working Hour Restrictions	Referenced	c) Evaluation of Existing Guardrail Conditions	N/A
d) Holiday or Special Event Work Restrictions	Referenced	d) Address Temporary Drainage	Referenced
e) Evaluation of Intersection LOS	N/A	Uniformed Law Enforcement Officers	N/A
f) Evaluation of Queue Lengths	N/A	Payment for Traffic Control*	
g) Evaluation of User Costs and Incentives/Disincentives	Referenced	a) Method of Project Bidding	Referenced
h) Address Pedestrians, Bikes, Mass Transit	N/A	b) Special Notes	Referenced
Work Vehicles and Equipment	Referenced	*Payment for traffic control items shall be in accordance with the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction	
Comments:			
See page 7.			



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TRAFFIC MANAGEMENT PLAN

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APPROVAL:

Project Manager Date

Project Delivery and Preservation Manager Date

Engineering Support Manager Date

FHWA Representative Date

Revisions to the TMP require review/approval by the signatories.



Kentucky Transportation Cabinet
Division of Highway Design
TRAFFIC MANAGEMENT PLAN

**I-65 SOUND BARRIER WALL
ITEM # 05-8856
PUBLIC INFORMATION PLAN**

The primary goal of the Public Information Plan (PIP) is to inform the motoring public and area stakeholders of project information including Maintenance of Traffic (MOT) which includes temporary widening, lane shifts, temporary diversions & median crossovers, and lane closures. The KYTC District 5 Public Information Officer (PIO) will coordinate and disseminate to stakeholders and the media appropriate information regarding the construction plans.

LOCAL STAKEHOLDERS

- Elected Officials
 - State Senator Mike Nemes - (502) 564-8100; Nemes, Mike (State Sen.) (LRC) <Mike.Nemes@LRC.KY.GOV>
 - State Representative Thomas Huff – (502) 564-8100; Huff, Thomas (State Rep.) (LRC) <Thomas.Huff@LRC.KY.GOV>
 - State Representative Russell Webber – (502) 564-8100; Webber, Russell (State Rep.) (LRC) <Russell.Webber@LRC.KY.GOV>
 - Bullitt County Judge Executive **Jerry Summers** – (502) 543-2262; <jsummers@bullittky.com>
 - County Coordinator - Candy Renfrow <crenfrow@bullittky.com>
 - Bullitt County Magistrate District 4 Joe Rayhill – (502) 299-4106; <joe.rayhill@yahoo.com>
 - Shepherdsville Mayor Curtis Hockenbury – (502) 543-2923 <mayorhock@shepcity.com>
 - Shepherdsville City Clerk – (502) 215-1529 <trichmond@shepcity.com>

- Local Agencies
 - Walt Sholar, Bullitt County Sheriff– (502) 543-2514; walt.sholar@bcky.org
 - Bullitt County E-911 Center – (502) 543-7074; fax (502) 955-5562
 - Eric Cook, Bullitt County Emergency Services- (502) 543-2000; <ecook@bullittky.com>
 - Joseph Shepherd, Bullitt County Schools Transportation Dept. – (502) 869-8031; <joseph.shepherd@bullitt.kyschools.us>
 - Robert Watkins, Bullitt County Road Department – (502) 543-2510; <rwatkins@bullittky.com>
 - Layne Troutman, Shepherdsville Fire Department – (502) 543-6833; <ltroutman@shepfire.com>

- Utility Companies
 - Local utility companies are kept apprised of this project at the monthly utility coordination meetings hosted by District 5



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Division of Highway Design
TRAFFIC MANAGEMENT PLAN

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- Neighborhoods and their Mayors

TRUCKING FIRMS AND OUT OF STATE STAKEHOLDERS

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PRESENTATIONS

A project description including anticipated schedule will be provided to the media, stakeholders and other emergency service agencies via e-mail prior to construction. Information will be provided to these groups via traffic advisories, press releases, the District 5 website and the weekly District 5 Road Show of Construction and Maintenance Activities.

MEDIA RELATIONS

The District PIO will prepare an initial news release regarding the contract award for the project. The PIO will conduct interviews with the media throughout the project duration to keep the public informed of construction progress. Traffic advisories will be submitted to the media when a change in the MOT occurs. The contractor must provide to the PIO via the Resident Engineer notification of any change in the MOT at least five (5) days prior to the change.



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TRAFFIC MANAGEMENT PLAN

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KENTUCKY TRANSPORTATION CABINET
DEPARTMENT OF HIGHWAYS
TRAFFIC MANAGEMENT PLAN
Item No. 05-8856.00

2) **Temporary Traffic Control Plan (Supplement to Sheet 3)**

Exposure Control Measures

- a) **Is Road Closure Allowed:** Single lane closure on I-65 is allowed during specified hours. See Traffic Management General Notes.
- b) **Detour Conditions:** None required.
- c) **Working Hour Restrictions:** See Traffic Management General Notes.
- d) **Holiday or Special Event Work Restrictions:** Traffic Management General Notes
- e) **Evaluation of Intersection LOS:** None required.
- f) **Evaluation of Queue Lengths:** None required.
- g) **Evaluation of User Costs and Incentives/Disincentives:** As stipulated in the Standard Specifications for Road and Bridge Construction and Special Note for Disincentives.
- h) **Address Pedestrians, Bikes, and Mass Transit:** Not affected.

Work Vehicles and Equipment: As per Standard Specifications for Road and Bridge Construction, current edition.

Positive Protection Measures

- a) **Address Drop-Off Protection Criteria:** N/A
- b) **Temporary Barrier Requirements:** See Traffic Management General Notes
- c) **Evaluation of Existing Guardrail Conditions:** N/A
- d) **Address Temporary Drainage:** Temporary Drainage, if required, is to be as noted on the plans and in the proposal.

Uniform Law Enforcement Officers: None required.

Payment for Traffic Control: Payment for traffic control items shall be in accordance with the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction, unless otherwise noted.

- a) **Method of Project Bidding:** Open.
- b) **Special Notes:** See Proposal.

TRAFFIC MANAGEMENT GENERAL NOTES

TRAFFIC CONTROL GENERAL

As provided herein, maintain traffic in accordance with the Standard Specifications for Road and Bridge Construction Edition of 2018, Section 112 - Maintenance And Control Of Traffic During Construction and the Manual on Uniform Traffic Control Devices (MUTCD), current edition. Except for the roadway and traffic control bid items listed, all items of work necessary to maintain and control traffic during construction shall be incidental to the item "Maintain and Control Traffic."

LANE AND SHOULDER CLOSURES

Long term lane closures shall not be used on this project. Long term shoulder closures shall not be used on this project.

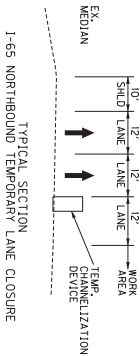
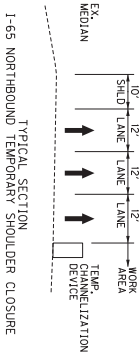
A temporary lane closure may be installed for construction operations adjacent to a traveled way. The length of temporary lane and shoulder closures shall only be that required for actual operations with the progression of work. The days and periods of time this will be allowed are Monday thru Saturday except for those days when the contractor must apply in writing to the engineer for approval of the period of time selected. The engineer, at his discretion, can cancel or shorten any period of time before and during a construction operation if he determines that the contractor has not installed proper traffic control devices for temporary lane and shoulder closures shall be drums.

- Temporary lane and shoulder closures shall not be allowed during the following days:
 November 25-28, 2021 Thanksgiving Weekend
 December 24, 2021 Christmas Eve
 December 25, 2021 Christmas Day
 May 5-7, 2022 Kentucky Oaks/Derby Memorial Day Weekend
 May 27-30, 2022 Memorial Day Weekend

Contractor's section 112 lane closures will not be considered for payment regardless of the duration of closures, but will be considered incidental to "Maintain and Control Traffic" Lump Sum. Liquidated damages shall apply for temporary lane and shoulder closures that are in place for the days and hours noted above.

PORTABLE CHANGEABLE MESSAGE SIGNS

Provide a minimum of two Portable Changeable Message Signs in advance of or on the project at locations to be determined by the Engineer. The locations designated may vary as the work progresses. The Engineer will designate the message to be provided. Operate the Portable Changeable Message Signs as directed by the Engineer. The contractor shall provide the Portable Changeable Message Signs as directed by the Changeable Message Sign within 24 hours. The department will measure for payment the maximum number of signs in concurrent use on the same time on a single day during the contract. Individual signs will be measured for payment on the basis of the number of days they are set, reset, removed, and reinstalled during the duration of the project.



TRUCK MOUNTED ATTENUATORS

Furnish and install Truck Mounted Attenuators (TMA) in advance of all stationary equipment or work areas within less than 10 feet from traffic. Locate TMAs of the individual work sites and move them as the work zone moves along the project. TMAs shall be used in accordance with the Standard Specification 112.04.13. TMAs will not be measured for payment but shall be incidental to "Maintain and Control Traffic." Upon completion of the work, the TMAs shall remain the property of the contractor.

BARRICADES

Barricades will not be allowed in lieu of drums for channelization or delineation.

COORDINATION OF WORK

Be advised that other projects may be in progress within or in the near vicinity of this project. Work on this project shall be coordinated with the work of other contractors. In case of conflict, the Engineer will determine the relative priority of work phasing on the various projects.

GUARDRAIL CONSTRUCTION

Contractor may temporarily remove guardrail as needed. New guardrail is to be installed prior to work in the area behind it. The contractor may remove existing guardrail, but must reset or replace prior to the end of work day activities. Removal and resetting or replacing of guardrail shall be at the contractor's expense.

LIQUIDATED DAMAGES

Liquidated Damages in the amount of \$25,000 will be assessed for each hour or part of an hour that a lane or shoulder is closed in excess of the time specified in the contract. Payment for liquidated damages will be assessed cumulatively. All other applicable portions of the KYTC Standard Specification Section 108 shall apply.

PROJECT PHASING

Work is allowed at night and on the weekends on this project.

PHASE I

Install erosion control, prepare site for construction, drill shafts and install pilasters.

PHASE II

Install sound barrier wall/panels, Backfill and regrade upon completion of panel installation. Seed and protect all exposed surfaces.

N.T.S.

I-65 (NB) NOISE WALL M.P. 117.4-117.8
TRAFFIC MANAGEMENT
GENERAL NOTES

COUNTY OF	MEMO.	SHEET NO.
BULLITT	05-8856.00	88

MicroStation v8.11.9.608

E-SHEET NAME: R00800MT

USER: bae
DATE PLOTTED: September 16, 2021

FILE NAME: N:19119 - STATEWIDE DESIGN/LA 4 - I-65 NOISE WALL/PHASE2/CONTRACT PLAN SET-DGN/ROADWAY/R00800MT.DGN



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

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

RIGHT OF WAY CERTIFICATION

<input checked="" type="checkbox"/>	Original	<input type="checkbox"/>	Re-Certification	RIGHT OF WAY CERTIFICATION
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ITEM #	COUNTY	PROJECT # (STATE)	PROJECT # (FEDERAL)
5-8856.00	Bullitt	1100 FD04 015 128580	

PROJECT DESCRIPTION			
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SOUND BARRIERS ON EAST SIDE OF I-65 ACROSS FROM CONESTOGA INDUSTRIAL AREA

<input checked="" type="checkbox"/>	No Additional Right of Way Required
-------------------------------------	--

Construction will be within the limits of the existing right of way. The right of way was acquired in accordance to FHWA regulations under the Uniform Relocation Assistance and Real Property Acquisitions Policy Act of 1970, as amended. No additional right of way or relocation assistance were required for this project.

<input type="checkbox"/>	Condition # 1 (Additional Right of Way Required and Cleared)
--------------------------	---

All necessary right of way, including control of access rights when applicable, have been acquired including legal and physical possession. Trial or appeal of cases may be pending in court but legal possession has been obtained. There may be some improvements remaining on the right-of-way, but all occupants have vacated the lands and improvements, and KYTC has physical possession and the rights to remove, salvage, or demolish all improvements and enter on all land. Just Compensation has been paid or deposited with the court. All relocations have been relocated to decent, safe, and sanitary housing or that KYTC has made available to displaced persons adequate replacement housing in accordance with the provisions of the current FHWA directive.

<input type="checkbox"/>	Condition # 2 (Additional Right of Way Required with Exception)
--------------------------	--

The right of way has not been fully acquired, the right to occupy and to use all rights-of-way required for the proper execution of the project has been acquired. Some parcels may be pending in court and on other parcels full legal possession has not been obtained, but right of entry has been obtained, the occupants of all lands and improvements have vacated, and KYTC has physical possession and right to remove, salvage, or demolish all improvements. Just Compensation has been paid or deposited with the court for most parcels. Just Compensation for all pending parcels will be paid or deposited with the court prior to AWARD of construction contract

<input type="checkbox"/>	Condition # 3 (Additional Right of Way Required with Exception)
--------------------------	--

The acquisition or right of occupancy and use of a few remaining parcels are not complete and/or some parcels still have occupants. All remaining occupants have had replacement housing made available to them in accordance with 49 CFR 24.204. KYTC is hereby requesting authorization to advertise this project for bids and to proceed with bid letting even though the necessary right of way will not be fully acquired, and/or some occupants will not be relocated, and/or the just compensation will not be paid or deposited with the court for some parcels until after bid letting. KYTC will fully meet all the requirements outlined in 23 CFR 635.309(c)(3) and 49 CFR 24.102(j) and will expedite completion of all acquisitions, relocations, and full payments after bid letting and prior to AWARD of the construction contract or force account construction.

Total Number of Parcels on Project	EXCEPTION (S) Parcel #	ANTICIPATED DATE OF POSSESSION WITH EXPLANATION
Number of Parcels That Have Been Acquired		
Signed Deed		
Condemnation		
Signed ROE		

Notes/ Comments (Use Additional Sheet if necessary)

LPA RW Project Manager		Right of Way Supervisor	
Printed Name		Printed Name	Tom Boykin
Signature		Signature	Tom Boykin <small>Digitally signed by Tom Boykin Date: 2021.10.04 14:40:17 -0400</small>
Date		Date	
Right of Way Director		FHWA	
Printed Name		Printed Name	
Signature	<small>Digitally signed by Kelly R. Divine Date: 2021.10.04 13:47:23 -05'00'</small>	Signature	
Date		Date	

UTILITIES AND RAIL CERTIFICATION NOTE

BULLITT COUNTY
FD04 015 006 5 117-118
SOUND BARRIERS ON EAST SIDE OF I-65
KYTC ITEM NO.: 05-8856.00

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

THE FOLLOWING RAIL COMPANIES HAVE FACILITIES IN CONJUNCTION WITH THIS PROJECT AS NOTED

No Rail Involved **Minimal Rail Involved (See Below)** **Rail Involved (See Below)**

UNDERGROUND FACILITY DAMAGE PROTECTION – BEFORE YOU DIG

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

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

SPECIAL CAUTION NOTE – PROTECTION OF UTILITIES

The contractor will be responsible for contacting all utility facility owners on the subject project to coordinate his activities. The contractor will coordinate his activities to minimize and, where possible, avoid conflicts with utility facilities. Due to the nature of the work proposed, it is unlikely to conflict with the existing utilities beyond minor facility adjustments. Where conflicts with utility facilities are unavoidable, the contractor will coordinate any necessary relocation work with the facility owner and Resident Engineer. The

Kentucky Transportation Cabinet maintains the right to remove or alter portions of this contract if a utility conflict occurs.

UTILITIES AND RAIL CERTIFICATION NOTE

BULLITT COUNTY
FD04 015 006 5 117-118
SOUND BARRIERS ON EAST SIDE OF I-65
KYTC ITEM NO.: 05-8856.00

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

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

AREA UTILITIES CONTACT LIST AS PROVIDED BY KY 811

<u>Utility Company/Agency</u>	<u>Contact Name</u>	<u>Contact Information</u>
1. AT&T KY 1340 E. John Rowan Blvd Bardstown, KY 40004		Scott Roche Office (502) 348-4528 Cell (502) 827-4703 SR8832@att.com
2. AT&T Legacy 7555 E. Pleasant Valley Road, Suite 140 Independence, OH 44131		Mike Diederich Office (216) 750-0135 Cell (216) 212-8556 MD4145@att.com Don Garr Cell (502) 741-8374 DonGarr@outlook.com
3. Bullitt County Public Schools 1040 Highway 44 East Shepherdsville, KY 40165 Kevin.Fugate@bullitt.kyschools.us		Kevin Fugate Office (502) 869-8040 Cell (502) 639-3458
(Consultant: LG Fiber) LG Fiber		Larry Gregory LGFiber@gmail.com (606) 521-2649
4. Bullitt County Sanitation District PO Box 818		Jerry Kennedy Office (502) 957-6140

UTILITIES AND RAIL CERTIFICATION NOTE

BULLITT COUNTY
FD04 015 006 5 117-118
SOUND BARRIERS ON EAST SIDE OF I-65
KYTC ITEM NO.: 05-8856.00

Hillview, KY 40129

Jerry's-Covid 19-Redfern1@twc.com

Cell (502) 643-3165

BullittSanitation@windstream.net

5. CenturyLink Communications, LLC (See Lumen Technologies Inc.)

6. Charter Communications
10168 Linn Station Road, Suite 120
Louisville, KY 40223

Kevin Mercer
Office (502) 357-4724
Cell (502) 817-5055

Kevin.Mercer@charter.com

Michael York
Cell (502) 548-1632

Michael.York@charter.com

7. City of Mount Washington
Mt. Washington Sewer & Water Commission
311 Snapp Street

Elizabeth Hall, City Administrator
DHall@mtwky.org

Office (502) 538-4216
(502) 538-4781

Cell (502) 955-6784

Ronnie Fick, Public Works Director
Office (502) 538-3771

Cell (502) 693-1146

RFick@mtwky.org

Derrick Engineering, Consultant
DerrickInc@bellsouth.net

8. City of Shepherdsville Sewer
634 Conestoga Parkway
PO Box 400
Shepherdsville, KY 40165
Shepherdsville)

Arthur Jones, Engineer
Office (502) 492-7404
AJones@shepcity.com
Office (502) 955-7803 (City of

Scott Fleming
Cell (502) 664-6254
SFleming@shepcity.com

9. City of Taylorsville Sewer & Water
70 Taylorsville Road, PO Box 279
Taylorsville, KY 40071

Harold Compton
(502) 477-3235
Fax (502) 477-1310
HCompton@TaylorsvilleWater.org

Sisler & Maggard
220 Reynolds Rd
Lexington, KY 40517

Kevin Sisler, Consultant
(859) 271-2978 (859) 509-3799
Kevin.@SislerMaggard.com

UTILITIES AND RAIL CERTIFICATION NOTE

BULLITT COUNTY
FD04 015 006 5 117-118
SOUND BARRIERS ON EAST SIDE OF I-65
KYTC ITEM NO.: 05-8856.00

Steve Biven, City Clerk
(502) 477-3235 x106
SBiven@taylorsvillewater.org

10. Crown Castle Network Operations
10300 Ormsby Park Place, Suite 501
Louisville, KY 40223

Mona Couch
Office (317) 249-2029,
Cell (317) 439-1578
Mona.Couch@crowncastle.com
Lisa Clark, Construction Manager
(810) 223-3780
Lisa.Clark@crowncastle.com

Craig Brown, Manager-Network Construction
Office (317) 819-8648,
Cell (585) 402-8342
Craig.Brown@crowncastle.com

11. East Kentucky Power Coop
PO Box 707
4775 Lexington Road
Winchester, KY 40391

Garry Harvey
(859) 745-9601
Garry.Harvey@ekpc.coop
Ronnie Terrill
Office (859) 745-9594
Cell (859) 582-5376
Ronnie.Terrill@ekpc.coop

12. Kentucky Wired, KCNA
500 Mero Street – Suite 1-1 NC #59
Frankfort, KY 40601

Mike Hayden,
Chief Operating Officer
Office (502) 782-2535
Mike.Hayden@ky.gov

Ledcor, Service Provider
LTS Kentucky Managed Technical Services LLC
2008 Mercer Rd. 2nd floor
Lexington, KY 40511

Nick Blake
Operations Manager
Office (859) 286-8158
Cell (859) 447-0781
Nick.Blake@Ledcor.com

UTILITIES AND RAIL CERTIFICATION NOTE

BULLITT COUNTY
FD04 015 006 5 117-118
SOUND BARRIERS ON EAST SIDE OF I-65
KYTC ITEM NO.: 05-8856.00

Gary Lady, Ledcor
Office (606) 594-6959
Gary.lady@ledcor.com

Facility Map Requests to KIH.Technical.Services@ledcor.com

13. LG&E KU (Electric)
820 West Broadway
Louisville, KY 40202
LG&E Emergency Number (502) 589-1444
LG&E and KU Emergency Number 1-800-331-7370

Caroline Justice
Office (502) 627-3708
Caroline.Justice@LGE-KU.com

14. LG&E (Gas)
820 West Broadway
Louisville, KY 40202
Gas Emergency Number (502) 589-5511
LG&E and KU Emergency Number 1-800-331-7370

Caroline Justice
Office (502) 627-3708
Caroline.Justice@LGE-KU.com

15. Lebanon Junction Water Works
City Hall - Main Street
PO Box 69
Lebanon Junction, KY 40150

Charles Sullivan
Cell (502) 817-0352
LJWW16@yahoo.com
City Hall (502) 833-4311

16. Level 3 (See Lumen Technologies Inc.)

17. Lighttower (See Crown Castle Network Operation)

18. Louisville Water Company
550 South Third Street
Louisville, KY 40202

Pat Howard, PE
Office (502) 569-3615
Cell (502) 287-7568
PHoward@lwcky.com

UTILITIES AND RAIL CERTIFICATION NOTE

BULLITT COUNTY
FD04 015 006 5 117-118
SOUND BARRIERS ON EAST SIDE OF I-65
KYTC ITEM NO.: 05-8856.00

19. Lumen Technologies Inc.
260 Winn Ave
Winchester, KY 40391

Jim Trapnell, Field Operations
Cell (859) 806-5833
Jim.Trapnell@lumen.com

Lumen Technologies Inc.

20. MCI (See Verizon)

21. Marathon Pipeline, LLC
539 South Main Street, Room X-05-018
Findlay, OH 45840
or
20-C Industrial Drive
Specialist
Lexington, OH 44904

Dennis Durnal
Office (502) 448-8311
Cell (419) 581-0038
DDurnal@marathonpetroleum.com
Austin Guyer / Sr. Right of Way

Office (317) 291-9460 x1233
Cell: 317-473-7441

AGuyer@marathonpetroleum.com

Facility Map Requests to Dennis & Austin

Aron Velasquez
Office (419) 421-3704

AdVelasquez@marathonpetroleum.com

22. Mid - Valley Pipeline Company
4910 Limaburg Road
Burlington, KY 41005

Richard (Todd) Calfee
Office (859) 371-4469 x14
Cell (859) 630-8271
Fax (866) 699-1185
Todd.Calfee@energytransfer.com

Justin White
Office (859) 371-4469
Cell (859) 630-1823
Justin.White@energytransfer.com

Bobby Scott
(859) 512-3877

23. Nolin Rural Electric Cooperative Corp.
411 Ring Road

Donnie Probst
(270) 765-6153

UTILITIES AND RAIL CERTIFICATION NOTE

BULLITT COUNTY
FD04 015 006 5 117-118
SOUND BARRIERS ON EAST SIDE OF I-65
KYTC ITEM NO.: 05-8856.00

Elizabethtown, KY 42701

Contact not in KURTS

24. Pioneer Village Sewer Plant
4846 Brownsboro Center Arcade
Louisville, KY 40242

Joe Sanders
Cell (502) 609-2114
NO EMAIL
Jim Walser, Owner
(502) 895-4273

Contact not in KURTS

25. Salt River Rural Electric Coop. Corp.
111 W. Brashear Ave.
Bardstown, KY 40004
(Telephone in Bullitt County)

Daniel Carrico
DCarrico@srelectric.com
(502) 350-1606

26. Verizon
730 West Henry Street
Indianapolis, IN 46225

Verizon
Ops
2421 Holloway Road
Louisville, KY 40299

Dean Boyers
Office (615) 777-7855
Cell (615) 507-5287
Dean.Boyers@verizon.com
Jeffrey Tucker, Engr III Spec-Ntwk Eng &
Office (502) 830-1827
Cell (502) 593-5585
Jeffrey.Tucker@verizon.com
Ronnie Kuerzi, Ntwk Eng & Ops
Cell (502) 780-2748
Ronald.Kuerzi@verizon.com

27. White Cloud Communications
4890 Knobb Creek Road
Brooks, KY 40109

TJ Scott
Office (855) 552-2253
Cell (502) 215-4111
TScott@wcloudus.com

28. Windstream
111 S. Main Street
Elizabethtown, KY 42701

James Galvin
Office (270) 765-1818
Cell (270) 748-9249
James.Galvin@windstream.com

Windstream

Steve Johnson, Sr Engineer OSP

UTILITIES AND RAIL CERTIFICATION NOTE

BULLITT COUNTY
FD04 015 006 5 117-118
SOUND BARRIERS ON EAST SIDE OF I-65
KYTC ITEM NO.: 05-8856.00

Steve Johnson, Sr Engineer OSP
130 W New Circle Road, Suite 170
Lexington, KY 40505

Office (859) 357-6209
Cell (859) 321-2035
Steve.Johnson@windstream.com

KYTC BMP Plan for Project CID 05 - 8856



Kentucky Transportation Cabinet

Highway District 5

And

_____ **(2), Construction**

Kentucky Pollutant Discharge Elimination System

Permit KYR10

Best Management Practices (BMP) plan

Groundwater protection plan

For Highway Construction Activities

For

**I-65 Sound Barrier Wall on East Side (MP 117.4-
117.8)**

Project: CID 05 – 8856.00

KYTC BMP Plan for Project CID 05 - 8856

Project information

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

1. Owner – **Kentucky Transportation Cabinet, District 5**
2. Resident Engineer: (2)
3. Contractor name: (2)
Address: (2)

Phone number: (2)
Contact: (2)
Contractors agent responsible for compliance with the KPDES permit requirements (3):
4. Project Control Number (2)
5. Route (Address): **I-65 (MP 117.4-117.8)**
6. Latitude/Longitude (project mid-point): **38/00/08 N, 85/42/07 W**
7. County (project mid-point): **Bullitt**
8. Project start date (date work will begin): (2)
9. Projected completion date: (2)

KYTC BMP Plan for Project CID 05 - 8856

A. Site description:

1. Nature of Construction Activity (from letting project description): **To construct a sound barrier wall on the east side of northbound I-65 (MP 117.4 to MP 117.8)**
2. Order of major soil disturbing activities **(2) and (3)**
3. Projected volume of material to be moved **Unknown Volume. Minimal.**
4. Estimate of total project area (acres): **2.2 Acres**
5. Estimate of area to be disturbed (acres): **0.8 Acres**
6. Post construction runoff coefficient will be included in the project drainage folder. Persons needing information pertaining to the runoff coefficient will contact the resident engineer to request this information.
7. Data describing existing soil condition: **The soil is designated as CL by the USCS, and A-6 by the AASHTO classification system. Top of rock depths were at or below 5 feet consisting of course grained limestone. (2)**
8. Data describing existing discharge water quality (if any): **None (2)**
9. Receiving water name **Floyds Fork**
10. TMDLs and Pollutants of Concern in Receiving Waters: **(DEA)**
11. Site map – Project layout sheet plus the erosion control sheets in the project plans that depict Disturbed Drainage Areas (DDAs) and related information. These sheets depict the existing project conditions with areas delineated by DDA (drainage area bounded by watershed breaks and right of way limits), the storm water discharge locations (either as a point discharge or as overland flow) and the areas that drain to each discharge point. These plans define the limits of areas to be disturbed and the location of control measures. Controls will be either site specific as designated by the designer or will be annotated by the contractor and resident engineer before disturbance commences. The project layout sheet shows the surface waters and wetlands.

KYTC BMP Plan for Project CID 05 - 8856

12. Potential sources of pollutants:

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

B. Sediment and Erosion Control Measures:

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

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

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

KYTC BMP Plan for Project CID 05 - 8856

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

KYTC BMP Plan for Project CID 05 - 8856

- Finish Work (Paving, Seeding, Protect, etc.) – A final BMP Plan will result from modifications during this phase of construction. Probably changes include:
 - Removal of Silt Traps Type B from ditches and drainways if they are protected with other BMP's which are sufficient to control erosion, i.e. Erosion Control Blanket or Permanent Seeding and Protection on moderate grades.
 - Permanent Seeding and Protection
 - Placing Sod
 - Planting trees and/or shrubs where they are included in the project
- BMP's including Storm Water Management Devices such as velocity dissipation devices and Karst policy BMP's to be installed during construction to control the pollutants in storm water discharges that will occur after construction has been completed are: **Project does not include storm water BMPs or flow controls.**

C. Other Control Measures

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

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

3. Hazardous Waste

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

KYTC BMP Plan for Project CID 05 - 8856

4. Spill Prevention

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

➤ **Good Housekeeping:**

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

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

➤ **Hazardous Products:**

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

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

The following product-specific practices will be followed onsite:

➤ **Petroleum Products:**

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

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

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

➤ **Fertilizers:**

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

➤ **Paints:**

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

➤ **Concrete Truck Washout:**

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

➤ **Spill Control Practices**

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

KYTC BMP Plan for Project CID 05 - 8856

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

D. Other State and Local Plans

This BMP plan shall include any requirements specified in sediment and erosion control plans, storm water management plans or permits that have been approved by other state or local officials. Upon submittal of the NOI, other requirements for surface water protection are incorporated by reference into and are enforceable under this permit (even if they are not specifically included in this BMP plan). This provision does not apply to master or comprehensive plans, non-enforceable guidelines or technical guidance documents that are not identified in a specific plan or permit issued for the construction site by state or local officials.

E. Maintenance

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

KYTC BMP Plan for Project CID 05 - 8856

the purpose of post construction storm water management with specific guidance for any non-routine maintenance.

F. Inspections

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

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

KYTC BMP Plan for Project CID 05 - 8856

G. Non – Storm Water discharges

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

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

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

H. Groundwater Protection Plan (3)

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

- Contractors statement: (3)

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

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

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

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

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

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

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

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

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

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

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

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

KYTC BMP Plan for Project CID 05 - 8856

Sub-Contractor Certification

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

Subcontractor

Name:
Address:
Address:

Phone:

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

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

Signed _____ title _____, _____
Typed or printed name¹ signature

1. Sub Contractor Note: to be signed by a person who is the owner, a responsible corporate officer, a general partner or the proprietor or a person designated to have the authority to sign reports by such a person in accordance with 401 KAR 5:060 Section 9. This delegation shall be in writing to: Manager, KPDES Branch, Division of Water, 14 Reilly Road, Frankfort Kentucky 40601. Reference the Project Control Number (PCN) and KPDES number when one has been issued.

MEMORANDUM

S-047-2021

TO: Michael Carpenter, P.E.
Director
Division of Structural Design

FROM: Geotechnical Branch

BY: Clayton S. Cook, P.E.
Geotechnical Branch

DATE: August 6, 2021

SUBJECT: Bullitt County
Item No. 5-8856.00
FD04 1100 015 0056 117-118
MARS No. 1285801D
Sound Barriers On East Sid of I-65 Across From Conestoga Industrial Area
2520 ft. Sound Wall
Geotechnical Engineering Structure Foundation Report

cc: J. VanZee
C. VanZee
T. Lovell
T. Wright
R. Gossom
K. Sawyer
M. Bullock
W. Southworth
C. Davis
J. Hager

1.0 LOCATION AND DESCRIPTION

The geotechnical investigation for this structure has been completed. The DGN file for the subsurface data sheet has been made available on ProjectWise and through email for the use in development of structure plans.

The proposed sound wall will run along the east side of I-65 about 0.7 miles north of exit 117. This wall will be approximately 2520 feet long. The proposed wall location is from Lat: 38.002289° Long: -85.701901° to Lat: 38.008427° Long: -85.697908°.

2.0 SITE GEOLOGIC CONDITIONS

The structure is located in the Shepherdsville Quadrangle (GQ-740). The geologic mapping indicates that the bedrock at the site consists of the Beechwood Limestone Member. The Beechwood Limestone Member consists of a fine grained limestone with fossils and possible weathering.

3.0 FIELD INVESTIGATION

The drilling for this structure was performed by a KYTC drill crew. A total of two sample and core holes, seven core holes and nine soundings were drilled. Both rock core and soil samples were then delivered to the KYTC Geotechnical Branch in Frankfort, where a geologist logged the rock cores and the Branch's lab conducted testing on the samples.

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Bullitt County
Noise Wall Along I-65, Stationing 100+00 to 125+20
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4.0 SUBSURFACE CONDITIONS

The two soil samples collected at the northern most end of the wall were designated as CL by the USCS, and A-6 by the AASHTO classification system. Top of rock depths were at or below 5 feet for all but the last 200 foot of wall. Top of rock depths increased to a max of 8 feet at the end of the wall.

The bedrock along the sound wall consists of fine to coarse grained limestone with solutioning in the upper layers. The core recovered percentages were generally above the 90's. KY Rock Quality Designations (RQD) values ranged from 0 to 97 with generally increasing values with greater depth. 6 rock unconfined tests were conducted which resulted in a median rock unconfined value of 4410 psi.

5.0 ENGINEERING ANALYSIS

Drilled shafts are proposed for the noise barrier wall foundations. The shafts will be founded into bedrock. The Idealized Soil and Bedrock Profile Sheet and the Drilled Shaft Axial Tables are attached. Because of the structure type and pre-existing site conditions embankment and settlement analyses were not required.

The attached subsurface data sheets contain relevant elevations needed to both complete the design and determine plan quantities for the drilled shafts.

Drilled shafts were evaluated for axial loading and the attached tables provide the resulting capacities and resistance for the Load & Resistance Factor Design (LRFD) design method.

6.0 RECOMMENDATIONS

- 6.1 Drilled shafts with the highest recommended tip embedded a minimum of 3 feet into sound bedrock. Lower tip elevations may be necessary in order to satisfy lateral capacity or other structural requirements.
- 6.2 Perform lateral load analyses using the geotechnical parameters provided in the attached Idealized Soil and Bedrock Profile. These parameters may be used to perform analyses using LPILE Plus. Some of the parameters may not be required to be input, depending on the version of the program being used.
- 6.3 Evaluate the allowable axial capacities using the attached Drilled Shaft Axial Capacity Tables.
- 6.4 Permanent casing is not required. The contractor may elect to use temporary casing in deeper soil areas. Temporary casing may be omitted if the contractor can demonstrate the ability to maintain an open excavation without collapse of the side walls, fall back of material into the excavation, or fall back into and contamination of freshly placed concrete.
- 6.5 Require a 6-inch minimum rebar cover in the rock sockets.
- 6.6 For Load & Resistance Factor Design (LRFD), evaluate the **total factored axial resistances** using the attached Drilled Shaft Axial Capacity Table considering the

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capacity developed in the uncased rock sockets. The allowable capacities must equal or exceed the factored loads at the strength limit state. Highest allowable shaft tip elevations for shafts are indicated on the corresponding attached Drilled Shaft Axial Capacity Table. Longer uncased sockets may be required to satisfy axial or lateral load design criteria.

- 6.7** Use the elevations in the Subsurface Sheets to determine plan quantities as follows:
- Drilled Shaft - *-inch (Common) Top of Shaft to Top of Rock Socket
 - Drilled Shaft - **-inch (Solid Rock) Top of Rock Socket to Shaft Tip
 - * Insert diameter 6 inches larger than shaft diameter chosen
 - **Shaft diameter chosen
- 6.8** Minimal evidence of karst features were found in the core samples obtained during drilling. However, the project is located near mapped karst features. If solution features are encountered during construction there is a potential to encounter unsound bedrock or for concrete loss during pouring. The contractor should be prepared to address these complications. Remedies could include: extended shaft lengths, extended casing, and pouring of lean concrete and re-drilling for structural concrete after setup.
- 6.9** The top 5 feet of the soils shall be neglected for lateral support or axial resistance of the drilled shafts.
- 6.10** Noise Walls should not be subjected to differential earth loading. Reinforced panels may shift or crack and the entire wall could potentially have an overturning failure if it is subjected to earth loads. Special panel and foundation designs are required in order to safely construct a hybrid Retaining/Noise Wall. In walls constructed in newly placed fill areas it should not be assumed that construction will be phased in a manner to avoid imposing earth loads. The walls should either be designed to withstand the maximum potential earth load or construction phasing must be specified to prevent differential loading conditions. Wall design loads should be determined using Soil Type 3 of Exhibit 413 in the Division of Structural Design Guidance Manual.

7.0 PLAN NOTES

- 7.1** Permanent casing is not required. The contractor may elect to use temporary casing in deeper soil areas. Temporary casing may be omitted if the contractor can demonstrate the ability to maintain an open excavation without collapse of the side walls, fall back of material into the excavation, or fall back into and contamination of freshly placed concrete.
- 7.2** Except as permitted by special design Noise Walls shall not be subjected to differential earth loading. Temporary or permanent soil loads placed on the sound barrier walls are only permitted as noted in the sound barrier wall plans.
- 7.3** Due to variability in the rockline the potential for field adjustment in shaft lengths shall be addressed in the following manner:
Bedrock Supported Shafts:
For shafts supported in bedrock and bedrock is below the anticipated tip elevation the contractor must extend the shaft to bedrock in order to provide

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the required socket length unless the wall design consultant considers and approves the corresponding reduction in axial and lateral capacity.

- 7.4** The drilled shafts shall be constructed in accordance with the Special Note for Drilled Shafts, current edition, except that subsurface exploration borings in accordance with Section 3.5 of the Special Note is not required.

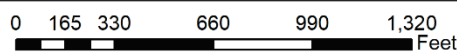
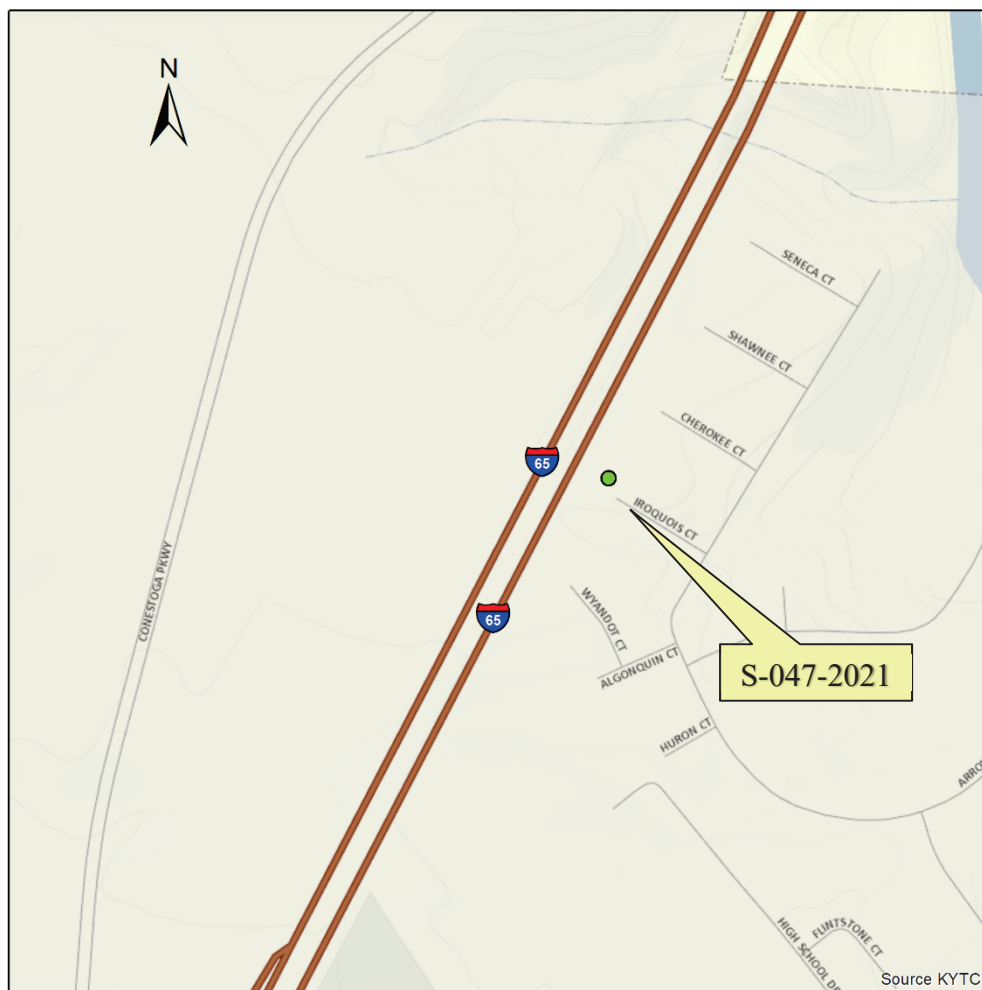
The designer should feel free to contact the Geotechnical Branch at 502-564-2374 for further recommendations or if any questions arise pertaining to this project.

Attachments:

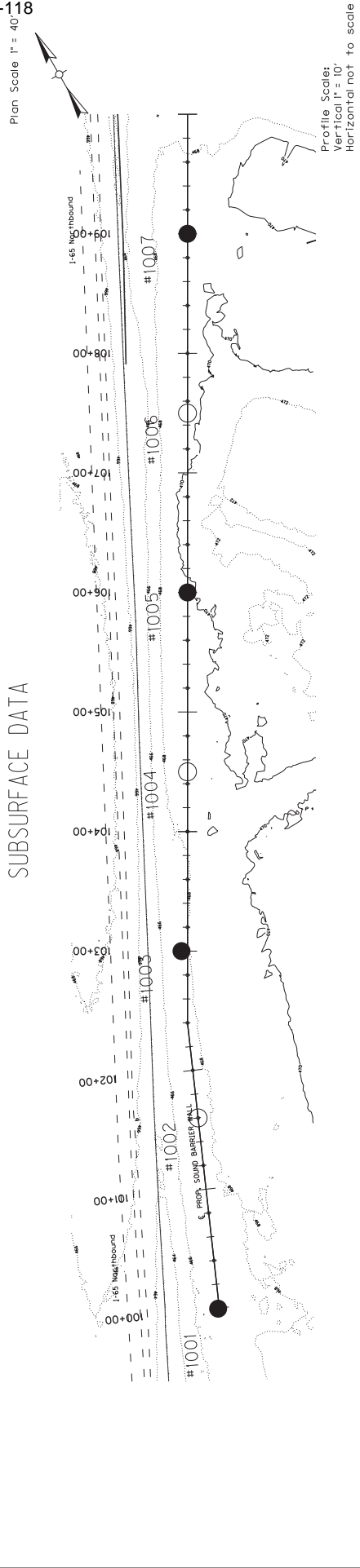
- **Project Location Map**
- **Subsurface Data Sheet**
- **S-047-2021 Idealized Soil Profile**
- **S-047-2021 Drilled Shaft Profile Capacity Tables**
- **Coordinate Data Sheet**
- **Sound Wall Profile Sheet**

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Project Location Map



SUBSURFACE DATA



Profile Scale:
Vertical 1" = 10'
Horizontal not to scale

Hole No.	Station	Offset	Elev.	(NAVD 88 datum)
1001	100+00	CL	466.2	
1002	101+50	CL	467.1	
1003	103+00	5.0' Lt.	468.0	
1004	104+50	CL	469.7	
1005	106+00.00	CL	469.76	

KYR00	REC
68	95
97	100

Limestone: gray, coarse grain, crystalline to microcrystalline, vuggy, moderate solutioning throughout, pitted.

Top of weathered rock elev. = 461.7
Base of weathered rock elev. = 461.4

KYR00	REC
17	96
50	100

Limestone: gray, fine to coarse grain, crystalline to microcrystalline, vuggy, chert nodules.
Limestone: gray to brownish gray, fine to coarse grain, solutioning, weathering, multiple vugs.

Top of Rock elev. = 463.5
No Weathered Rock

KYR00	REC
0	40
57	94

Limestone: gray, medium to coarse grain, crystalline to microcrystalline, some solutioning throughout, vuggy, few chert nodules, few shale partings, few fossils.

Top of Rock elev. = 462.2
No Weathered Rock

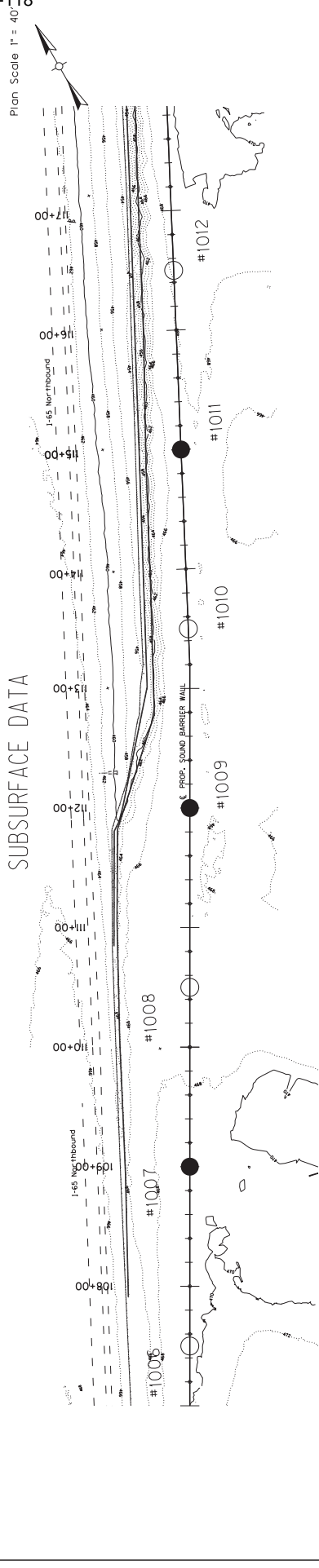
480	470	460	450	440	430	420
-----	-----	-----	-----	-----	-----	-----

<p>COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS</p>	<p>USER: SSS0168583</p>	<p>DATE PLOTTED: SSS0168583</p>	<p>DATE: _____</p>	<p>PREPARED BY: _____</p>	<p>DESIGNED BY: _____</p>	<p>CHECKED BY: _____</p>	<p>ROUTE: 1-65</p>	<p>ITEM NO.: 05-8856-00</p>	<p>COUNTY OF: BULLITT</p>
	<p>FILE NAME: SSS0168583\BSS0168583</p>	<p>REVISION: _____</p>	<p>DATE: _____</p>	<p>DESIGNED BY: G. COOK</p>	<p>REVISION: _____</p>	<p>DESIGNED BY: G. COOK</p>	<p>CHECKED BY: _____</p>	<p>ROUTE: 1-65</p>	<p>SHEET NO.: _____</p>

Division of Structural Design
Geotechnical Branch

Noise Wall Sta. 100+00 - 125+20

SUBSURFACE DATA



Profile Scale:
Vertical 1" = 10'
Horizontal not to scale

Hole No.
Station
Offset
Elev.
(NAVD 88
datum)

1006
107+50
CL
463.5

I
R
(464.4')

1007
109+00
CL
468.8

KYR00 REC
79 100
43 100

Limestone: gray, medium to coarse grain, crystalline to microporphyritic, moderate to coarse grained, moderately vuggy, few shale partings, few fossils.

Top of Rock elev. = 465.5
No Weathered Rock

1008
110+50
CL
467.3

I
R(464.6')

1009
112+00
CL
467.5

KYR00 REC
30 90
22 100

Rock DJ
LDS LJ
3740

Limestone: gray, fine to coarse grain, crystalline, moderate solutioning throughout, vuggy, chert nodules, few shale partings.

Limestone: brownish gray, fine to medium grain crystalline, few vugs, chert nodules, few shale partings.

Top of Rock elev. = 462.7
Base of weathered rock elev. = 460.4

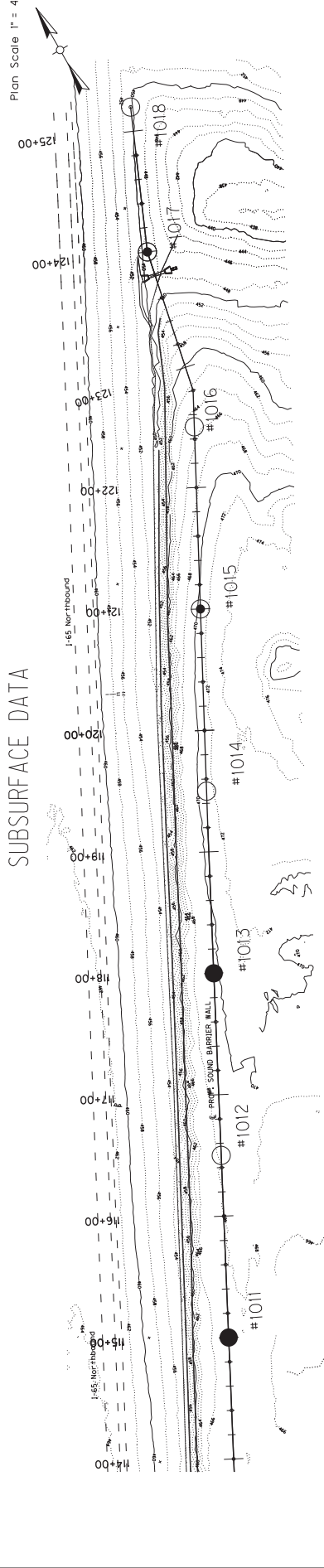
1010
113+50
CL
467.0

I
R(464.4')

<p>COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS</p>	<p>USER: SSSJENKSS</p>	<p>DATE PLOTTED: SSSJENKSS</p>	<p>DATE: _____</p>	<p>REVISION: _____</p>	<p>PREPARED BY Division of Structural Design Geotechnical Branch</p>	<p>DESIGNED BY: _____ REVIEWED BY: G. COOK</p>	<p>CHECKED BY: _____</p>	<p>ROUTE 1-65</p>	<p>ITEM NO. 05-8936-00 SHEET NO.</p>	<p>COUNTY OF BULLITT DATE 5-04-2021</p>
	<p>FILE NAME: SSSJENKSS\BSSJENKSS</p>	<p>NOISE WALL Sta. 100+00 - 125+20</p>	<p>DATE: 05-AUG-2021</p>	<p>DATE: _____</p>	<p>DATE: _____</p>	<p>NOISE WALL</p>	<p>NOISE WALL</p>	<p>NOISE WALL</p>	<p>NOISE WALL</p>	<p>NOISE WALL</p>

117-118

SUBSURFACE DATA



Profile Scale:
Vertical 1" = 10'
Horizontal not to scale

Hole No.
Station
Offset
Elev.
(NAVD 88
datum)
480

470

460

450

440

430

420

1011
115+00.00
CL
467.1

Rock_OU (Lds.)	KYR0D	REC
2890	51	97
	66	100

Limestone: brownish gray, fine to coarse grain, crystalline, solution throughout, vuggy, chert nodules, few fossils.
Limestone: light brownish gray, fine to coarse grain, crystalline, few zones of weathering, vuggy, few shale partings.

Top of Rock elev. = 464.1
Base of weathered rock elev. = 462.3

1012
116+50.00
CL
466.7

Rock_OU (Lds.)	KYR0D	REC
12690	36	92
	79	100

Limestone: gray to light brown, medium to coarse grain, crystalline, slightly weathered, moderate solution throughout, vuggy, pitted, chert nodules, few fossils.

Top of weathered rock elev. = 465.4
Base of weathered rock elev. = 465.0

1014
119+50
CL
471.5

Rock_OU (Lds.)	KYR0D	REC
5080	91	94
8670	90	100

Limestone: gray to light brown, medium to coarse grain, crystalline, slightly weathered, moderate solution throughout, vuggy, pitted, chert nodules, few fossils.

1015
121+00
CL
471.1

Rock_OU (Lds.)	KYR0D	REC
5080	91	94
8670	90	100

Limestone: brownish gray, fine to coarse grain, crystalline, vuggy, few chert nodules, few fossils, few shale partings.

Top of Rock elev. = 464.3
No Weathered Rock

1018
124+00
CL
471.1

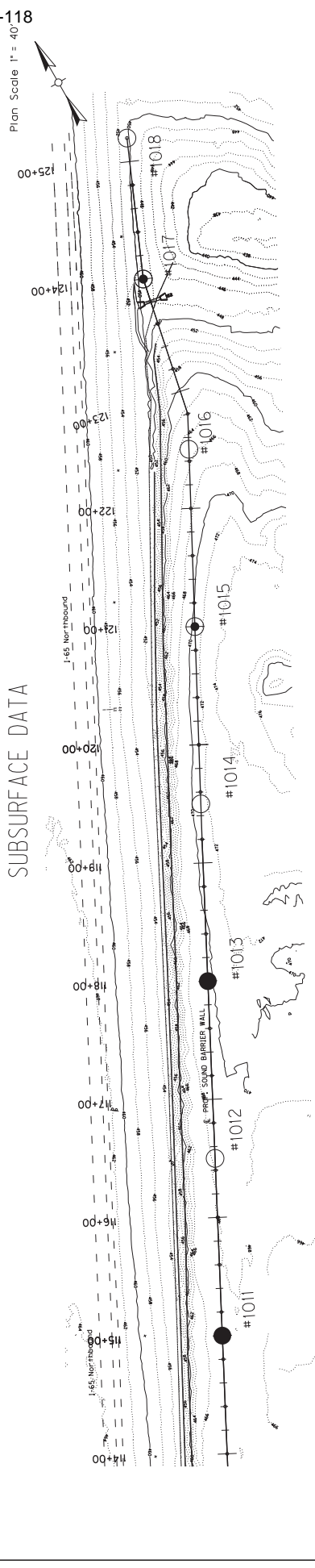
Rock_OU (Lds.)	KYR0D	REC
5080	91	94
8670	90	100

Limestone: brownish gray, fine to coarse grain, crystalline, vuggy, few chert nodules, few fossils, few shale partings.

<p>COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS</p>	<p>REVISION</p>	<p>DATE</p>	<p>PREPARED BY Division of Structural Design Geotechnical Branch</p>	<p>CHECKED BY</p>	<p>ROUTE 1-65</p>	<p>ITEM NO. 09-88956-00</p>	<p>COUNTY OF BULLITT</p>
	<p>USER: SSSDUSER88</p>	<p>DATE PLOTTED: SSSDUSER88</p>	<p>FILE NAME: SSSD66p118117Subsurface</p>	<p>DESIGNED BY: G. COOK</p>	<p>NOISE WALL STA. 100+00 - 125+20</p>	<p>SHEET NO. S-047-2021</p>	<p>DRAWN BY</p>

117-118

SUBSURFACE DATA



Hole No.
Station
Offset
Elev.
(NAVD 88
datum)

480
470
460
450
440
430
420

1016
122+50
CL
465.4

I
R
(461.5')

0.015 24 0.27
Rock (MU) K Y R O D REC
(pcf) (lb/ft³) (lb/ft³) (lb/ft³) (lb/ft³)
3270 48 100

N=6, A-6(9), CL, S+C=70(45+25)
Limestone: brownish gray to gray,
coarse to fine grain-crystal line,
some solutioning, vuggy, few shale
partings.

Top of Rock elev. = 440.5
No Weathered Rock

1017
124+00
CL
448.5

1018
125+20
CL
448.4

I
R
(445.5')

<p>COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS</p>	<p>USER: SSS5D6TSSK</p>	<p>DATE PLOTTED: SSS5D6TSSK</p>	<p>DATE: 08-AUG-2021</p>	<p>CHECKED BY: _____</p>	<p>ROUTE: 1-65</p>	<p>ITEM NO.: 09-8886-00 SHEET NO.: S-047-20/21</p>	<p>COUNTY OF: BULLITT</p>
	<p>PREPARED BY: Division of Structural Design Geotechnical Branch</p>	<p>DESIGNED BY: G. COOK</p>	<p>FILE NAME: SSS5D6TSSK</p>	<p>CONSISTING OF: Noise Wall</p>	<p>Sta. 100+00 - 125+20</p>	<p>NOISE WALL</p>	<p>DATE: 08-AUG-2021</p>

Metres: 1:10, 1:20, 1:30, 1:40, 1:50, 2:00, 2:30, 3:00, 3:30, 4:00, 4:30, 5:00, 5:30, 6:00, 6:30, 7:00, 7:30, 8:00, 8:30, 9:00, 9:30, 10:00, 10:30, 11:00, 11:30, 12:00

IDEALIZED SOIL AND BEDROCK PROFILE

Bullitt Co., Item No. 5-8856.00, S-047-2021 Noise
 Wall Along I-65, Station 100+00 to 125+20

CSC 8/04/2021

Elev. (ft.)	Strata	Parameters for Lateral Load Analyses	Top of Shaft
	Overburden - Neglect top 5 feet for lateral or axial support		
	Clay, No free Water		
		Effective Unit Weight (pcf) =	120
		cohesion (psf) =	1500
		k static (lb/in ³) =	500
		k cyclic (lb/in ³) =	200
		e50 =	0.005
*	Top of Rock		
	Limestone	Strong Rock (Vuggy Limestone)	
	Effective Unit Weight,	γ_e (lb/ft ³) =	130
	Uniaxial Compressive Strength,	q_u (psi) =	4000
*	Bottom of Shaft		
*	Elevations vary, See Subsurface Data Sheets and Minimum Socket Length		

Load and Resistance Factor Design (LRFD)

DRILLED SHAFT AXIAL RESISTANCE TABLE

Bullitt Co., Item No. 5-8856.00, S-047-2021
 Noise Wall Along I-65, Station 100+00 to 125+20

Rock Socket Diameter = 1.5 feet
 Rock Socket Diameter = 18 inches
 CSC 8/04/2021

Rock Socket Length (ft.)	Nominal Unit Side Shear q_{ss} (ksf)	Nominal Unit End Bearing q_{eb} (ksf)	Nominal Side Resistance R_{sr} (kips)	Nominal End Bearing Resistance R_{eb} (kips)	Factored Side Resistance ϕR_{sr} (kips)	Factored End Bearing Resistance ϕR_{eb} (kips)	Total Factored Axial Resistance ϕR_t (kips)	Total Factored Uplift Resistance ϕR_{tu} (kips)	
0.0									
1.0	32.5	20	153	35	77	18	94	61	
2.0	32.5	20	306	35	153	18	171	123	
>>>	32.5	20	459	35	230	18	247	184	
4.0	32.5	20	613	35	306	18	324	245	
5.0	32.5	20	766	35	383	18	401	306	
6.0	32.5	20	919	35	459	18	477	368	
7.0	32.5	20	1072	35	536	18	554	429	
8.0	32.5	20	1225	35	613	18	630	490	
9.0	32.5	20	1378	35	689	18	707	551	
10.0	32.5	20	1532	35	766	18	783	613	
11.0	32.5	20	1685	35	842	18	860	674	
12.0	32.5	20	1838	35	919	18	937	735	
13.0	32.5	20	1991	35	995	18	1013	796	
14.0	32.5	20	2144	35	1072	18	1090	858	
15.0	32.5	20	2297	35	1149	18	1166	919	
16.0	32.5	20	2450	35	1225	18	1243	980	
17.0	32.5	20	2604	35	1302	18	1319	1041	
18.0	32.5	20	2757	35	1378	18	1396	1103	
19.0	32.5	20	2910	35	1455	18	1473	1164	
20.0	32.5	20	3063	35	1532	18	1549	1225	
AASHTO Table 10.5.5.2.4-1					Resistance Factor, ϕ		0.50	0.50	0.40
>>> = Min. Socket Length							D (ft.) =	1.5	

Load and Resistance Factor Design (LRFD)

DRILLED SHAFT AXIAL RESISTANCE TABLE

Bullitt Co., Item No. 5-8856.00, S-047-2021
 Noise Wall Along I-65, Station 100+00 to 125+20

Rock Socket Diameter = 2.0 feet
 Rock Socket Diameter = 24 inches
 CSC 8/04/2021

Rock Socket Length (ft.)	Nominal Unit Side Shear q_{ss} (ksf)	Nominal Unit End Bearing q_{eb} (ksf)	Nominal Side Resistance R_{sr} (kips)	Nominal End Bearing Resistance R_{eb} (kips)	Factored Side Resistance ϕR_{sr} (kips)	Factored End Bearing Resistance ϕR_{eb} (kips)	Total Factored Axial Resistance ϕR_t (kips)	Total Factored Uplift Resistance ϕR_{tu} (kips)	
0.0									
1.0	32.5	20	204	63	102	31	134	82	
2.0	32.5	20	408	63	204	31	236	163	
>>>	32.5	20	613	63	306	31	338	245	
4.0	32.5	20	817	63	408	31	440	327	
5.0	32.5	20	1021	63	511	31	542	408	
6.0	32.5	20	1225	63	613	31	644	490	
7.0	32.5	20	1429	63	715	31	746	572	
8.0	32.5	20	1634	63	817	31	848	653	
9.0	32.5	20	1838	63	919	31	950	735	
10.0	32.5	20	2042	63	1021	31	1052	817	
11.0	32.5	20	2246	63	1123	31	1155	898	
12.0	32.5	20	2450	63	1225	31	1257	980	
13.0	32.5	20	2655	63	1327	31	1359	1062	
14.0	32.5	20	2859	63	1429	31	1461	1144	
15.0	32.5	20	3063	63	1532	31	1563	1225	
16.0	32.5	20	3267	63	1634	31	1665	1307	
17.0	32.5	20	3471	63	1736	31	1767	1389	
18.0	32.5	20	3676	63	1838	31	1869	1470	
19.0	32.5	20	3880	63	1940	31	1971	1552	
20.0	32.5	20	4084	63	2042	31	2073	1634	
AASHTO Table 10.5.5.2.4-1					Resistance Factor, ϕ		0.50	0.50	0.40
>>> = Min. Socket Length							D (ft.) =	2.0	

Load and Resistance Factor Design (LRFD)

DRILLED SHAFT AXIAL RESISTANCE TABLE

Bullitt Co., Item No. 5-8856.00, S-047-2021
 Noise Wall Along I-65, Station 100+00 to 125+20

Rock Socket Diameter = 2.5 feet
 Rock Socket Diameter = 30 inches
 CSC 8/04/2021

Rock Socket Length (ft.)	Nominal Unit Side Shear q_{ss} (ksf)	Nominal Unit End Bearing q_{eb} (ksf)	Nominal Side Resistance R_{sr} (kips)	Nominal End Bearing Resistance R_{eb} (kips)	Factored Side Resistance ϕR_{sr} (kips)	Factored End Bearing Resistance ϕR_{eb} (kips)	Total Factored Axial Resistance ϕR_t (kips)	Total Factored Uplift Resistance ϕR_{tu} (kips)	
0.0									
1.0	32.5	20	255	98	128	49	177	102	
2.0	32.5	20	511	98	255	49	304	204	
>>>	3.0	20	766	98	383	49	432	306	
4.0	32.5	20	1021	98	511	49	560	408	
5.0	32.5	20	1276	98	638	49	687	511	
6.0	32.5	20	1532	98	766	49	815	613	
7.0	32.5	20	1787	98	893	49	942	715	
8.0	32.5	20	2042	98	1021	49	1070	817	
9.0	32.5	20	2297	98	1149	49	1198	919	
10.0	32.5	20	2553	98	1276	49	1325	1021	
11.0	32.5	20	2808	98	1404	49	1453	1123	
12.0	32.5	20	3063	98	1532	49	1581	1225	
13.0	32.5	20	3318	98	1659	49	1708	1327	
14.0	32.5	20	3574	98	1787	49	1836	1429	
15.0	32.5	20	3829	98	1914	49	1963	1532	
16.0	32.5	20	4084	98	2042	49	2091	1634	
17.0	32.5	20	4339	98	2170	49	2219	1736	
18.0	32.5	20	4595	98	2297	49	2346	1838	
19.0	32.5	20	4850	98	2425	49	2474	1940	
20.0	32.5	20	5105	98	2553	49	2602	2042	
AASHTO Table 10.5.5.2.4-1					Resistance Factor, ϕ		0.50	0.50	0.40
>>> = Min. Socket Length							D (ft.) =	2.5	

Load and Resistance Factor Design (LRFD)

DRILLED SHAFT AXIAL RESISTANCE TABLE

Bullitt Co., Item No. 5-8856.00, S-047-2021
 Noise Wall Along I-65, Station 100+00 to 125+20

Rock Socket Diameter = 3.0 feet
 Rock Socket Diameter = 36 inches
 CSC 8/04/2021

Rock Socket Length (ft.)	Nominal Unit Side Shear q_{ss} (ksf)	Nominal Unit End Bearing q_{eb} (ksf)	Nominal Side Resistance R_{sr} (kips)	Nominal End Bearing Resistance R_{eb} (kips)	Factored Side Resistance ϕR_{sr} (kips)	Factored End Bearing Resistance ϕR_{eb} (kips)	Total Factored Axial Resistance ϕR_t (kips)	Total Factored Uplift Resistance ϕR_{tu} (kips)	
0.0									
1.0	32.5	20	306	141	153	71	224	123	
2.0	32.5	20	613	141	306	71	377	245	
>>> 3.0	32.5	20	919	141	459	71	530	368	
4.0	32.5	20	1225	141	613	71	683	490	
5.0	32.5	20	1532	141	766	71	836	613	
6.0	32.5	20	1838	141	919	71	990	735	
7.0	32.5	20	2144	141	1072	71	1143	858	
8.0	32.5	20	2450	141	1225	71	1296	980	
9.0	32.5	20	2757	141	1378	71	1449	1103	
10.0	32.5	20	3063	141	1532	71	1602	1225	
11.0	32.5	20	3369	141	1685	71	1755	1348	
12.0	32.5	20	3676	141	1838	71	1909	1470	
13.0	32.5	20	3982	141	1991	71	2062	1593	
14.0	32.5	20	4288	141	2144	71	2215	1715	
15.0	32.5	20	4595	141	2297	71	2368	1838	
16.0	32.5	20	4901	141	2450	71	2521	1960	
17.0	32.5	20	5207	141	2604	71	2674	2083	
18.0	32.5	20	5513	141	2757	71	2827	2205	
19.0	32.5	20	5820	141	2910	71	2981	2328	
20.0	32.5	20	6126	141	3063	71	3134	2450	
AASHTO Table 10.5.5.2.4-1					Resistance Factor, ϕ		0.50	0.50	0.40
>>> = Min. Socket Length							D (ft.) =	3.0	

**COORDINATE DATA SUBMISSION FORM
 KYTC DIVISION OF STRUCTURAL DESIGN -- GEOTECHNICAL BRANCH**

County _____ Bullitt _____ Date _____
 Road Number _____ I-65 _____
 Survey Crew / Consultant _____ District 5 _____
 Contact Person _____
 Item # _____ 5-8856.00 _____
 Mars # _____ 1285801D _____
 Project # _____ S-047-2021 _____

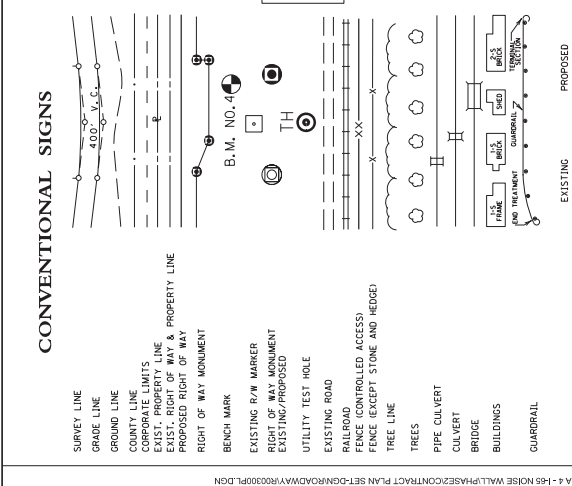
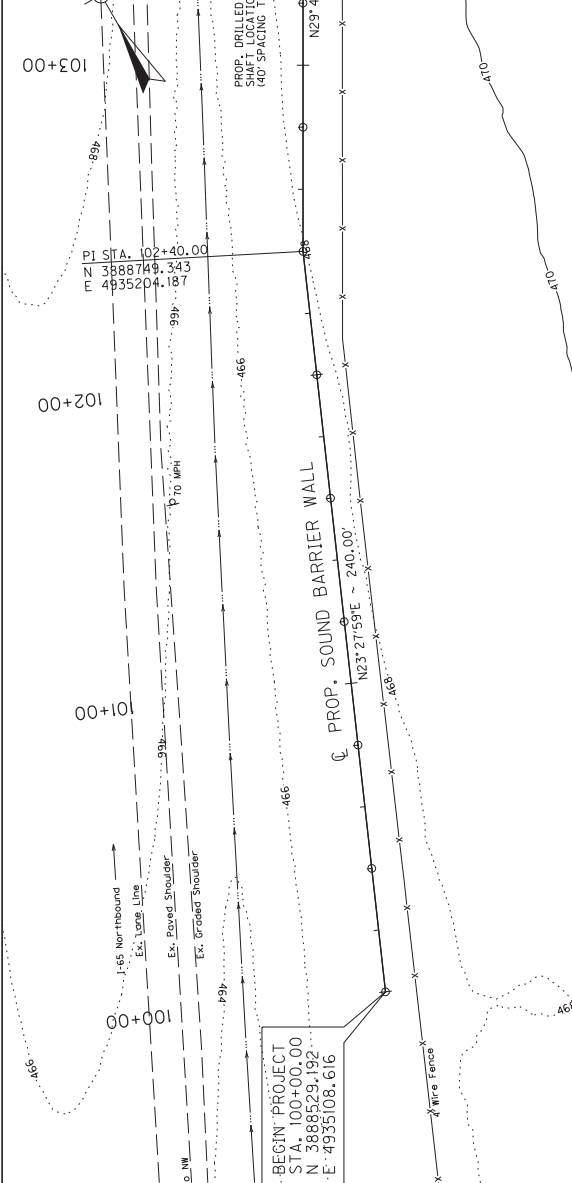
Notes:

Elevation Datum _____ (circle one)
 NAVD88

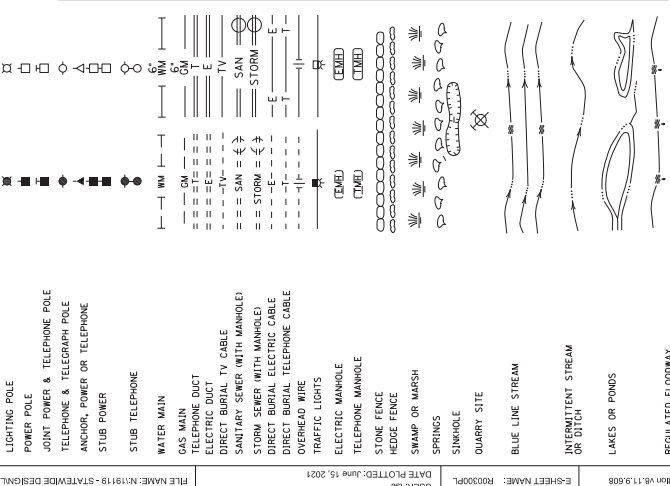
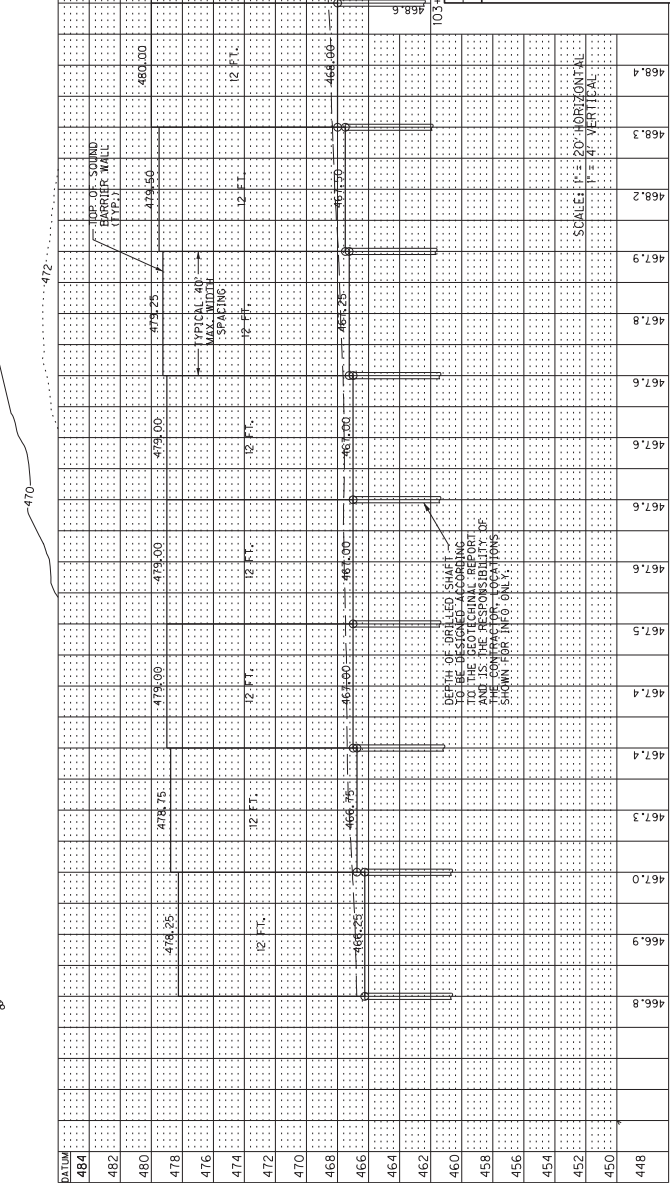
HOLE NUMBER	LATITUDE (Decimal Degrees)	LONGITUDE (Decimal Degrees)	HOLE NUMBER	STATION	OFFSET	ELEVATION (ft)
S-047-2021						
1001	38.002289	-85.701901	1001	100+00	CL	466.2
1002	38.002667	-85.701694	1002	101+50	CL	467.1
1003	38.003036	-85.701465	1003	103+00	5 ft. Lt.	468.0
1004	38.003394	-85.701206	1004	104+50	CL	468.7
1005	38.003751	-85.700947	1005	106+00	CL	469.8
1006	38.004108	-85.700688	1006	107+50	CL	469.5
1007	38.004466	-85.700429	1007	109+00	CL	468.8
1008	38.004823	-85.700170	1008	110+50	CL	467.2
1009	38.005180	-85.699911	1009	112+00	CL	467.5
1010	38.005539	-85.699655	1010	113+50	CL	467.0
1011	38.005904	-85.699415	1011	115+00	CL	467.1
1012	38.006270	-85.699174	1012	116+50	CL	468.7
1013	38.006635	-85.698934	1013	118+00	CL	469.7
1014	38.007000	-85.698693	1014	119+50	CL	471.5
1015	38.007364	-85.698449	1015	121+00	CL	471.1
1016	38.007728	-85.698205	1016	122+50	CL	465.4
1017	38.008124	-85.698073	1017	124+00	CL	448.5
1018	38.008427	-85.697908	1018	125+20	CL	449.4

COUNTY OF	BULLITT
ITEM NO.	05-5956.00
SHEET NO.	R3

1:65 Northbound
Ex. Lane Line
1:65 Southbound
Ex. Lane Line
99' Ex. Paved Shoulder
99' Ex. Graded Shoulder



DATUM	484	482	480	478	476	474	472	470	468	466	464	462
103+20	103+40	103+60	103+80	104+00	104+20	104+40	104+60	104+80	104+00	104+20	104+40	104+60
468.6	468.7	468.6	468.5	468.4	468.3	468.2	468.1	468.0	467.9	467.8	467.7	467.6

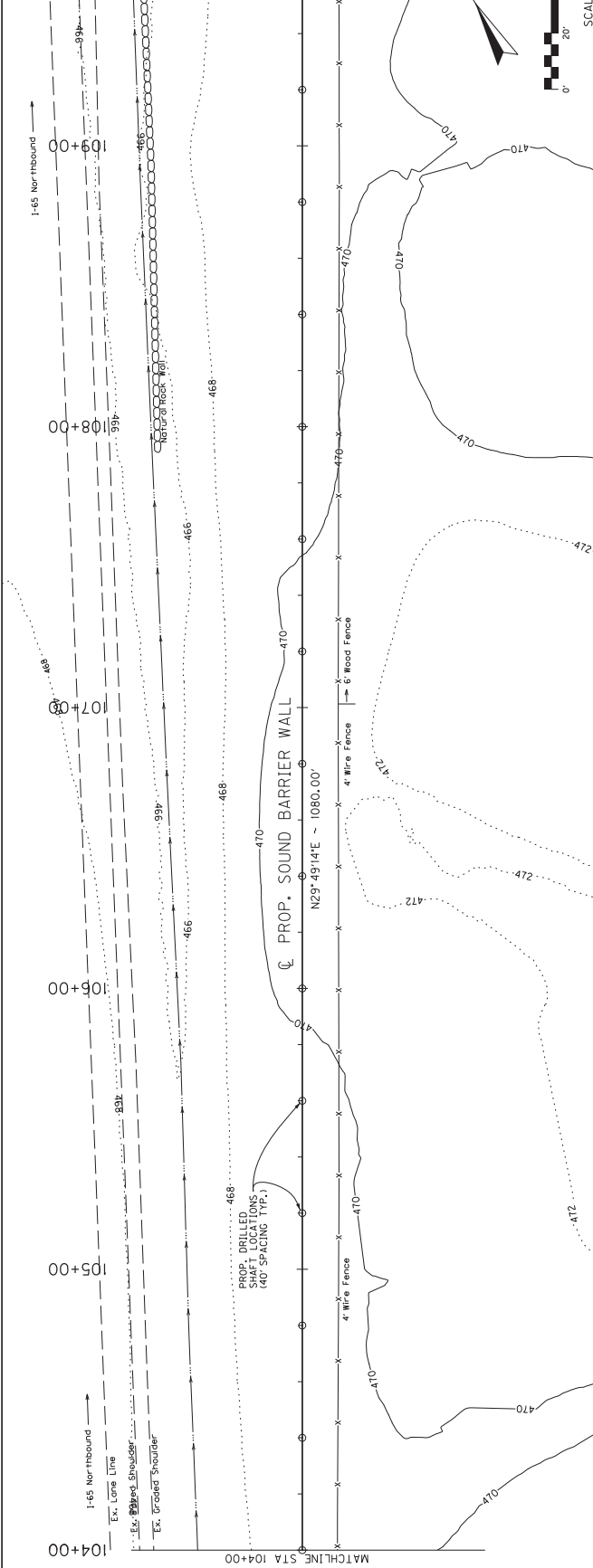


Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF
BULLITT

PROJECT: ED04 015-0065-117-118
NUMBERS:
1-65 (NB) NOISE WALL M.P. 117.4-117.8
PLAN AND PROFILE SHEET
STA. 100+00 TO 104+00

DESIGNED BY: B. TSE
DATE SUBMITTED: 6/16/2021

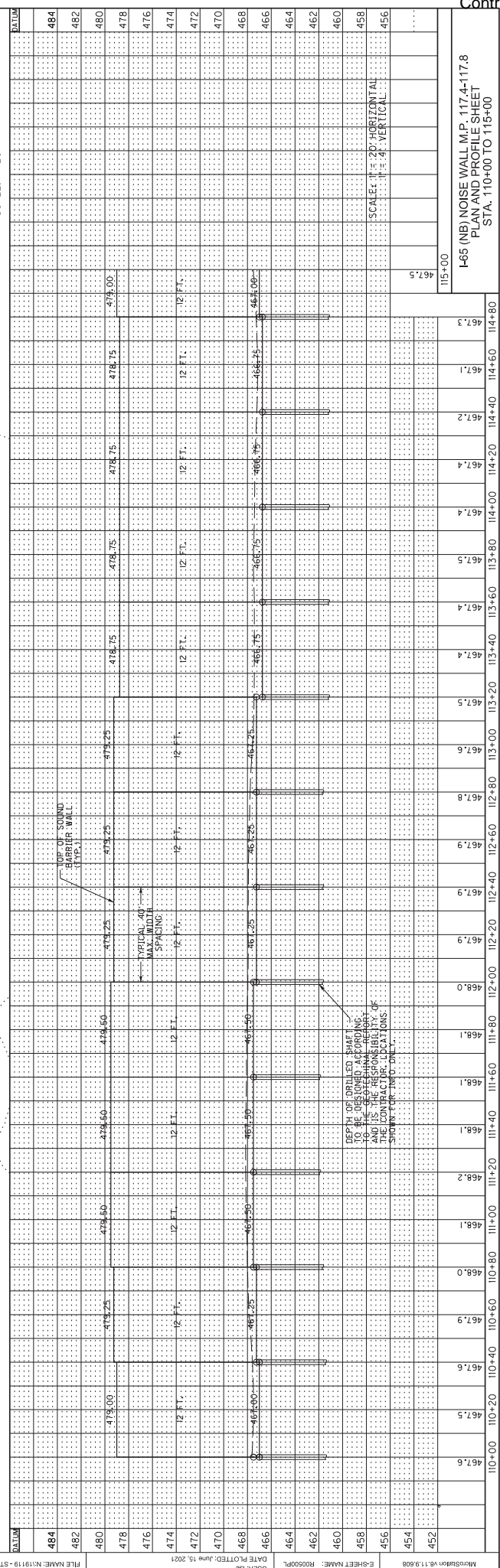
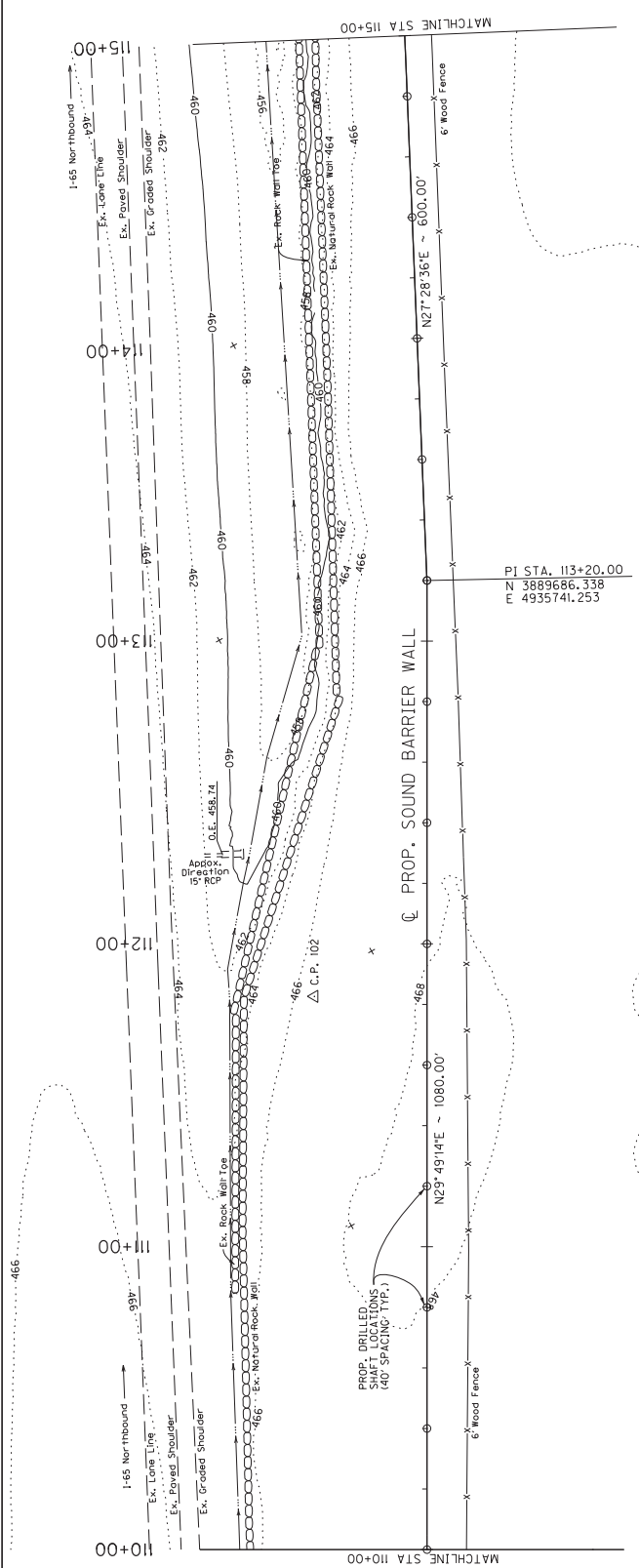
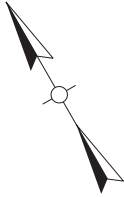
COUNTY OF
BULLITT
ITEM NO.
05-5956.00
SHEET NO.
84



ELEVATION	104+00	104+20	104+40	104+60	104+80	105+00	105+20	105+40	105+60	105+80	106+00	106+20	106+40	106+60	106+80	107+00	107+20	107+40	107+60	107+80	108+00	108+20	108+40	108+60	108+80	109+00	
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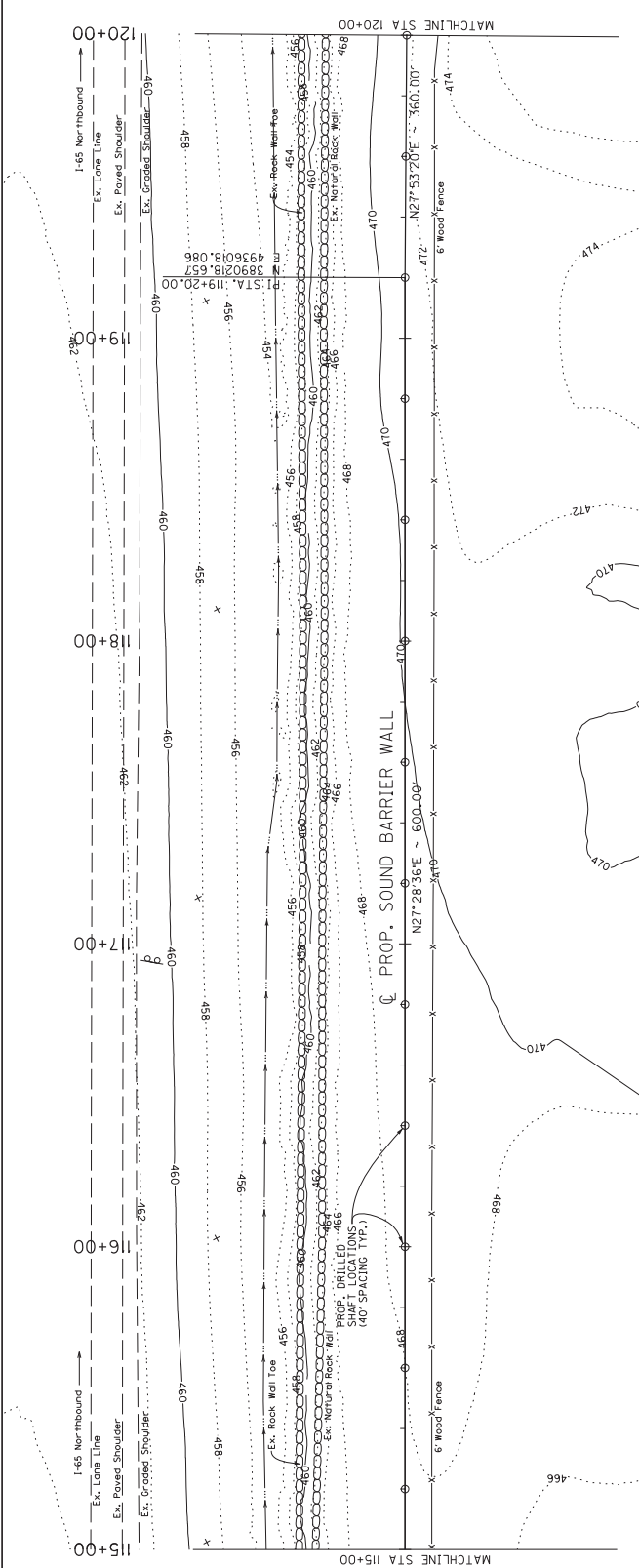
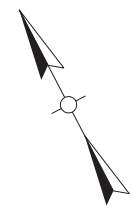
USDR: hsr
DATE PLOTTED: Jun 15, 2021
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Mission: v8.11.5.608
I-65 (NB) NOISE WALL M.P. 117.4-117.8
PLAN AND PROFILE SHEET
STA. 104+00 TO 110+00

COUNTY OF BULLITT	ITEM NO. 05-5956.00	SHEET NO. RS
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I-65 (NB) NOISE WALL M.P. 117.4-117.8
PLAN AND PROFILE SHEET
STA. 110+00 TO 115+00

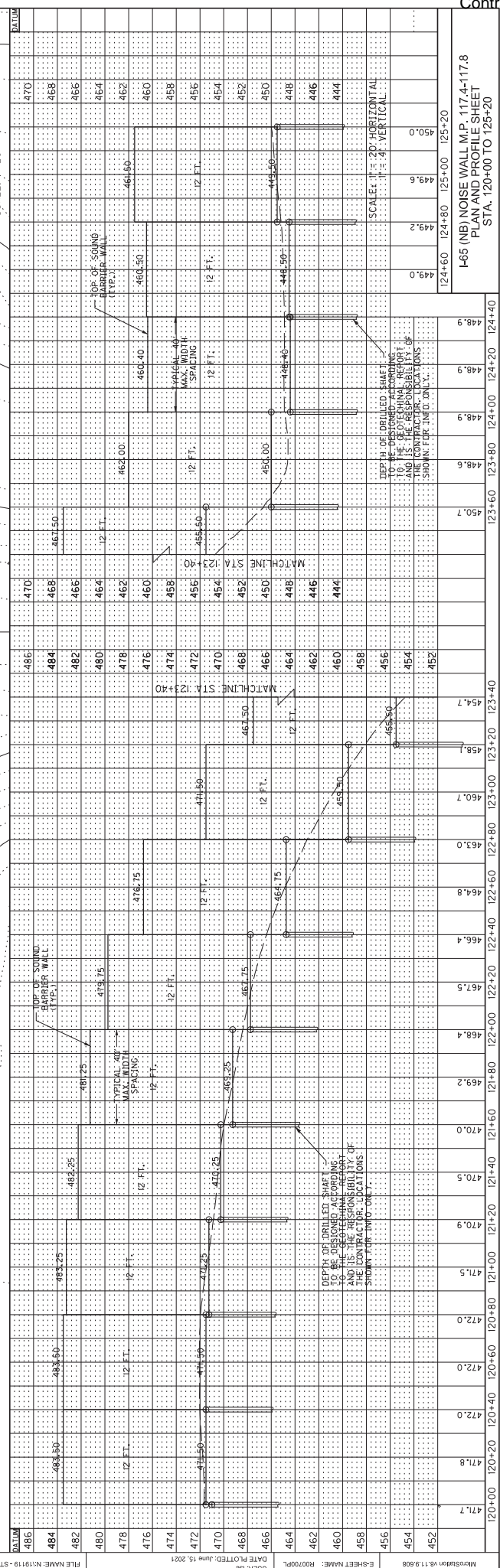
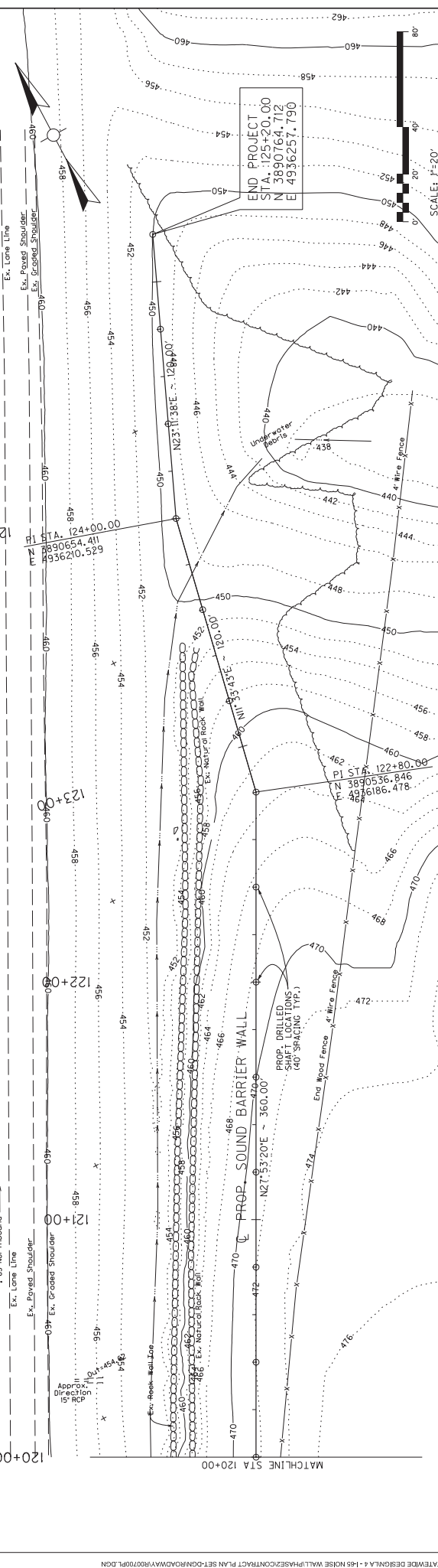
COUNTY OF	ITEM NO.	SHEET NO.
BULLITT	05-5956.00	R6



STATION	ELEVATION	DEPTH OF DRILLED SHAFT TO BE DESIGNED ACCORDING TO THE SPECIFICATIONS AND THE SLO BEHIND BUT NOT THE CONCRETE CALCULATIONS SHOWN FOR INFO ONLY.
115+00	467.5	
115+20	467.9	
115+40	468.0	
115+60	468.2	
115+80	468.3	
116+00	468.4	
116+20	468.6	
116+40	468.8	
116+60	468.9	
117+00	469.2	
117+20	469.4	
117+40	469.6	
117+60	469.8	
117+80	470.0	
118+00	470.2	
118+20	470.2	
118+40	470.3	
118+60	470.6	
118+80	470.9	
119+00	471.0	
119+20	471.2	
119+40	471.6	
119+60	471.8	
119+80	471.8	
120+00	471.7	

USFR 568 DATE PLOTTED: June 15, 2021
 E-SHEET NAME: R0600P.L
 E-SHEET NAME: R0600P.L
 Mission v8.11.6.008
 FILE NAME: N:\19119 - STWIDE DESIGNS & I-65 NOISE WALL PHASE 2 CONTRACT PLAN SET\CDM\ROADWAY\19119R0600P.L.DGN
 I-65 (NB) NOISE WALL M.P. 117.4-117.8
 PLAN AND PROFILE SHEET
 STA. 115+00 TO 120+00

COUNTY OF	ITEM NO.
BULLITT	05-5956.00
SHEET NO.	RY
	117-118



USFR 588 DATE PLOTTED: JUN 15, 2021 FILE NAME: N:\19119 - STATEWIDE DESIGN\4 - I-65 NOISE WALL\PHASE2\CONTRACT PLAN SET\DWG\ROAD\MW\117R0709P.DWG

I-65 (NB) NOISE WALL M.P. 117.4-117.8
PLAN AND PROFILE SHEET
STA. 120+00 TO 125+20

DEPTH OF DRILLED SHAF T TO THE GEOTECHNICAL REPORT AND IS THE RESPONSIBILITY OF THE CONTRACTOR. LOCATIONS SHOWN FOR INFO ONLY.

DEPTH OF DRILLED SHAF T TO BE DESIGNED ACCORDING TO THE GEOTECHNICAL REPORT AND IS THE RESPONSIBILITY OF THE CONTRACTOR. LOCATIONS SHOWN FOR INFO ONLY.

SCALE: H = 20' HORIZONTAL
SCALE: V = 4' VERTICAL

PART II
SPECIFICATIONS AND STANDARD DRAWINGS

SPECIFICATIONS REFERENCE

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

SUPPLEMENTAL SPECIFICATIONS

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

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

SPECIAL NOTE FOR PORTABLE CHANGEABLE MESSAGE SIGNS

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

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

2.0 MATERIALS.

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

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

2.2 Sign and Controls. All signs must:

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

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

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

*Insert numerals as directed by the Engineer.
Add other messages during the project when required by the Engineer.

2.3 Power.

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

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

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

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

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

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

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

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

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

Effective June 15, 2012

PART III

EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

**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)

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.

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

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

Revised: January 25, 2017

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 (forty and above); or limit, segregate, or classify his employees in any way which would deprive or tend to deprive an individual of employment opportunities or otherwise adversely affect his status as an employee, because of such individual's race, color, religion, national origin, sex, disability or age forty (40) and over. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

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

EXECUTIVE BRANCH CODE OF ETHICS

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

KRS 11A.040 (7) provides:

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

KRS 11A.040 (9) states:

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

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

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

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

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

In case of doubt, the law permits you to request an advisory opinion from the Executive Branch Ethics Commission, 1025 Capital Center Drive, Suite 104, Frankfort, Kentucky 40601; telephone (502) 564-7954.

Revised: May 23, 2022

Kentucky Equal Employment Opportunity Act of 1978

The requirements of the Kentucky Equal Employment Opportunity Act of 1978 (KRS 45.560-45.640) shall apply to this Contract. The apparent low Bidder will be required to submit EEO forms to the Division of Construction Procurement, which will then forward to the Finance and Administration Cabinet for review and approval. No award will become effective until all forms are submitted and EEO/CC has certified compliance. The required EEO forms are as follows:

- EEO-1: Employer Information Report
- Affidavit of Intent to Comply
- Employee Data Sheet
- Subcontractor Report

These forms are available on the Finance and Administration's web page under ***Vendor Information, Standard Attachments and General Terms*** at the following address:
<https://www.eProcurement.ky.gov>.

Bidders currently certified as being in compliance by the Finance and Administration Cabinet may submit a copy of their approval letter in lieu of the referenced EEO forms.

For questions or assistance please contact the Finance and Administration Cabinet by email at **finance.contractcompliance@ky.gov** or by phone at 502-564-2874.

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 1½ times your regular rate of pay for all hours worked over 40 in a workweek.

CHILD LABOR 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:

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.

For additional information:



1-866-4-USWAGE

(1-866-487-9243) TTY: 1-877-889-5627



WWW.WAGEHOUR.DOL.GOV

PART IV
INSURANCE

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

PART V
BID ITEMS

PROPOSAL BID ITEMS

221001

Page 1 of 1

Report Date 5/25/22

Section: 0001 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	02562		TEMPORARY SIGNS	72.00	SQFT		\$	
0020	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0030	02671		PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH		\$	
0040	02701		TEMP SILT FENCE	1,180.00	LF		\$	
0050	02704		SILT TRAP TYPE B	5.00	EACH		\$	
0060	02707		CLEAN SILT TRAP TYPE B	10.00	EACH		\$	
0070	02726		STAKING	1.00	LS		\$	
0080	05952		TEMP MULCH	13,944.00	SQYD		\$	
0090	05953		TEMP SEEDING AND PROTECTION	10,406.00	SQYD		\$	
0100	05963		INITIAL FERTILIZER	1.00	TON		\$	
0110	05964		MAINTENANCE FERTILIZER	1.00	TON		\$	
0120	05989		SPECIAL SEEDING CROWN VETCH	221.00	SQYD		\$	
0130	08003		FOUNDATION PREPARATION	1.00	LS		\$	
0140	20257NC		SITE PREPARATION	1.00	LS		\$	
0150	21590EN		SOUND BARRIER WALL	28,320.00	SQFT		\$	

Section: 0002 - DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0160	02569		DEMOBILIZATION	1.00	LS		\$	