



CALL NO. 318

CONTRACT ID. 242983

WARREN COUNTY

FED/STATE PROJECT NUMBER FE02 114 3145 B00108N 01.88

DESCRIPTION TRANSPARK WAY (KY 3145)

WORK TYPE BRIDGE REPAIRS

PRIMARY COMPLETION DATE 11/15/2024

LETTING DATE: March 21,2024

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN DAYLIGHT TIME March 21,2024. Bids will be publicly announced at 10:00 AM EASTERN DAYLIGHT TIME.

NO PLANS ASSOCIATED WITH THIS PROJECT.

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

TABLE OF CONTENTS

PART I	SCOPE OF WORK <ul style="list-style-type: none">PROJECT(S), COMPLETION DATE(S), & LIQUIDATED DAMAGESCONTRACT NOTESSTATE CONTRACT NOTESSPECIAL NOTE(S) APPLICABLE TO PROJECTBRIDGE DEMOLITION, RENOVATION AND ASBESTOS ABATEMENTASBESTOS ABATEMENT REPORTBRIDGE DRAWINGS
PART II	SPECIFICATIONS AND STANDARD DRAWINGS <ul style="list-style-type: none">STANDARD AND SUPPLEMENTAL SPECIFICATIONS
PART III	EMPLOYMENT, WAGE AND RECORD REQUIREMENTS <ul style="list-style-type: none">LABOR AND WAGE REQUIREMENTSEXECUTIVE BRANCH CODE OF ETHICSKENTUCKY EQUAL EMPLOYMENT OPPORTUNITY ACT OF 1978 LOCALITY / STATEPROJECT WAGE RATES / STATE FUNDED
PART IV	INSURANCE
PART V	BID ITEMS

PART I
SCOPE OF WORK

ADMINISTRATIVE DISTRICT - 03

CONTRACT ID - 242983

FE02 114 3145 B00108N 01.88

COUNTY - WARREN

PCN - MB11431452401

FE02 114 3145 B00108N 01.88

TRANSPARK WAY (KY 3145) BRIDGE 114B00108N OVER COMMONWEALTH BLVD. AT MP 01.88BRIDGE REPAIRS
GEOGRAPHIC COORDINATES LATITUDE 37:02:09.00 LONGITUDE 86:18:42.00
ADT

COMPLETION DATE(S):

COMPLETED BY 11/15/2024 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 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/construction-procurement). 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.

BOYCOTT PROVISIONS

If applicable, the contractor represents that, pursuant to [KRS 45A.607](#), they are not currently engaged in, and will not for the duration of the contract engage in, the boycott of a person or an entity based in or doing business with a jurisdiction with which Kentucky can enjoy open trade. **Note:** The term Boycott does not include actions taken for bona fide business or economic reasons, or actions specifically required by federal or state law.

If applicable, the contractor verifies that, pursuant to KRS 41.480, they do not engage in, and will not for the duration of the contract engage in, in energy company boycotts as defined by KRS 41.472.

LOBBYING PROHIBITIONS

The contractor represents that they, and any subcontractor performing work under the contract, have not violated the agency restrictions contained in [KRS 11A.236](#) during the previous ten (10) years, and pledges to abide by the restrictions set forth in such statute for the duration of the contract awarded.

The contractor further represents that, pursuant to [KRS 45A.328](#), they have not procured an original, subsequent, or similar contract while employing an executive agency lobbyist who was convicted of a crime related to the original, subsequent, or similar contract within five (5) years of the conviction of the lobbyist.

Revised: 2/29/2024

1.0 BUY AMERICA REQUIREMENT.

Follow the “Buy America” provisions as required by 23 U.S.C. § 313 and 23 C.F.R. § 635.410. Except as expressly provided herein all manufacturing processes of steel or iron materials including but not limited to structural steel, guardrail materials, corrugated steel, culvert pipe, structural plate, prestressing strands, and steel reinforcing bars shall occur in the United States of America, including the application of:

- Coating,
- Galvanizing,
- Painting, and
- Other coating that protects or enhances the value of steel or iron products.

The following are exempt, unless processed or refined to include substantial amounts of steel or iron material, and may be used regardless of source in the domestic manufacturing process for steel or iron material:

- Pig iron,
- Processed, pelletized, and reduced iron ore material, or
- Processed alloys.

The Contractor shall submit a certification stating that all manufacturing processes involved with the production of steel or iron materials occurred in the United States.

Produce, mill, fabricate, and manufacture in the United States of America all aluminum components of bridges, tunnels, and large sign support systems, for which either shop fabrication, shop inspection, or certified mill test reports are required as the basis of acceptance by the Department.

Use foreign materials only under the following conditions:

- 1) When the materials are not permanently incorporated into the project; or
- 2) When the delivered cost of such materials used does not exceed 0.1 percent of the total Contract amount or \$2,500.00, whichever is greater.

The Contractor shall submit to the Engineer the origin and value of any foreign material used.

2.0 – BUILD AMERICA, BUY AMERICA (BABA)

Contractor shall comply with the Federal Highway Administration (FHWA) Buy America Requirement in 23 C.F.R. § 635.410 and all relevant provisions of the Build America, Buy America Act (BABA), contained within the Infrastructure Investment and Jobs Act, Pub. L. No. 117-58, §§ 70901-52 enacted November 15, 2021. The BABA requires iron, steel, manufactured products, and construction materials used in infrastructure projects funded by federal financial assistance to be produced in the United States. Comply with 2 C.F.R § 184.

BABA permits FHWA participation in the Contract only if domestic steel and iron will be used on the Project. To be considered domestic, all steel and iron used, and all products manufactured from steel and iron must be produced in the United States and all manufacturing processes, including application of a coating, for these materials must occur in the United States. Coating includes all processes that protect or enhance the value of the material to which the coating is applied. This requirement does not preclude a minimal use of foreign steel and iron materials, provided the cost of such materials does not exceed 0.1% of the total contract amount under the Contract or \$2,500.00 whichever is greater.

BABA permits FHWA participation in the Contract only if all “construction materials” as defined in the Act are made in the United States. The Buy America preference applies to the following construction materials

SPECIAL NOTE – BUY AMERICA REQUIREMENTS AND BUILD
AMERICA, BUY AMERICA (BABA) ACT

10/26/2023

incorporated into infrastructure projects: non-ferrous metals; plastic and polymer-based products (including polyvinylchloride, composite building materials, and polymers used in fiber optic cables); glass (including optic glass); Fiber optic cable; optical fiber; lumber; engineered wood; and drywall. Contractor will be required to use construction materials produced in the United States on this Project. The Contractor shall submit a certification stating that all construction materials are certified to be BABA compliant.

Finally, BABA permits the continuation of FHWA's current general applicability waivers for manufactured products, raw materials, and ferryboat parts, but these waivers are subject to reevaluation, specifically the general applicability waiver for manufactured products.

The Contractor has completed and submitted, or shall complete and submit, to the Cabinet a Buy America/Build America, Buy America Certificate prior to the Cabinet issuing the notice to proceed, in the format below. After submittal, the Contractor is bound by its original certification.

A false certification is a criminal act in violation of 18 U.S.C. § 1001. The Contractor has the burden of proof to establish that it is in compliance.

At the Contractor's request, the Cabinet may, but is not obligated to, seek a waiver of Buy America requirements if grounds for the waiver exist under 23 C.F.R. § 635.410(c) or will comply with the applicable Buy America requirements if a waiver of those requirements is not available or not pursued by the Cabinet.

Please refer to the Federal Highway Administration's Buy America webpage for more information.

[Buy America - Construction Program Guide - Contract Administration - Construction - Federal Highway Administration \(dot.gov\)](#)

October 26, 2023 Letting

BUY AMERICA / BUILD AMERICA, BUY AMERICA (ACT) MATERIALS CERTIFICATE OF COMPLIANCE

The Contractor hereby certifies that it will comply with all relevant provisions of the Build America, Buy America Act, contained within the Infrastructure Investment and Jobs Act, Pub. L. NO. 117-58, §§ 70901-52, the requirements of 23 U.S.C. § 313, 23 C.F.R. § 635.410 and 2 C.F.R § 184.

Date Submitted:_____

Contractor:_____

Signature:_____

Printed Name:_____

Title:_____

NOTE: THIS CERTIFICATION IS IN ADDITION TO ANY AND ALL REQUIREMENTS OUTLINED IN THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND/OR SPECIAL NOTES CONTAINED IN THE PROJECT PROPOSAL.

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

**SPECIAL NOTES
DISTRICT NO. 3
BRIDGE REPAIRS
WARREN COUNTY
CID 242983**

FE02 114 0806 B00108N 01.88

Warren County ~ KY 3145 (Transpark Way) over Commonwealth Blvd.

Geographic Coordinates

Latitude ~ 37° 02' 08.00" (37.0357)

Longitude ~ -86° 18' 42.00" (-86.3114)

Description

148' Single Span PCIB, Drawing No. 26928

SPECIAL NOTES FOR BRIDGE REPAIRS

SPECIALNOTE FOR TRAFFIC CONTROL ON BRIDGE REPAIR PRODUCTS

SPECIAL NOTE FOR CONCRETE SEALING

GENERAL NOTES

Warren 114B00108N

SPECIFICATIONS

All references to the Standard Specifications are to the current edition of the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction with current supplemental specifications. All references to the AASHTO Specifications are to the current edition of the AASHTO LRFD Bridge Design Specifications, with interims.

STANDARD DRAWINGS

Standard Drawings are not attached to these Plans. A Standard Drawing book may be obtained from the KYTC Policy Support Branch of the Department of Administrative Services in Frankfort, KY at (502) 564-3670. See other appropriate KYTC Standard Drawings where applicable.

MATERIAL DESIGN SPECIFICATIONS

Class AA Concrete $F'_c = 4000$ PSI

For Prestressed Concrete Girders As shown on PCIB Detail Sheet

Steel Reinforcement $F_y = 60,000$ PSI

EXISTING PLANS

A copy of available original bridge construction contract plans will be made available to the successful bidder upon written request. The completeness of these drawings is not guaranteed and no responsibility is assumed for their accuracy. Original bridge construction contract plan set is DN#26928.

DETAILS AND DIMENSIONS

Dimensions shown on these plans are taken from the original construction contract plans and do not necessarily reflect revisions made during construction or repairs previously installed. The Contractor shall verify elevations and dimensions, including thickness of parts and fastener size/spacing, with field measurements prior to ordering materials or fabricating steelwork. All plan dimensions are for a normal temperature of 60°F.

REINFORCEMENT

Dimensions shown from the face of concrete to bars are to center of bars unless otherwise shown. Spacing of bars is from center to center of bars. Clear distance to face of concrete is 2" unless otherwise noted. Any reinforcing bars designated by suffix (E) in the Plans shall be epoxy coated in accordance with section 811.10 of the Standard Specifications. Any reinforcing bars designated by suffix (S) in a Bill of Reinforcement shall be considered a stirrup for purposes of bend diameters.

CONCRETE

Class "AA" concrete is to be used in the slab, barriers and in the portions of the substructure above the top of the caps. Prestressed girder concrete shall be in accordance with the Plans and Specifications. Stay-In-Place Metal Forms may be used and shall be in accordance with Section 601 of the Specifications.

BEVELED EDGES

All exposed edges shall be beveled 3/4" unless otherwise shown.

GENERAL NOTES

Warren 114B00108N

STAY-IN-PLACE METAL FORMS

Stay-In-Place Metal Forms may be used on bridge deck under the following additional conditions:

Design includes 16 psf for Stay-In-Place Form weight and allows for concrete filling the voids. Contractor shall ensure form weight (including concrete in the voids) does not exceed 16 psf average and shall fill alternating voids with Styrofoam as necessary to maintain an average form weight of 16 psf or less.

ON SITE INSPECTION

Each Contractor submitting a bid for this work shall make a thorough inspection of the bridge and the work site prior to submitting a bid and shall be thoroughly familiarized with existing conditions so that work can be expeditiously performed after a contract is awarded. A suitable method of performing the work described herein should be investigated. Submission of a bid will be considered evidence of this inspection having been made. Any claims from site conditions will not be honored by the Department.

VERIFICATION OF FIELD CONDITIONS

Plan dimensions and details relative to the existing structure are subject to nominal construction variations. Additionally, changes may have been made during construction or during previous maintenance work which may have altered the structure. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make the necessary approved adjustments prior to construction or ordering of materials. The Contractor is responsible for verifying existing adjacent slab elevations and making necessary adjustments as needed. Such variations shall not be cause for additional compensation for a change in the scope of the work; however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work. In addition, the overrun and underrun formulas may be applied to the appropriate repairs provided that the requirements of Article 104.02.02 of the Standard Specifications are satisfied.

DAMAGE TO THE STRUCTURE

The contractor is responsible for any and all damage to the structure during construction.

UTILITIES

Before beginning work, locate all existing utilities. Consider location of utilities shown on the drawings to be approximate and for informational purposes only. The Department does not warrant the locations and assumes no responsibility for the accuracy or completeness. The contractor must make their own determination. Except as shown on the Plans, work around and do not disturb existing utilities.

The Contractor shall protect all utilities, lighting, and signage attached to the structure during construction. All cost for protection shall be incidental to this contract. Any damage caused by the Contractor shall be repaired at no additional cost to the Department.

CSXT RAILROAD

Contractor shall arrange and conduct its work so that there will be no interference with CSXT operations, including train, signal, telephone and telegraphic services, or damage to CSXT's property, or to poles, wires, and other facilities of tenants on CSXT's Property or right-of-way.

GENERAL NOTES

Warren 114B00108N

Agency or its Contractor shall store materials so as to prevent trespassers from causing damage to trains, or CSXT Property. Whenever Work is likely to affect the operations or safety of trains, the method of doing such Work shall first be submitted to the CSXT Representative for approval, but such approval shall not relieve Agency or its Contractor from liability in connection with such Work.

Agency or Contractor shall maintain all ditches and drainage structures free of silt or other obstructions that may result from their operations. Agency or Contractor shall provide erosion control measures during construction and use methods that accord with applicable state standard specifications for road and bridge construction, including either (1) silt fence; (2) hay or straw barrier; (3) berm or temporary ditches; (4) sediment basin; (5) aggregate checks; and (6) channel lining. All such maintenance and repair of damages due to Agency's or Contractor's operations shall be performed at Agency's expense.

INCIDENTAL ITEMS

The Contractor is required to complete the structure in accordance with the Plans and Specifications. Material or labor not otherwise specified is to be considered incidental to the contract.

CONSTRUCTION MATERIAL DISPOSAL

All material that is required to be removed shall be disposed of off-site by the Contractor at no additional cost to KYTC.

COMPLETION OF THE STRUCTURE

The Contractor is required to complete the structures in accordance with the Plans and Specifications. Material, labor or construction operations, not otherwise specified, are to be included in the bid item most appropriate to the work involved. This may include shoring, excavations, backfilling, removal of all or parts of existing structures, incidental materials, labor or anything else required to complete the structure. After completion of all operations, the structure and site shall be left in a condition that is in accordance with Section 105.12 of the Specifications.

TEMPORARY SUPPORTS

Temporary supports or shoring will not be permitted under the beams when pouring the concrete floor slab or when taking "Top of Beam" elevations.

PAYMENT FOR PRECAST CONCRETE BEAMS

The basis of payment for the prestressed concrete beams shall be at the contract unit price per linear foot of beam, in accordance with the Specifications.

PRESTRESSING REINFORCEMENT

Uncoated seven-wire low relaxation strand for prestressed concrete shall conform to AASHTO M 203 Grade 270. If an alternate strand arrangement or strand type is preferred by the Contractor, the designer that developed the original plans shall provide the design and also revise the original plans to reflect the changes. These design and plan modifications shall be done at the Contractor's expense.

GENERAL NOTES
Warren 114B00108N

SHOP DRAWINGS

When any changes in the design plans are proposed by the Fabricator or Supplier, the Shop Drawings reflecting these changes shall be submitted to the Department through the Contractor.

SUPERSTRUCTURE SLAB

The superstructure slab shall be poured continuously from out to out before the concrete is allowed to set.

STEEL REINFORCEMENT

Steel reinforcement shall be in accordance with ASTM A615/A615M-96A, deformed for concrete reinforcement, Grade 60.

MECHANICAL REINFORCEMENT COUPLERS

Mechanical couplers are to be in accordance with Section 602 of the Specifications and are to provide a mechanical tension splice equivalent to 125% of the specified yield strength of the bar being spliced. Any adjustment to the bar lengths required for the coupler type being used shall be incidental to the unit bid price for Mechanical Reinforcement Couplers.

PROHIBITED FIELD WELDING

Except where shown in the Plans, no welding of any nature shall be performed on the load carrying members of the bridge without written consent of the Director of Structural Design and then only in the manner and at the locations designated in the authorization.

DURABLE PAVEMENT STRIPING

Durable pavement striping shall be installed according to Section 714 identical to existing markings after the deck is cured and cleaned. Any damage caused by the Contractor shall be repaired at no additional cost to the Department. The cost of durable pavement striping will be in accordance with Section 714.

BONDING CONCRETE TO PREVIOUSLY POURED CONCRETE

Bond concrete to previously poured concrete, where indicated on the Plans, with a two-component epoxy resin system conforming to Section 826 of the Specifications. The cost of this work, including all materials, labor, and equipment, is to be incidental to the unit price bid for Class "A" Concrete.

CONCRETE SEALER

Apply concrete sealer in accordance with the Special Note for Concrete Sealing.

FOUNDATION PREPARATION

For removal and replacement of the backfill behind the existing end bents, the required excavation, geotextile fabric Class 1, and 4" perforated pipe as shown in the plans as well as any excavation and grading needed to shape the bridge approaches to match the existing roadway template, will be paid for by the bid item for Foundation Preparation. See Special Provision 69 and the Standard Drawings regarding additional construction details as required.

GENERAL NOTES
Warren 114B00108N

Foundation excavations should be properly braced/shored to provide adequate safety to persons working in or around excavations. Bracing should be performed in accordance with applicable federal, state and local guidelines. Temporary shoring, sheeting, cofferdams, and/or dewatering methods may be required to facilitate foundation construction. It should be anticipated that groundwater will be encountered at foundation locations within the flood plain.

Temporary shoring, bracing, sheeting, cofferdams and dewatering shall be included in the Lump Sum Bid for Foundation Preparation. Integral End Bents must be backfilled with material meeting Structural Granular Backfill specifications.

See Section 603 of the Specifications for measurement and payment of Foundation Preparation.

THRIE BEAM GUARDRAIL TRANSITION TL-3

Remove existing Steel W Beam Guardrail – S Face and curb and gutter along the excavations as needed. Install approach Thrie Beam Guardrail Transition TL-3 and curb and gutter in accordance with the plans and Standard Drawing BHS-014-c.e. Removal of existing guardrail, curb and gutter shall be considered incidental to the pay item for Thrie Beam Guardrail Transition TL-3.

MAINTAINING TRAFFIC

Traffic shall be maintained in accordance with the plans and Special Note for Traffic Control on Bridge Repair Contracts.

CONCRETE BONDING AGENTS

An epoxy bond coat conforming to Sections 511 and 826 of the Specifications shall be used on the surface of any concrete joint specified as “bonded” in these plans. The cost of this work, including all labor, tools, and materials, is to be incidental to the unit bid price for the class of concrete being bonded.

DECK PHASE CONSTRUCTION JOINT SEALER

Seal all longitudinal phase construction joints in the concrete deck with an approved High Molecular Weight Methacrylate (HMWM) or epoxy sealer with a skid-resistant surface. The selected product must be approved by KYTC before use. KBP 204 P Seal, supplied by Kwik Bond Polymers, is approved for experimental use on the KY Product Evaluation List. The construction joints must be sealed in accordance with the manufacturer’s instructions a minimum of 3 inches on both sides of the joint. The construction joints must be sealed and cured before application of the silane sealer that is being applied to the rest of the deck surface. The cost of the deck construction joint sealing should be included with the bid item for Concrete Sealing.

STRUCTURE GRANULAR BACKFILL

Materials for Structure Granular Backfill shall be in accordance with Section 805 of the Specifications. The Department will make payment for the completed and accepted quantities of Item 2231, Structure Granular Backfill.

PREFORMED CORK EXPANSION JOINT MATERIAL

GENERAL NOTES

Warren 114B00108N

Preformed Cork Expansion Joint Material shall conform to subsection 807.04.02 (Type II) of the Kentucky Department of Highways Standard Specifications. Cost of preformed cork is to be included in the unit bid price for prestressed beams.

REMOVE SUPERSTRUCTURE

This pay item for "Remove Superstructure" shall consist of the removal of the superstructure (beams), and partial removal of the abutments and wingwalls as shown in the Plans. Portions of the existing abutments and wingwalls shall remain in place to be reused in the rehabilitated structure. Care shall be exercised not to damage areas of remaining concrete or reinforcing steel during concrete removal operations. Remove concrete by means of approved pneumatic hammers employing pointed and blunt chisel tools. Hydraulic hoe-ram type hammers will not be permitted. The weight of the hammer shall not be more than 35 pounds for removal within 18 inches of portions to be preserved. Outside the 18 inch limit, the Contractor may use hammers not exceeding 90 pounds upon the approval of the Engineer. Do not place pneumatic hammers in direct contact with reinforcing steel that is to be retained. Care shall be taken to not damage bond to adjacent non-exposed reinforcing steel during concrete removal processes. The perimeter of all areas where concrete is removed shall be tapered at an approximately 45° angle, except that the outer edges of all chipped areas shall be saw cut to minimum depth of 1 inch to prevent feather edging unless otherwise approved by the Engineer. After all concrete has been removed, the repair surface shall be prepared by abrasive blast cleaning. Abrasive blast cleaning shall remove all fractured surface concrete and all traces of any unsound material or contaminants such as oil, grease, dirt, slurry, or any materials which could interfere with the bond of freshly placed concrete. The Contractor shall dispose all removed material off state right of way in an approved site.

BEFORE YOU DIG

The Contractor shall be responsible for all requirements and conformation with the Underground Facility Damage Prevention Act of 1994. The Contractor will be responsible for locating any utilities on this project. All underground utilities shall be located prior to construction. Any utilities disturbed or damaged as a result of the Contractor's operations will be repaired to the satisfaction of the utility owner at the Contractor's expense. The Contractor is advised to call (800) 752-6007 a minimum of two working days prior to excavation for information on the location of some, but not necessarily all underground utilities.

EXISTING STEEL REINFORCEMENT

The cost of cutting, bending, and cleaning existing steel reinforcement shall be incidental to the repair item being completed.

SPECIAL NOTE FOR TRAFFIC CONTROL ON BRIDGE REPAIR CONTRACTS

Warren 114B00108N

1.0 TRAFFIC CONTROL GENERAL. Except as provided herein, traffic shall be maintained in accordance with Section 112 of the current Standard Specifications and the current edition of the Manual of Uniform Traffic Control Devices (MUTCD). Except for the roadway and traffic control bid items listed, all items of work necessary to maintain and control traffic will be paid at the lump sum bid price to “Maintain and Control Traffic”.

Contrary to Section 106.01, traffic control devices used on this project may be new or used in new condition, at the beginning of work and maintained in like new condition until completion of the work.

2.0 TRAFFIC COORDINATOR. Furnish a Project Traffic Coordinator (PTC) as per Section 112. The PTC shall inspect the project maintenance of traffic, at least three times daily, or as directed by the Engineer, during the Contractor’s operations and at any time a lane closure is in place. The personnel shall have access on the project to a radio or telephone to be used in case of emergencies or accidents.

The PTC shall report all incidents throughout the work zone to the Engineer on the project. The Contractor shall furnish the name and telephone number where the PTC can be contacted at all times.

3.0 SIGNS. The Contractor is responsible for all signage during construction. The Contractor shall adhere to the standard drawings and manual on uniform traffic control devices (MUTCD) for guidance. If, at any time, the Engineer requests a change in the maintenance of traffic signage, the Contractor shall implement the change within 8 hours. Failure to implement these changes within the required eight hours will result in liquidated damages of \$5,000 per day.

The Department will not measure installation, maintenance, or removal for payment of standard construction signage and will consider these incidental to “Maintain and Control Traffic”.

4.0 PROTECTION OF PEDESTRIANS. Protect any excavation, obstructions, or construction work so as not to expose pedestrians to hazards. The Contractor shall provide protection for pedestrians from any overhead work. Cost of protection shall be incidental to Remove Structure.

5.0 TRAFFIC RESTRICTIONS. Lane closures must be approved by the Engineer at least two weeks prior. There are no time limitations for lane closures. Full closure of the roadway and sidewalks below the structure (Commonwealth Blvd) is allowed. Two minimum 12-foot single directional driving lanes are to be in accordance with Standard Drawing TTC-120-04. Temporary pavement markings should be placed in a manner to not damage the existing deck and pavement. Shoulder and single lane closures with any work which will require openings in the deck or barrier wall shall be in accordance with Standard Drawing TTC-120-04 and must include appropriate end treatments on the temporary concrete barrier wall.

6.0 VARIABLE MESSAGE SIGNS. Variable message signs will be installed, operated, and maintained by the Contractor. The Engineer shall determine the location and wording on the signs.

SPECIAL NOTE FOR TRAFFIC CONTROL ON BRIDGE REPAIR CONTRACTS

Warren 114B00108N

The signs should be available up to three weeks prior to beginning work and be available throughout the project.

7.0 PAYMENT. Unless listed as a bid item in the contract documents, payment will only be made for the following items:

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
02650	Maintain and Control Traffic	Lump Sum
02671	Portable Changeable Message Sign	Each

All other items needed to maintain traffic in accordance with these contract documents and the approved traffic control plan shall be considered incidental to Maintain and Control Traffic. These items include but are not limited to traffic signals, crash cushions, temporary guardrail, cones, barrels, flaggers, etc.

SPECIAL NOTE FOR CONCRETE SEALING
Warren 114B00108N

These Notes or designated portions thereof, apply where so indicated on the plans, proposals or bidding instruction.

- I. DESCRIPTION.** Perform all work in accordance with the Department's current Standard Specifications, and applicable Supplemental Specifications, the attached sketches, and these Notes. Section references are to the Standard Specifications. This work consists of:
- 1. Furnish all labor, materials, tools, equipment, and incidental items necessary to complete the work.
 - 2. Provide safe access to the bridge, in accordance with Section 107.01.01, for the Engineer to sound possible repair areas and for workers to complete the construction.
 - 3. Repair cracks as applicable in accordance with the Special Note for Epoxy Injection Crack Repair.
 - 4. Repair delaminated or spalled areas as applicable in accordance with the Special Note for Concrete Patching.
 - 5. Apply Ordinary Surface Finish
 - 6. Prepare the surfaces to receive sealing.
 - 7. Apply concrete sealing.
 - 8. Any other work as specified as part of this contract.

II. MATERIALS.

- A. Sealer.** Use one of the following:

Product	Supplier
Protectosil BHN	Evonik Industries
Protectosil 300S	Evonik Industries
TK-590-40 Tri-Silane 40%	TK Products
SW-244-100	Chemical Products Industries, Inc.
TK-590-1 MS Tri-Silane	TK Products
MasterProtect H1000	BASF
Aquanil Plus 40	ChemMasters
SIL-ACT ATS-100	Advanced Chemical Technologies
Certivex Penseal BTS 100%	Vexcon
Pentreat 244-40	W.R. Meadows
Aquanil Plus 40A	ChemMasters

Rev 02/2024

SPECIAL NOTE FOR CONCRETE SEALING
Warren 114B00108N

These Notes or designated portions thereof, apply where so indicated on the plans, proposals or bidding instruction.

- I. **DESCRIPTION.** Perform all work in accordance with the Department's Standard Specifications, current edition, and applicable Supplemental Specifications, the attached sketches, and these Notes. Section references are to the Standard Specifications.
This work consists of: (1) Furnish all labor, materials, tools, and equipment; (2) Clean the bridge deck; (3) Seal the bridge deck; (4) Maintain & control traffic; and, (5) Any other work specified as part of this contract.
- II. **MATERIALS.**
A. **Sealer.** Use one of the following:

Product	Supplier
Protectosil BHN	Evonik Industries
Protectosil 300S	Evonik Industries
TK-590-40 Tri-Silane 40%	TK Products
SW-244-100	Chemical Products Industries, Inc.
TK-590-1 MS Tri-Silane	TK Products
MasterProtect H1000	BASF
Aquanil Plus 40	ChemMasters
SIL-ACT ATS-100	Advanced Chemical Technologies
Certivex Penseal BTS 100%	Vexcon
Pentreat 244-40	W.R. Meadows
Aquanil Plus 40A	ChemMasters

Rev 02/2024

- B. Coverage Rate:** Follow all manufacturers recommendations for coverage rates except the application rate must not exceed the square footage coverage rate per gallon of sealer as given in the chart below. If the manufacturer recommends a coverage rate greater than given in the table below, apply sealer at the rate given in the table below for the chosen sealers silane percentage.

% Silane	Coverage rate (ft ² /gallon)
100	300
40	120
20	60

III. CONSTRUCTION.

- A. Curing Compound.** Contrary to Section 609.03.12 of the specifications, curing compound is not to be used on this deck due to potentially causing issues with the concrete sealer. During the deck pour, finishing, and tining operations the Class AA concrete shall be kept continuously moist with the use of a mister until burlap or curing blankets are applied to the surface. At no point should water be pooling or running off the surface or the surface of the concrete be allowed to become dry. After the burlap or curing blankets are installed, cure in accordance with the specifications. Include all costs in the unit price bid for Class AA concrete. Failure to properly cure the concrete in accordance with this note and the specifications may result in weakened or cracked concrete. If the concrete is weakened or cracked due to improper curing, the contractor will be responsible for providing alternates to fix the issues to the Engineer for review and the contractor will be solely responsible for all costs to do so, up to complete replacement. Do not begin any construction to fix these issues without approval of the Engineer.
- B. Contract Time.** Concrete Sealing may need to be installed after contract time has elapsed in a separate mobilization and after the Engineer has declared the project otherwise complete. Liquidated damages shall not be charged provided Concrete Sealing is complete within 60 days after the last concrete pour on the structure. When the Contractor has not completed Concrete Sealing within the time frame allotted, Liquidated Damages shall be charged at 25 percent of the original contract daily charge from the expiration of the time allowed until the Contractor completes the work except the Department will not deduct liquated damages when weather limitations prohibit the Contractor from performing the work.
- C. Cleaning the Deck.** Dry clean the deck to remove all loose debris. Remove all visible hydrocarbons from the surface with detergent approved by the manufacturer of the deck sealant. Pressure wash all surfaces to be sealed at 2000 to 3000 psi. Install pressure gauges at each wand to verify pressure. Use 30° fan tip or as recommended by the manufacturer of the deck sealant. Hold pressure washing wand a minimum of 45° from the deck with a maximum stand-off distance of 12 inches.

Rev 02/2024

- D. Sealing the Deck.** Allow new concrete to cure a minimum 28 days prior to application of sealer. Monitor weather conditions prior to sealer application. Refer to manufacturer's recommendations for proper ambient conditions. Do not apply sealer if precipitation is anticipated within the time stated by the manufacturer. Allow the deck to dry 24 hours (after washing or rain event) before sealer application. The deck can be reopened to traffic while drying. Sealer must be applied within 48 hours of washing or the deck must be rewashed. Divide the deck into predefined areas of specific square footage to aid in determining usage. Comply with manufacturer's usage recommendation. Using a low pressure pump, apply sealer and spread evenly with broom or squeegee; do not allow pooling to remain. When each predefined area is complete, measure the amount of sealer used to verify proper usage. After sealing, follow manufacturer's recommended cure time before opening to traffic. On vertical surfaces, apply the sealer in a flooding application from the bottom up, so the material runs down 6 to 8 inches below the spray pattern.
- E. Inspection:** Monitor all aspects of the project to assure compliance to this specification. Observe and document general conditions during the entirety of the project. Verify that each phase of work has been satisfactorily completed prior to beginning the next phase. Phases are described as follows:
1. Dry cleaning to remove loose debris, verify and document:
 - a. All debris has been removed and disposed of properly.
 2. Removal of hydrocarbons, verify and document:
 - a. The manufacturer's recommended detergent is used for removal.
 - b. Hydrocarbons have been satisfactorily removed.
 3. Pressure washing, verify and document:
 - a. Washing pressure at the wand.
 - b. Tip size used.
 - c. Wash angle and stand-off distance.
 - d. The deck is satisfactorily cleaned.
 4. Sealer application, verify and document:
 - a. Proper cure time for new concrete.
 - b. Deck surface is dry.
 1. Document time since washed.
 2. Was deck opened to traffic after washing?
 - c. Ambient conditions.
 1. Document ambient temperature, surface temperature, relative humidity, and dew point.
 - d. Application and distribution method.
 - e. Coverage to be complete and even.
 - f. Material is not allowed to remain pooled.
 - g. Monitor material usage.
 - h. No traffic until proper cure time is allowed.
 - i.

Rev 02/2024

IV. MEASUREMENT

- A. **Concrete Sealing.** The Department will measure the quantity per square feet of each area sealed.
- B. **Mobilization For Concrete Surf Treatment.** The Department will pay the lump sum bid for an additional mobilization when Concrete Sealing must be performed after the Engineer has deemed the project complete except for Concrete Sealing and the structure is opened to traffic.

V. PAYMENT

- A. **Concrete Sealing.** Payment at the contract unit price per square feet is full compensation for the following: (1) Furnish all labor, materials, tools, and equipment; (2) Clean the bridge deck; (3) Seal the bridge deck; (4) Maintain & control traffic; and, (5) Any other work specified as part of this contract.
- B. **Mobilization For Concrete Surf Treatment.** Payment at the contract lump sum price bid shall be full compensation for the Contractor to remobilize on the project to perform Concrete Sealing as detailed herein this special note.

Special Note for Bridge Demolition, Renovation and Asbestos Abatement

If the project includes any bridge demolition or renovation, the successful bidder is required to notify Kentucky Division for Air Quality (KDAQ) via filing of form (DEP 7036) a minimum of 10 working days prior to commencement of any bridge demolition or renovation work.

Any available information regarding possible asbestos containing materials (ACM) on or within bridges to be affected by the project has been included in the bid documents. These are to be included with the Contractor's notification filed with the KDAQ. If not included in the bid documents, the Department will provide that information to the successful bidder for inclusion in the KDAQ notice as soon as possible. If there are no documents stating otherwise, the bidders should assume there are no asbestos containing materials that will in any way affect the work.



Andy Beshear
GOVERNOR

TRANSPORTATION CABINET

200 Mero Street
Frankfort, Kentucky 406 01

Jim Gray
SECRETARY

Asbestos Inspection Survey

To: Tom Mathews

District: Central Office

Date: February 14, 2024

Conducted By: O'Dail Lawson

Report Prepared By: O'Dail Lawson

Project and Structure Identification

Project Number: CID 242983

Structure ID: 114B00108N

Structure Location: Warren County – KY 3145 (Transpark Way) over Commonwealth BLVD.

Sample Description: There were no suspect materials present on this structure.

Inspection Date: February 14, 2024

Results and Recommendations

There were no suspect materials observed during this inspection; No samples collected.

*** It is recommended that this report accompany the 10-Day Notice of Intent for Demolition ([Notification Form DEP 7036](#)) which is to be submitted to the Kentucky Division of Air Quality prior to abatement, demolition, or renovation of any building or structure in the Commonwealth. This form can be submitted electronically at the [EEC Forms Homepage](#).

ENVIRONMENTAL TRAINING CONCEPTS, INC
P.O. Box 99603 Louisville, KY 40269
(502)640-2951

Certification Number: ETC-AIR-032223-00200

O'Dail Lawson

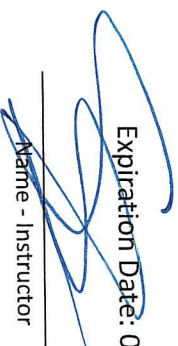
has on 03-22-2023 attended and successfully completed the requirements and passed the examination with a score of 70% of better on the entitled course.

ASBESTOS INSPECTOR REFRESHER

Training was in accordance with 40 CFR Part 763 (AHERA) approved by the Commonwealth of Kentucky, the Indiana Department of Environmental Management, Tennessee Department of Environment & Conservation and The Arkansas Department of Environmental Quality. The above student received requisite training for Asbestos Accreditation under Title II of the Toxic Substance Act (TSCA).

Conducted at: 1520 Alliant Ave., Louisville, KY


Name - Training Manager

Expiration Date: 03-22-2024

Name - Instructor

KENTUCKY TRANSPORTATION CABINET
DEPARTMENT OF HIGHWAYS
BRIDGE REHABILITATION PLANS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE & LOCATION MAP
2	LAYOUT - REMOVAL
3	MAINTENANCE OF TRAFFIC COMMONWEALTH BLVD DETOUR
4	MAINTENANCE OF TRAFFIC KY 3145
5	MAINTENANCE OF TRAFFIC TYPICAL SECTION
6	END DIAPHRAGM DETAILS
7	PC I-BEAM, HN 72.49, DETAILS
8	INTERMEDIATE DIAPHRAGM REPLACEMENT
9	SUPERSTRUCTURE-SLAB
10	CONSTRUCTION ELEVATIONS

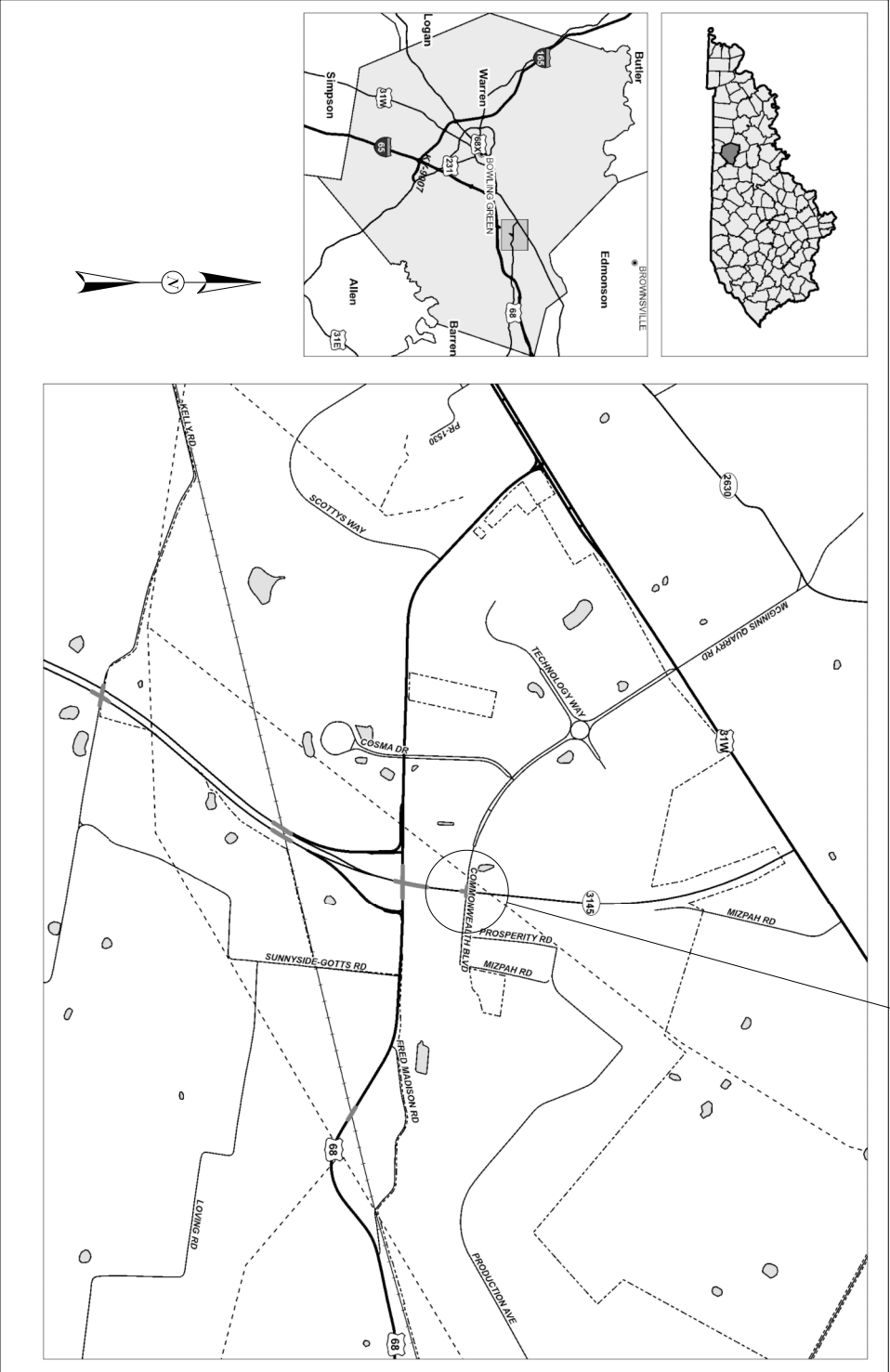
NOTES

GENERAL NOTES
SPECIAL NOTE FOR TRAFFIC CONTROL ON BRIDGE REPAIR CONTRACTS
SPECIAL NOTE FOR CONCRETE SEALING

STANDARD DRAWINGS

BHS-010 RAILING SYSTEM 40 INCH SINGLE SLOPE
BLE-001-14 ARMORED EDGES
TTC-120-04 LANE CLOSURE MULTI-LANE HIGHWAY CASE II
BHS-014 THREE-BEAM GUARDRAIL TRANSITION (TL-3)

114B00108N
KY 3145 (KY TRANSPARK WAY) OVER
CS 2084 (COMMONWEALTH BLVD) BRIDGE
37.03574, -86.31151



ROUTE
KY 3145 (KY TRANSPARK WAY)
COUNTY
WARREN

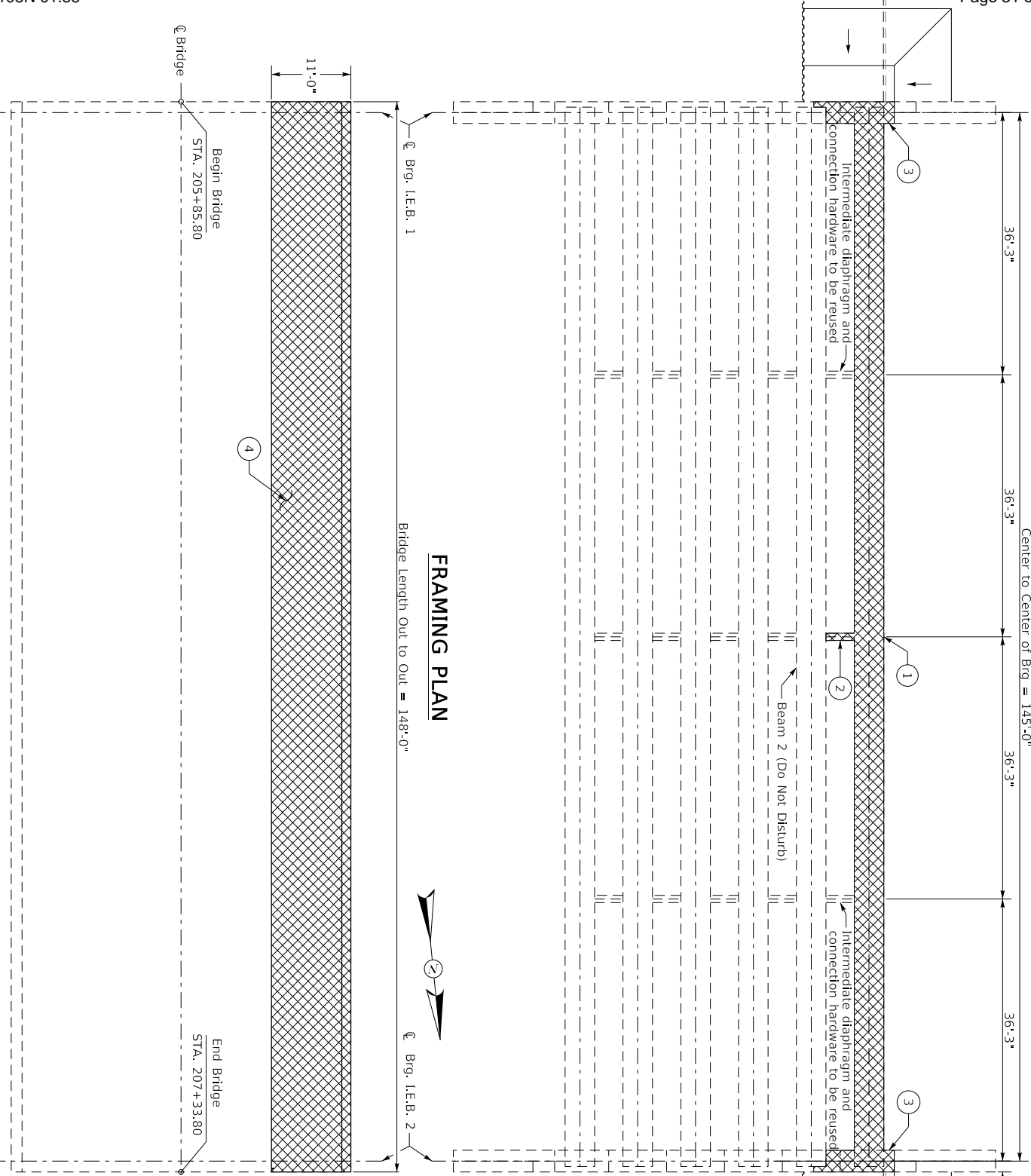
TITLE & LOCATION MAP

PREPARED BY
AECOM

FEBRUARY 13, 2024
SHEET NO.
1 OF 10

ROUTE KY 3145 (KY TRANSPARK WAY)		COUNTY WARREN
CROSSING CS 2084 (COMMONWEALTH BLVD)		
LAYOUT – REMOVAL		
PREPARED BY AECOM		FEBRUARY 13, 2024 SHEET NO. 2 OF 10

PLAN - DECK

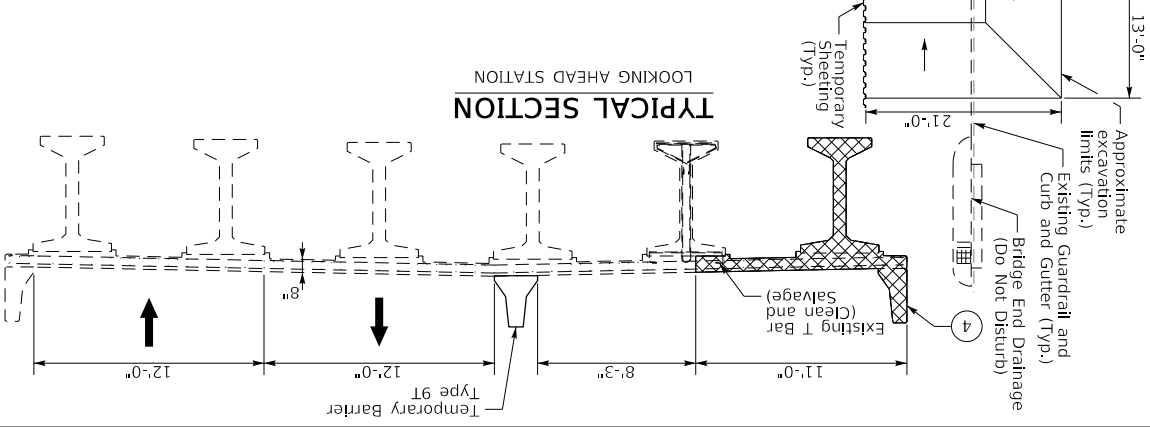


FRAMING PLAN

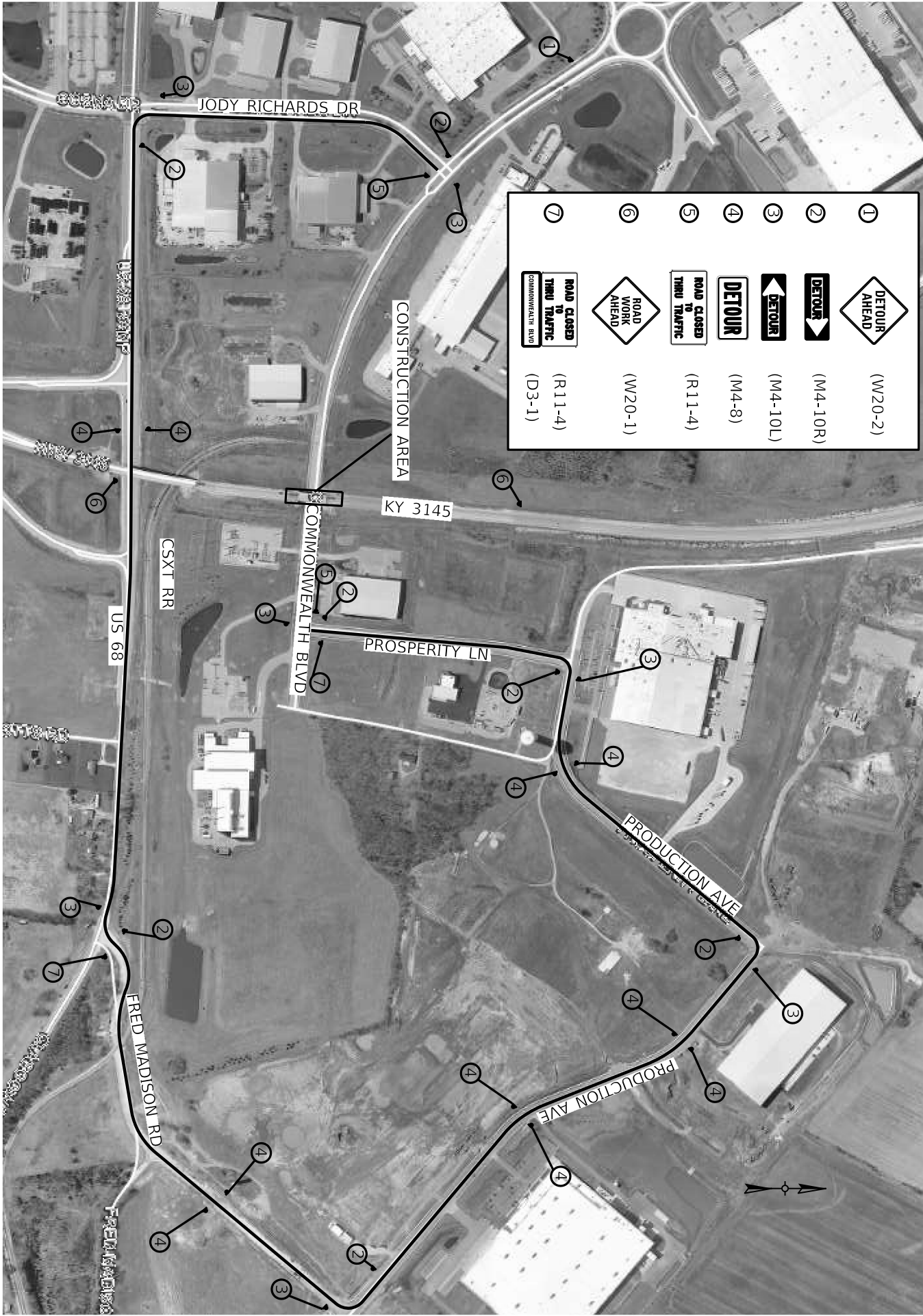
Bridge Length Out to Out = 148'-0"

LEGEND

- 1 HNT2-49 Beam Replacement
 - 2 Intermediate Diaphragm Replacement
 - 3 End Diaphragm Replacement
 - 4 Deck and Bridge Rail Replacement
- Superstructure Removal Limits



TYPICAL SECTION
LOOKING AHEAD STATION

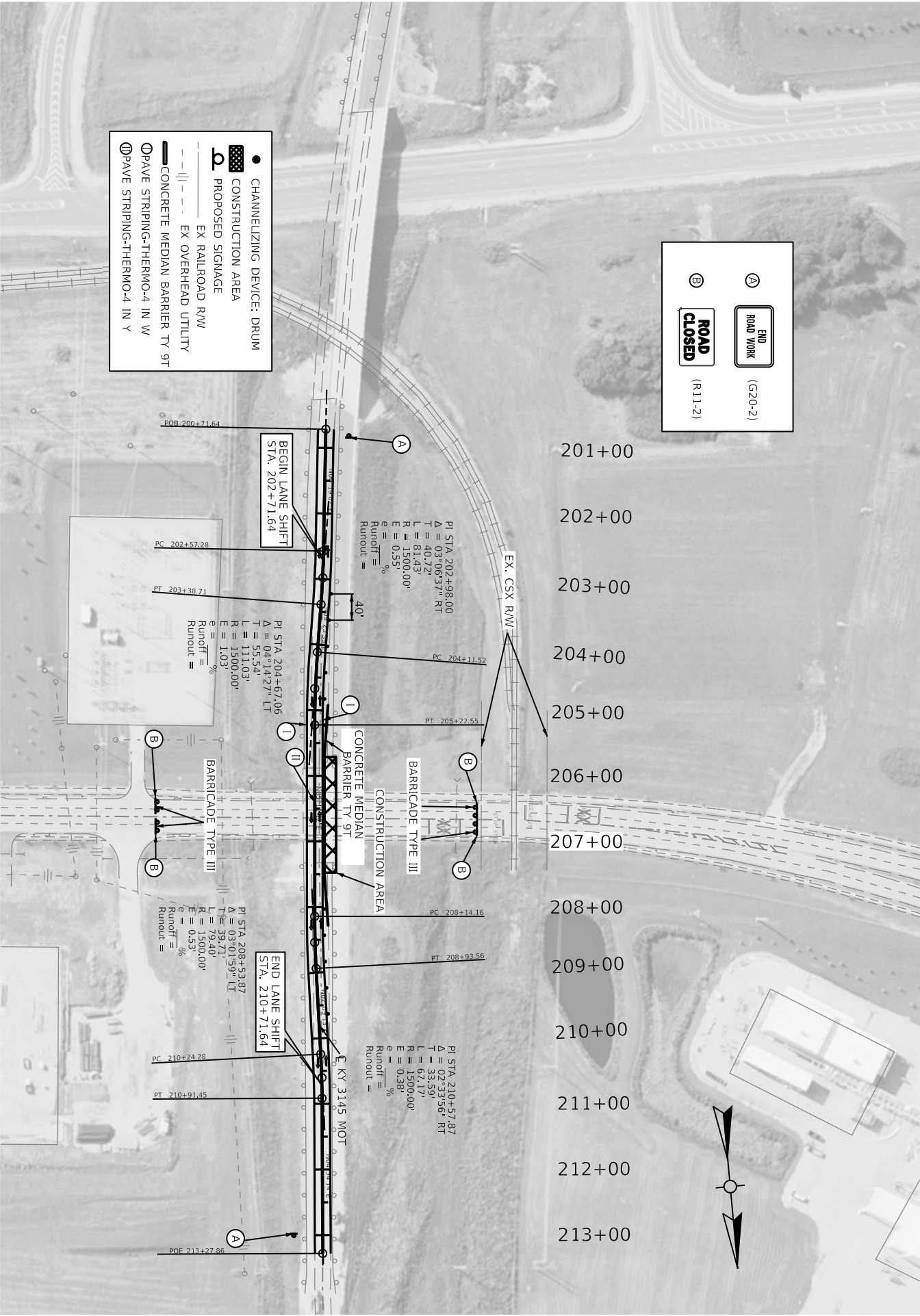


ROUTE
KY 3145 (KY TRANSPARK WAY)
COUNTY
WARREN
CROSSING
CS 2084 (COMMONWEALTH BLVD)

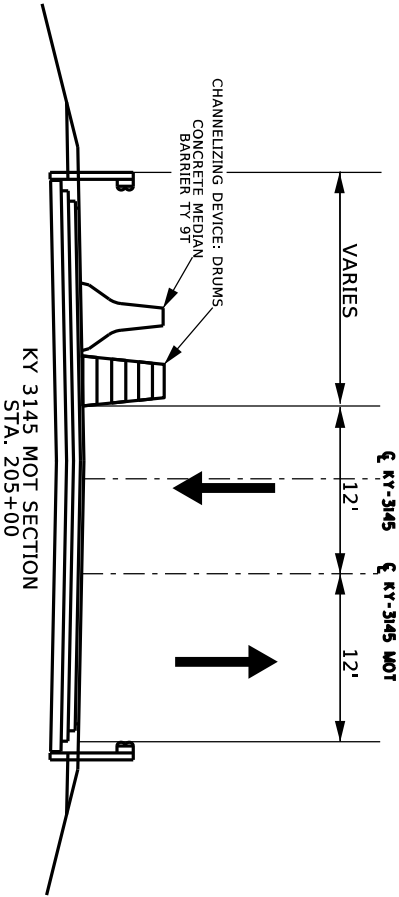
MAINTENANCE OF TRAFFIC
COMMONWEALTH BLVD DETOUR

PREPARED BY
AECOM

FEBRUARY 13, 2024
SHEET NO.
3 OF 10



MAINTENANCE OF TRAFFIC TYPICAL SECTION KY-3145



KY-3145 MAINLINE (4' WIDE)

APPROXIMATELY 13.50' BASE — 6.00' CRUSHED STONE BASE PG64-22
4.00' CL3 ASPH BASE 1,000 PG64-22
3.50' CL3 ASPH BASE 1,000 PG64-22

APPROXIMATELY 1.50' SURFACE — 1.50' CL2 ASPH SURF 0.38D PG64-22

KY-3145 SHOULDER (8' WIDE)

APPROXIMATELY 13.50' BASE — 10.00' CRUSHED STONE BASE PG64-22
3.50' CL3 ASPH BASE 1,000 PG64-22

APPROXIMATELY 1.50' SURFACE — 1.50' CL2 ASPH SURF 0.38D PG64-22

ROUTE
KY 3145 (KY TRANSPARK WAY)

CROSSING
CS 2084 (COMMONWEALTH BLVD)

COUNTY
WARREN

MAINTENANCE OF TRAFFIC
TYPICAL SECTION

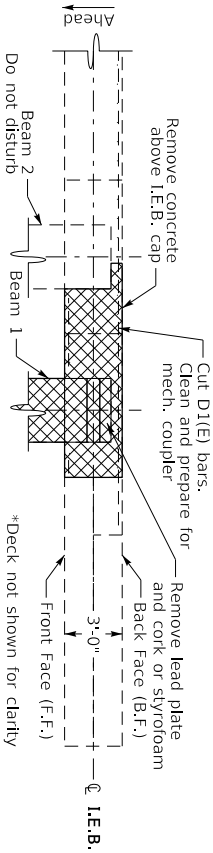
PREPARED BY

AECOM

FEBRUARY 13, 2024

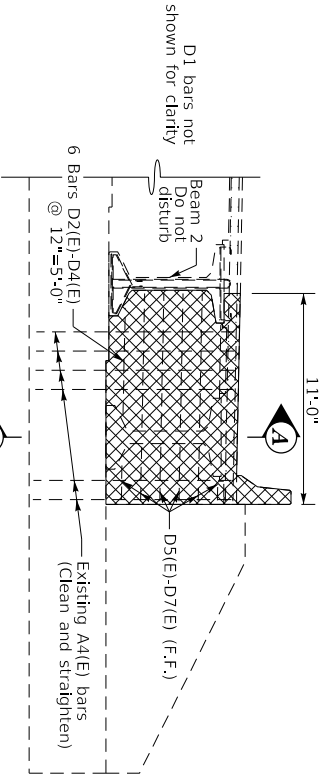
SHEET NO.

5 OF 10



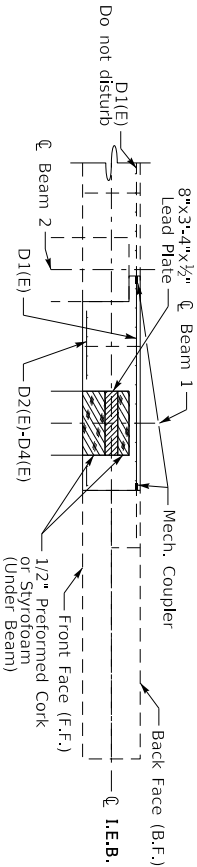
PLAN - I.E.B #1 - REMOVAL LIMITS

I.E.B. #2 opposite hand



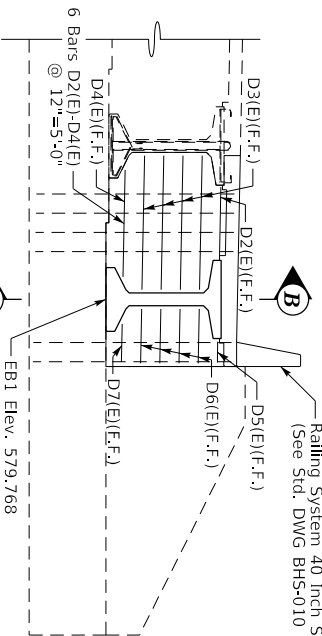
ELEVATION - I.E.B #1 - REMOVAL LIMITS

I.E.B. #2 opposite hand



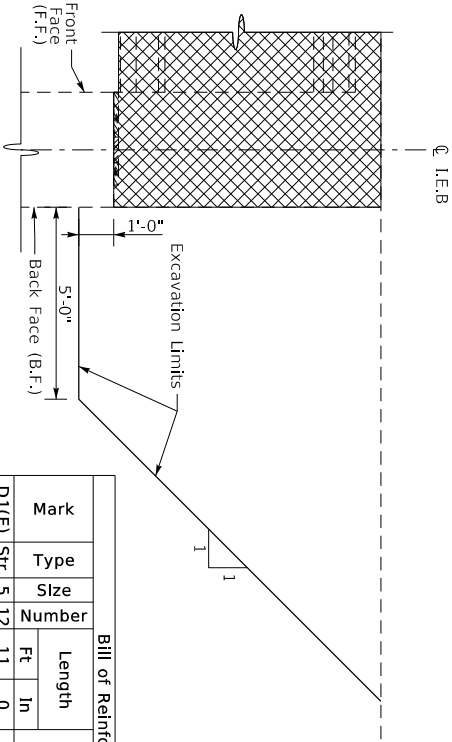
PLAN - I.E.B #1 - PROPOSED

I.E.B. #2 opposite hand



ELEVATION - I.E.B #1 - PROPOSED

I.E.B. #2 opposite hand



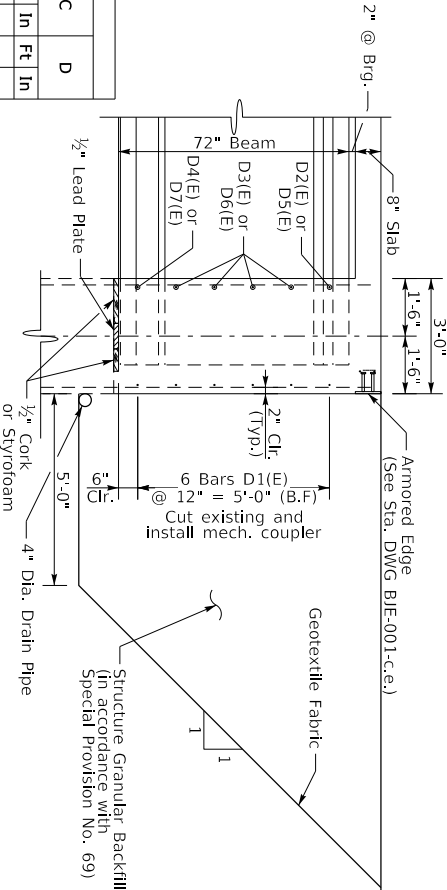
SECTION A - REMOVAL LIMITS

Bill of Reinforcement - I.E.B #1 & I.E.B #2									
Mark	Type	Size	Number	Length		Location		A	
				Ft	In			Ft	In
D1(E)	Str.	5 12	11	0		Diaphragm			
D2(E)	Str.	5 2	3	7		Diaphragm			
D3(E)	Str.	5 8	7	0		Diaphragm			
D4(E)	Str.	5 2	5	7		Diaphragm			
D5(E)	Str.	5 2	1	1		Diaphragm			
D6(E)	Str.	5 8	2	10		Diaphragm			
D7(E)	Str.	5 2	2	0		Diaphragm			

Superstructure Removal Limits

(E) Epoxy Coated
Note: D1(E) bars to be spliced with existing D1(E) bars utilizing mechanical couplers.

SECTION B



ROUTE
KY 3145 (KY TRANSPARK WAY)

CROSSING
CS 2084 (COMMONWEALTH BLVD)

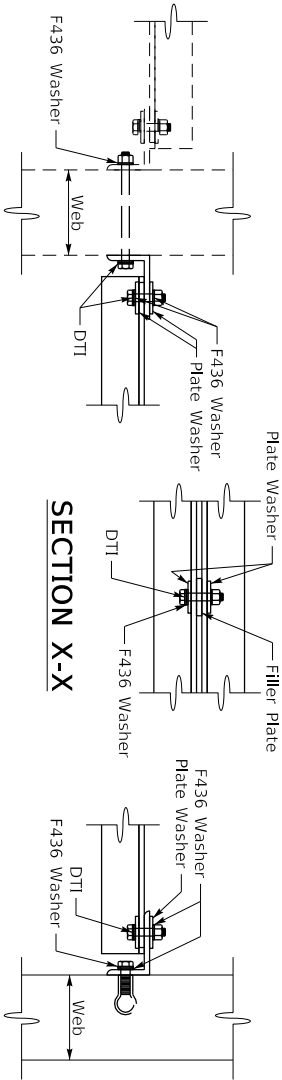
COUNTY
WARREN

END DIAPHRAGM DETAILS

PREPARED BY
AECOM

SHEET NO.
6 OF 10

FEBRUARY 13, 2024



SECTION T-T

SECTION E-E

SECTION X-X

DIAPHRAGM NOTES

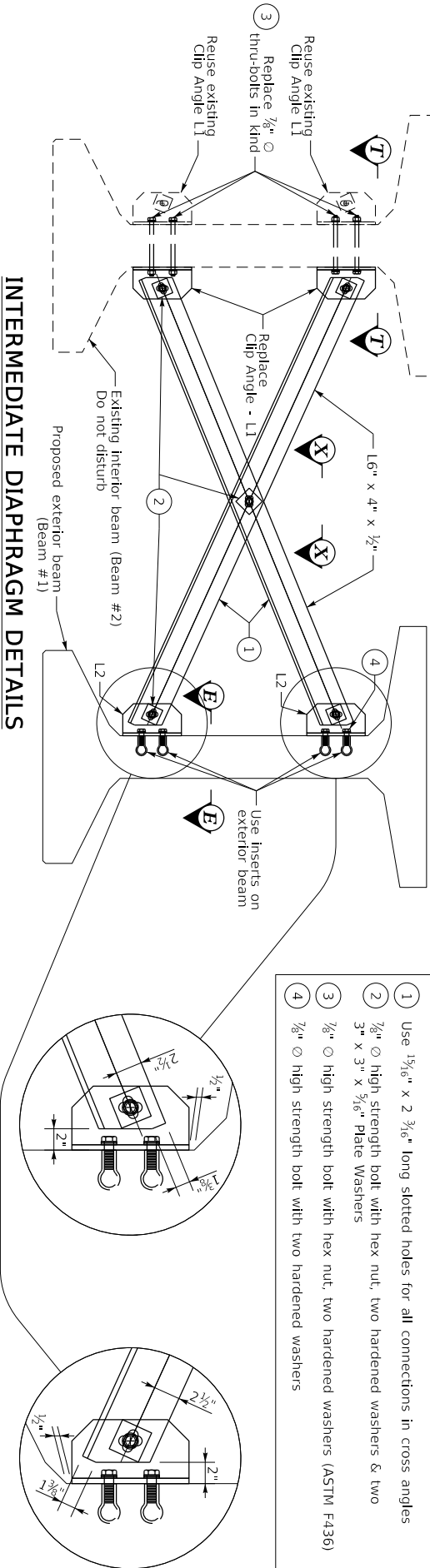
Connections: Ensure all bolted connections are ASTM A325, 7/8 inch diameter high strength bolts, nuts, and washers, mechanically zinc coated in accordance with AASHTO M298, for Class 50. Install all high strength bolted field connections using "Direct Tension Indicators" (DTI's) in accordance with the standard specifications and ASTM F959. Ensure all DTI's are mechanically zinc coated. Show installation details of the DTI's on the Shop Plans. Place DTI's under the bolt head.

Structural Steel: Ensure plates, angles, and channels conform to ASTM A36 or A572 and galvanized after fabrication.

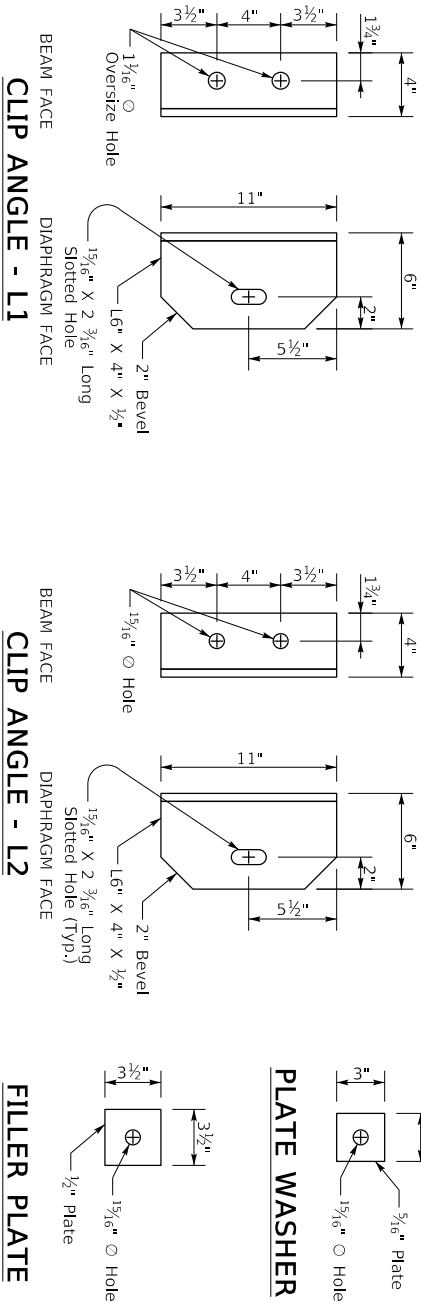
Shop Drawings: Show the location of all inserts and holes on the precast beam shop drawings. Submit shop drawings for the steel diaphragms to the Division of Structural Design for approval.

Diaphragms: Erect the diaphragms the same day that the precast beams are placed on the substructure.

- 1 Use 1½" x 2 ¾" long slotted holes for all connections in cross angles
- 2 7/8" Ø high strength bolt with hex nut, two hardened washers & two 3" x 3" x ¾" Plate Washers
- 3 1/8" Ø high strength bolt with hex nut, two hardened washers (ASTM F436)
- 4 7/8" Ø high strength bolt with two hardened washers



INTERMEDIATE DIAPHRAGM DETAILS



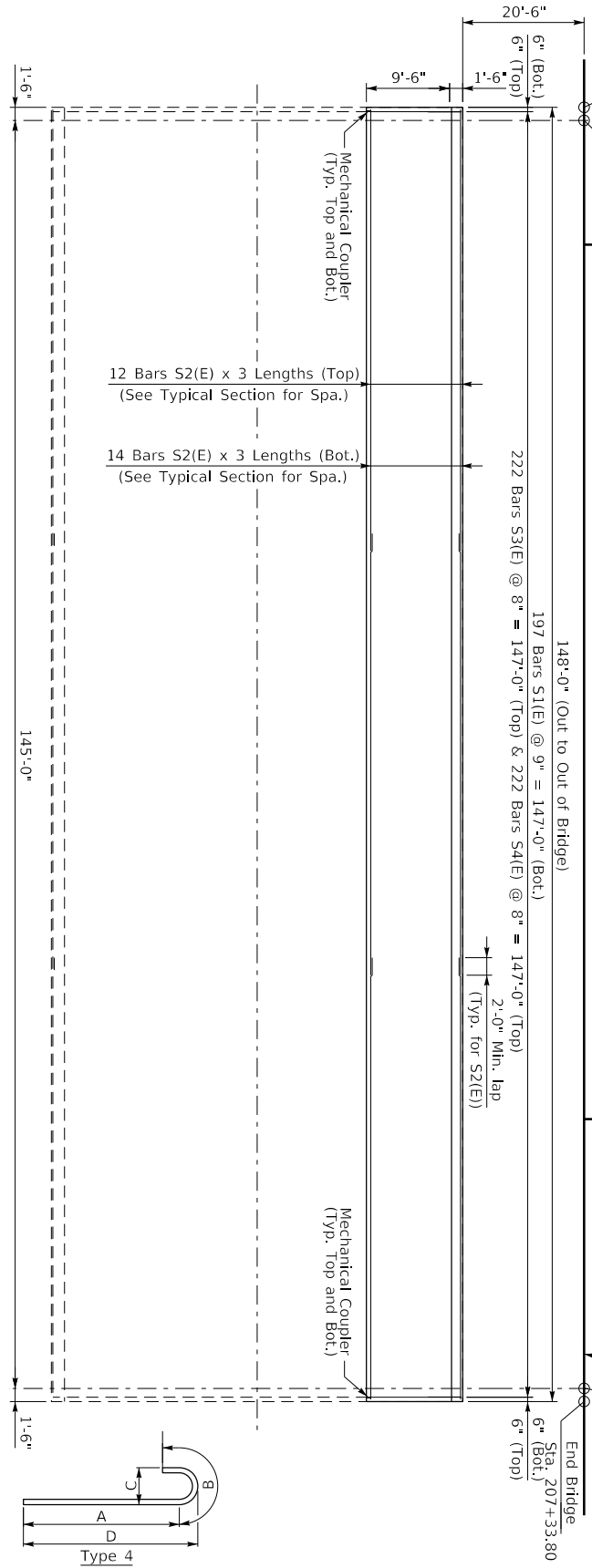
Begin Bridge
Sta. 205+85.80

Centerline Bearing I.E.B. #1
Sta. 205+87.30



End Bridge
Sta. 207+32.30

Centerline Bearing I.E.B. #2
Sta. 207+33.80

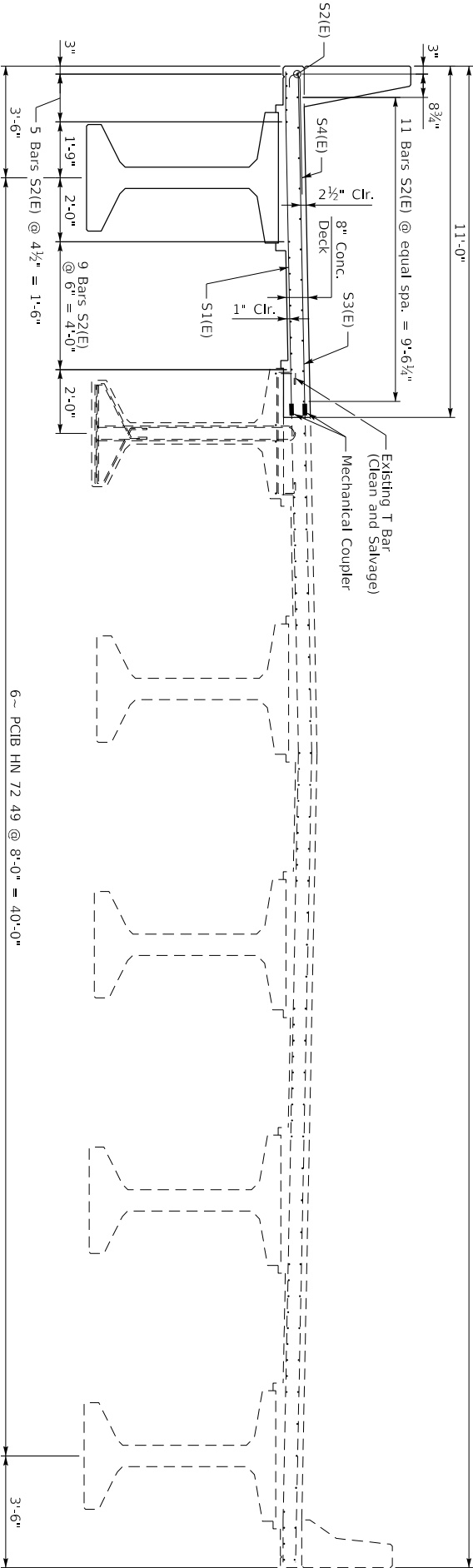


Bill of Reinforcement - Slab											
Mark	Type	Size	Number	Length		Location	A		B		D
				Ft	In		Ft	In	Ft	In	
S1(E)	Str.	6	197	10	10	Bot. of Slab					
S2(E)	Str.	4	78	50	7	Bot. and Top of Slab					
S3(E)	Str.	6	222	10	10	Top of Slab					
S4(E)	4	4	222	4	4	Top of Slab	3	7	0	9	4

(E) Epoxy Coated

PLAN

47'-0" Out to Out



TYPICAL SECTION

(Looking Ahead)

6 ~ PCIB HN 72 49 @ 8'-0" = 40'-0"

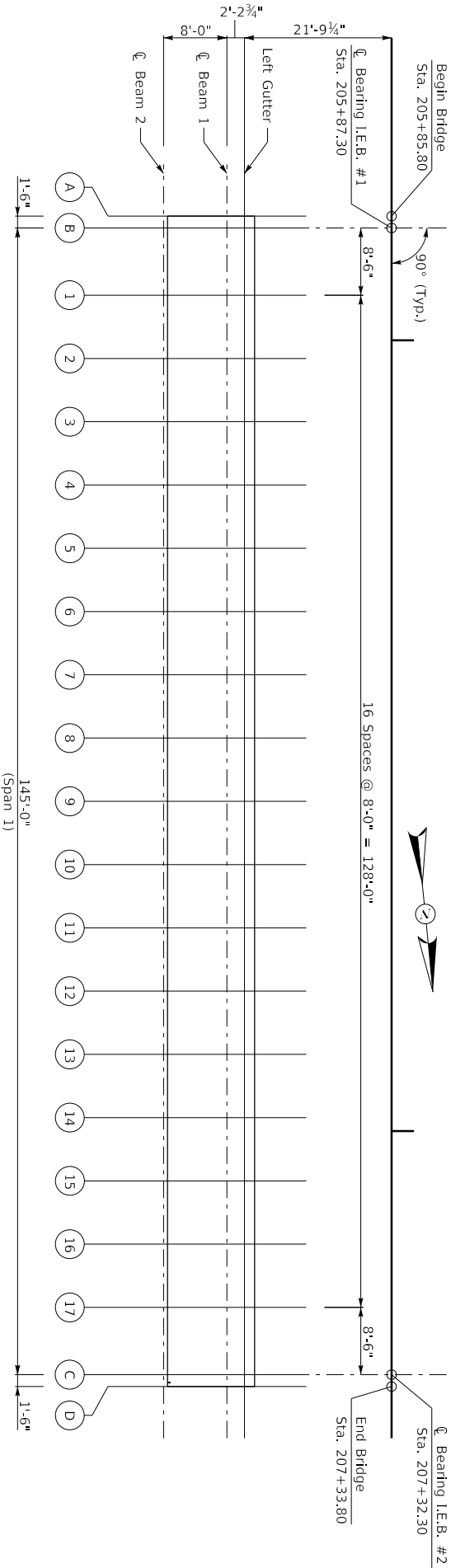
ROUTE
KY 3145 (KY TRANSPARK WAY)
COUNTY
WARREN

CROSSING
CS 2084 (COMMONWEALTH BLVD)

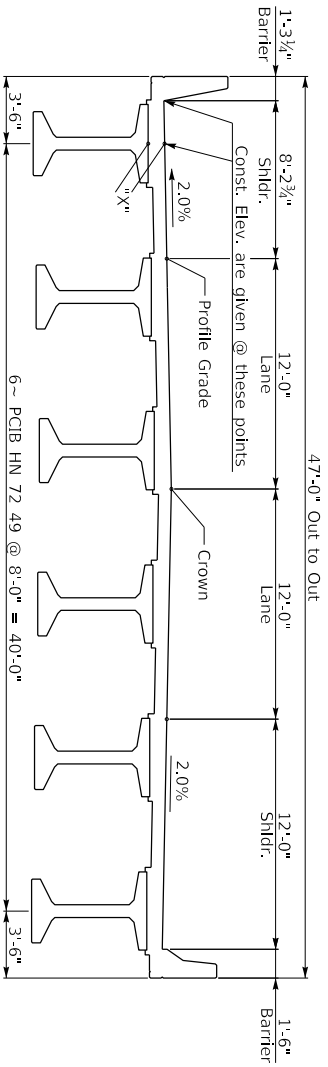
SUPERSTRUCTURE-SLAB

PREPARED BY
AECOM

FEBRUARY 13, 2024
SHEET NO.
9 OF 10

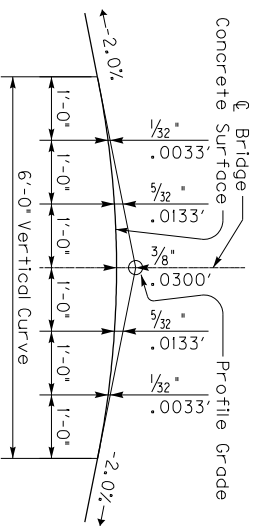


CONSTRUCTION ELEVATION



TYPICAL SECTION

Looking Ahead



PARABOLIC CROWN

Take elevations on top of beam at points indicated by the grid layout. The beam elevations are to read to three decimals, and entered in tables under "Top of Beam" elevations.

Compute dimension "X" as follows: "Construction Elevation" minus "Top of Beam" elevation equals dimension "X". Construction elevations include camber due to weight of concrete slab and barrier, measuring of dimension "X" gives the final check on beam tolerances for camber, beam damage, and errors in erection that produce reverse cambers, sags, and unsightly fascia beams.

For setting templates, measure dimension "Y" above top of beams for top of template. Do not set template by elevations.

Temporary supports or shoring will not be permitted under the girders when pouring the concrete floor slab or when taking "Top of Beam" elevations.

Construct barrier to roadway grade. Do not add camber to barrier.

Construction Elevations				
Grade Line	Left Gutter	Constr. Elev.	Top of Beam	Dim. X
A	586.617	586.657		
B	586.603	586.643		
C	584.866	584.906		
D	584.843	584.883		
1	586.559	586.599		
2	586.512	586.552		
3	586.458	586.498		
4	586.399	586.439		
5	586.334	586.374		
6	586.263	586.303		
7	586.186	586.226		
8	586.102	586.142		
9	586.010	586.050		
10	585.910	585.950		
11	585.802	585.842		
12	585.688	585.728		
13	585.567	585.607		
14	585.440	585.480		
15	585.308	585.348		
16	585.169	585.209		
17	585.025	585.065		

Note: Elevations given are based on original design elevations. Contractor is responsible for verifying existing adjacent slab elevations and making necessary adjustments as needed.

PART II

SPECIFICATIONS AND STANDARD DRAWINGS

STANDARD SPECIFICATIONS

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>

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 administering 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 $1\frac{1}{2}$ 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

Report Date 2/15/24

Section: 0001 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00003		CRUSHED STONE BASE	18.00	TON		\$	
0020	00214		CL3 ASPH BASE 1.00D PG64-22 114B00108N	10.00	TON		\$	
0030	00301		CL2 ASPH SURF 0.38D PG64-22	3.00	TON		\$	
0040	02014		BARRICADE-TYPE III	18.00	EACH		\$	
0050	02200		ROADWAY EXCAVATION	15.00	CUYD		\$	
0060	02562		TEMPORARY SIGNS	225.00	SQFT		\$	
0070	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0080	02671		PORTABLE CHANGEABLE MESSAGE SIGN	4.00	EACH		\$	
0090	02726		STAKING	1.00	LS		\$	
0100	06510		PAVE STRIPING-TEMP PAINT-4 IN	3,204.00	LF		\$	
0110	06530		PAVE STRIPING REMOVAL-4 IN	3,204.00	LF		\$	
0120	06540		PAVE STRIPING-THERMO-4 IN W	1,602.00	LF		\$	
0130	06541		PAVE STRIPING-THERMO-4 IN Y	1,602.00	LF		\$	

Section: 0002 - BRIDGES - 114B00108N

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0140	02231		STRUCTURE GRANULAR BACKFILL	87.00	CUYD		\$	
0150	02731		REMOVE STRUCTURE	1.00	LS		\$	
0160	03171		CONCRETE BARRIER WALL TYPE 9T	540.00	LF		\$	
0170	03299		ARMORED EDGE FOR CONCRETE	20.00	LF		\$	
0180	08003		FOUNDATION PREPARATION	1.00	LS		\$	
0190	08104		CONCRETE-CLASS AA	63.00	CUYD		\$	
0200	08140		MECHANICAL REINF COUPLER #5 EPOXY COATED	24.00	EACH		\$	
0210	08141		MECHANICAL REINF COUPLER #6 EPOXY COATED	419.00	EACH		\$	
0220	08151		STEEL REINFORCEMENT-EPOXY COATED	10,400.00	LB		\$	
0230	23173EC		REPLACE/REPAIR STEEL DIAPHRAGM	1.00	EACH		\$	
0240	23378EC		CONCRETE SEALING	4,550.00	SQFT		\$	
0250	24582EN		PRECAST PC I BEAM-HN 72-49	146.50	LF		\$	
0260	25028ED		RAIL SYSTEM SINGLE SLOPE - 40 IN	148.00	LF		\$	
0270	25078ED		THRIE BEAM GUARDRAIL TRANSITION TL-3	2.00	EACH		\$	
0280	26233EC		MOBILIZATION FOR CONCRETE SURF TREATMENT	1.00	LS		\$	

Section: 0003 - DEMOB

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0290	02569		DEMOBILIZATION	1.00	LS		\$	