



**CALL NO. 402**

**CONTRACT ID. 192918**

**WOLFE - POWELL COUNTIES**

**FED/STATE PROJECT NUMBER 121GR19M075-FE02**

**DESCRIPTION POWELL AND WOLFE COUNTIES BRIDGE OVERLAYS.**

**WORK TYPE BRIDGE DECK RESTORATION & WATERPROOFING**

**PRIMARY COMPLETION DATE 11/15/2020**

**LETTING DATE: November 22,2019**

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN STANDARD TIME November 22,2019. Bids will be publicly announced at 10:00 AM EASTERN STANDARD TIME.

**NO PLANS ASSOCIATED WITH 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 - 10

**CONTRACT ID - 192918**

**121GR19M075-FE02**

**COUNTY - POWELL**

**PCN - MB09900571901**

**FE02 099 1057 B00057N**

KY 1057 (MP 2.537). BRIDGE OVER HARDWICK CREEK.BRIDGE DECK RESTORATION & WATERPROOFING  
GEOGRAPHIC COORDINATES LATITUDE 37:49:25.00 LONGITUDE 83:55:11.00

**PCN - MB09911011901**

**FE02 099 1101 B00049N**

FD 1101 (MP 0.049). BRIDGE OVER MOUNTAIN PKWY.BRIDGE DECK RESTORATION & WATERPROOFING  
GEOGRAPHIC COORDINATES LATITUDE 37:47:52.00 LONGITUDE 83:39:14.00

**PCN - MB09912051901**

**FE02 099 1205 B00031N**

CR 1205 (MP 1.029). BRIDGE OVER MOUNTAIN PKWY.BRIDGE DECK RESTORATION & WATERPROOFING  
GEOGRAPHIC COORDINATES LATITUDE 37:49:59.00 LONGITUDE 83:52:28.00

**PCN - MB09990001901**

**FE02 099 9000 B00009L**

MOUNTAIN PARKWAY (MP 31.222). BRIDGE OVER KY 77.BRIDGE DECK RESTORATION & WATERPROOFING  
GEOGRAPHIC COORDINATES LATITUDE 37:48:55.00 LONGITUDE 83:43:05.00

**COUNTY - WOLFE**

**PCN - MB11907461901**

**FE02 119 0746 B00024N**

KY 746 (MP 6.015). BRIDGE OVER RED RIVER.BRIDGE DECK RESTORATION & WATERPROOFING  
GEOGRAPHIC COORDINATES LATITUDE 37:47:55.00 LONGITUDE 83:29:22.00

### COMPLETION DATE(S):

COMPLETED BY 11/15/2020	APPLIES TO ENTIRE PROPOSAL
30 CALENDAR Days	APPLIES TO 099B00009L
30 CALENDAR Days	APPLIES TO 099B00031N
30 CALENDAR Days	APPLIES TO 099B00049N
30 CALENDAR Days	APPLIES TO 099B00057N
30 CALENDAR Days	APPLIES TO 119B00024N



## **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](http://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](mailto: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](http://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

## **SPECIAL NOTE FOR BRIDGE RESTORATION AND WATERPROOFING WITH CONCRETE OVERLAYS**

- I. DESCRIPTION.** Perform all work in accordance with the Kentucky Transportation Cabinet, Department of Highway's 2019 Standard Specifications for Road and Bridge Construction and applicable Supplemental Specifications, the Standard Drawings, this Note, and the attached detail drawings. Section references are to the Standard Specifications.

This work consists of the following: (1) Furnish all labor, materials, tools, and equipment; (2) Remove the existing overlay or machine prep the existing slab; (3) Complete full-depth and partial depth repairs as directed by the Engineer; (4) Repair/replace damaged and corroded reinforcing bars; (5) Place new concrete overlay and epoxy-sand slurry in accordance with Section 606; (6) Complete asphalt approach pavement; (7) Maintain and control traffic; and (8) Any other work specified as part of this contract.

All construction will be in accordance with Section 606 unless otherwise specified.

**II. MATERIALS.**

- A. Latex Concrete.** See Section 606.03.17.
- B. Class "M" Concrete.** Use either "M1" or "M2". See Section 601.
- C. Bituminous Asphalt.** Use CL2 ASPH SURF 0.38D PG64-22.
- D. Epoxy-Sand Slurry.** See Section 606.03.10.

**III. CONSTRUCTION.**

- A. Machine prep of existing slab.** For 099B00057N, 099B00031N, and 099B00049N, remove concrete from existing slab to a depth of at least ¼" below the existing surface, and remove all patches completely, in accordance with the requirements of Section 606.03.03. See Special Note for Use of Hydrodemolition Method.
- B. Remove Existing Overlay.** In addition to Section 606.03.03, totally remove the existing concrete overlay for 099B00009L and 119B00024N by milling. See Special Note for Use of Hydrodemolition Method.
- C. Partial Depth Slab Repair and Latex Overlay.** Remove areas determined to be unsound by the Engineer via hydrodemolition or via hand held jackhammers weighing less than 45lbs in accordance with Section 606.02.10 D. Repair/Replace all damaged or severely corroded reinforcing bars prior to partial depth repair operation. The Department will not measure material removal and will consider this work incidental to the bid item "PARTIAL DEPTH PATCHING". Mix and place Latex Modified Concrete Overlay in accordance with Sections 606.03.08 and 606.03.17.
- D. Asphalt Approach Pavement.** Mill each existing asphalt approach for a distance of 50' for 099B00009L and 119B00024N, and 100' for 099B00057N, 099B00031N, and 099B00049N, from the bridge ends. Remove the bituminous material uniformly by making an edge key, so as to provide a smooth transition to the finished bridge when a new bituminous overlay of compacted depth of approximately 1½" is added to the approaches. The grinding depth may vary depending of the condition of the existing

approach and final elevation of bridge end. Dispose of all removed material away from the site.

- E. **Surface Texturing.** Texture the concrete surface of the overlay in accordance with Section 609.03.10.

IV. **MEASUREMENT.** See Section 606 and the following:

- A. **Latex Modified Concrete for Concrete Overlay.** The Department will measure the quantity in cubic yards using the theoretical volume as follows for each bridge:

099B00057N	(114'x24'x1.50")	=	12.7 cuyd
099B00031N	(216'x24'x1.50")	=	24.0 cuyd
099B00009L	(159'x30'x2.00")	=	29.4 cuyd
099B00049N	(221'x14'x1.50")	=	14.3 cuyd
119B00024N	(144'x26'x2.00")	=	23.1 cuyd

- B. **Latex Modified Concrete for Partial Depth Patching and variable thickness of Overlay.** The Department will measure the quantity in cubic yards by deducting the theoretical volume of bridge deck overlay (LMC) from the total volume (as indicated by the batch quantity tickets) of Concrete required to obtain the finished grade shown on the Plans or established by the Engineer.

- C. **Machine Prep of Slab.** The Department will measure the machine preparation of the existing bridge deck for 099B00057N, 099B00031N, and 099B00049N in square yards, which shall include all labor, equipment, and material needed to complete this work.

- D. **Remove Existing Overlay.** The Department will measure the removal of the existing overlay for 099B00009L and 119B00024N in square yards, which shall include all labor, equipment, and material needed to complete this work.

- E. **Steel Reinforcement.** The Department will measure any reinforcing steel necessary for the partial or full depth patch in pounds, which shall include all labor, equipment, and material needed to complete this work.

- F. **Asphalt Approach Pavement.** The Department will measure the quantity in square yards, which shall include all labor, equipment, and material needed to complete this work.

V. **PAYMENT.** See Section 606 and the following:

- A. **Latex Modified Concrete for Overlay.** The Department will make payment for the Latex Modified Concrete under bid item #08534 "CONCRETE OVERLAY – LATEX" for the quantity in cubic yards complete in place.

- B. **Latex Modified Concrete for Partial Depth Patching and variable thickness of Overlay.** The Department will make payment for the Partial Depth Patching under bid item #24094EC "PARTIAL DEPTH PATCHING". Payment will be for the quantity per cubic yard complete in place.

- C. **Machine Prep of Slab.** The Department will make payment for the machine prep of existing slab for 099B00057N, 099B00031N, and 099B00049N, under bid item

- #08551 "MACHINE PREP OF SLAB". Payment will be for the square yard complete.
- D. Remove Existing Overlay.** The Department will make payment for the removal of the existing overlay for 099B00009L and 119B00024N under the bid item #08510 "REM EPOXY BIT FOREIGN OVERLAY". Payment will be for the square yard complete.
- E. Steel Reinforcement.** The Department will make payment for steel reinforcement, if necessary, under bid item #08150 "STEEL REINFORCEMENT". Payment will be at the unit price per pound.
- F. Asphalt Approach Pavement.** The Department will make payment for the completed and accepted quantity of this work under the bid item #03304 "BRIDGE OVERLAY APPROACH PAVEMENT".

## **SPECIAL NOTE FOR REPLACING EXPANSION DAMS AND/OR INSTALLING ARMORED EDGES FOR CONCRETE ON BRIDGES**

**I. DESCRIPTION.** Perform all work in accordance with the Kentucky Transportation Cabinet, Department of Highway's 2019 Standard Specifications for Road and Bridge Construction and applicable Supplemental Specifications, the Standard Drawings, this Note, and the attached detail drawings. Section references are to the Standard Specifications.

This work consists of the following: (1) Furnish all labor, materials, tools, and equipment; (2) Remove existing concrete and expansion device(s) and/or bridge ends; (3) Install armored edges and new concrete as specified and in accordance with the attached detail drawings; (4) Install new joint seals (where required); (5) Maintain and control traffic; and (6) Any other work specified as part of this contract.

### **II. MATERIALS.**

**A. Class "M" Concrete.** Use either "M1" or "M2". See Section 601.

**B. Structural Steel.** Use new, commercial grade steel suitable for welding. The Engineer will base acceptance on visual inspection. For armored edges that make up the 4" neoperene joint, use Steelflex Strip Seal expansion joint by DS Brown, or approved equal. To be approved, armored edge extrusions must be embedded.

**C. Stud Anchors.** The armored edge stud anchors are 3/4" x 6" embedded stud shear connectors conforming to ASTM A108, Grade 1015 (Nelson Studs or equal).

**D. Steel Reinforcement.** Use Grade 60. See Section 602.

**E. Epoxy Bond Coat.** See Section 511.

**F. Neoprene Strip Seals.** See attached detail drawings and Section 807.

### **III. EQUIPMENT.**

**A. Hammers.** See Section 606.02.10 B.

**B. Sawing Equipment.** See Section 606.02.10 C.

**C. Hydraulic Impact Equipment.** See Section 606.02.10 D.

### **IV. CONSTRUCTION.**

**A. Remove Existing Materials.** Remove existing Expansion Dam, Bridge End, Armored Edges and specified areas of concrete as shown on the attached sketches. Remove debris and/or expansion joint filler as directed by the Engineer. . Clean and leave all existing steel reinforcement encountered in place. Damaged steel reinforcement will be repaired/replaced as directed by the Engineer at no additional cost to the Department.

Dispose of all removed material entirely away from the job site. This work is incidental to the contract unit price for "Expansion Joint Replacement" or "Armored Edge for Concrete".

**B. Place New Concrete and Armored Edges.** After all specified existing materials have been removed; place new armored edges to match the grade of the proposed overlay or to match the original grade (See attached detail drawings). Place the new Class "M" concrete to the scarified grade and finish to receive the new overlay or



place the new Class "M" concrete to the original grade and finish with broom strokes drawn transversely from curb to curb.

All new structural steel shall be cleaned and painted in accordance with requirements of Section 607.03.23, except that surfaces to come in contact with concrete are not to be painted.

Blast clean all areas of existing concrete and structural steel to come in contact with new concrete until free of all laitance and deleterious substances immediately prior to the placement of the Class "M" Concrete. The surface areas of existing concrete to come in contact with the new Class "M" Concrete are to be coated with an epoxy bond coat immediately prior to placing new concrete in accordance with Section 511. The interfaces of the new and old concrete shall be as nearly vertical and horizontal as possible.

- C. Additional Steel Reinforcement.** Furnish for replacement, as directed by the Engineer, 4700 linear feet of #4 steel reinforcing bars in 20' lengths. Place these bars in areas deemed by the Engineer to require additional reinforcement. Field cutting and bending is permitted. Do not place any additional steel reinforcement above the height of the top row of Nelson Studs on the armored edges. Ensure that all exposed steel reinforcement is tied in accordance with Section 602.03.04 prior to pouring the new Class "M" concrete. Deliver unused bars to the Local County Maintenance Barn. Payment will be made in accordance with Section 602.
- D. Stage Construction.** Installation of concrete and armored edges in two (or more if specified) stages is necessary. Join the armored edges at or near the centerline of the roadway or lane line, field weld and grind smooth.
- E. Preformed Neoprene Strip Seal.** Place the preformed joint seal in one continuous, unbroken length. Place neoprene strip seals as recommended by the manufacturer and in accordance with Section 609.03.04
- F. Shop Plans.** Shop plans will not be required. The Contractor is responsible for obtaining field measurements and supplying properly sized materials to complete the work.

## V. MEASUREMENT.

- A. Expansion Joint Replacement – 4".** The Department will measure the quantity in linear feet from gutterline to gutterline along the centerline of the joint.
- B. Armored Edge for Concrete.** The Department will measure the quantity in linear feet from gutterline to gutterline along the face of the bridge end.
- C. Steel Reinforcement.** See Section 602.

## VI. PAYMENT.

- A. Expansion Joint Replacement – 4".** Payment at the contract unit price per linear foot is full compensation for removing specified existing materials, furnishing and installing the new armored edges, concrete, neoprene strip seal or pre-compressed horizontal expansion joint system, and all incidental items necessary to complete the work (except the overlay material) within the specified pay limits as specified by this note and as shown on the attached detail drawings.
- B. Armored Edge for Concrete.** Payment at the contract unit price per linear foot is full compensation for removing specified existing materials, furnishing and installing

the new armored edges, concrete and all incidental items necessary to complete the work (except the overlay material) within the specified pay limits as specified by this note and as shown on the attached detail drawings.

**C. Steel Reinforcement.** See Section 602.

## SPECIAL NOTE FOR ELIMINATING TRANSVERSE JOINTS ON BRIDGES

- I. **DESCRIPTION.** Perform all work in accordance with the Kentucky Transportation Cabinet, Department of Highway's 2019 Standard Specifications for Road and Bridge Construction.

Remove existing concrete and existing joint material to eliminate the transverse joint. Install additional reinforcing steel and place concrete.
- II. **MATERIALS.**
  - A. **Class "M" Concrete.** Use either "M1" or "M2". See Section 601.
  - B. **Steel Reinforcement.** Use Grade 60. See Section 602.
  - C. **Epoxy Bond Coat.** See Section 511.
- III. **EQUIPMENT.**
  - A. **Hammers.** See Section 606.02.10 B.
  - B. **Sawing Equipment.** See Section 606.02.10 C.
  - C. **Hydraulic Impact Equipment.** See Section 606.02.10 D.
- IV. **CONSTRUCTION.**
  - A. **Remove Existing Materials.** Remove the existing transverse joints, joint filler, and specified areas of concrete as shown on the plans, in accordance with Section 606.02.10 and 606.03.03, and as directed by the Engineer. Clean and leave all existing steel reinforcement encountered in place. Damaged steel reinforcement will be repaired/replaced as directed by the Engineer at no additional cost to the Department. Dispose of all removed material entirely away from the job site. This work is incidental to the contract unit price for "Eliminate Transverse Joint".
  - B. **Additional Steel Reinforcement.** Furnish for this work steel reinforcing bars as shown on the plans. Splice these bars to the existing longitudinal reinforcement in the deck and curb/sidewalk in the areas of removed concrete to tie the slabs together as shown on the plans. Ensure that all exposed steel reinforcement is tied in accordance with Section 602.03.04 prior to pouring the new Class "M" concrete.
  - C. **Place New Concrete.** Blast clean all areas of existing concrete and structural steel to come in contact with new concrete until free of all laitance and deleterious substances immediately prior to the placement of the Class "M" Concrete. The surface areas of existing concrete to come in contact with the new Class "M" Concrete are to be coated with an epoxy bond coat immediately prior to placing new concrete in accordance with Section 511. The interfaces of the new and old concrete shall be as nearly vertical and horizontal as possible.

Place new Class "M" Concrete to the specified grade and finish to receive the new overlay or as shown on the plans. On the sidewalk and curb, place the new concrete to original grade and finish to match the existing curb/sidewalk.
- V. **MEASUREMENT.**
  - A. **Eliminate Transverse Joint.** The Department will measure the quantity in linear feet from plinth to plinth perpendicular to the centerline of the bridge.

**B. Steel Reinforcement.** See Section 602.

**VI. PAYMENT.**

**A. Eliminate Transverse Joint.** Payment at the contract unit price per linear foot is full compensation for furnishing equipment, labor, tools and materials needed to complete removal and disposal of the specified existing materials, cleaning and straightening of existing steel reinforcement, furnishing and installing the concrete, and all incidental items necessary to complete the work (except the overlay material if specified elsewhere in the contract) within the specified pay limits as indicated on the drawings.

**B. Steel Reinforcement.** See Section 602.

## NOTES FOR BRIDGE PIER AND SOFFIT CONCRETE PATCHING

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 2019 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, and equipment; (2) Remove existing spalled/delaminated concrete; (3) Prepare the existing surface for concrete patching; (4) Place hook fasteners and welded wire fabric over surfaces to be repaired (where applicable); (5) Apply concrete patching as specified by this note and as shown on the attached detail drawings; (6) Finish and cure the new Concrete Patches; (7) Maintain & control traffic; and, (8) Any other work specified as part of this contract.

**II. MATERIALS.**

- A. Concrete.** Approved Concrete Product for Vertical and Overhead Repair Patch.  
**B. Steel Reinforcement.** Use Grade 60. See Section 602  
**C. Welded Steel Wire Fabric (WWF).** Conform to Section 811  
**D. Hook Fasteners.** Use commercial grade galvanized hook fasteners. Minimum 3/16" diameter.

**III. CONSTRUCTION.**

- A. Concrete Removal and Preparation.** The Contractor, as directed by the Engineer shall locate and remove all loose, spalled, deteriorated and delaminated concrete. Sounding shall be used to locate delaminated areas. Care shall be exercised not to damage areas of sound concrete or reinforcing steel during concrete removal operations. Unless specifically *directed by the Engineer*, depth of removal shall not exceed 6 inches. Concrete removal shall be in accordance with a sequence approved by the Engineer.

Concrete removal shall be accomplished by chipping with hand picks, chisels or light duty pneumatic or electric chipping hammers (not to exceed 15 lbs.). If sound concrete is encountered before existing reinforcing steel is exposed, the surface shall be prepared and repaired without further removal of the concrete. When corroded reinforcing steel is exposed, concrete removal shall continue until there is a minimum 3/4 inch clearance around the exposed, corroded reinforcing bar. 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 3/4 inch to prevent featheredging unless otherwise approved by the Engineer.

After all deteriorated concrete has been removed; the repair surface to receive concrete patching 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.

- B. Steel Reinforcement.** All corroded reinforcing steel exposed during concrete removal shall have corrosion products removed by abrasive grit blasting or wire brush whichever is more appropriate. Furnish for replacement, as directed by the Engineer, additional linear feet of steel reinforcing bars ½” diameter by 20-foot lengths. Place these bars in areas deemed by the Engineer to require additional reinforcement. Field cutting and bending is permitted. Deliver unused bars to the nearest County Maintenance Barn. Payment will be made in accordance with Section 602.

Reinforcing steel displaying deep pitting or loss of more than 20 percent of cross-sectional area shall be removed and replaced. Such bars shall be placed in accordance with the recommendations of ACI 506R, Sections 5.4 and 5.5. In particular, bars shall not be bundled in lapped splices, but shall be placed such that the minimum spacing around each bar is three times the maximum aggregate size to allow for proper encapsulation with concrete patching.

Intersecting reinforcing bars shall be tightly secured to each other using tie wire and adequately supported to minimize movement during concrete placement.

Welded wire fabric (WWF) shall be provided as shown on the attached sketches and at each repair area larger than 1 square foot if the depth of the repair exceeds 3 inches from the original dimension of the repaired member. Sheets of adjoining WWF shall be lapped by at least one and one-half spaces at all intersections, in both directions, and be securely fastened. WWF fabric shall be supported no closer than ½ inch to the prepared concrete surface and shall have a minimum concrete cover of 1.5 inches.

WWF shall be fastened to preset anchors on a grid not more than 12 inches square. Large knots of tie wire which could result in sand pockets and voids during patching shall be avoided.

- C. Hook Fasteners.** Hook fasteners shall be positioned at the spacing as stated above or as directed by the Engineer. Any given area shall have a minimum of four anchors. The WWF shall not move or deform excessively during concrete patching. Maximum hook fastener spacing shall not exceed 2 feet on a grid pattern over the entire repair area.

Hook fasteners shall be of commercial grade galvanized steel with a minimum diameter of 3/16”. They may be mechanically set or grouted, as approved by the Engineer.

The Department will randomly select hook fasteners to be tested to verify pullout force is sufficient. If any anchors fail to meet the minimum acceptable pullout value, corrective measures shall be taken by the Contractor and further testing will be conducted.

- D. Concrete Patching.** Place and finish the new concrete for the patching area in accordance with the manufacturer's recommendations, as shown on the attached detail drawings, or as directed by the Engineer. The Engineer shall approve the Contractor's method of placing and consolidating the concrete prior to the beginning of this operation.
- E. Curing.** On completion of finishing operation, patching concrete shall immediately be prevented from drying out and cracking by fogging, wetting, and/or any appropriate method approved by the Engineer. Curing shall continue for duration recommended by the product manufacturer.

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. Quantities given are approximate. The quantity for "Concrete Patching Repair" shall be bid with the contingency that quantities may be increased, decreased, or eliminated by the Engineer. Dispose of all removed material entirely away from the job site as approved by the Engineer. This work is incidental to the contract unit price for "Concrete Patching Repair".

#### **IV. MEASUREMENT**

- A. Concrete Patching.** The Department will measure the quantity per square feet of each area restored.
- B. Steel Reinforcement.** See Section 602.
- C. Welded Wire Fabric & Hook Fasteners.** Welded Wire Fabric and Hook Fasteners will not be measured for payment, but shall be considered incidental to "Concrete Patching Repair".

#### **V. PAYMENT**

- A. Concrete Patching Repair.** Payment at the contract unit price per square feet is full compensation for the following: (1) Furnish all labor, materials, tools, equipment; (2) preparation of specified bents including removing and disposing of specified existing materials; (3) place, finish and cure new concrete patches; and (4) all incidentals necessary to complete the work as specified by this note and as shown on the attached detail drawings.
- B. Steel Reinforcement.** See Section 602.

The Department will consider payment as full compensation for all work required by these notes and detail drawings.

**SPECIAL NOTE FOR CONTRACT COMPLETION DATE AND LIQUIDATED DAMAGES ON BRIDGE REPAIR CONTRACTS**

**I. COMPLETION DATE.** The Contractor has the option of selecting the starting date for this Contract. Once selected, notify the Department in writing of the date selected at least two weeks prior to beginning work. All work is to be completed by November 15, 2020. An allotted number of Calendar days are assigned to each structure in this contract as shown below.

<u>STRUCTURE</u>	<u>NO. OF CALENDAR DAYS</u>	<u>COMPLETION DATE</u>
099B00057N	30	November 15, 2020
099B00031N	30	November 15, 2020
099B00009L	30	November 15, 2020
099B00049N	30	November 15, 2020
119B00057N	30	November 15, 2020

Contrary to Section 108.07.02, the Engineer will begin charging calendar days for a structure on the day the Contractor starts work or sets up traffic control on that particular structure.

**II. LIQUIDATED DAMAGES.** Liquidated damages will be assessed the Contractor in accordance with the Transportation Cabinet, Department of Highway’s 2019 Standard Specifications for Road and Bridge Construction, Section 108.09, when either the allotted number of calendar days or the November 15, 2020 date is exceeded.

Contrary to the Standard Specifications, liquidated damages will be assessed the Contractor during the months of December, January, February and March when the contract time has expired on any individual bridge or bridges. Contract time will be charged during these months.

All construction must be completed in accordance with the weather limitations specified in Section 606 and/or Section 601 as applicable. No extension of Contract time will be granted due to inclement weather or temperature limitations that occur due to starting work on the Contract or a structure late in the construction season.



## **SPECIAL NOTE FOR TRAFFIC CONTROL ON BRIDGE REPAIR CONTRACTS**

### **I. TRAFFIC CONTROL GENERAL**

Except as provided herein, traffic shall be maintained in accordance with the 2019 Standard Specifications, Section 112. 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 the work and maintained in like new condition until completion of the work.

### **II. TRAFFIC COORDINATOR**

Furnish a Traffic Coordinator as per Section 112. The Traffic Coordinator 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 Traffic Coordinator 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 Traffic Coordinator can be contacted at all times.

### **III. SIGNS**

Contrary to Section 112.04.02, only long term signs (sign intended to be continuously in place for more than 3 days) will be measured for payment; short term signs (signs intended to be left in place for 3 days or less) will not be measured for payment but will be incidental to Maintain and Control Traffic.

The contractor is to install warning signs for wide loads in advance of the bridge under the direction of the Engineer. The Department will not measure installation, maintenance, or removal for payment, and will consider these incidentals to Maintain and Control Traffic.

### **IV. TEMPORARY PAVEMENT STRIPING**

Skip lines and/or solid lines through the length of the tapers for lane closures and other striping as directed by the Engineer shall be temporarily covered with 6" black removable tape. Permanent removal of all other pavement striping for traffic control shall be considered incidental to Maintain and Control Traffic. Temporary pavement striping shall be paid only once per course in accordance with Section 112.04.07. The Contractor shall replace any temporary striping that becomes damaged or fails to adhere to the pavement before dark on the day of the notification. Liquidated damages shall be assessed to the Contractor at a rate of \$500 per day for failing to replace temporary striping within this time limit.

### V. PROJECT PHASING & CONSTRUCTION PROCEDURES

For 099B00009L, the Contractor shall maintain one lane of traffic on the Parkway at all times in accordance with Standard Drawing No. TTC-120 and the attached detail drawings. The clear lane width required is:

<u>Structure</u>	<u>Clear Lane Width</u>
099B00057N	<u>13</u> feet

Parkway lane closures will not be permitted on these days:

- Memorial Day Weekend (Friday-Monday)
- Independence Day, (Friday-Sunday)
- Labor Day Weekend (Friday-Monday)

For 099B00057N, 099B00031N, and 119B00024N, maintain one lane of traffic during construction in accordance with Standard Drawing No. TTC-110 for lane closures, and the attached detail drawing. The minimum clear lane width required for each bridge is as follows:

099B00057N	11'-0"
099B00031N	11'-0"
119B00024N	12'-0"

For 099B00049N, the bridge shall be closed. Contractor shall request 30 day schedule at the Pre-Construction Conference for approval from the District.

### VI. TEMPORARY SIGNAL

For 099B00057N, 099B00031N, 099B00049N, and 119B00024N, provide, install, and maintain a temporary 2 phase, or multi phase traffic signal as indicated below. The Contractor must provide a 24-hour contact person and number available to maintain the temporary signals as needed.

099B00057N	multi-phase
099B00031N	multi-phase
119B00024N	2 phase

### VII. BARRIER WALL

Payment of the contract unit price per linear foot for "CONCRETE BARRIER WALL TYPE 9T" shall be full compensation for furnishing, installing, maintaining, adjusting alignment as needed, removing the barrier when no longer needed, and all incidental items necessary to complete the work.

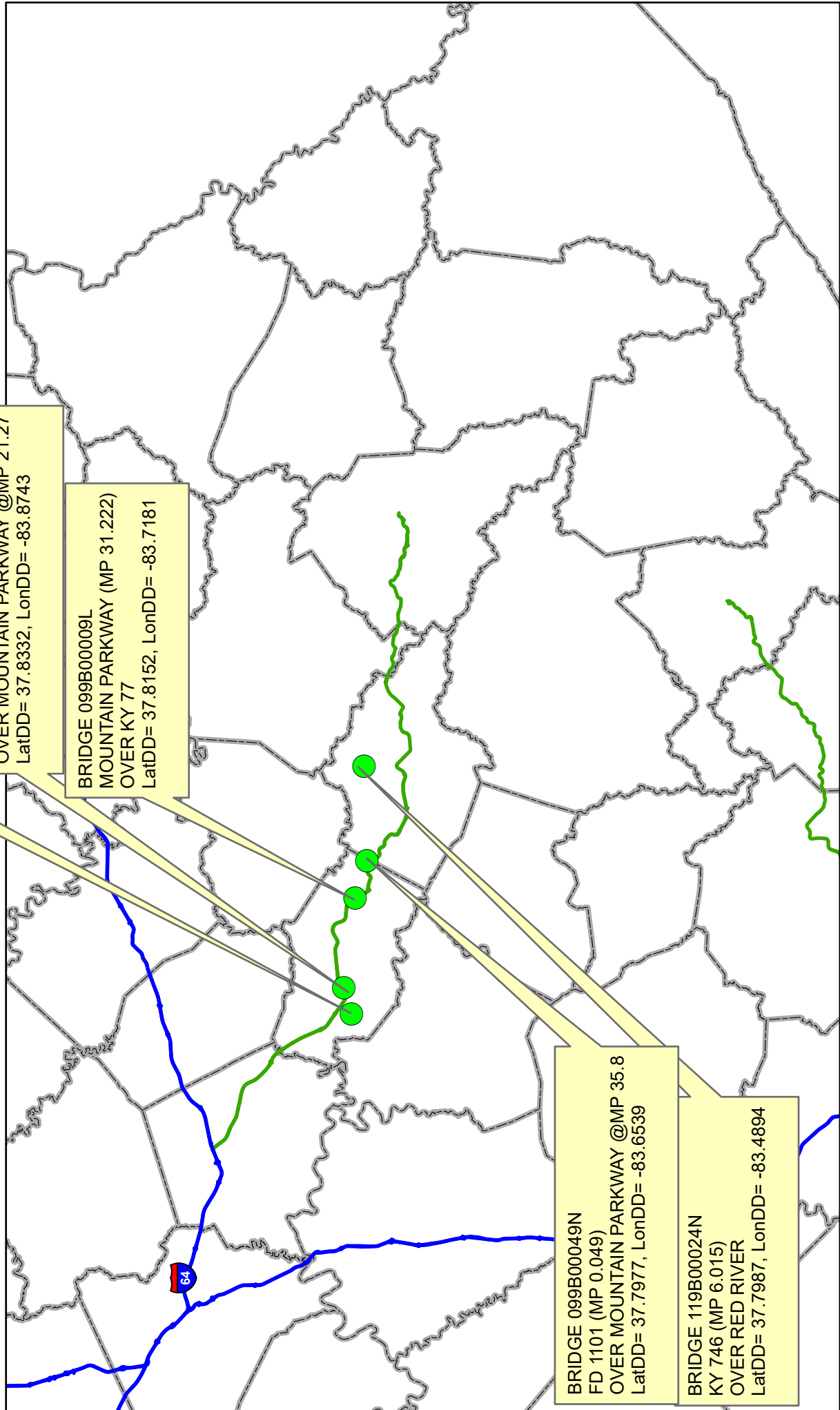
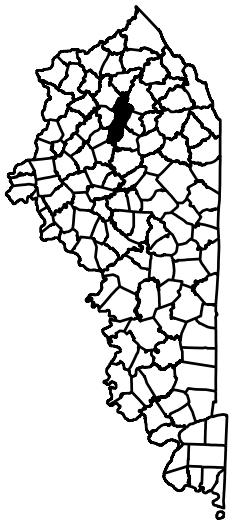
Provide one side mounted barrier wall delineator per each section of barrier. See Standard Drawing RBM-020 for types. No direct payment allowed for delineators.

## **VII. CRASH CUSHION / END TREATMENTS**

To the satisfaction of the Engineer extend Barrier wall out of the clear zone. If Barrier wall is not extended out of the clear zone to the satisfaction of the engineer provide crash cushions / end treatments for the barrier wall.

Provide Barrier end treatments that comply with NCHRP 350 LEVEL 3.

# DISTRICT 10



# MATERIAL SUMMARY

**CONTRACT ID: 192918**

**121GR19M075-FE02**

**MB09900571901**

KY 1057 (MP 2.537). BRIDGE OVER HARDWICK CREEK. BRIDGE DECK RESTORATION & WATERPROOFING.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0005	02562	TEMPORARY SIGNS	149.00	SQFT
0010	02650	MAINTAIN & CONTROL TRAFFIC - APPLIES TO 099B00057N	1.00	LS
0015	02653	LANE CLOSURE	2.00	EACH
0020	03299	ARMORED EDGE FOR CONCRETE	48.00	LF
0025	03300	ELIMINATE TRANSVERSE JOINT	56.00	LF
0030	03304	BRIDGE OVERLAY APPROACH PAVEMENT	533.00	SQYD
0035	04934	TEMP SIGNAL MULTI PHASE	1.00	EACH
0040	06514	PAVE STRIPING-PERM PAINT-4 IN	628.00	LF
0045	06549	PAVE STRIPING-TEMP REM TAPE-B	500.00	LF
0050	06550	PAVE STRIPING-TEMP REM TAPE-W	1,000.00	LF
0055	06551	PAVE STRIPING-TEMP REM TAPE-Y	2,000.00	LF
0060	08150	STEEL REINFORCEMENT	868.40	LB
0065	08504	EPOXY SAND SLURRY	97.10	SQYD
0070	08534	CONCRETE OVERLAY-LATEX	12.70	CUYD
0075	08549	BLAST CLEANING	401.00	SQYD
0080	08551	MACHINE PREP OF SLAB	304.00	SQYD
0085	22146EN	CONCRETE PATCHING REPAIR - PIER CAP ENDS ONLY (10 SQFT EA)	40.00	SQFT
0090	24094EC	PARTIAL DEPTH PATCHING	8.40	CUYD
0095	02569	DEMOBILIZATION	1.00	LS

# MATERIAL SUMMARY

**CONTRACT ID: 192918**

**121GR19M075-FE02**

**MB09911011901**

FD 1101 (MP 0.049). BRIDGE OVER MOUNTAIN PKWY. BRIDGE DECK RESTORATION & WATERPROOFING.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0305	02562	TEMPORARY SIGNS	149.00	SQFT
0310	02650	MAINTAIN & CONTROL TRAFFIC - APPLIES TO 099B00049N	1.00	LS
0315	03299	ARMORED EDGE FOR CONCRETE	39.60	LF
0320	03300	ELIMINATE TRANSVERSE JOINT	45.60	LF
0325	03304	BRIDGE OVERLAY APPROACH PAVEMENT	156.00	SQYD
0330	04933	TEMP SIGNAL 2 PHASE	1.00	EACH
0335	06549	PAVE STRIPING-TEMP REM TAPE-B	500.00	LF
0340	06550	PAVE STRIPING-TEMP REM TAPE-W	1,000.00	LF
0345	06551	PAVE STRIPING-TEMP REM TAPE-Y	2,000.00	LF
0350	08150	STEEL REINFORCEMENT	267.20	LB
0355	08504	EPOXY SAND SLURRY	163.70	SQYD
0360	08534	CONCRETE OVERLAY-LATEX	14.30	CUYD
0365	08549	BLAST CLEANING	507.00	SQYD
0370	08551	MACHINE PREP OF SLAB	344.00	SQYD
0375	24094EC	PARTIAL DEPTH PATCHING	9.50	CUYD
0380	02569	DEMOBILIZATION	1.00	LS

# MATERIAL SUMMARY

**CONTRACT ID: 192918**

**121GR19M075-FE02**

**MB09912051901**

CR 1205 (MP 1.029). BRIDGE OVER MOUNTAIN PKWY. BRIDGE DECK RESTORATION & WATERPROOFING.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0100	02562	TEMPORARY SIGNS	149.00	SQFT
0105	02650	MAINTAIN & CONTROL TRAFFIC - APPLIES TO 099B00031N	1.00	LS
0110	02653	LANE CLOSURE	2.00	EACH
0115	03298	EXPAN JOINT REPLACE 4 IN	48.40	LF
0120	03299	ARMORED EDGE FOR CONCRETE	48.40	LF
0125	03304	BRIDGE OVERLAY APPROACH PAVEMENT	533.00	SQYD
0130	04934	TEMP SIGNAL MULTI PHASE	1.00	EACH
0135	06549	PAVE STRIPING-TEMP REM TAPE-B	500.00	LF
0140	06550	PAVE STRIPING-TEMP REM TAPE-W	1,000.00	LF
0145	06551	PAVE STRIPING-TEMP REM TAPE-Y	2,000.00	LF
0150	08150	STEEL REINFORCEMENT	267.20	LB
0155	08504	EPOXY SAND SLURRY	160.00	SQYD
0160	08534	CONCRETE OVERLAY-LATEX	24.00	CUYD
0165	08549	BLAST CLEANING	736.00	SQYD
0170	08551	MACHINE PREP OF SLAB	576.00	SQYD
0175	24094EC	PARTIAL DEPTH PATCHING	16.00	CUYD
0180	02569	DEMOBILIZATION	1.00	LS

# MATERIAL SUMMARY

**CONTRACT ID: 192918**

**121GR19M075-FE02**

**MB09990001901**

MOUNTAIN PARKWAY (MP 31.222). BRIDGE OVER KY 77. BRIDGE DECK RESTORATION & WATERPROOFING.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0185	02562	TEMPORARY SIGNS	149.00	SQFT
0190	02650	MAINTAIN & CONTROL TRAFFIC - APPLIES TO 099B00009L	1.00	LS
0195	02653	LANE CLOSURE	2.00	EACH
0200	02671	PORTABLE CHANGEABLE MESSAGE SIGN	1.00	EACH
0205	02775	ARROW PANEL	1.00	EACH
0210	02898	RELOCATE CRASH CUSHION	1.00	EACH
0215	02900	INSTALL TEMP CRASH CUSHION	1.00	EACH
0220	03171	CONCRETE BARRIER WALL TYPE 9T	600.00	LF
0225	03299	ARMORED EDGE FOR CONCRETE	62.10	LF
0230	03300	ELIMINATE TRANSVERSE JOINT	68.20	LF
0235	03304	BRIDGE OVERLAY APPROACH PAVEMENT	333.00	SQYD
0240	06514	PAVE STRIPING-PERM PAINT-4 IN	604.00	LF
0245	06549	PAVE STRIPING-TEMP REM TAPE-B	500.00	LF
0250	06550	PAVE STRIPING-TEMP REM TAPE-W	2,000.00	LF
0255	06551	PAVE STRIPING-TEMP REM TAPE-Y	2,000.00	LF
0260	08150	STEEL REINFORCEMENT	868.40	LB
0265	08504	EPOXY SAND SLURRY	117.80	SQYD
0270	08510	REM EPOXY BIT FOREIGN OVERLAY	530.00	SQYD
0275	08534	CONCRETE OVERLAY-LATEX	29.40	CUYD
0280	08549	BLAST CLEANING	648.00	SQYD
0285	22146EN	CONCRETE PATCHING REPAIR	400.00	SQFT
0290	24094EC	PARTIAL DEPTH PATCHING	14.70	CUYD
0295	02569	DEMOBILIZATION	1.00	LS
0300	02003	RELOCATE TEMP CONC BARRIER	600.00	LF



# MATERIAL SUMMARY

**CONTRACT ID: 192918**

**121GR19M075-FE02**

**MB11907461901**

KY 746 (MP 6.015). BRIDGE OVER RED RIVER. BRIDGE DECK RESTORATION & WATERPROOFING.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0385	02562	TEMPORARY SIGNS	149.00	SQFT
0390	02650	MAINTAIN & CONTROL TRAFFIC - APPLIES TO 119B00024N	1.00	LS
0395	02653	LANE CLOSURE	2.00	EACH
0400	03299	ARMORED EDGE FOR CONCRETE	60.00	LF
0405	03300	ELIMINATE TRANSVERSE JOINT	68.00	LF
0410	03304	BRIDGE OVERLAY APPROACH PAVEMENT	289.00	SQYD
0415	04933	TEMP SIGNAL 2 PHASE	1.00	EACH
0420	06549	PAVE STRIPING-TEMP REM TAPE-B	500.00	LF
0425	06550	PAVE STRIPING-TEMP REM TAPE-W	1,000.00	LF
0430	06551	PAVE STRIPING-TEMP REM TAPE-Y	2,000.00	LF
0435	08150	STEEL REINFORCEMENT	868.40	LB
0440	08504	EPOXY SAND SLURRY	122.70	SQYD
0445	08510	REM EPOXY BIT FOREIGN OVERLAY	416.00	SQYD
0450	08534	CONCRETE OVERLAY-LATEX	23.10	CUYD
0455	08549	BLAST CLEANING	539.00	SQYD
0460	22146EN	CONCRETE PATCHING REPAIR - PIER CAP ENDS ONLY (10SQFT EA)	40.00	SQFT
0465	24094EC	PARTIAL DEPTH PATCHING	11.60	CUYD
0470	02569	DEMOBILIZATION	1.00	LS

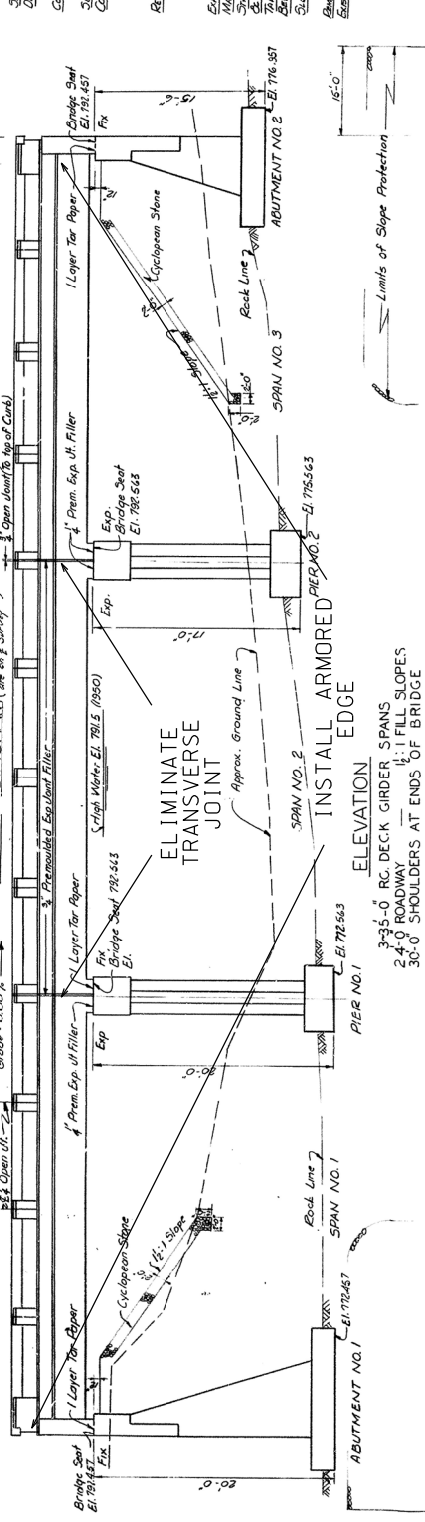
099B00057N

Note: Contractor includes construction cost and one to be maintained with 1946-47 in place.

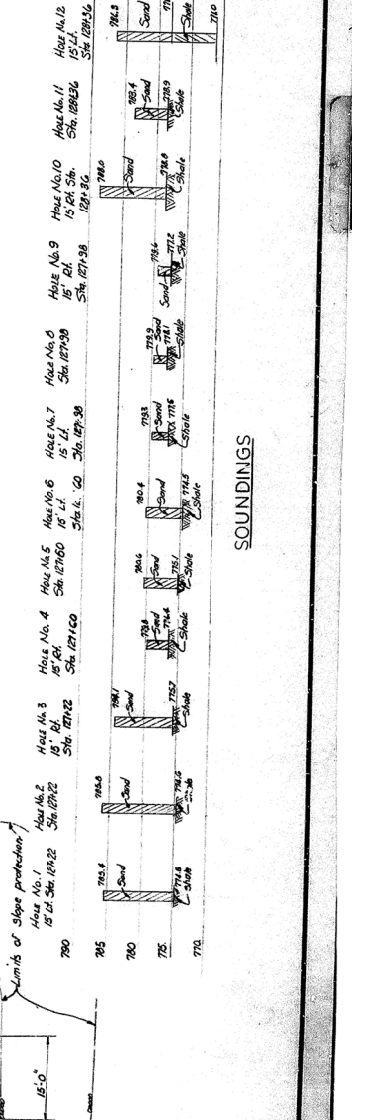
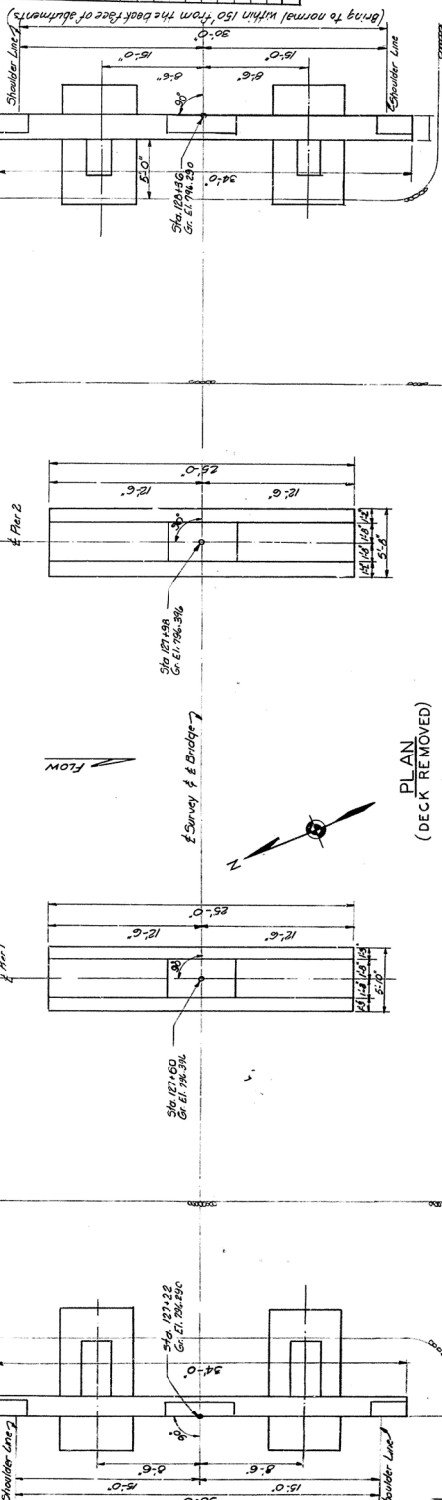
**GENERAL NOTE**

**SPECIFICATIONS:** Kentucky Department of Highways, 1946 Standard with Amendments, Bridge designed for 14-44 Loading as specified in 1946H specifications, 1943 Edition.  
**DESIGN LOAD:** Class X concrete to be used throughout except in headwall, Class D' concrete to be used in headwall.  
**SUBSTRUCTURES:** Concrete, Class X or Class D' of bridge superstructure above construction joint of beams with underside of floor slab shall be made with normal weight concrete to which has been added of the mass approved air content as specified by Amendment No. 6-B, Article 4-1-9 of the Specifications for Structures.  
**REINFORCEMENT:** Dimensions shown from the face of beams are clear distances unless otherwise shown. Dimensions for bar spacing are measured to center of bars. The deformation of all bars shall conform to ASTM Specifications A 305-49.  
**EMBEDMENT:** Minimum embedment shall be as follows:  
 - **Steel Bars:** Class X concrete.  
 - **Steel Bars:** Class D' concrete.  
**THE PAIR:** To be commercial grade for paper or roofing felt approximately 1/4" thick. All exposed edges shall be finished unless otherwise noted.  
**STONE STRUCTURES:** To be cycloped stone without mortar in accordance with Div. 7, Section 6-1 of the Specifications for Structures.  
 The existing bridge approach 30'-0" downstream from the new bridge shall be maintained consisting of one 5'-0" sheet piling with the new bridge to be removed in accordance with the plans. The side slopes shall be removed without damage. Trusses and floor beams may be removed in any manner desired, then taken apart or cut up lengths which can be readily transported. Sill stones shall be removed to stream bed.  
 The cast of materials shall be removed to stream bed.  
 The cast of all work resulting in the bridge clearing erosion, the cost of removal, included in the lump sum bid for the retaining existing structure.

To Clay City  
 To Valley Line Mill

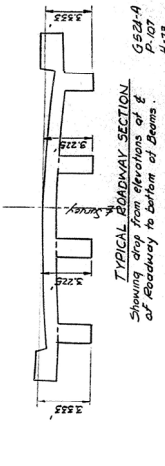


ELIMINATE TRANSVERSE JOINT  
 INSTALL ARMORED EDGE ELEVATION  
 33'-0" RC DECK GIRDER SPANS  
 24'-0" ROADWAY (1:1 FILL SLOPES)  
 30'-0" SHOULDERS AT ENDS OF BRIDGE



**ESTIMATE OF QUANTITIES**

ITEM	Quantity	Unit	Price	Total	Remarks		
1	38.1	cu yd	1.50	57.15	Concrete for abutment		
2	40.41	cu yd	3.00	121.23	Concrete for pier		
3	29.9	cu yd	2.00	59.80	Concrete for deck		
4	17.0	cu yd	1.00	17.00	Concrete for approach		
5	34.60	cu yd	2.50	86.50	Concrete for abutment		
6	17.50	cu yd	2.00	35.00	Concrete for pier		
7	17.50	cu yd	1.75	30.63	Concrete for deck		
8	17.50	cu yd	1.75	30.63	Concrete for approach		
9	17.50	cu yd	1.75	30.63	Concrete for abutment		
10	17.50	cu yd	1.75	30.63	Concrete for pier		
11	17.50	cu yd	1.75	30.63	Concrete for deck		
12	17.50	cu yd	1.75	30.63	Concrete for approach		
13	17.50	cu yd	1.75	30.63	Concrete for abutment		
14	17.50	cu yd	1.75	30.63	Concrete for pier		
15	17.50	cu yd	1.75	30.63	Concrete for deck		
16	17.50	cu yd	1.75	30.63	Concrete for approach		
17	17.50	cu yd	1.75	30.63	Concrete for abutment		
18	17.50	cu yd	1.75	30.63	Concrete for pier		
19	17.50	cu yd	1.75	30.63	Concrete for deck		
20	17.50	cu yd	1.75	30.63	Concrete for approach		
21	17.50	cu yd	1.75	30.63	Concrete for abutment		
22	17.50	cu yd	1.75	30.63	Concrete for pier		
23	17.50	cu yd	1.75	30.63	Concrete for deck		
24	17.50	cu yd	1.75	30.63	Concrete for approach		
25	17.50	cu yd	1.75	30.63	Concrete for abutment		
26	17.50	cu yd	1.75	30.63	Concrete for pier		
27	17.50	cu yd	1.75	30.63	Concrete for deck		
28	17.50	cu yd	1.75	30.63	Concrete for approach		
29	17.50	cu yd	1.75	30.63	Concrete for abutment		
30	17.50	cu yd	1.75	30.63	Concrete for pier		
31	17.50	cu yd	1.75	30.63	Concrete for deck		
32	17.50	cu yd	1.75	30.63	Concrete for approach		
33	17.50	cu yd	1.75	30.63	Concrete for abutment		
34	17.50	cu yd	1.75	30.63	Concrete for pier		
35	17.50	cu yd	1.75	30.63	Concrete for deck		
36	17.50	cu yd	1.75	30.63	Concrete for approach		
37	17.50	cu yd	1.75	30.63	Concrete for abutment		
38	17.50	cu yd	1.75	30.63	Concrete for pier		
39	17.50	cu yd	1.75	30.63	Concrete for deck		
40	17.50	cu yd	1.75	30.63	Concrete for approach		
41	17.50	cu yd	1.75	30.63	Concrete for abutment		
42	17.50	cu yd	1.75	30.63	Concrete for pier		
43	17.50	cu yd	1.75	30.63	Concrete for deck		
44	17.50	cu yd	1.75	30.63	Concrete for approach		
45	17.50	cu yd	1.75	30.63	Concrete for abutment		
46	17.50	cu yd	1.75	30.63	Concrete for pier		
47	17.50	cu yd	1.75	30.63	Concrete for deck		
48	17.50	cu yd	1.75	30.63	Concrete for approach		
49	17.50	cu yd	1.75	30.63	Concrete for abutment		
50	17.50	cu yd	1.75	30.63	Concrete for pier		
51	17.50	cu yd	1.75	30.63	Concrete for deck		
52	17.50	cu yd	1.75	30.63	Concrete for approach		
53	17.50	cu yd	1.75	30.63	Concrete for abutment		
54	17.50	cu yd	1.75	30.63	Concrete for pier		
55	17.50	cu yd	1.75	30.63	Concrete for deck		
56	17.50	cu yd	1.75	30.63	Concrete for approach		
57	17.50	cu yd	1.75	30.63	Concrete for abutment		
58	17.50	cu yd	1.75	30.63	Concrete for pier		
59	17.50	cu yd	1.75	30.63	Concrete for deck		
60	17.50	cu yd	1.75	30.63	Concrete for approach		
61	17.50	cu yd	1.75	30.63	Concrete for abutment		
62	17.50	cu yd	1.75	30.63	Concrete for pier		
63	17.50	cu yd	1.75	30.63	Concrete for deck		
64	17.50	cu yd	1.75	30.63	Concrete for approach		
65	17.50	cu yd	1.75	30.63	Concrete for abutment		
66	17.50	cu yd	1.75	30.63	Concrete for pier		
67	17.50	cu yd	1.75	30.63	Concrete for deck		
68	17.50	cu yd	1.75	30.63	Concrete for approach		
69	17.50	cu yd	1.75	30.63	Concrete for abutment		
70	17.50	cu yd	1.75	30.63	Concrete for pier		
71	17.50	cu yd	1.75	30.63	Concrete for deck		
72	17.50	cu yd	1.75	30.63	Concrete for approach		
73	17.50	cu yd	1.75	30.63	Concrete for abutment		
74	17.50	cu yd	1.75	30.63	Concrete for pier		
75	17.50	cu yd	1.75	30.63	Concrete for deck		
76	17.50	cu yd	1.75	30.63	Concrete for approach		
77	17.50	cu yd	1.75	30.63	Concrete for abutment		
78	17.50	cu yd	1.75	30.63	Concrete for pier		
79	17.50	cu yd	1.75	30.63	Concrete for deck		
80	17.50	cu yd	1.75	30.63	Concrete for approach		
81	17.50	cu yd	1.75	30.63	Concrete for abutment		
82	17.50	cu yd	1.75	30.63	Concrete for pier		
83	17.50	cu yd	1.75	30.63	Concrete for deck		
84	17.50	cu yd	1.75	30.63	Concrete for approach		
85	17.50	cu yd	1.75	30.63	Concrete for abutment		
86	17.50	cu yd	1.75	30.63	Concrete for pier		
87	17.50	cu yd	1.75	30.63	Concrete for deck		
88	17.50	cu yd	1.75	30.63	Concrete for approach		
89	17.50	cu yd	1.75	30.63	Concrete for abutment		
90	17.50	cu yd	1.75	30.63	Concrete for pier		
91	17.50	cu yd	1.75	30.63	Concrete for deck		
92	17.50	cu yd	1.75	30.63	Concrete for approach		
93	17.50	cu yd	1.75	30.63	Concrete for abutment		
94	17.50	cu yd	1.75	30.63	Concrete for pier		
95	17.50	cu yd	1.75	30.63	Concrete for deck		
96	17.50	cu yd	1.75	30.63	Concrete for approach		
97	17.50	cu yd	1.75	30.63	Concrete for abutment		
98	17.50	cu yd	1.75	30.63	Concrete for pier		
99	17.50	cu yd	1.75	30.63	Concrete for deck		
100	17.50	cu yd	1.75	30.63	Concrete for approach		
Lump Sum				350			
Totals	3447	cu yd	6.1	54416	660	95	350

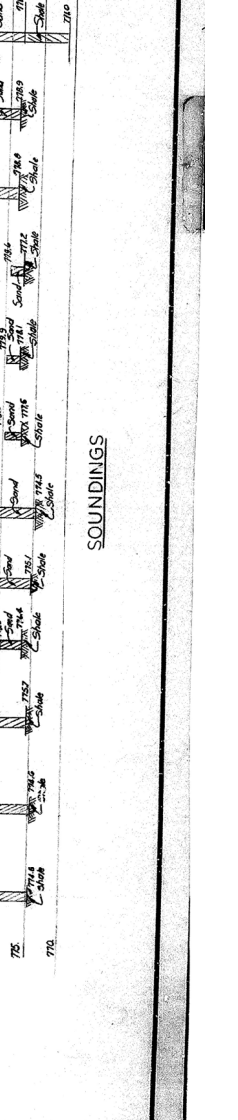


**BILL OF INCIDENTAL MATERIAL**

ITEM	No. of Pieces	Size	Location
1	2	3/4" x 2 1/2"	Bottom Joins
2	4	1 1/2" x 4"	Between Joins over Piers
3	4	1 1/2" x 4"	Along Piers
4	1	1 1/2" x 2 1/2"	Top of Pier 2
5	1	1 1/2" x 2 1/2"	Top of Pier 3
6	1	1 1/2" x 2 1/2"	Top of Pier 4
7	2	3/4" x 2 1/2"	See Sit. Dep. 5.57
8	12	See Sit. Dep. 6.24	4 Piers Span

Note: Quantities shown in the Bill of Incidental Material are approximate and the contractor is responsible for furnishing enough material to complete the work in accordance with plans and Specifications.

**SOUNDINGS**



COMMONWEALTH OF KENTUCKY  
 DEPARTMENT OF HIGHWAYS  
 FRANKFORT  
 COUNTY OF  
 POWELL  
 HARDWICK CREEK  
 BRIDGE NUMBER  
 STATION 127.79  
 ROAD PROJECT NO. 577(1)  
 SHEET NO. 577(1)  
 SHEET 1 OF 3

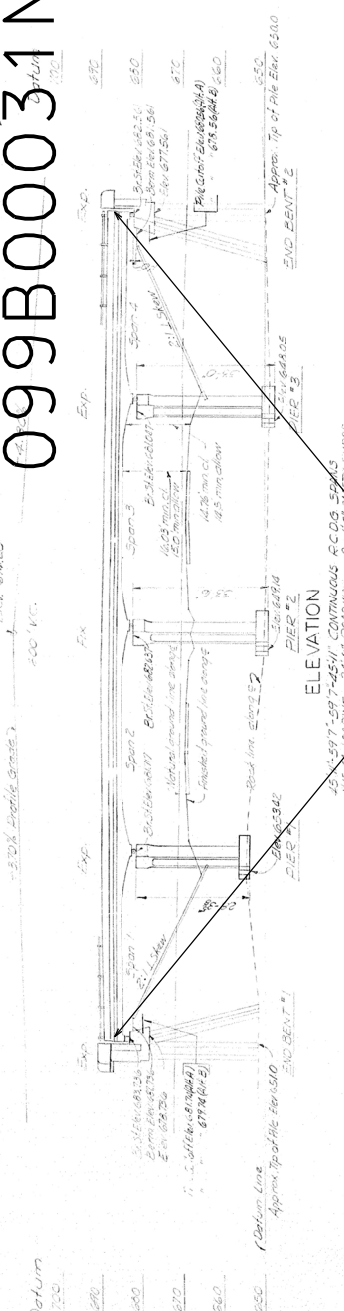
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# 099B00031 N

## GENERAL NOTES

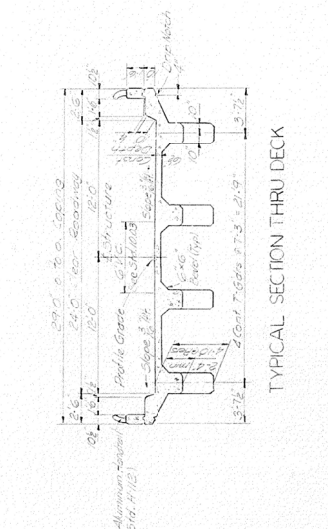
Construction Kentucky, Department of Highways, 186 Standard Building, Lexington, KY 40503, is the design engineer for this project. All work shall conform to the specifications of the Department of Highways, 186 Standard Building, Lexington, KY 40503. Class A concrete to be used throughout (except Class B to be used in piers). Reinforcement in all concrete shall be #4 bars, minimum, spaced at 18" on center. Dimensions shown from the centerline of the roadway. All construction joints shall be carefully treated. The contractor shall furnish sufficient water capacity to place the concrete in accordance with the specifications. The contractor shall be responsible for the curing of the concrete. The contractor shall be responsible for the curing of the concrete. The contractor shall be responsible for the curing of the concrete.



### ELEVATION INSTALL 4" NEOPRENE STRIP SEAL & ARMORED EDGE



ITEM	DESCRIPTION	QUANTITY	UNIT	ESTIMATE
1	CONCRETE	139	CU Yds	2002
2	STEEL	743	Lbs	2082
3	WOOD	482	LF	2082
4	PAINT	349	Gal	2082
5	LABOR	456.0	Hrs	2082
6	EQUIPMENT	1	Hour	2082
7	TRUCKS	1	Hour	2082
8	TOTAL	2082		2082



DESIGNED BY: [Signature]  
 CHECKED BY: [Signature]  
 DATE: [Date]  
 PROJECT NO. 14621  
 SHEET NO. 1  
 TOTAL SHEETS: 1

COMMONWEALTH OF KENTUCKY  
 DEPARTMENT OF HIGHWAYS  
 COUNTY OF FRANKFORT  
 POWELL  
 MAJOR ROUTE FOR EASTERN KENTUCKY  
 WINCHESTER - PRESTONSBURG

STATION 113 + 62.09  
 PROJECT NO. 14621  
 SHEET NO. 1  
 TOTAL SHEETS: 1

**BILL OF INCIDENTAL MATERIAL**

ITEM	NO.	DESCRIPTION
1	1	INCIDENTAL MATERIAL

NOTE: Quantities shown in Bill of Incidental Material are approximate and subject to change. The contractor shall be responsible for furnishing enough material to complete the work according to plans and specs.

STD DWG  
 0-56/  
 1-11/  
 5-51/  
 2-01/  
 10-05/  
 10-03





099B00009L

1. This drawing is a part of the contract documents for the construction of the bridge over Kentucky Highway No. 100, near Prestonsburg, Kentucky. It is to be read in conjunction with the specifications and the contract documents.

2. The bridge is to be constructed of reinforced concrete and steel. The design is based on the following assumptions:

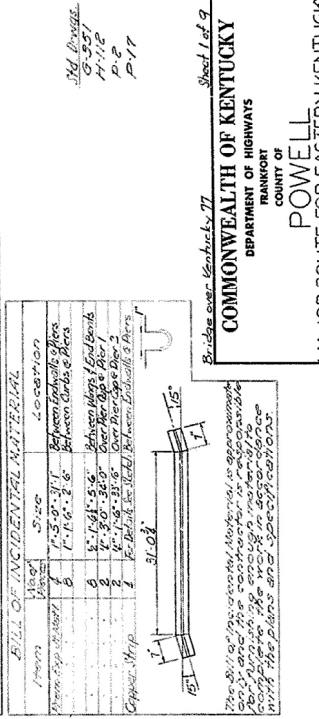
- a. The bridge is to be designed for a design load of HS20.
- b. The bridge is to be designed for a design wind speed of 75 mph.
- c. The bridge is to be designed for a design flood discharge of 10,000 cfs.
- d. The bridge is to be designed for a design seismicity of 0.15g.
- e. The bridge is to be designed for a design temperature range of 100°F.
- f. The bridge is to be designed for a design corrosion rate of 0.005 in./year.
- g. The bridge is to be designed for a design life of 75 years.
- h. The bridge is to be designed for a design maintenance cost of \$0.05 per sq. ft. per year.
- i. The bridge is to be designed for a design construction cost of \$100 per sq. ft.
- j. The bridge is to be designed for a design operation and maintenance cost of \$0.10 per sq. ft. per year.
- k. The bridge is to be designed for a design total cost of \$150 per sq. ft.

3. The bridge is to be constructed in accordance with the following specifications:

- a. Concrete shall be of the type specified in the specifications.
- b. Steel shall be of the type specified in the specifications.
- c. The bridge shall be constructed in accordance with the design shown on this drawing.
- d. The bridge shall be constructed in accordance with the design shown on the other drawings of this contract.
- e. The bridge shall be constructed in accordance with the design shown on the other drawings of this contract.
- f. The bridge shall be constructed in accordance with the design shown on the other drawings of this contract.
- g. The bridge shall be constructed in accordance with the design shown on the other drawings of this contract.
- h. The bridge shall be constructed in accordance with the design shown on the other drawings of this contract.
- i. The bridge shall be constructed in accordance with the design shown on the other drawings of this contract.
- j. The bridge shall be constructed in accordance with the design shown on the other drawings of this contract.

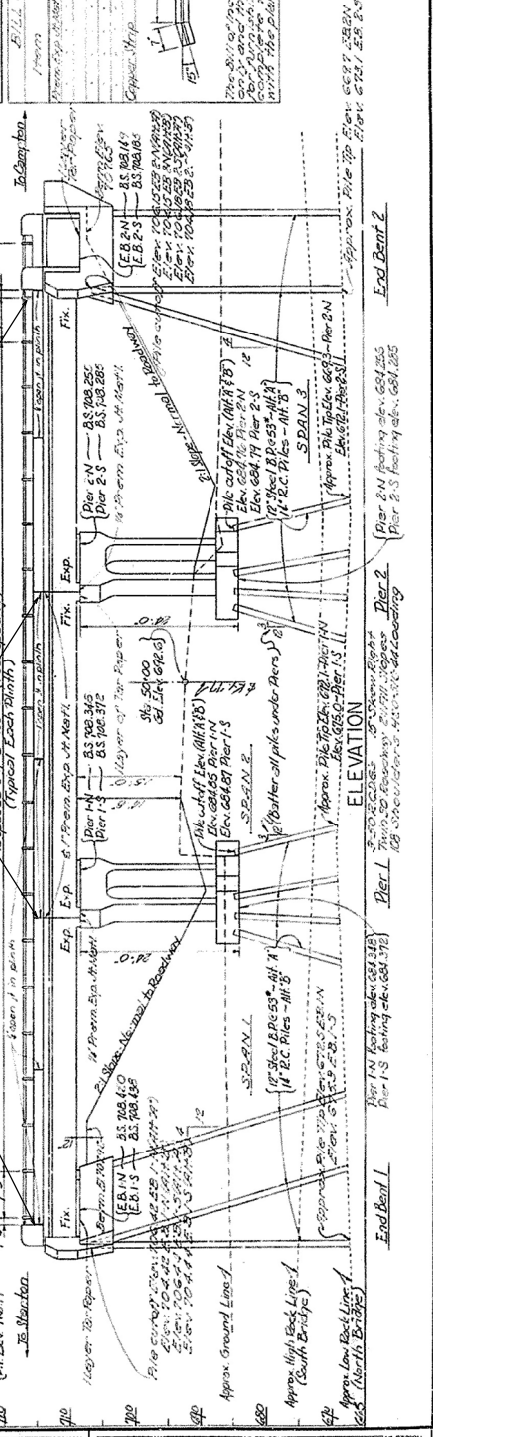
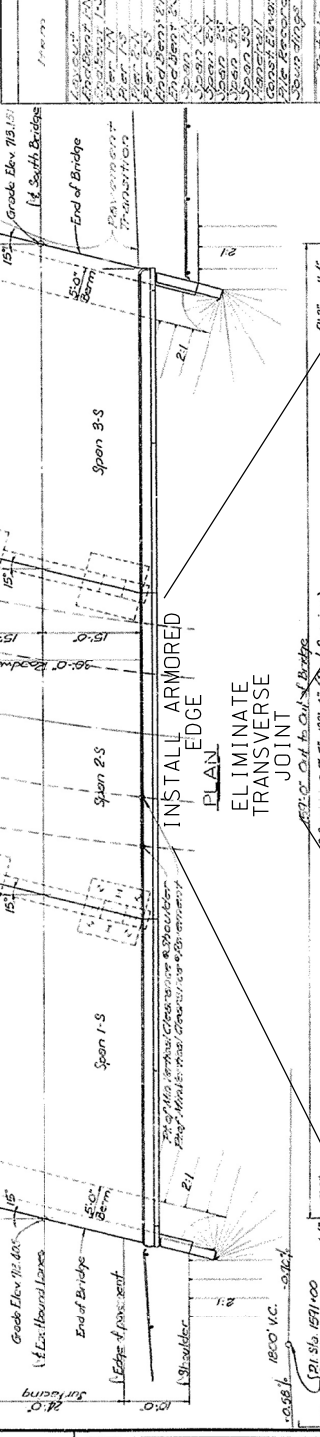
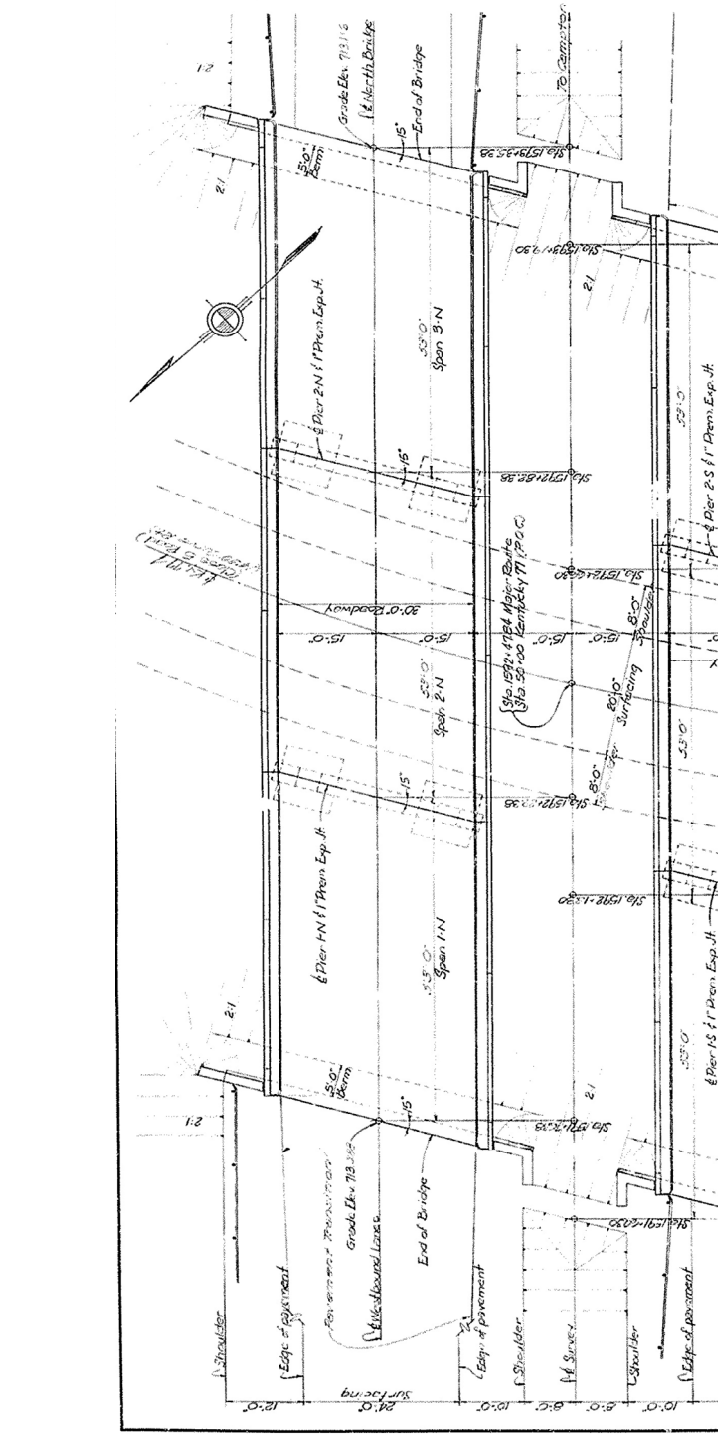
REFERENCE AND ESTIMATE OF QUANTITIES

Item	Quantity	Unit	Price	Total
1. Concrete	185	cu. yd.	1.13	209.05
2. Steel	120	tons	120.00	14400.00
3. Reinforcing Bars	15	tons	150.00	2250.00
4. Formwork	20	sq. ft.	20.00	400.00
5. Scaffolding	20	sq. ft.	20.00	400.00
6. Labor	100	man-hrs.	1.00	100.00
7. Transportation	100	man-hrs.	1.00	100.00
8. Other	100	man-hrs.	1.00	100.00
<b>Total</b>				<b>22159.05</b>

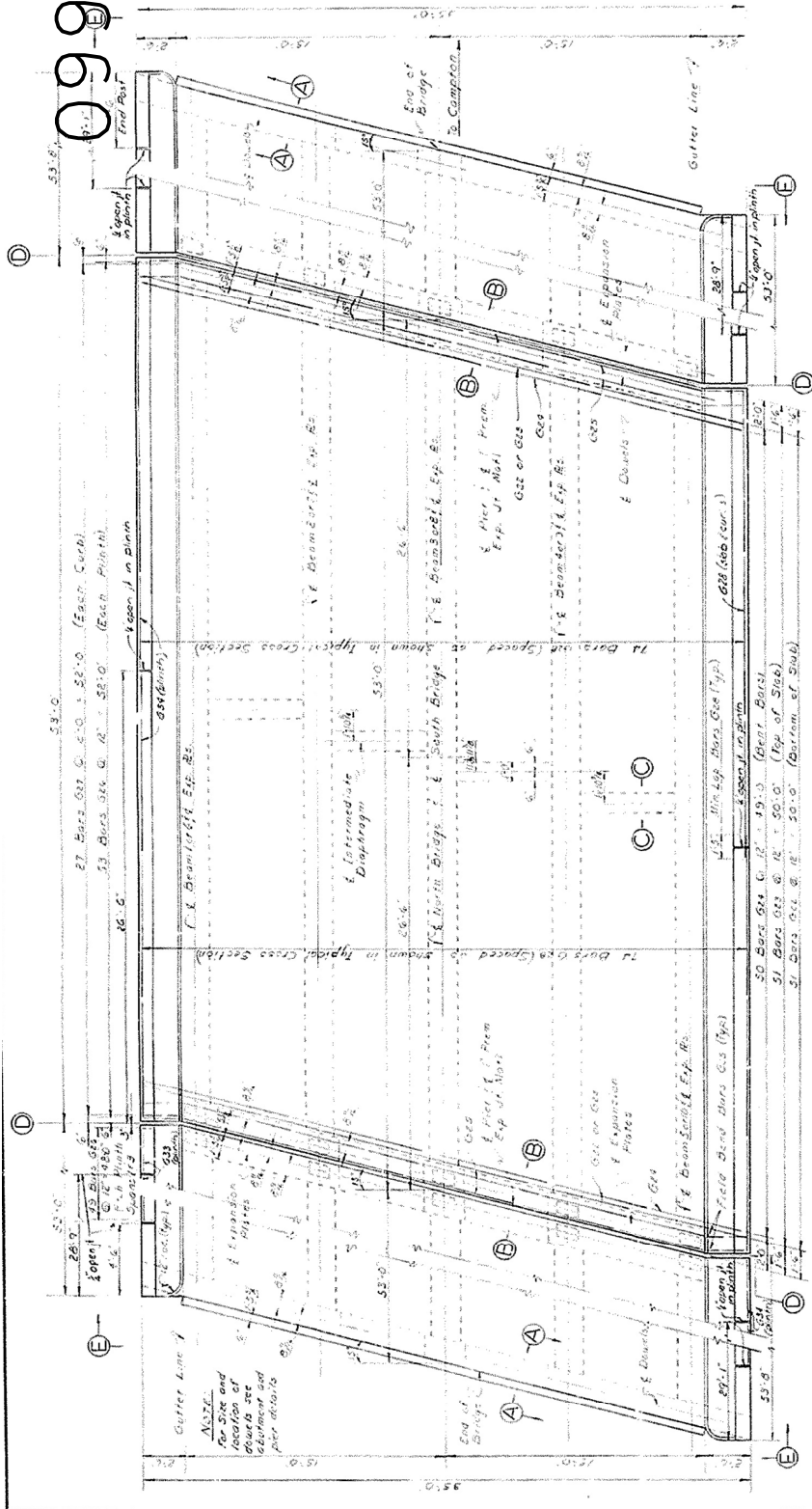


DETAIL OF INCIDENTAL MATERIAL

Item	Quantity	Unit	Price	Total
1. Bituminous	100	sq. ft.	1.00	100.00
2. Sand	100	cu. yd.	1.00	100.00
3. Gravel	100	cu. yd.	1.00	100.00
4. Cement	100	bags	1.00	100.00
5. Labor	100	man-hrs.	1.00	100.00
6. Transportation	100	man-hrs.	1.00	100.00
7. Other	100	man-hrs.	1.00	100.00
<b>Total</b>				<b>500.00</b>



# 099B0009L

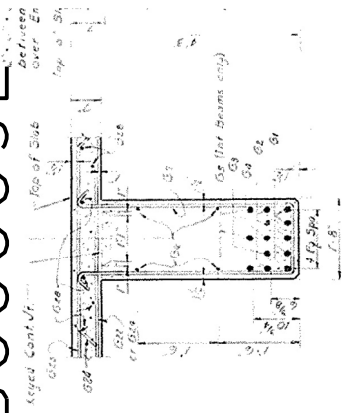


PART PLAN - SPAN 2-NON-2S

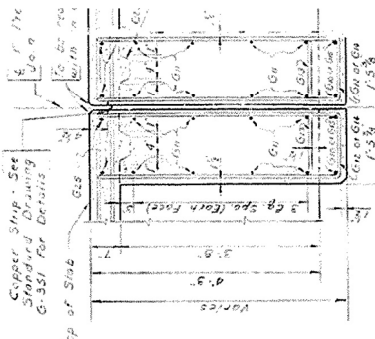
PART PLAN - SPAN 3-NON-3S

PART PLAN - SPAN 1-NON-1S

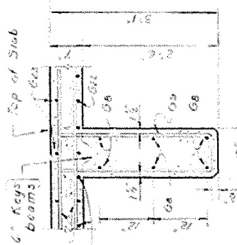
TYPICAL BEAM SECTION



SECTION B-B

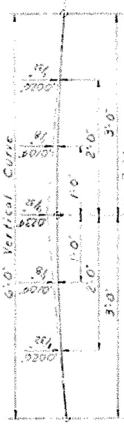


SECTION C-C

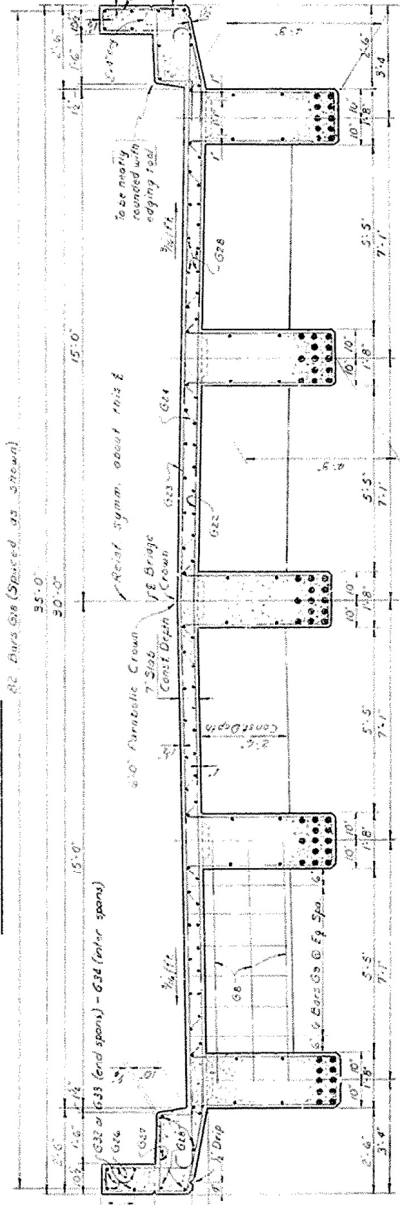


(Reinforcement same for all spans except as shown in plan. For end post details see sheet 6)

PARABOLIC CROWN



TYPICAL CROSS SECTION



Bridge over ...  
**COMMO W**  
 JRP  
**F**  
 MAJOR FOR THE  
 WINCH: ST  
 STATION 1592 + 47  
 BRIDGE NUMBER 099B0009L

DATE	REVISION	CHECKED BY	TRACED BY

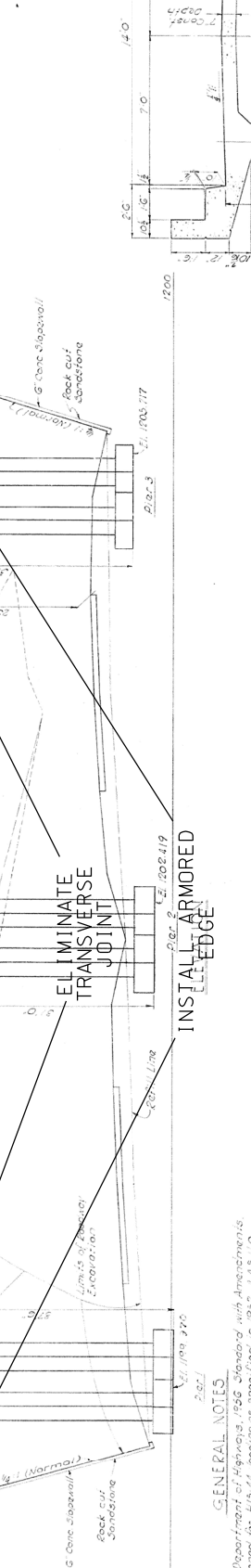
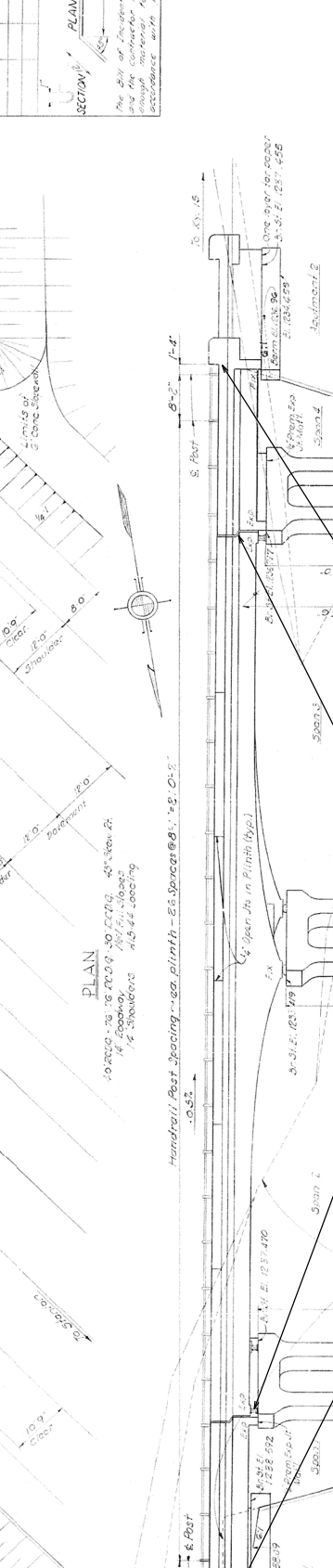
099B000491A

ALL DIMENSIONS IN FEET AND INCHES  
 UNLESS OTHERWISE SPECIFIED

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
1	Steel Reinforcing Bars	24,000	LBS.
2	Concrete	1,200	CY.
3	Structural Steel	40	TONS
4	Excavation	35	CY.
5	Foundation	50	SQ. FT.
6	Formwork	4,375	SQ. FT.

PLAN OF COPPER STRIP

The Bill of Material material is general only and the contractor is responsible for obtaining the material and for its proper installation in accordance with all applicable specifications.



REFERENCE AND ESTIMATE OF QUANTITIES

Item	Steel No.	Concrete (Cu. Yds)	Steel Reinforcing (Lbs.)	Structural Steel (Lump Sum)	Excavation (Cu. Yds)	Foundation (Sq. Ft.)	Formwork (Sq. Ft.)
Layout	1						
Abutment 1	2	8.2	226		60		
Pier 1	3	37.6	6810		40		
Pier 2	4	34.5	6031		40		
Pier 3	3	35.3	6151		35		
Abutment 2	2	8.2	226		60		
Span 1	5	44.4	8484		50		
Span 2	7	197.6	35,876				
Span 3	7	197.6	35,876				
Span 4	5	44.4	8484		50		
Abutment 2	2	8.2	226		60		
Formwork	1						4,375
Soundings	10						
TOTAL		412.2	85,968		240	6.5	225

GENERAL NOTES  
 1. Specifications Kentucky Department of Highways, 1956 Standard with Amendments  
 2. Design load: 100 kips on 10' span, 10' spacing between wheels  
 3. Foundation: 2' diameter piles, 10' spacing, 10' depth  
 4. Formwork: 1/2" plywood on 4" x 4" posts, 10' spacing  
 5. Reinforcing: All bars to be lap spliced with 50% lap, staggered  
 6. Concrete: 4000 psi strength, 4" slump  
 7. Steel: A36 steel, 1/2" thick, 10' spacing  
 8. Excavation: 1:1 slope, 10' depth  
 9. Foundation: 2' diameter piles, 10' spacing, 10' depth  
 10. Formwork: 1/2" plywood on 4" x 4" posts, 10' spacing

COMMONWEALTH OF KENTUCKY  
 DEPARTMENT OF HIGHWAYS  
 COUNTY OF POWELL  
 MAJOR ROUTE FOR EASTERN KENTUCKY  
 WINCHESTER - PRESTONSBURG

PROJECT NO. RD-1831-50  
 BRIDGE NUMBER EK 2-3-31  
 SECTION NUMBER 2  
 SHEET NO. 2 OF 3

CHECKED BY: [Signature]  
 DRAWN BY: [Signature]  
 DATE: [Date]



DATE	BY	REVISION
	7	KT

### GENERAL NOTE

SPECIFICATIONS: Kentucky Department of Highways, 1945 Standard with amendments, DESIGN LOAD: Bridge Designed for H20-44 loading as specified in the Specifications for CONCRETE: Class "X" concrete to be used throughout except in handrail, Class "C" concrete used in handrail. REINFORCEMENT: Reinforcement of concrete to bars are clear distance except as otherwise shown. Dimension of all bars shall be in accordance with the Specifications. BEVELED EDGES: All exposed edges shall be beveled, unless otherwise specified. COMMERCIAL GRADE: All steel shall be of commercial grade as specified. COPIES: Two copies of the Contract, Plans, Specifications, and Drawings shall be included in the bid for Class "X" concrete. AIR ENTRAINED CONCRETE: Class "X" and Class "C". Above construction joint of beams with unduly wide butt-structure, made with normal Portland cement, to which has been added air entraining admixture as specified in Amendment 6 or 7. APPROVED: All drawings shall be approved by the Engineer in Charge of the Project.

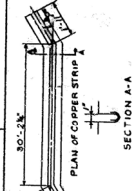
REMOVAL OF EXISTING STRUCTURE: This contract includes removal of the existing structure in accordance with the plans and specifications. Removal of the existing structure does not require matchmarking. The steel structure shall be removed and fully removed in any manner to no damage. However, all truss steel shall be taken apart. The steel structure may be readily transported and shall be piled in the location designated for the existing bridge. Steel shall not be removed until the fullfillment of this contract shall be included in the Lump Sum Bid for removing the existing structure.

# 119B00024N

#### BILL OF INCIDENTAL MATERIAL

ITEM	NO.	SIZE	LOCATION
Prime P. 7H. Masi 1	2	1" (6'-0" to 10'-0")	Concrete Span
" " " " "	4	7/8" (1'-0" to 2'-1")	" " " " "
" " " " "	1	5/8" (2'-2" to 52'-0")	under Elevation of Pier 2
" " " " "	1	5/8" (1'-3" to 8'-11")	under Elevation of Pier 1
" " " " "	2	3/4" (1'-0" to 4'-1")	between spans
" " " " "	2	3/4" (1'-0" to 4'-1")	between spans
Drainage	9	See S.H. Eng. 855-525	Light Gutter Only
Copper Strip	2	2 1/2" x 1/2" x 3/16"	Between spans

Note: Bill of Incidental material is approximate only and the contractor is responsible for furnishing enough material to complete the work in accordance with the plans and specifications.



SECTION 2-A

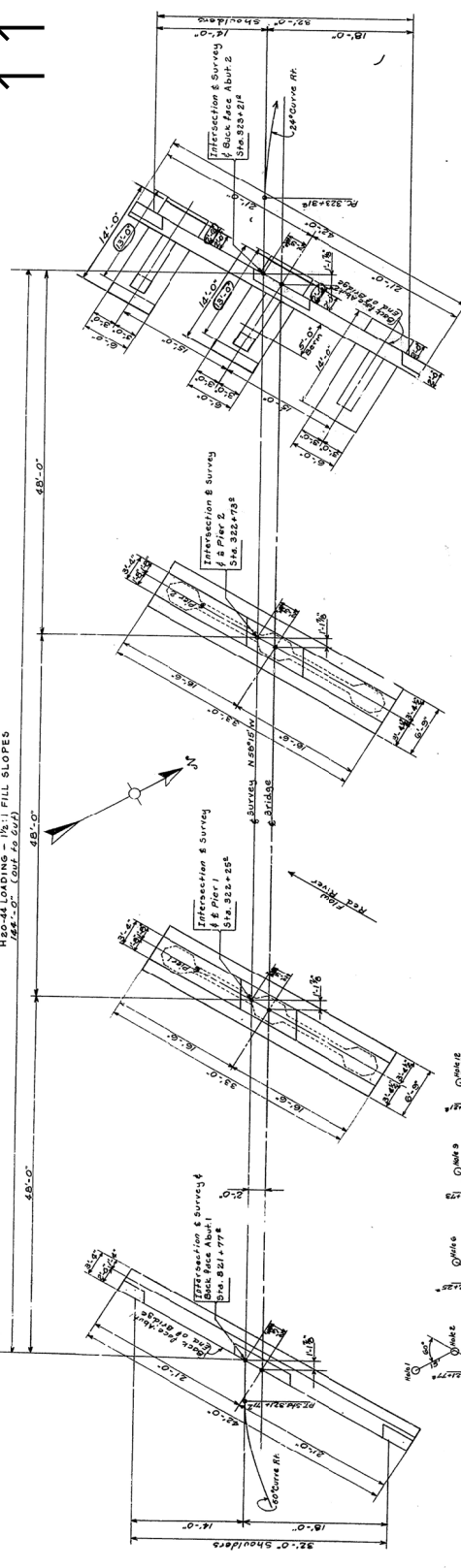
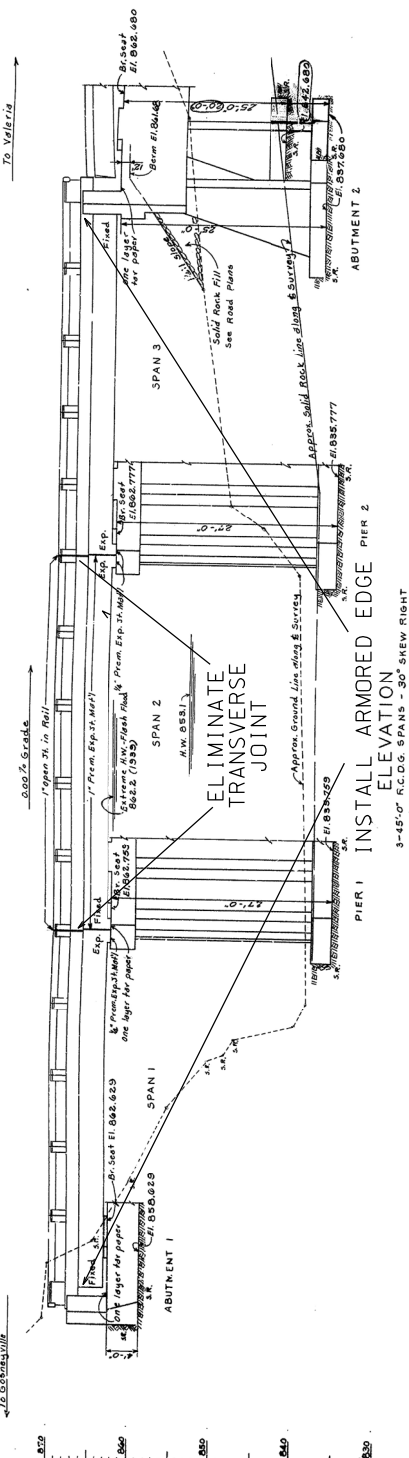
SHEET 119B

## COMMONWEALTH OF KENTUCKY

DEPARTMENT OF HIGHWAYS  
COUNTY OF WOLFE

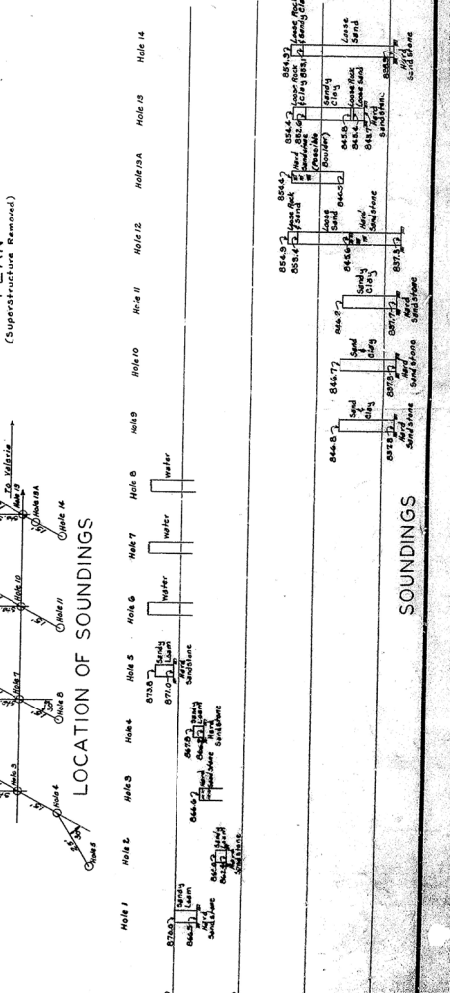
GOSNE WILLE-VALERIA ROAD

STATION 322+652  
PROJECT NO. 119B(11)  
DRAWING NUMBER



### ESTIMATE OF QUANTITIES

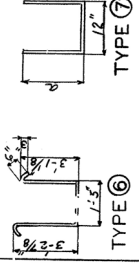
ITEM	SHEET NO.	CONCRETE	MINIMUM CONTRACT	IRON/CHANGES	REMOVE EXISTING	CONTRACTOR'S ESTIMATE
LEG OUT & Soundings	1	19.0	442.20	75		
Abutment 1	P. 129	74.5	6984	12.0	30	
Pier 1	P. 129	74.5	6984	12.0	30	
Abutment 2	P. 130	74.5	6984	12.0	30	
Pier 2	P. 130	74.5	6984	12.0	30	
Span 1	P. 131	89.4	21871	270	380	
Span 2	P. 132	89.4	21871	270	380	
Span 3	P. 133	89.4	21871	270	380	
Handrails	P. 134	7.6	2610			
Revisions to Elevation	P. 135	7.6	2610			
Elevations						
Exp. 3, MERT Logger Strip						
Totals		206.4	7.6	6528	1170	1440
				88368	410	



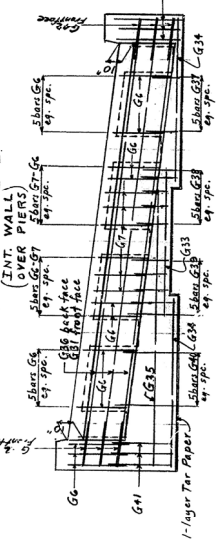
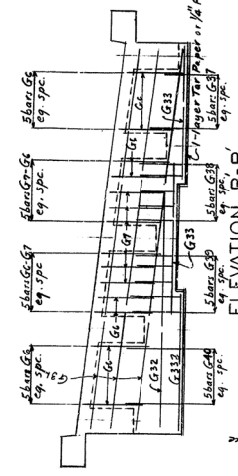
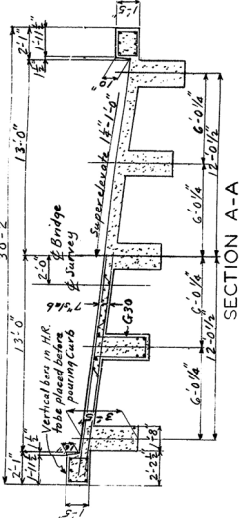
11

**BILL OF REINFORCEMENT**

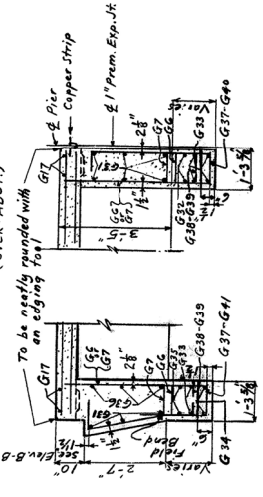
NO.	BAR	LENGTH	NO.	BAR	LENGTH	NO.	BAR	LENGTH
631	5/8"	9	12	4	19.0	"	"	"
632	"	2	4	19.0	"	"	"	"
633	"	8	12	4	19.0	"	"	"
634	"	4	"	4	13.1	"	"	"
635	"	2	"	4	21.0	"	"	"
636	"	3	"	4	34.6	"	"	"
637	"	10	10	4	5.0	"	"	Vert. 2 1
638	"	10	10	4	6.2	"	"	" 2 8
639	"	10	10	4	7.6	"	"	" 3 4
640	"	10	10	4	8.8	"	"	" 3 11
641	"	3	"	4	9.0	"	"	" 4 1
645	5/8"	6	"	4	3.5	"	"	" Hor.



Note - Drains on Low Gutter only. For spacing and location see Std Draw. G 526 B sheet 2 of 2



ELEVATION B-B (END WALL OVER ABUT.)



SECTION C-C

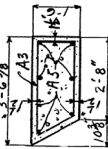
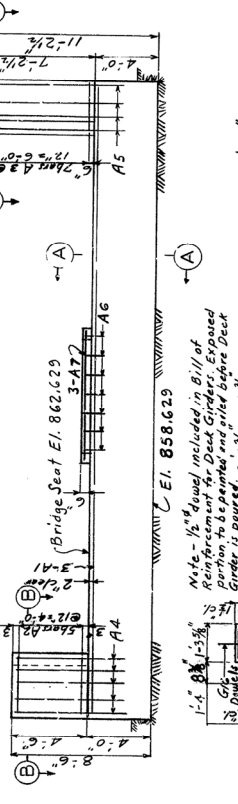
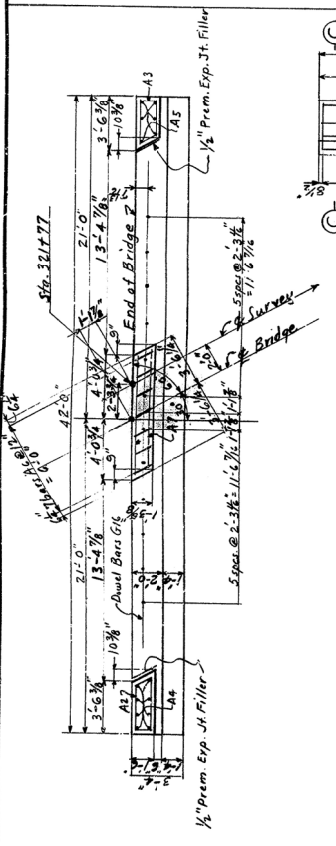
Note - Disregard Quantities shown G 526 B. Quantities shown below are total quantities

ESTIMATE OF QUANTITIES  
END SPAN - 1 OF 3  
CONCRETE CLASS "A"  
REINFORCEMENT 91.4 Cuds.  
21,571 Lbs.

INT SPAN - 2  
CONCRETE CLASS "A"  
REINFORCEMENT 89.4 Cuds.  
21,486 Lbs.

SECTION D-D

ESTIMATE OF QUANTITIES  
CONCRETE CLASS "A"  
REINFORCEMENT 79.0 Cuds.  
462 LBS.



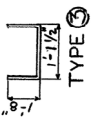
SECTION C-C

SECTION B-B

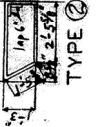
SECTION A-A

Note - 1/2" dowel included in Bill of Reinforcement for Deck Girders. Exposed portion to be painted and siled before Deck Girder is poured.

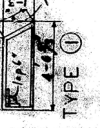
NO.	BAR	LENGTH	NO.	BAR	LENGTH
A1	5/8"	3	A10	5/8"	10
A2	"	3	A11	"	10
A3	"	3	A12	"	10
A4	"	3	A13	"	10
A5	"	3	A14	"	10
A6	"	3	A15	"	10
A7	"	3	A16	"	10
A8	"	3	A17	"	10
A9	"	3	A18	"	10
A10	"	3	A19	"	10
A11	"	3	A20	"	10
A12	"	3	A21	"	10
A13	"	3	A22	"	10
A14	"	3	A23	"	10
A15	"	3	A24	"	10
A16	"	3	A25	"	10
A17	"	3	A26	"	10
A18	"	3	A27	"	10
A19	"	3	A28	"	10
A20	"	3	A29	"	10
A21	"	3	A30	"	10
A22	"	3	A31	"	10
A23	"	3	A32	"	10
A24	"	3	A33	"	10
A25	"	3	A34	"	10
A26	"	3	A35	"	10
A27	"	3	A36	"	10
A28	"	3	A37	"	10
A29	"	3	A38	"	10
A30	"	3	A39	"	10
A31	"	3	A40	"	10
A32	"	3	A41	"	10
A33	"	3	A42	"	10
A34	"	3	A43	"	10
A35	"	3	A44	"	10
A36	"	3	A45	"	10
A37	"	3	A46	"	10
A38	"	3	A47	"	10
A39	"	3	A48	"	10
A40	"	3	A49	"	10
A41	"	3	A50	"	10
A42	"	3	A51	"	10
A43	"	3	A52	"	10
A44	"	3	A53	"	10
A45	"	3	A54	"	10
A46	"	3	A55	"	10
A47	"	3	A56	"	10
A48	"	3	A57	"	10
A49	"	3	A58	"	10
A50	"	3	A59	"	10
A51	"	3	A60	"	10
A52	"	3	A61	"	10
A53	"	3	A62	"	10
A54	"	3	A63	"	10
A55	"	3	A64	"	10
A56	"	3	A65	"	10
A57	"	3	A66	"	10
A58	"	3	A67	"	10
A59	"	3	A68	"	10
A60	"	3	A69	"	10
A61	"	3	A70	"	10
A62	"	3	A71	"	10
A63	"	3	A72	"	10
A64	"	3	A73	"	10
A65	"	3	A74	"	10
A66	"	3	A75	"	10
A67	"	3	A76	"	10
A68	"	3	A77	"	10
A69	"	3	A78	"	10
A70	"	3	A79	"	10
A71	"	3	A80	"	10
A72	"	3	A81	"	10
A73	"	3	A82	"	10
A74	"	3	A83	"	10
A75	"	3	A84	"	10
A76	"	3	A85	"	10
A77	"	3	A86	"	10
A78	"	3	A87	"	10
A79	"	3	A88	"	10
A80	"	3	A89	"	10
A81	"	3	A90	"	10
A82	"	3	A91	"	10
A83	"	3	A92	"	10
A84	"	3	A93	"	10
A85	"	3	A94	"	10
A86	"	3	A95	"	10
A87	"	3	A96	"	10
A88	"	3	A97	"	10
A89	"	3	A98	"	10
A90	"	3	A99	"	10
A91	"	3	A100	"	10



TYPE 1



TYPE 2



TYPE 3

Note - Disregard Quantities shown G 526 B. Quantities shown below are total quantities

ESTIMATE OF QUANTITIES  
END SPAN - 1 OF 3  
CONCRETE CLASS "A"  
REINFORCEMENT 91.4 Cuds.  
21,571 Lbs.

INT SPAN - 2  
CONCRETE CLASS "A"  
REINFORCEMENT 89.4 Cuds.  
21,486 Lbs.

SECTION D-D

SECTION C-C

ESTIMATE OF QUANTITIES  
CONCRETE CLASS "A"  
REINFORCEMENT 79.0 Cuds.  
462 LBS.

**ABUTMENT I**

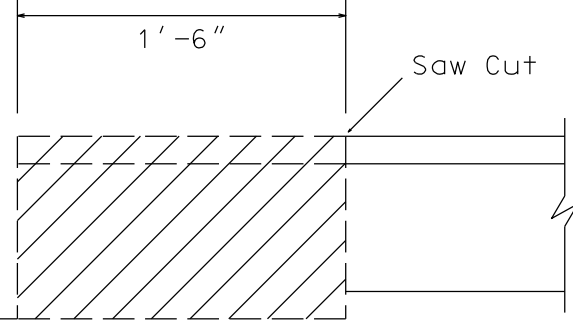
COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS  
TRANSITORY  
COUNTY OF  
**WOLFE**  
GOSNEYVILLE - VALERIA

BRIDGE NUMBER: 322-495  
PROJECT NO.:  
DIVISION: ROAD  
SHEET NO.: 2

099B00057N  
099B00009L  
099B00049N  
119B00024N

# ARMORED EDGE DETAIL

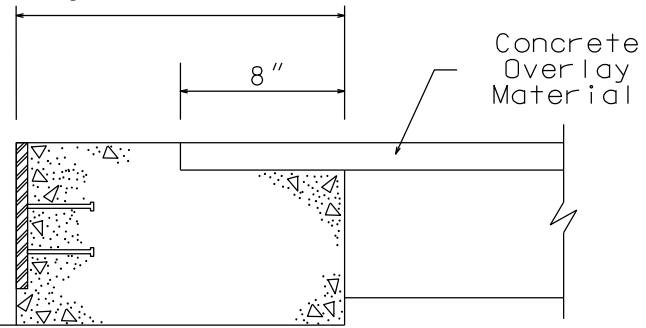
Remove X-Hatched Areas of  
Concrete & Expansion Device



## EXISTING SECTION

Pay Limits for "Armored  
Edge Replacement"

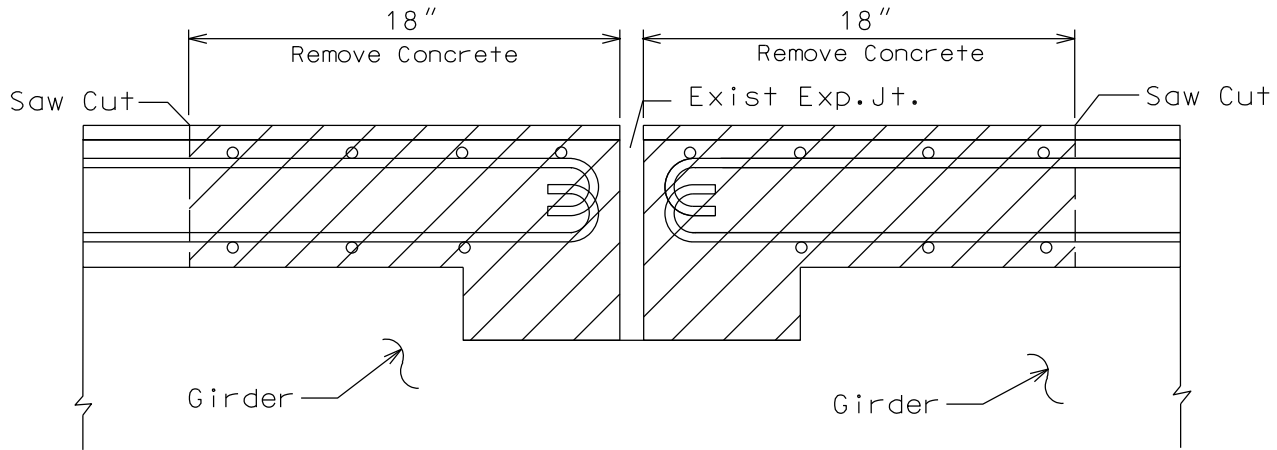
See Standard  
Drawing  
BJE-001-11



## PROPOSED SECTION

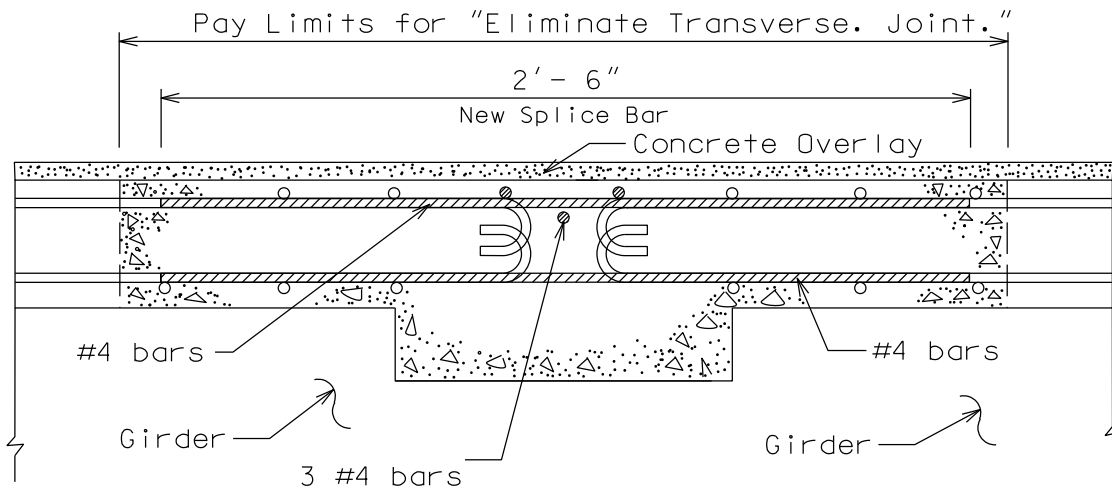
099B00057N  
099B00009L  
099B00049N  
119B00024N

# ELIMINATE TRANSVERSE JOINT DETAIL



NOTE: Do not disturb existing  
Steel Reinforcement

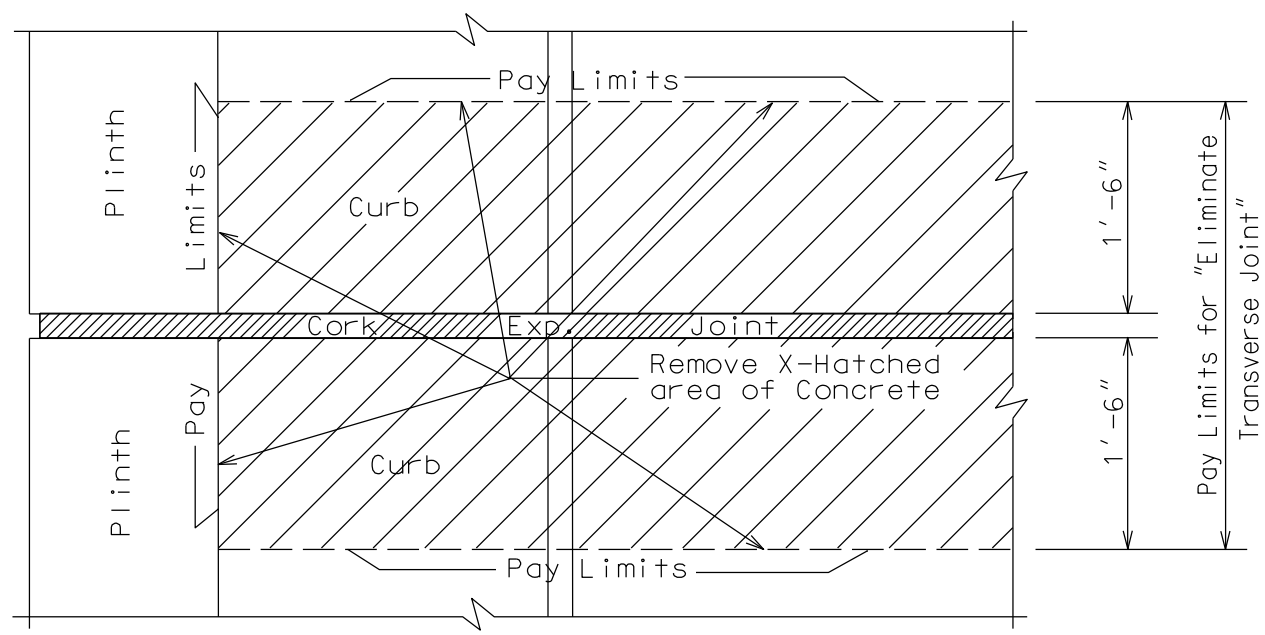
# EXISTING SECTION @ Transverse Joint



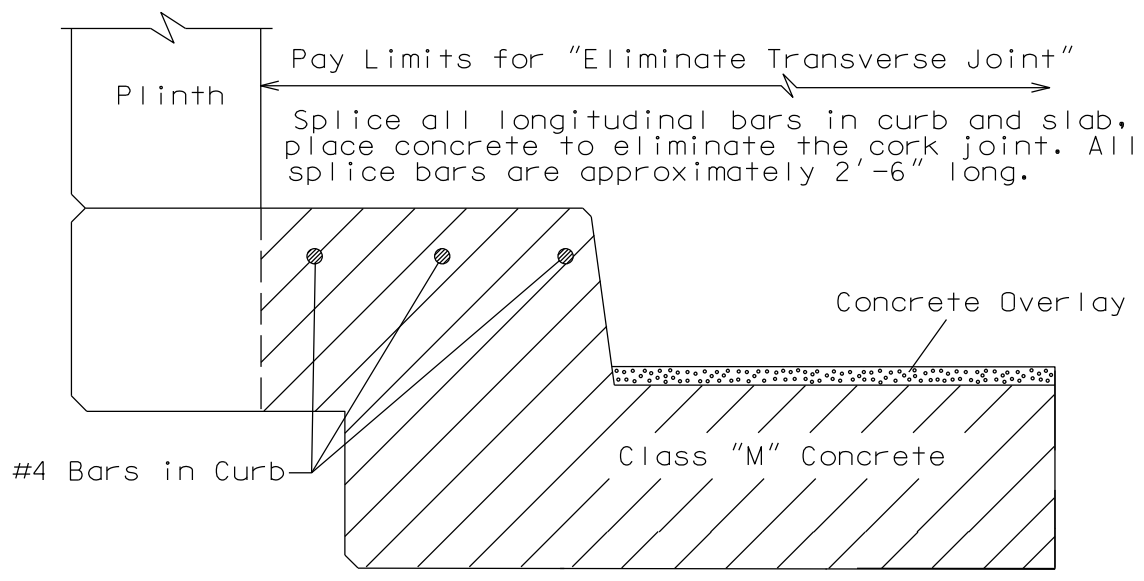
# PROPOSED SECTION @ Transverse Joint

099B00057N  
099B00009L  
099B00049N  
119B00024N

# ELIMINATE TRANSVERSE JOINT DETAIL



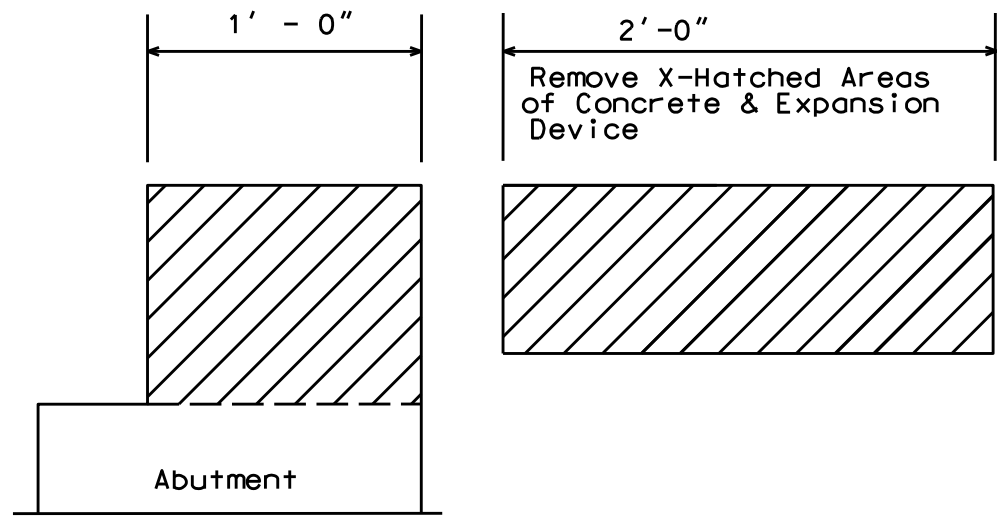
## EXISTING PLAN VIEW @ CURB



## PROPOSED SECTION @ CURB

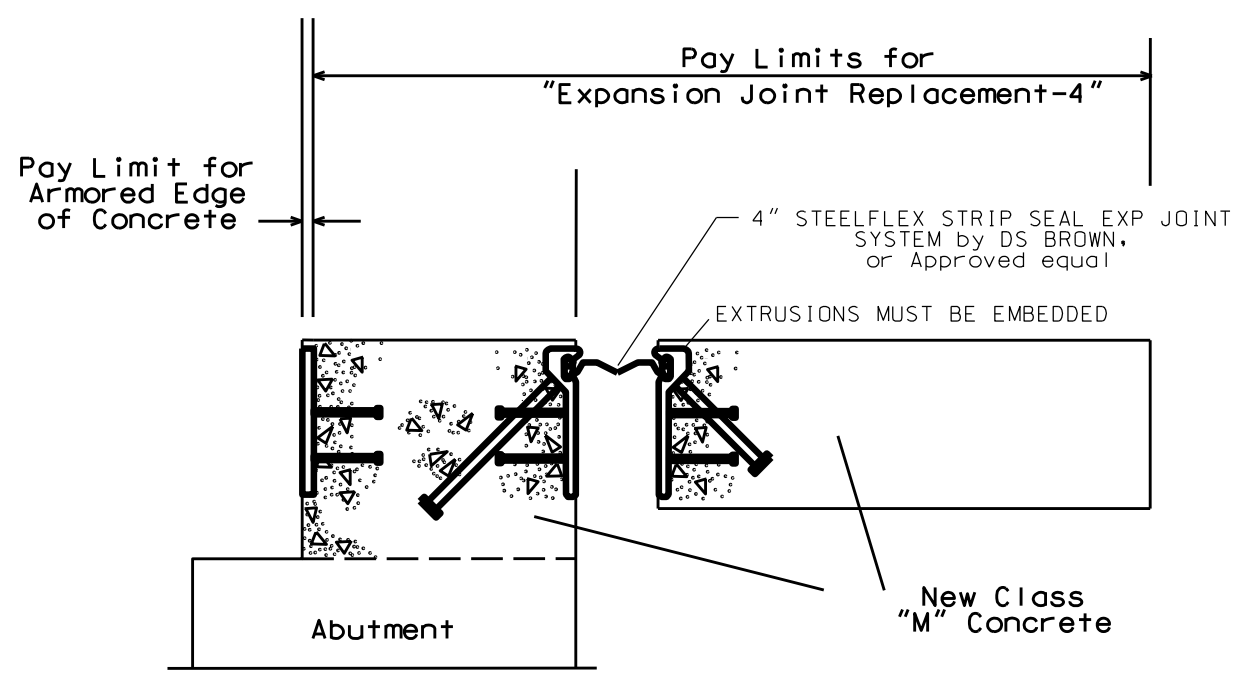
# EXPANSION DAM DETAIL

## Abutments #1 and #2



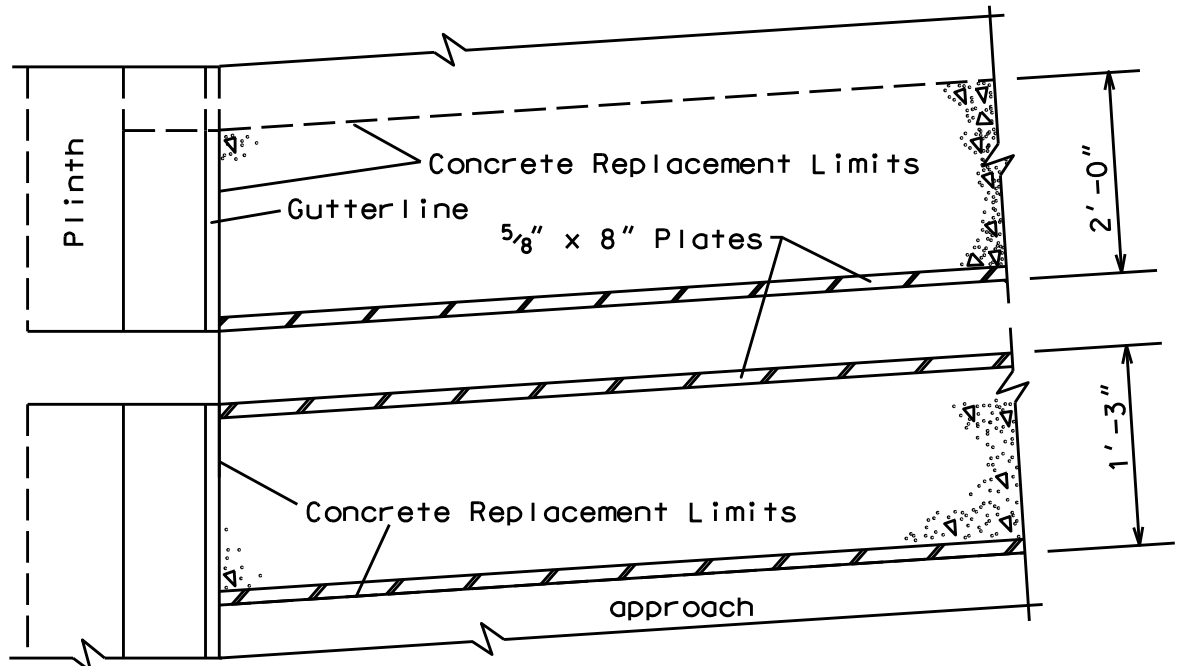
Clean & Leave  
Steel Reinf.  
in place.

## EXISTING SECTION

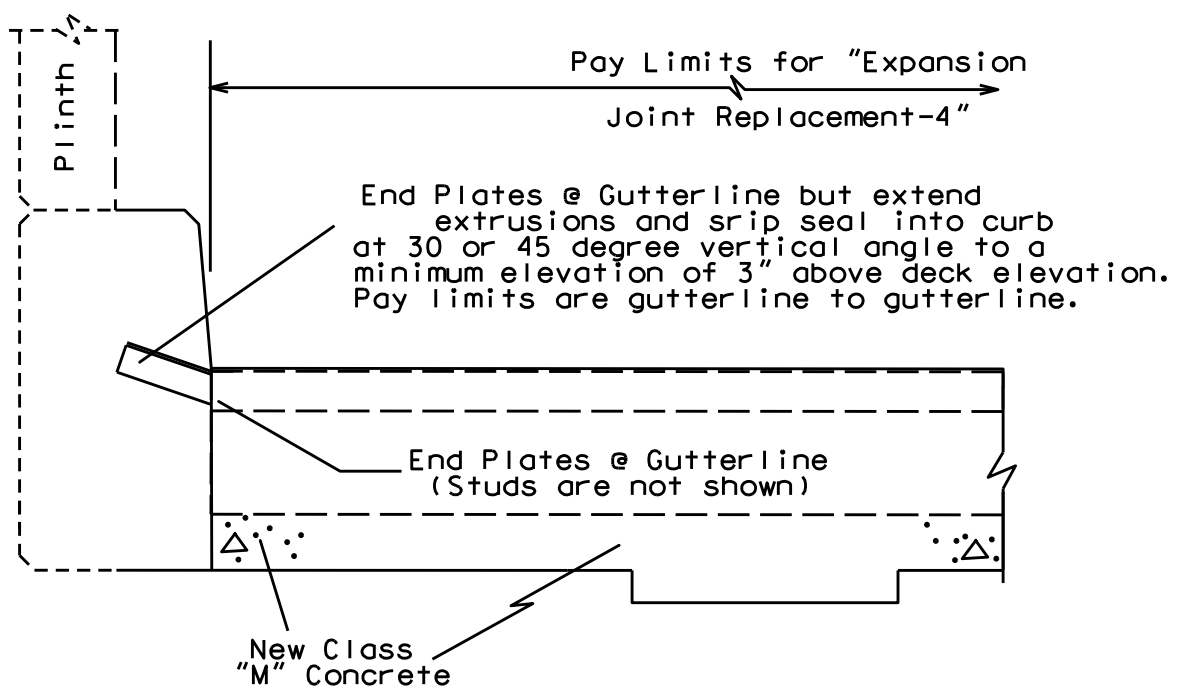


## PROPOSED SECTION

# CURB SECTION



## PLAN VIEW @ CURB



## PROPOSED SECTION @ CURB

**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 2016*.

## **SUPPLEMENTAL SPECIFICATIONS**

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

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

## STANDARD DRAWINGS THAT APPLY

### ~ *BARRIERS* ~

#### CONCRETE MEDIAN BARRIERS

DELINEATORS FOR CONCRETE BARRIERS (Incidental)	RBM-020-08
CONCRETE BARRIER WALL 9T	RBM-115-08
CRASH CUSHION IX-T	RBE-100-09

### TRAFFIC

#### ~ *TEMPORARY* ~

#### TRAFFIC CONTROL

LANE CLOSURE USING TRAFFIC SIGNALS	TTC-110
LANE CLOSURE MULTI-LANE HIGHWAY CASE I	TTC-115
LANE CLOSURE MULTI-LANE HIGHWAY CASE II	TTC-120

#### DEVICES

POST SPLICING DETAIL	TTD-110
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### BRIDGES

#### MISCELLANEOUS STANDARDS

BRIDGE RESTORATION AND WATERPROOFING WITH CONCRETE OVERLAYS	BGX-009-04
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#### JOINTS

NEOPRENE EXPANSION DAMS AND ARMORED EDGES	BJE-001-11
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## **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, 3 Fountain Place, Frankfort, Kentucky 40601; telephone (502) 564-7954.

Revised: January 27, 2017

### **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](mailto: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**

192918

Page 1 of 1

Report Date 10/25/19

**Section: 0001 - BRIDGE**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	02003		RELOCATE TEMP CONC BARRIER	600.00	LF		\$	
0020	02562		TEMPORARY SIGNS	745.00	SQFT		\$	
0030	02650		MAINTAIN & CONTROL TRAFFIC APPLIES TO 099B00009L	1.00	LS		\$	
0040	02650		MAINTAIN & CONTROL TRAFFIC APPLIES TO 099B00031N	1.00	LS		\$	
0050	02650		MAINTAIN & CONTROL TRAFFIC APPLIES TO 099B00049N	1.00	LS		\$	
0060	02650		MAINTAIN & CONTROL TRAFFIC APPLIES TO 099B00057N	1.00	LS		\$	
0070	02650		MAINTAIN & CONTROL TRAFFIC APPLIES TO 119B00024N	1.00	LS		\$	
0080	02653		LANE CLOSURE	8.00	EACH		\$	
0090	02671		PORTABLE CHANGEABLE MESSAGE SIGN	1.00	EACH		\$	
0100	02775		ARROW PANEL	1.00	EACH		\$	
0110	02898		RELOCATE CRASH CUSHION	1.00	EACH		\$	
0120	02900		INSTALL TEMP CRASH CUSHION	1.00	EACH		\$	
0130	03171		CONCRETE BARRIER WALL TYPE 9T	600.00	LF		\$	
0140	03298		EXPAN JOINT REPLACE 4 IN	48.40	LF		\$	
0150	03299		ARMORED EDGE FOR CONCRETE	258.10	LF		\$	
0160	03300		ELIMINATE TRANSVERSE JOINT	237.80	LF		\$	
0170	03304		BRIDGE OVERLAY APPROACH PAVEMENT	1,844.00	SQYD		\$	
0180	04933		TEMP SIGNAL 2 PHASE	2.00	EACH		\$	
0190	04934		TEMP SIGNAL MULTI PHASE	2.00	EACH		\$	
0200	06514		PAVE STRIPING-PERM PAINT-4 IN	1,232.00	LF		\$	
0210	06549		PAVE STRIPING-TEMP REM TAPE-B	2,500.00	LF		\$	
0220	06550		PAVE STRIPING-TEMP REM TAPE-W	6,000.00	LF		\$	
0230	06551		PAVE STRIPING-TEMP REM TAPE-Y	10,000.00	LF		\$	
0240	08150		STEEL REINFORCEMENT	3,139.60	LB		\$	
0250	08504		EPOXY SAND SLURRY	661.30	SQYD		\$	
0260	08510		REM EPOXY BIT FOREIGN OVERLAY	946.00	SQYD		\$	
0270	08534		CONCRETE OVERLAY-LATEX	103.50	CUYD		\$	
0280	08549		BLAST CLEANING	2,831.00	SQYD		\$	
0290	08551		MACHINE PREP OF SLAB	1,224.00	SQYD		\$	
0300	22146EN		CONCRETE PATCHING REPAIR	400.00	SQFT		\$	
0310	22146EN		CONCRETE PATCHING REPAIR PIER CAP ENDS ONLY (10 SQFT EA)	40.00	SQFT		\$	
0320	22146EN		CONCRETE PATCHING REPAIR PIER CAP ENDS ONLY (10SQFT EA)	40.00	SQFT		\$	
0330	24094EC		PARTIAL DEPTH PATCHING	60.20	CUYD		\$	

**Section: 0002 - DEMOBILIZATION**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0340	02569		DEMOBILIZATION	1.00	LS		\$	