



TRANSPORTATION CABINET

Frankfort, Kentucky 40622
www.transportation.ky.gov/

Steven L. Beshear
Governor

Michael W. Hancock, P.E.
Secretary

February 16, 2011

CALL NO. 429
CONTRACT ID NO. 112902
ADDENDUM # 1

Subject: Various Counties, 121GR11M006-FE02
Letting February 18, 2011

- (1) Revised - Project Identification & Description - Page 4 of 96
- (2) Deleted - Page 5 of 96
- (3) Revised - Special Notes - Pages 8, 14, 16, 17, 18, & 21 of 96
- (4) Revised - Completion Date & Liquidated Damages - Page 25 of 96
- (5) Revised - Traffic Control Plan - Page 27 of 96
- (6) Revised - Sketch Map - Page 28 of 96
- (7) Revised - Material Summary - Pages 29-31 of 96
- (8) Deleted - Page 32 of 96
- (9) Deleted - Page 38 of 96
- (10) Revised - Bridge Drawings - Pages 42, 45, 46, & 47 of 96
- (11) Revised - Bid Items - Pages 95-96 of 96

Proposal revisions are available at <http://transportation.ky.gov/contract/>.

If you have any questions, please contact us at 502-564-3500.

Sincerely,

A handwritten signature in blue ink that reads "Ryan Griffith".

Ryan Griffith
Director
Division of Construction Procurement

RG:ks
Enclosures



An Equal Opportunity Employer M/F/D

CONTRACT ID - 112902

ADMINISTRATIVE DISTRICT - 09

PROJECT(S) IDENTIFICATION AND DESCRIPTION:

COUNTY - VARIOUS
121GR11M006-FE02

DISTRICT 9 BRIDGES

COUNTY - BATH

PES - MB00609651101

FE02 006 0965 B00037N

KY 965 (MP 6.93) OVER MILL CREEK BRIDGE OVER MILL CREEK 1.2 MILE SOUTH OF JCT KY 36.
BRIDGE DECK RESTORATION & WATERPROOFING.

GEOGRAPHIC COORDINATES LATITUDE 38^05'53" LONGITUDE 83^44'53"

COUNTY - BOYD

PES - MB01009661101

FE02 010 0966 B00033N

KY 966 (MP 5.03) BRIDGE OVER WILLIAMS CREEK 0.10 MILE SOUTH OF JCT US 60. BRIDGE DECK
RESTORATION & WATERPROOFING.

GEOGRAPHIC COORDINATES LATITUDE 38^22'14" LONGITUDE 82^45'40"

COUNTY - FLEMING

PES - MB03505591101

FE02 035 0559 B00044N

KY 559 (MP 7.41) BRIDGE OVER WILSON RUN CREEK 2.8 MILES EAST OF JCT 32 BUS. BRIDGE DECK
RESTORATION & WATERPROOFING.

GEOGRAPHIC COORDINATES LATITUDE 38^24'53" LONGITUDE 83^41'34"

COUNTY - GREENUP

PES - MB04505031101

FE02 045 0503 B00034N

KY 503 (MP 3.68) BRIDGE OVER EAST FORK OF LITTLE SAND 1.9 MILE SOUTH OF JCT KY 207.
BRIDGE DECK RESTORATION & WATERPROOFING.

GEOGRAPHIC COORDINATES LATITUDE 38^28'43" LONGITUDE 82^45'44"

COUNTY - LEWIS

PES - MB06800571101

FE02 068 0057 B00039N

KY 57 (MP 7.45) BRIDGE OVER CABIN CREEK 2.3 MILE NORTHEAST OF JCT KY 10. BRIDGE DECK
RESTORATION & WATERPROOFING.

GEOGRAPHIC COORDINATES LATITUDE 38^35'01" LONGITUDE 83^33'04"

COUNTY - LEWIS

PES - MB06800591101

FE02 068 0059 B00011N

KY 59 (MP 4.19) OVER GRASSY FORK BRIDGE OVER GRASSY FORK 2.5 MILE NORTH OF JCT KY 1662.
BRIDGE DECK RESTORATION & WATERPROOFING.

GEOGRAPHIC COORDINATES LATITUDE 38^23'20" LONGITUDE 83^15'43"

COMPLETION DATE(S):

COMPLETION DATE - November 15, 2011

APPLIES TO ENTIRE CONTRACT

30 CALENDAR DAYS

APPLIES TO B00044N

30 CALENDAR DAYS

APPLIES TO B00033N

30 CALENDAR DAYS

APPLIES TO B00039N

30 CALENDAR DAYS

APPLIES TO B00034N

30 CALENDAR DAYS

APPLIES TO B00011N

30 CALENDAR DAYS

APPLIES TO B00037N

D. 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 (1 ½ inches thick). The Department will measure the quantity in cubic yards using the theoretical volume. The theoretical volume will be calculated by multiplying the deck area of each bridge by 1.5 inches for the overlay and adding a quantity for partial depth that is an additional 2.5 inches in depth for a percentage of the deck area. The theoretical volume for each bridge is as follows:

006B00037N	(114'x22'x1.5") + 50% (114'x22'x2.5") = 21.3 cuyd
010B00033N	(89'x28'x1.5") + 50% (89'x28'x2.5") = 21.2 cuyd
035B00044N	(114'x22'x1.5") + 50% (114'x22'x2.5") = 21.3 cuyd
045B00034N	(340'x24'x1.5") + 50% (340'x24'x2.5") = 69.3 cuyd
068B00011N	(114'x22'x1.5") + 50% (114'x22'x2.5") = 21.3 cuyd
068B00039N	(129'x22'x1.5") + 50% (129'x22'x2.5") = 24.1 cuyd

B. Latex Modified Concrete Variable Depth Material. The Department will measure the Latex Modified Concrete Variable Depth Material by deducting the theoretical volume from the total volume (as indicated by the batch quantity tickets) of LMC used for each bridge. Latex Modified Concrete Variable Depth Material for each bridge will be compensated in accordance with section V, paragraph B of this special note even if other bridges in this proposal do not use their respective bid quantity.

C. 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 (1 ½ inches thick). The Department will pay for the Latex Modified Concrete under bid item #08534 "CONCRETE OVERLAY - LATEX". Payment will be for quantity in place up to the theoretical volume only. Any additional approved quantity will be paid for in accordance with paragraph V.B.

B. Latex Modified Concrete Variable Depth Material. Contrary to Section 104.02.02 of Standard Specifications 2008, the Department will pay for the Latex Modified Concrete Variable Depth Material at the invoice price of the materials delivered to the project plus 20 percent, except in no case shall maximum payment exceed \$600 per cubic yard plus 20 percent where Type I Portland Cement is used, \$700.00 per cubic yard plus 20 percent where Type III Portland Cement is used and \$800.00 per cubic yard **plus 20 percent** where Rapid Set Cement is used. The Department will not consider other costs associated with placement of Latex Modified Concrete Variable Depth Material. The Department shall establish a bid item (Item #8536 – "LATEX CONCRETE VARIABLE DEPTH MATERIAL" per CUyd) to pay for this item when needed.

C. Asphalt Approach Pavement. The Department will make payment for the completed and accepted quantity of this work under the bid item (Item #3304 – "BRIDGE OVERLAY APPROACH PAVEMENT" per SQYD).

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** 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.

SPECIAL NOTE FOR BRIDGE CONCRETE CURB REPAIR

I. DESCRIPTION. Contrary to Section 606.03.03, "Concrete Curb Repair" is to be completed as per the attached detail drawing(s) and in accordance with this Note.

Perform all work in accordance with the Kentucky Transportation Cabinet, Department of Highway's 2008 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 curb marked by engineer; (3) Form and place new concrete curb as specified by this note and as shown on the attached detail drawing(s); (4) Finish and cure the new curb; (5) Maintain and control traffic; and (6) Any other work specified as part of this contract.

II. MATERIALS.

Latex Concrete. See Section 606.03.17.

AA Concrete. See Standard Specifications

Steel Reinforcement. Use Grade 60. See Section 602.

Epoxy Bond Coat. See Section 511.

III. CONSTRUCTION.

- A. Remove Existing Materials.** Remove existing concrete curb 6 inches across the front face and down to the original deck using hammers weighing 40 pounds or less. Dispose of all removed material entirely away from the job site as approved by the Engineer. Clean and leave existing steel reinforcement in place. This work is incidental to the contract unit price for "Concrete Curb Repair". 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. Protect the plinths from damage throughout the life of the project.
- B. Placing New Concrete.** After removing the existing curb face, repair and/or re-tie existing steel reinforcement as directed by the Engineer and form the curb to the original dimensions. 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 new curb. The interfaces of the new and old concrete shall be as nearly vertical and horizontal as possible. 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. Place latex concrete or Class AA Concrete for the curb in accordance with Section 606.03.17 and as shown on the attached detail drawing(s).
- C. Joints for Curb.** Joints in the curb shall match the slab joints at the proposed bridge expansion dams and eliminated transverse joints as shown on the attached detail drawings. Curb repair incorporated into the 1'-6" on either side of an eliminated joint shall be incidental to the pay item "Eliminate Transverse Joint". The Department will NOT measure these areas for payment under "Concrete Curb Repair".
- D. Curb Finish.** Finish and cure in accordance with Section 606.03.17.

IV. MEASUREMENT.

- A. Concrete Curb Repair.** The Department will measure the quantity in linear feet of curb repaired. The Department shall **NOT** measure the lengths of curb that fall into the pay limits of the pay item "Eliminate Transverse Joint". The Department will only pay **130 ft** as a separate bid item all other curb and sidewalk repair will be paid according to section 606.
- B. Steel Reinforcement.** See Section 602.

V. PAYMENT.

- A. Concrete Curb Repair.** Payment at the contract unit price per linear foot is full compensation for removing and disposing of specified existing materials, blast cleaning, concrete, steel reinforcement, and all incidental items necessary to complete the work within the specified pay limits as specified by this note and as shown on the attached detail drawing(s).
- B. Steel Reinforcement.** See Section 602.

The Department will consider payment as full compensation for all work required by this note and the attached detail drawing(s).

SPECIAL NOTE FOR USE OF HYDRODEMOLITION METHOD

To be used if the Contractor chooses to use Hydrodemolition method to complete partial and full depth removal. Also see Section 606.03.03.

Description

This work consists of bridge surface deck preparation using Hydrodemolition to provide a uniform depth, highly bondable surface and to remove all variable depth, unsound material. This item also includes the removal and disposal of all concrete and debris, vacuuming, shielding, water control, additional jack hammering and all other aspects of work necessary to prepare the deck for the placement of the new latex modified concrete overlay.

Equipment

Sawing Equipment. Sawing equipment shall be a concrete saw capable of sawing concrete to the specified depth.

Mechanical Scarifying Equipment. The scarifying equipment shall be a power operated mechanical scarifier capable of uniformly scarifying or removing the old concrete or asphalt wearing surface from the bridge deck to the depths required in the plans or as directed by the Engineer. The equipment shall be self-propelled with sufficient power, traction and stability to maintain accurate depth of cut and slope. The equipment shall be capable of accurately and automatically establishing profile grades along each edge of the machine by referencing the existing bridge deck by means of a ski or matching shoe, or from an independent grade control; in addition, it shall be equipped with an integral loading means to remove the material being cut from the bridge deck and to discharge the cuttings into a truck all in a single operation.

Hydro-Demolition Equipment. The Hydrodemolition equipment shall consist of a filtering and pumping unit operating with a self-propelled computerized robot that utilizes a high pressure water jet capable of removing concrete to the depth specified on the plans or as directed by the Engineer and be capable of removing rust and concrete particles from reinforcing steel. The equipment shall provide a rough and bondable surface and remove all unsound concrete during the initial pass. The minimum water usage shall be 43 gal/min operating at 13,000 psi minimum.

Vacuum Cleanup Equipment. The vacuum cleanup equipment shall be equipped with fugitive dust control devices and be capable of removing wet debris and water all in the same pass. Provide equipment capable of washing the deck with pressurized water prior to the vacuum operation to dislodge all debris and slurry from the deck surface.

Hand Held Blast Cleaning Equipment. Hand held blast shall be either sand or water as necessary to expose fine and coarse aggregates; thoroughly clean all exposed reinforcing steel; and remove any unsound concrete or laitance layers from the proposed concrete overlay surface. If sand blasting equipment is utilized, the equipment shall have oil traps. If water blasting equipment is utilized, the equipment must be capable of delivering a minimum of 5,000 psi.

If the use of mechanical scarifying equipment results in the snagging of the top mat of steel reinforcement, the scarifying equipment shall be immediately stopped and the depth of removal adjusted. Damaged or dislodged reinforcing steel shall be repaired or replaced at the Contractor's expense. Replacement shall include the removal of any additional concrete required to position the new reinforcing steel at the correct height and required lap splice lengths.

Concrete Removal by Hydro-Demolition

General: The total surface area of the reinforced concrete bridge deck shall be completely prepared by Hydrodemolition as necessary to provide a highly roughened and bondable surface prior to placement of the proposed bridge deck overlay while removing any deteriorated and unsound concrete in the initial pass. Unsound concrete is defined as existing bridge deck concrete that is deteriorated, spalled, or determined by the engineer to be unsound.

With the use of Hydrodemolition surface preparation, the requirement to provide a minimum ¼" clearance around all reinforcing bars that are more than ½" diameter exposed is waived, providing that the existing concrete is sound. The amount of steel exposed shall be kept to a minimum.

Damaged or dislodged reinforcing steel shall be repaired or replaced at the Contractor's expense. Replacement shall include the removal of any additional concrete required to position the new reinforcing steel at the correct height and to provide the required lap splice lengths as required.

Calibration: Prior to commencement of the Hydrodemolition removal operation, the Hydrodemolition equipment shall be calibrated on an existing sound concrete surface as designated by the Engineer. The calibration area shall be a minimum of 7 feet wide by 7 feet long to demonstrate the desired result of this specification.

Move the Hydrodemolition equipment to a second area (7'x7') that is unsound as designated by the Engineer to demonstrate the desired result of this specification which is providing a highly rough and bondable surface and removing all unsound concrete during the initial pass is being achieved.

The Engineer shall verify the following settings:

1. Water pressure gauge (13,000 psi minimum)
2. Machine staging control (step)
3. Nozzle size
4. Nozzle speed (travel)
5. Depth of removal
6. Minimum water usage (43 gallons per minute)

During the Hydrodemolition operations of any or all of the above settings may be modified in order to achieve removal of all unsound concrete and to provide a highly bondable surface. The settings may be changed by the Contractor to achieve total removal of unsound concrete, but the Engineer must be notified of all changes. The Engineer may change any or all of the settings in order to achieve the desired results with Hydrodemolition. The removals and depth shall be verified, as necessary, and at least every

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, 2011. An allotted number of Calendar days are assigned to each structure in this contract as shown below.

<u>STRUCTURE</u>	<u>NUMBER OF CALENDAR DAYS</u>
006B00037N	30
010B00033N	30
035B00044N	30
045B00034N	30
068B00011N	30
068B00039N	30

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 2008 Standard Specifications for Road and Bridge Construction, Section 108.09, when either the allotted number of calendar days or the November 15, 2011 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.

V. TEMPORARY TRAFFIC CONTROL UNDER PROJECT BRIDGES

Traffic control on existing roadways located under the project bridges shall be provided when necessary in order to insure the safety of the traveling public. Whenever the danger of falling debris exists, set up temporary lane closures in accordance with Standard Drawing TTC-115, as approved by the Engineer. A minimum clear lane width of 12 feet shall be maintained at all times during these temporary closures. Traffic control on these roadways shall be maintained only while required for construction activities on the bridge above them and shall be removed as soon as the danger of falling debris has been eliminated. These temporary lane closures and traffic control shall be considered incidental to the pay item "Maintain and Control Traffic".

Lane closures will not be permitted on Interstate 64 on these days:

Easter Weekend (Thursday-Sunday)

Memorial Day Weekend (Friday-Monday)

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

Thanksgiving Day Weekend (Thursday-Sunday)

Christmas/New Years (December 24-January 2)

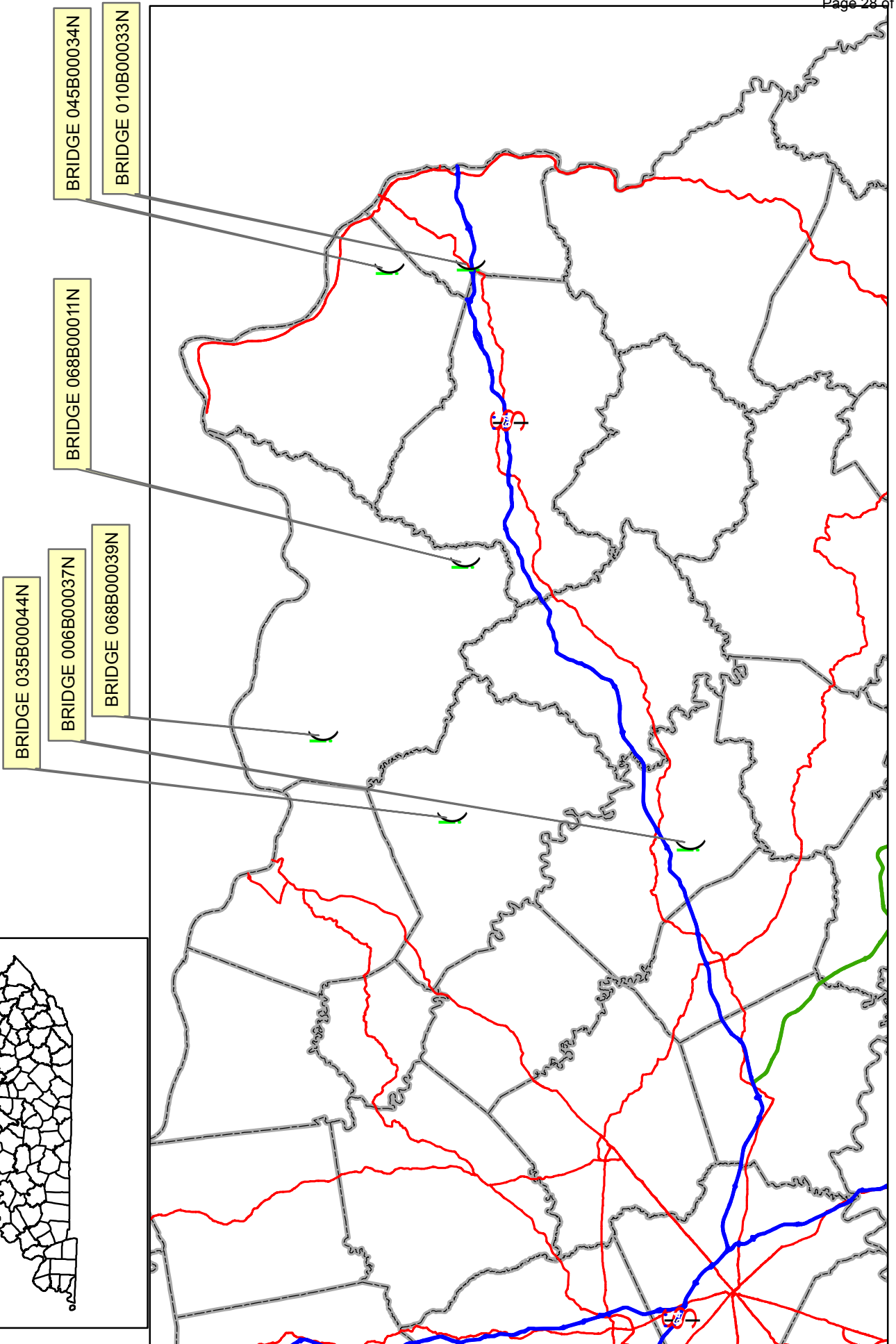
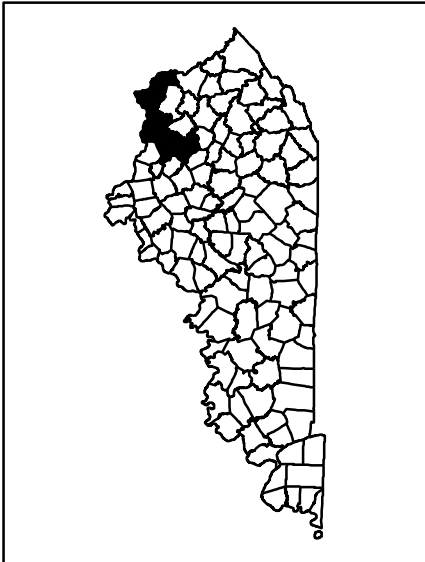
VI. PROJECT PHASING & CONSTRUCTION PROCEDURES

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 is 10'-0". Flagging will be required for up to 6 hours/day on 010B00033N (up to 2 hours for each shift change at the steel plant).

VII. TEMPORARY SIGNAL

Provide, install, and maintain a temporary multi-phase signal for 045B00034N. Provide, install, and maintain a temporary two phase traffic signal for all other bridges. The Contractor must provide a 24-hour contact person and number available to maintain the temporary signals as needed.

BATH, BOYD, FLEMING, GREENUP, & LEWIS COUNTIES



MATERIAL SUMMARY

CONTRACT ID: 112902

FE02 006 0965 B00037N

PES NO: MB00609651101

KY 965 (MP 6.93) OVER MILL CREEK BRIDGE OVER MILL CREEK 1.2 MILE SOUTH OF JCT KY 36

LINE NO	BID CODE	DESCRIPTION	QUANTITY	UNIT
0040	02562	SIGNS	149.00	SQFT
0010	02650	MAINTAIN & CONTROL TRAFFIC 006B00037N	1.00	LS
0015	02653	LANE CLOSURE	2.00	EACH
0160	03299	ARMORED EDGE FOR CONCRETE	51.00	LF
0170	03300	ELIMINATE TRANSVERSE JOINT	55.00	LF
0195	03304	BRIDGE OVERLAY APPROACH PAVEMENT	245.00	SQYD
0030	04933	TEMP SIGNAL 2 PHASE	1.00	EACH
0200	06514	PAVE STRIPING-PERM PAINT-4 IN	428.00	LF
0051	06549	PAVE STRIPING-TEMP REM TAPE-B	500.00	LF
0050	06550	PAVE STRIPING-TEMP REM TAPE-W	1,000.00	LF
0052	06551	PAVE STRIPING-TEMP REM TAPE-Y	2,000.00	LF
0100	08150	STEEL REINFORCEMENT	868.00	LB
0190	08504	EPOXY SAND SLURRY	95.00	SQYD
0060	08510	REM EPOXY BIT FOREIGN OVERLAY	278.00	SQYD
0390	08526	CONC CLASS M FULL DEPTH PATCH (ADDED: 2-16-11)	4.00	CUYD
0080	08534	CONCRETE OVERLAY-LATEX	15.50	CUYD
0070	08549	BLAST CLEANING	373.00	SQYD
0380	02569	DEMobilIZATION	1.00	LS

FE02 010 0966 B00033N

PES NO: MB01009661101

KY 966 (MP 5.03) BRIDGE OVER WILLIAMS CREEK 0.10 MILE SOUTH OF JCT US 60

LINE NO	BID CODE	DESCRIPTION	QUANTITY	UNIT
0040	02562	SIGNS	149.00	SQFT
0010	02650	MAINTAIN & CONTROL TRAFFIC 010B00033N	1.00	LS
0015	02653	LANE CLOSURE	2.00	EACH
0150	03294	EXPAN JOINT REPLACE 1 1/2 IN	56.00	LF
0160	03299	ARMORED EDGE FOR CONCRETE	56.00	LF
0180	03304	BRIDGE OVERLAY APPROACH PAVEMENT	622.00	SQYD
0030	04933	TEMP SIGNAL 2 PHASE	1.00	EACH
0051	06549	PAVE STRIPING-TEMP REM TAPE-B	500.00	LF
0050	06550	PAVE STRIPING-TEMP REM TAPE-W	1,000.00	LF
0052	06551	PAVE STRIPING-TEMP REM TAPE-Y	2,000.00	LF
0100	08150	STEEL REINFORCEMENT	267.20	LB
0190	08504	EPOXY SAND SLURRY	76.00	SQYD
0090	08526	CONC CLASS M FULL DEPTH PATCH	2.70	CUYD
0080	08534	CONCRETE OVERLAY-LATEX	15.40	CUYD
0070	08549	BLAST CLEANING	353.00	SQYD
0061	08551	MACHINE PREP OF SLAB	277.00	SQYD
0380	02569	DEMobilIZATION	1.00	LS

MATERIAL SUMMARY

CONTRACT ID: 112902

FE02 035 0559 B00044N PES NO: MB03505591101
KY 559 (MP 7.41) BRIDGE OVER WILSON RUN CREEK 2.8 MILES EAST OF JCT 32 BUS

LINE NO	BID CODE	DESCRIPTION	QUANTITY	UNIT
0040	02562	SIGNS	149.00	SQFT
0010	02650	MAINTAIN & CONTROL TRAFFIC 035B00044N	1.00	LS
0015	02653	LANE CLOSURE	2.00	EACH
0160	03299	ARMORED EDGE FOR CONCRETE	62.00	LF
0170	03300	ELIMINATE TRANSVERSE JOINT	70.00	LF
0172	03302	REPAIR CONCRETE CURB	85.00	LF
0173	03304	BRIDGE OVERLAY APPROACH PAVEMENT	245.00	SQYD
0030	04933	TEMP SIGNAL 2 PHASE	1.00	EACH
0174	06514	PAVE STRIPING-PERM PAINT-4 IN	428.00	LF
0051	06549	PAVE STRIPING-TEMP REM TAPE-B	500.00	LF
0050	06550	PAVE STRIPING-TEMP REM TAPE-W	1,000.00	LF
0052	06551	PAVE STRIPING-TEMP REM TAPE-Y	2,000.00	LF
0100	08150	STEEL REINFORCEMENT	868.00	LB
0190	08504	EPOXY SAND SLURRY	45.90	SQYD
0060	08510	REM EPOXY BIT FOREIGN OVERLAY	279.00	SQYD
0090	08526	CONC CLASS M FULL DEPTH PATCH	5.40	CUYD
0080	08534	CONCRETE OVERLAY-LATEX	16.40	CUYD
0070	08549	BLAST CLEANING	325.00	SQYD
0380	02569	DEMOBILIZATION	1.00	LS

FE02 045 0503 B00034N PES NO: MB04505031101
KY 503 (MP 3.68) BRIDGE OVER EAST FORK OF LITTLE SAND 1.9 MILE SOUTH OF JCT KY 207

LINE NO	BID CODE	DESCRIPTION	QUANTITY	UNIT
0040	02562	SIGNS	149.00	SQFT
0010	02650	MAINTAIN & CONTROL TRAFFIC 045B00034N	1.00	LS
0015	02653	LANE CLOSURE	2.00	EACH
0130	03295	EXPAN JOINT REPLACE 2 IN	48.00	LF
0160	03299	ARMORED EDGE FOR CONCRETE	48.00	LF
0170	03300	ELIMINATE TRANSVERSE JOINT	196.00	LF
0213	03304	BRIDGE OVERLAY APPROACH PAVEMENT	267.00	SQYD
0030	04933	TEMP SIGNAL 2 PHASE	1.00	EACH
0390	04934	TEMP SIGNAL MULTI PHASE (ADDED: 2-16-11)	1.00	EACH
0200	06514	PAVE STRIPING-PERM PAINT-4 IN	880.00	LF
0051	06549	PAVE STRIPING-TEMP REM TAPE-B	500.00	LF
0050	06550	PAVE STRIPING-TEMP REM TAPE-W	1,000.00	LF
0052	06551	PAVE STRIPING-TEMP REM TAPE-Y	2,000.00	LF
0100	08150	STEEL REINFORCEMENT	2,638.00	LB
0190	08504	EPOXY SAND SLURRY	283.30	SQYD
0060	08510	REM EPOXY BIT FOREIGN OVERLAY	907.00	SQYD
0090	08526	CONC CLASS M FULL DEPTH PATCH	26.40	CUYD
0080	08534	CONCRETE OVERLAY-LATEX	50.40	CUYD
0070	08549	BLAST CLEANING	1,190.00	SQYD
0220	20599EC	CONCRETE BEAM REPAIR	48.00	SQFT
0210	22146EN	CONCRETE PATCHING REPAIR	87.00	SQFT
0212	23879EC	ACRYLIC GLASS	115.00	SQFT
0380	02569	DEMOBILIZATION	1.00	LS

MATERIAL SUMMARY

CONTRACT ID: 112902

FE02 068 0057 B00039N PES NO: MB06800571101
KY 57 (MP 7.45) BRIDGE OVER CABIN CREEK 2.3 MILE NORTHEAST OF JCT KY 10

LINE NO	BID CODE	DESCRIPTION	QUANTITY	UNIT
0040	02562	SIGNS	149.00	SQFT
0010	02650	MAINTAIN & CONTROL TRAFFIC 068B00039N	1.00	LS
0015	02653	LANE CLOSURE	2.00	EACH
0160	03299	ARMORED EDGE FOR CONCRETE	44.00	LF
0170	03300	ELIMINATE TRANSVERSE JOINT	52.00	LF
0192	03304	BRIDGE OVERLAY APPROACH PAVEMENT	245.00	SQYD
0030	04933	TEMP SIGNAL 2 PHASE	1.00	EACH
0200	06514	PAVE STRIPING-PERM PAINT-4 IN	458.00	LF
0051	06549	PAVE STRIPING-TEMP REM TAPE-B	500.00	LF
0050	06550	PAVE STRIPING-TEMP REM TAPE-W	1,000.00	LF
0052	06551	PAVE STRIPING-TEMP REM TAPE-Y	2,000.00	LF
0100	08150	STEEL REINFORCEMENT	868.00	LB
0190	08504	EPOXY SAND SLURRY	107.50	SQYD
0060	08510	REM EPOXY BIT FOREIGN OVERLAY	315.00	SQYD
0090	08526	CONC CLASS M FULL DEPTH PATCH	4.90	CUYD
0080	08534	CONCRETE OVERLAY-LATEX	17.50	CUYD
0070	08549	BLAST CLEANING	423.00	SQYD
0380	02569	DEMOBILIZATION	1.00	LS

FE02 068 0059 B00011N PES NO: MB06800591101
KY 59 (MP 4.19) OVER GRASSY FORK BRIDGE OVER GRASSY FORK 2.5 MILE NORTH OF JCT KY
1662

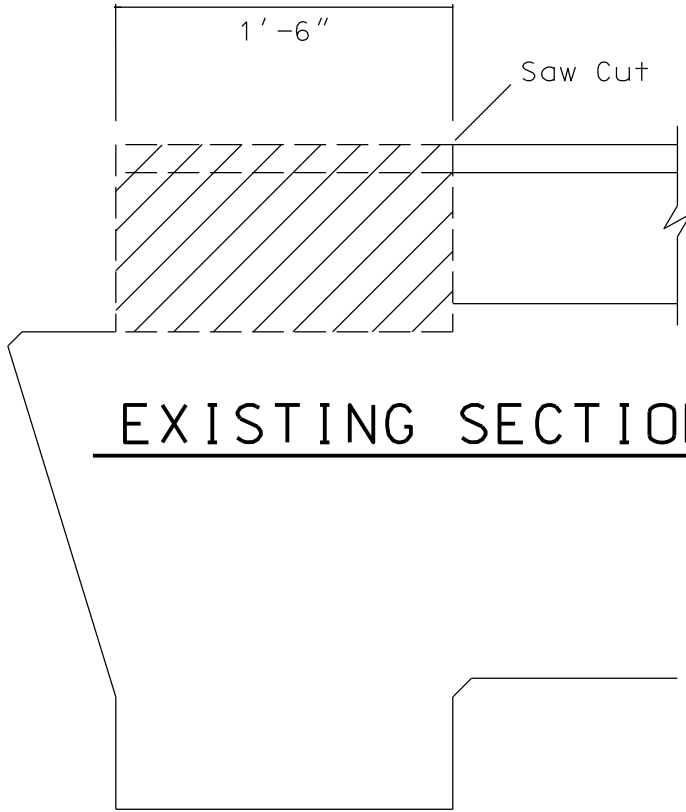
LINE NO	BID CODE	DESCRIPTION	QUANTITY	UNIT
0040	02562	SIGNS	149.00	SQFT
0010	02650	MAINTAIN & CONTROL TRAFFIC 068B00011N	1.00	LS
0015	02653	LANE CLOSURE	2.00	EACH
0160	03299	ARMORED EDGE FOR CONCRETE	51.00	LF
0170	03300	ELIMINATE TRANSVERSE JOINT	60.00	LF
0210	03302	REPAIR CONCRETE CURB	45.00	LF
0205	03304	BRIDGE OVERLAY APPROACH PAVEMENT	245.00	SQYD
0030	04933	TEMP SIGNAL 2 PHASE	1.00	EACH
0200	06514	PAVE STRIPING-PERM PAINT-4 IN	856.00	LF
0051	06549	PAVE STRIPING-TEMP REM TAPE-B	500.00	LF
0050	06550	PAVE STRIPING-TEMP REM TAPE-W	1,000.00	LF
0052	06551	PAVE STRIPING-TEMP REM TAPE-Y	2,000.00	LF
0100	08150	STEEL REINFORCEMENT	868.00	LB
0190	08504	EPOXY SAND SLURRY	95.00	SQYD
0060	08510	REM EPOXY BIT FOREIGN OVERLAY	279.00	SQYD
0400	08526	CONC CLASS M FULL DEPTH PATCH	7.00	CUYD
0080	08534	CONCRETE OVERLAY-LATEX	14.50	CUYD
0070	08549	BLAST CLEANING	374.00	SQYD
0410	20599EC	CONCRETE BEAM REPAIR	81.00	SQFT
0420	22146EN	CONCRETE PATCHING REPAIR	24.00	SQFT
0390	23879EC	ACRYLIC GLASS	22.75	SQFT
0380	02569	DEMOBILIZATION	1.00	LS

ARMORED EDGE DETAIL

Abutments

Not to Scale

Remove X-Hatched Areas of
Concrete & Expansion Device



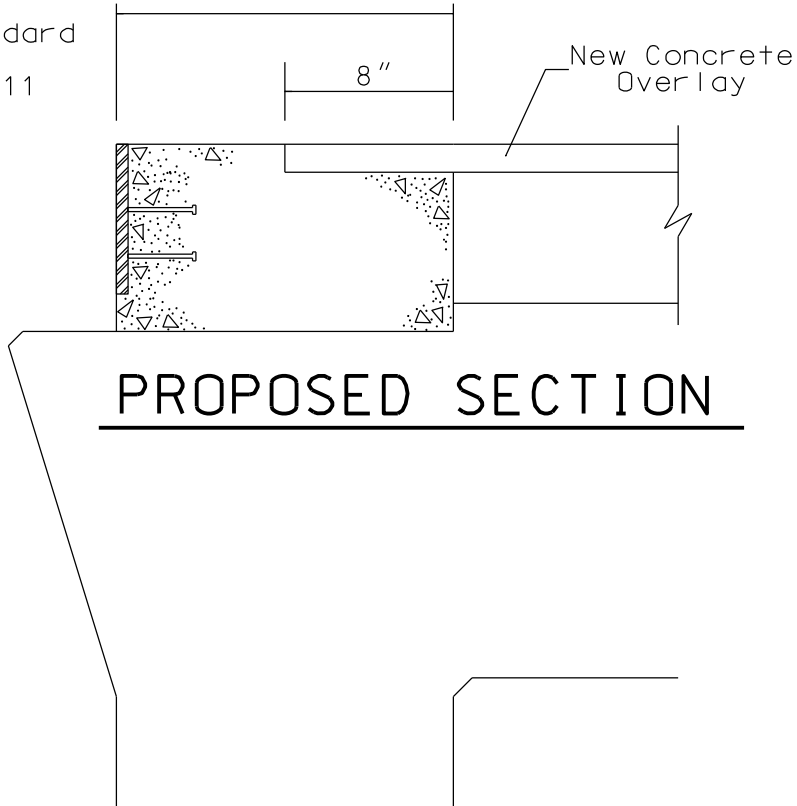
BRIDGES

- 006B00037N
- 035B00044N
- 045B00034N
- 068B00011N

- 068B00039N

Pay Limits for "Armored
Edge Replacement"

See Standard
Drawing
BJE-001-11

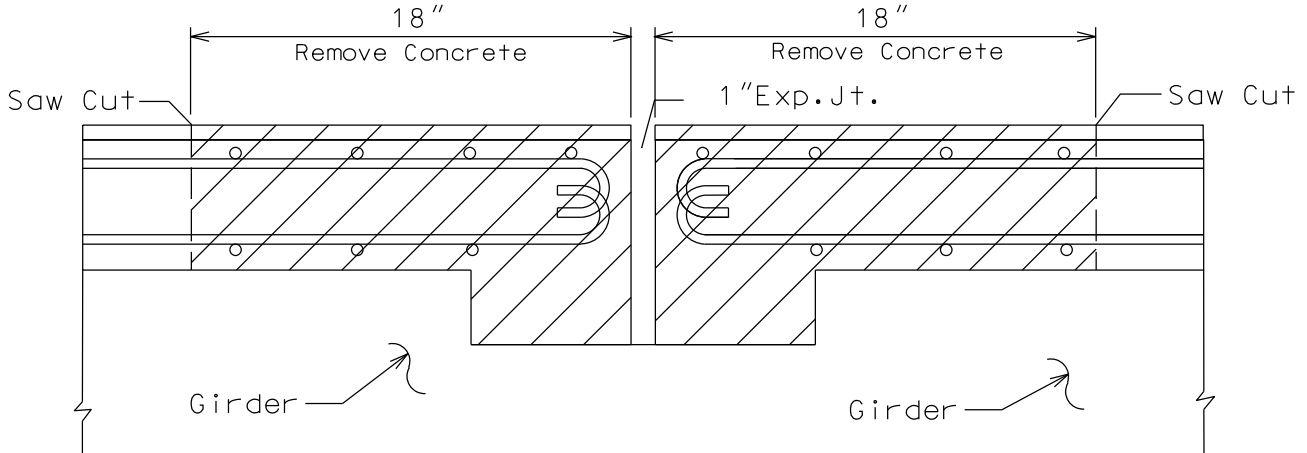


ELIMINATE TRANSVERSE JOINT DETAIL

BRIDGES

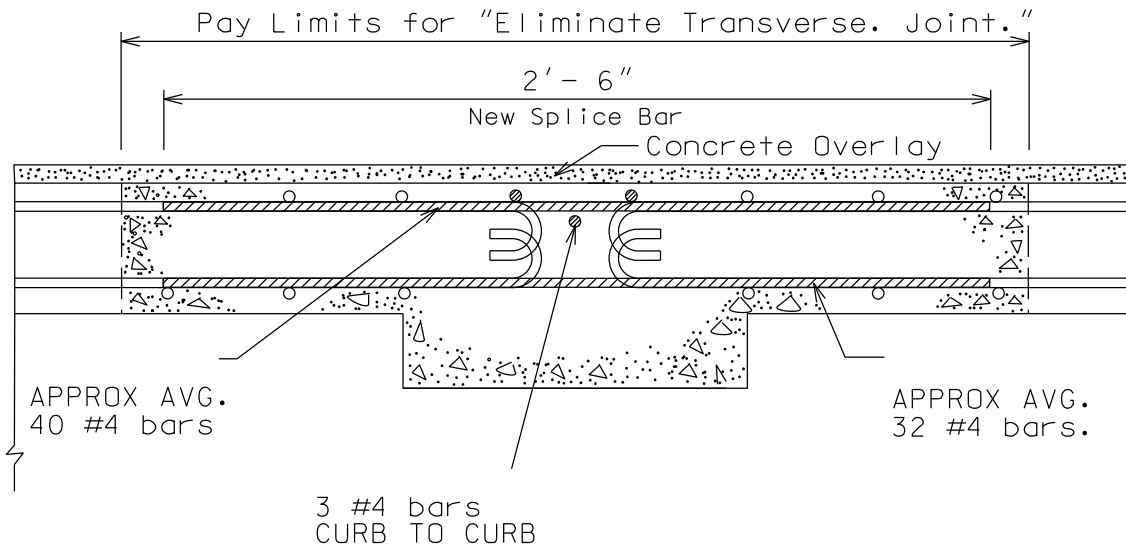
006B00037N
035B00044N
045B00034N
068B00011N

068B00039N



NOTE: Do not disturb existing
Steel Reinforcement

EXISTING SECTION @ Transverse Joint

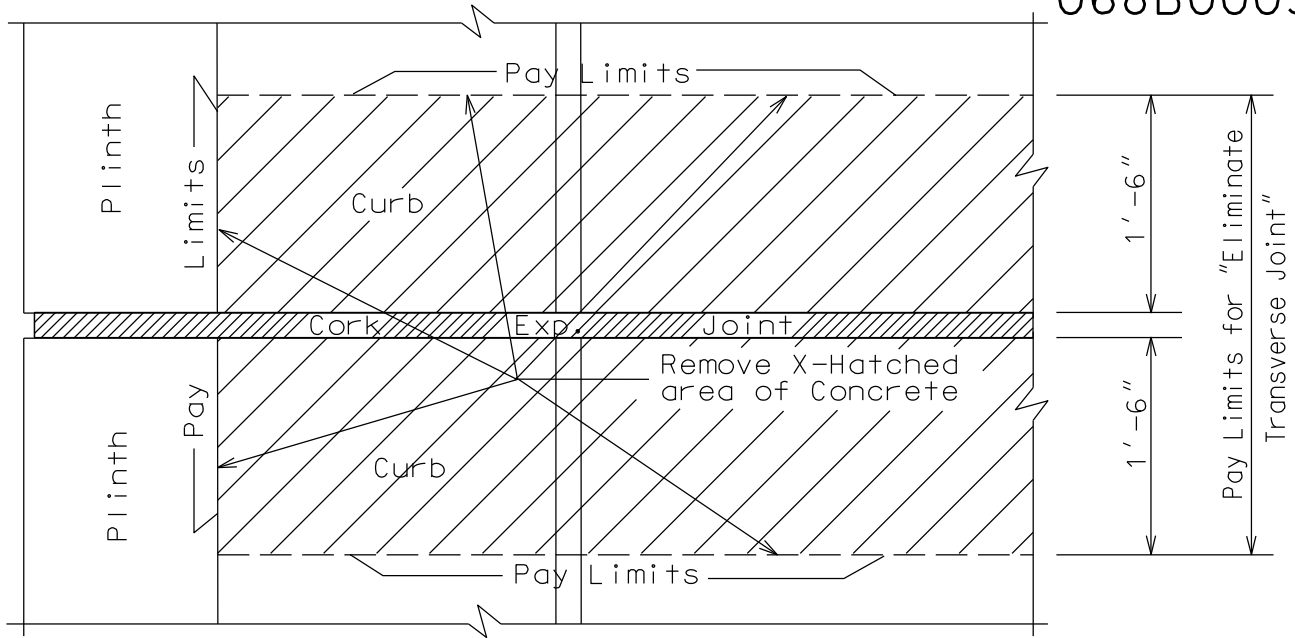


PROPOSED SECTION @ Transverse Joint

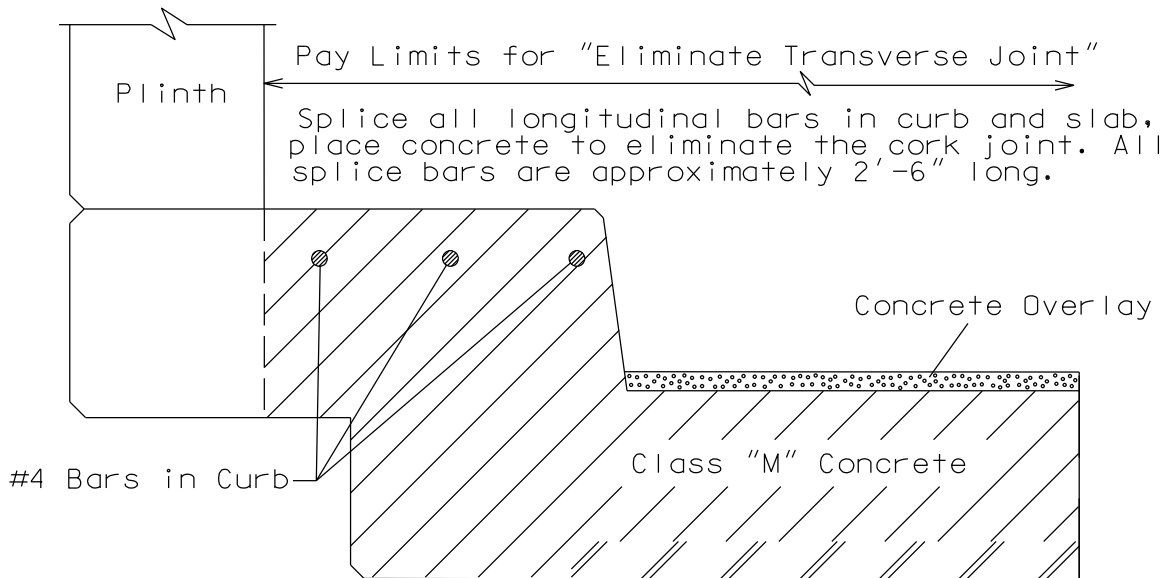
ELIMINATE TRANSVERSE JOINT DETAIL

BRIDGES
006B00037N
035B00044N
045B00034N
068B00011N

068B00039N



EXISTING PLAN VIEW @ CURB

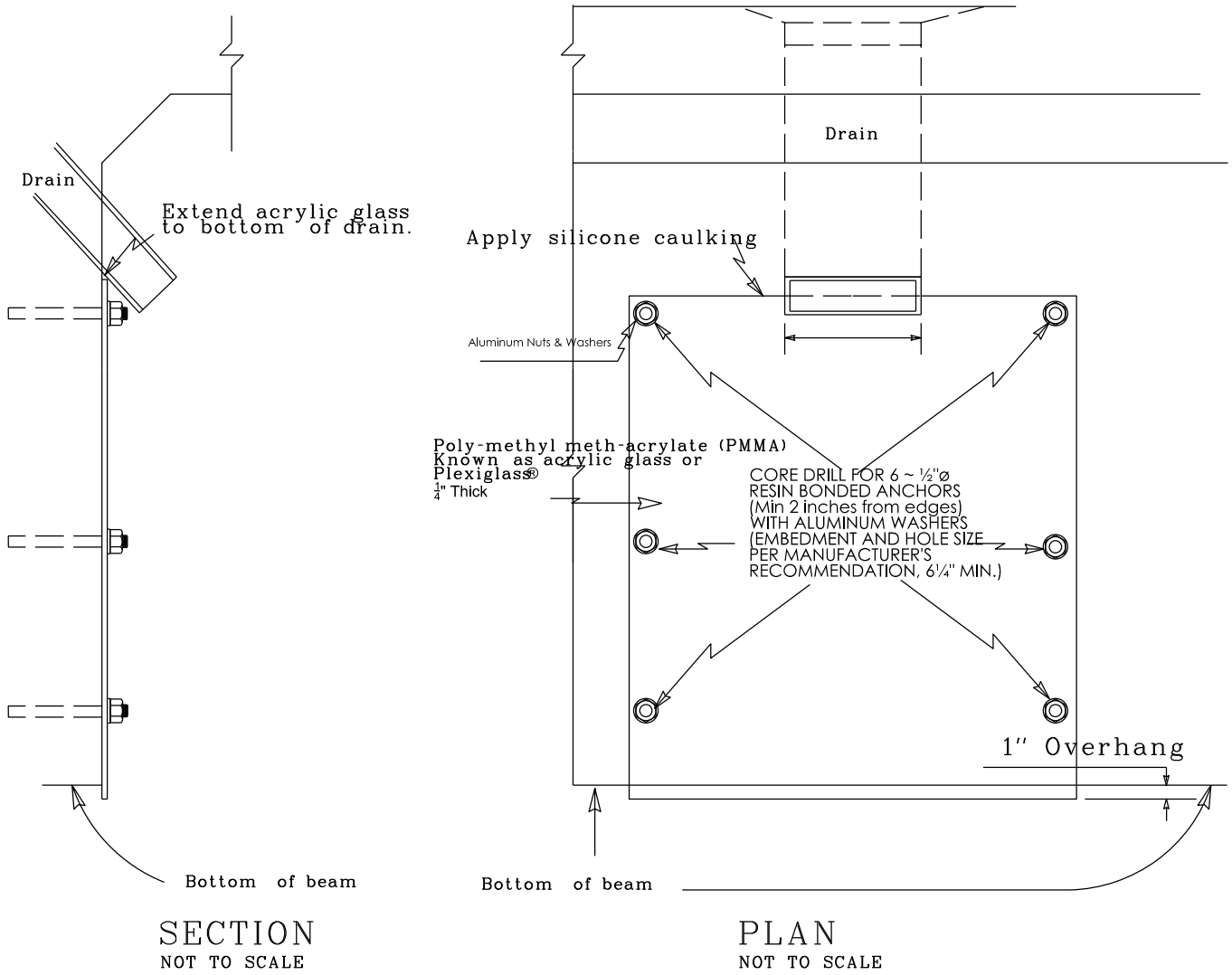


PROPOSED SECTION @ CURB

ACRYLIC GLASS DETAIL

045B00034N: 46 drains, 15"x24" pieces = 115 sqft
068B00011N: 8 drains, 17"x24" pieces = 22.75 sqft

BRIDGES
045B00034N
068B00011N



SECTION
NOT TO SCALE

PLAN
NOT TO SCALE

CONTRACT ID: 112902
COUNTY: VARIOUS
PROPOSAL: 121GR11M006-FE02

PAGE: 1
LETTING: 02/18/11
CALL NO: 429

LINE NO	ITEM	DESCRIPTION	APPROXIMATE QUANTITY	UNIT	UNIT PRICE	AMOUNT
SECTION 0001 BRIDGE						
0010	02562	SIGNS (REVISED: 2-16-11)	894.000	SQFT		
0020	02650	MAINTAIN & CONTROL TRAFFIC 006B00037N	(1.00)	LS		
0030	02650	MAINTAIN & CONTROL TRAFFIC 010B00033N	(1.00)	LS		
0040	02650	MAINTAIN & CONTROL TRAFFIC 035B00044N	(1.00)	LS		
0050	02650	MAINTAIN & CONTROL TRAFFIC 045B00034N	(1.00)	LS		
0060	02650	MAINTAIN & CONTROL TRAFFIC 068B00011N	(1.00)	LS		
0070	02650	MAINTAIN & CONTROL TRAFFIC 068B00039N	(1.00)	LS		
0080	02653	LANE CLOSURE (REVISED: 2-16-11)	12.000	EACH		
0090	03294	EXPAN JOINT REPLACE 1 1/2 IN	56.000	LF		
0100	03295	EXPAN JOINT REPLACE 2 IN	48.000	LF		
0110	03299	ARMORED EDGE FOR CONCRETE (REVISED: 2-16-11)	312.000	LF		
0120	03300	ELIMINATE TRANSVERSE JOINT (REVISED: 2-16-11)	433.000	LF		
0130	03302	REPAIR CONCRETE CURB	130.000	LF		
0140	03304	BRIDGE OVERLAY APPROACH PAVEMENT (REVISED: 2-16-11)	1,869.000	SQYD		
0150	04933	TEMP SIGNAL 2 PHASE (REVISED: 2-16-11)	6.000	EACH		
0160	04934	TEMP SIGNAL MULTI PHASE (ADDED: 2-16-11)	1.000	EACH		
0170	06514	PAVE STRIPING-PERM PAINT-4 IN (REVISED: 2-16-11)	3,050.000	LF		
0180	06549	PAVE STRIPING-TEMP REM TAPE-B (REVISED: 2-16-11)	3,000.000	LF		
0190	06550	PAVE STRIPING-TEMP REM TAPE-W (REVISED: 2-16-11)	6,000.000	LF		
0200	06551	PAVE STRIPING-TEMP REM TAPE-Y (REVISED: 2-16-11)	12,000.000	LF		

CONTRACT ID: 112902
COUNTY: VARIOUS
PROPOSAL: 121GR11M006-FE02

PAGE: 2
LETTING: 02/18/11
CALL NO: 429

LINE NO	ITEM	DESCRIPTION	APPROXIMATE QUANTITY	UNIT	UNIT PRICE	AMOUNT
0210	08150	STEEL REINFORCEMENT (REVISED: 2-16-11)	6,377.200	LB		
0220	08504	EPOXY SAND SLURRY (REVISED: 2-16-11)	702.700	SQYD		
0230	08510	REM EPOXY BIT FOREIGN OVERLAY (REVISED: 2-16-11)	2,058.000	SQYD		
0240	08526	CONC CLASS M FULL DEPTH PATCH (REVISED: 2-16-11)	46.400	CUYD		
0250	08526	CONC CLASS M FULL DEPTH PATCH (ADDED: 2-16-11)	4.000	CUYD		
0260	08534	CONCRETE OVERLAY-LATEX (REVISED: 2-16-11)	129.700	CUYD		
0270	08549	BLAST CLEANING (REVISED: 2-16-11)	3,038.000	SQYD		
0280	08551	MACHINE PREP OF SLAB	277.000	SQYD		
0290	20599EC	CONCRETE BEAM REPAIR (REVISED: 2-16-11)	129.000	SQFT		
0300	22146EN	CONCRETE PATCHING REPAIR (REVISED: 2-16-11)	111.000	SQFT		
0310	23879EC	ACRYLIC GLASS (REVISED: 2-16-11)	137.750	SQFT		
SECTION 0002 DEMOBILIZATION						
0320	02569	DEMOBILIZATION (AT LEAST 1.5%)		LUMP		
		TOTAL BID				