



Matthew G. Bevin
Governor

**COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET**

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

Greg Thomas
Secretary

September 18, 2018

CALL NO. 105
CONTRACT ID NO. 181038
ADDENDUM # 1

Subject: JEFFERSON COUNTY, STP 8732 (018)
Letting September 21, 2018

- (1) Revised - Bridge Digout Detail Sheet - Page 31 of 150
- (2) Revised - Pavement Rehab General Summary Sheet - Pages 32-33 of 150
- (3) Revised - Special Notes References - Page 60 of 150
- (4) Added - Special Note for Inlaid Pavement Markers - Pages 88(a)-88(d) of 150
- (5) Revised - Proposal Bid Items - Pages 149-150 of 150

Proposal revisions are available at <http://transportation.ky.gov/Construction-Procurement/>.

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

Sincerely,

A handwritten signature in black ink that reads "Rachel Mills".

Rachel Mills, P.E.
Director
Division of Construction Procurement

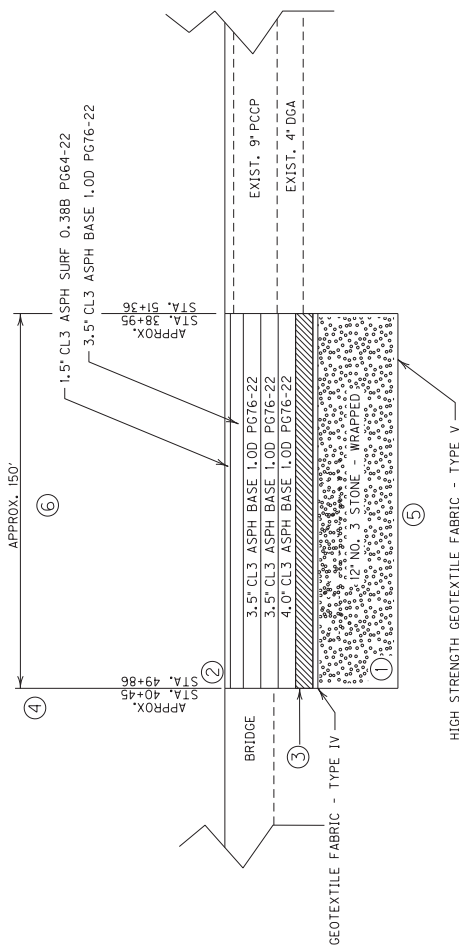
RM:mr
Enclosures



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COUNTY OF	ITEM NO.	SHEET NO.
JEFFERSON	5-20026.00	

BRIDGE DIGOUT DETAIL



- ① INSTALL 6" PERFORATED PIPE AT LOW END OF DIGOUT.
- ② SURFACE COURSE WILL BE 0.25 INCHES ABOVE EXISTING BRIDGE DECK.
- ③ 4" DCA BASE FOR PAVING PLATFORM
- ④ DIGOUT WIDTH WILL BE MAINLINE DRIVING LANES AND MEDIAN.
TOTAL WIDTH = 68'
- ⑤ ANY EXCAVATION FOR UNDERCUT WILL BE INCIDENTAL TO THE
UNIT BID PRICE "CRUSHED AGGREGATE NO. 3"
- ⑥ THE FINAL SURFACE COURSE IS NOT TO BE PLACED UNTIL AT LEAST ONE WEEK
AFTER PLACEMENT OF THE TOP BASE COURSE IN THE DIGOUT AREAS.

BRIDGE END DIGOUT

PAVEMENT DETAILS

NOT TO SCALE

**KY 1065 (OUTER LOOP) PAVEMENT REHABILITATION
JEFFERSON COUNTY MILEPOST 2.504-5.25
ITEM NUMBER: 5-20026.00
GENERAL SUMMARY**

ITEM NUMBER	ITEM	NOTE	QUANTITY	UNIT
0001	DGA BASE	3	611	TON
0069	CRUSHED AGGREGATE SIZE NO. 3	2	100	TON
0100	ASPHALT SEAL AGGREGATE		91	TON
0103	ASPHALT SEAL COAT		11	TON
0216	CL3 ASPH BASE 1.00D PG76-22		1,344	TON
0356	ASPHALT MATERIAL FOR TACK		8	TON
0388	CL3 ASPH SURF 0.38B PG64-22		1,085	TON
1000	PERFORATED PIPE - 4 IN	2	200	LF
1010	NON-PERFORATED PIPE - 4 IN	2	50	LF
1020	PERF PIPE HEADWALL TYPE 1 - 4 IN	2	2	EACH
1820	LIP CURB AND GUTTER		600	LF
1830	STANDARD INTEGRAL CURB		227	LF
1935	MOUNTABLE MEDIAN TYPE 1		209	SQYD
2009	REMOVE ASPHALT MEDIAN		767	SQYD
2058	REMOVE PCC PAVEMENT	5	7,040	SQ YD
2060	PCC PAVEMENT DIAMOND GRINDING		81,715	SQ YD
2073	JPC PAVEMENT - 9 IN	5	7,040	SQ YD
2115	SAW-CLEAN-RESEAL TVERSE JOINT		33,631	LF
2116	SAW-CLEAN-RESEAL LONGIT JOINT		68,431	LF
2200	ROADWAY EXCAVATION	4	1,809	CUYD
2363	GUARDRAIL CONNECTOR TO BRIDGE END TY A	6	1	EACH
2562	TEMPORARY SIGNS	1	250	SQ FT
2568	MOBILIZATION		1	LS
2569	DEMOBILIZATION		1	LS
2599	FABRIC - GEOTEXTILE TYPE IV	2	2,500	SQ YD
2650	MAINTAIN AND CONTROL TRAFFIC		1	LS
2671	PORTABLE CHANGEABLE MESSAGE SIGN	1	6	EACH
2677	ASPHALT PAVE MILLING & TEXTURING		901	TON
2714	SHOULDERING		10,277	LF
2775	ARROW PANEL	1	2	EACH
3260	CLEAN ROADWAY DRAINS		17	EACH
6412	STEEL POST MILE MARKERS		6	EACH
6510	PAVE STRIPING-TEMP PAINT - 4 INCH		18,703	LF
6554	PAVE STRIPING-DUR TY 1-4 IN W		3,620	LF
6555	PAVE STRIPING-DUR TY 1-4 IN Y		2,738	LF
6568	PAVE MARKING-THERMO STOP BAR-24IN		438	LF
6574	PAVE MARKING - THERMO CURV ARROW		34	EACH
6576	PAVE MARKING - THERMO ONLY		2	EACH
6600	REMOVE PAVEMENT MARKER TYPE V		418	EACH
10020NS	FUEL ADJUSTMENT		2,046	DOLL
20750ND	DOWEL BAR RETROFIT		45	EACH
21173EC	SAW-CLEAN-RESEAL RANDOM CRACKS		3,000	LF
21802EN	GUARDRAIL-STEEL W BEAM-S FACE (7FT POST)	6	200	LF
22861EN	HIGH STRENGTH GEOTEXTILE FABRIC TY-V	2	2,500	SQ YD
24401EC	DURABLE WATERBORNE MARKING - 4 IN W		36,130	LF
24402EC	DURABLE WATERBORNE MARKING - 4 IN Y		24,795	LF
24489EC	INLAID PAVEMENT MARKER		418	EACH
24997EC	PARTIAL DEPTH PATCHING - POLYMER MOD		62	CU FT

- (1) Includes initial placement. Any relocation required will not be paid for directly, but will be considered incidental to maintain and control traffic
- (2) To be used as directed by the Engineer.

**KY 1065 (OUTER LOOP) PAVEMENT REHABILITATION
JEFFERSON COUNTY MILEPOST 2.504-5.25
ITEM NUMBER: 5-20026.00
GENERAL SUMMARY**

ITEM NUMBER	ITEM	NOTE	QUANTITY	UNIT
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- (3) 511 tons to be used for asphalt replacement, 100 tons to be used as directed by the Engineer.
 - (4) 1,759 cu yds to be used for bridge dig out asphalt replacement, 50 cu yds to be used as directed by the Engineer.
 - (5) Includes an additional 10% for continuing pavement deterioration.
 - (6) Guardrail to replace at digout location east of bridge, end connector and 200 ft to be used as directed by the Engineer
- NOTE: Quantities from all summaries have been carried over and included in this General Summary

4. Kentucky Transportation Cabinet, Department of Highways, Standard Specifications for Road and Bridge Construction, Edition of 2012 - Supplemental Specifications, as applicable:

Special Note 11	Portable Changeable Message Signs (6/15/2012)
Special Note	Full Depth Concrete Repair (8/3/2018) <i>attached</i>
Special Note	Polymer Modified Partial Depth Patching <i>attached</i>
Special Note	Dowel Bar Retrofit <i>attached</i>
Special Note	Typical Section Dimensions <i>attached</i>
Special Note	Bridge Dig Outs <i>attached</i>
Special Note	Removing Existing Pavement Markers on Portland Cement Pavement <i>attached</i>
Special Note	Before You Dig <i>attached</i>
Special Note	Asphalt Milling and Texturing <i>attached</i>
Special Note	Fixed Completion Date and Liquidated Damages <i>attached</i>
Special Note	Inlaid Pavement Markers <i>attached</i>
Special Note	Sealing Existing Transverse and Longitudinal Joints and Random Cracks <i>attached</i>
Special Note	Shoulder Preparation and Restoration <i>attached</i> (See MOT Notes)

SPECIAL NOTE FOR INLAID PAVEMENT MARKERS

I. DESCRIPTION

Except as provided herein, perform all work in accordance with the Department's Standard and Supplemental Specifications and applicable Standard and Sepia Drawings, current editions. Article references are to the Standard Specifications. This work shall consist of:

- (1) Maintain and Control Traffic; and (2) Furnish and install Inlaid Pavement Markers (IPMs) in recessed grooves; and (3) Any other work as specified by these notes and the Contract.

II. MATERIALS

The Department will sample all materials in accordance with the Department's Sampling Manual. Make the materials available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing unless otherwise specified in these Notes.

A. Maintain and Control Traffic. See Traffic Control Plan.

B. Markers. Provide reflective lenses with depth control breakaway positioning tabs. Before furnishing the markers, provide to the Engineer the manufacturer's current recommendations for adhesives and installation procedures. Use one brand and design throughout the project. Use markers meeting the specifications in the table below.

SPECIFICATIONS FOR HOUSING AND REFLECTOR	
Material:	Polycarbonate Plastic
Weight:	Housing 2.00 oz.
	Reflector 2.00oz.
Housing Size:	5.00" x 3.00" x 0.70" high
Specific Intensity of Reflectivity at 0.2° Observation Angle	
White:	3.0 at 0°entrance angle
	1.2 at 20°entrance angle
Yellow:	60% of white values
Red:	25% of white values

C. Adhesives. Use adhesives that conform to the manufacturer's recommendations.

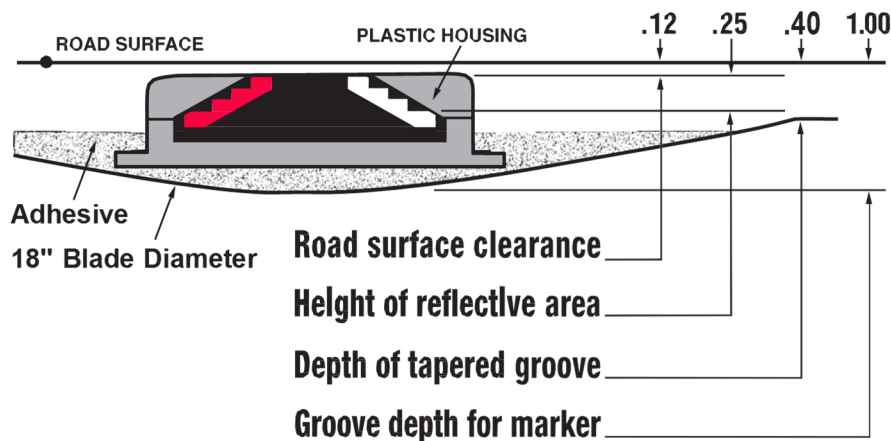
III. CONSTRUCTION

A. Experimental Evaluation. The University of Kentucky Transportation Center will be evaluating this installation of IPMs. Notify the Engineer a minimum of 14 calendar days prior to beginning work. The Engineer will coordinate the University's activities with the Contractor's work.

B. Maintain and Control Traffic. See Traffic Control Plan.

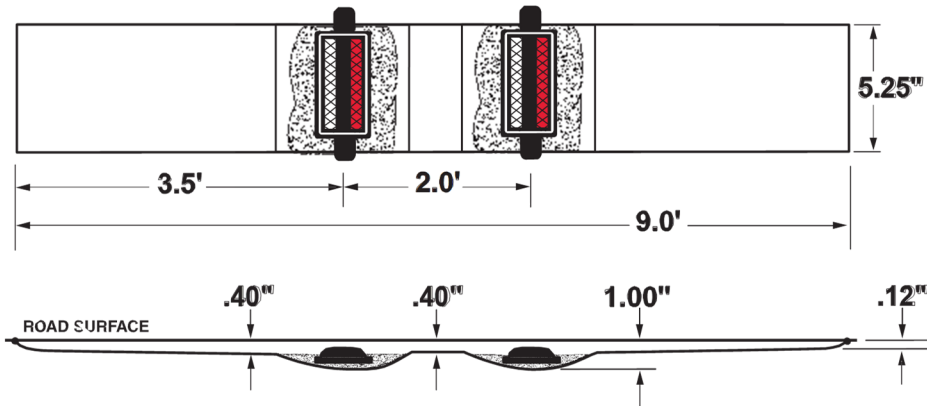
C. Installation. Install IPMs in recessed grooves cut into the final course of asphalt pavement according to the manufacturer's recommendations. Do not cut the grooves until the pavement has cured sufficiently to prevent tearing or raveling. Cut installation grooves using diamond blades on saws that accurately control groove dimensions. Remove all dirt, grease, oil, loose or unsound layers, and any other material from the marker area which would reduce the bond of the adhesive. Maintain pavement surfaces in a clean condition until placing markers.

Prepare the pavement surfaces, and install the markers in the recessed groove according to the drawing below. Use an approved snowplowable epoxy adhesive. Ensure that the adhesive bed area is equal to the bottom area of the marker, and apply adhesive in sufficient quantity to force excess out around the entire perimeter of the marker. Use materials, equipment, and construction procedures that ensure proper adhesion of the markers to the pavement surface according to the manufacturer's recommendations. Remove all excess adhesive from in front of the reflective faces. If any adhesive or foreign matter cannot be removed from the reflective faces, or if any marker fails to properly adhere to the pavement surface, remove and replace the marker at no additional cost to the Department.



D. Location and Spacing. Install the markers in the pattern for high reflectivity with two (2) IPMs per groove. Locate and space markers as shown in the current standard drawings or sepias (note: use Inlaid Pavement Markers wherever Type V Pavement Markers are called for). Do not install markers on bridge decks. Do not install a marker on top of a pavement joint or crack. Offset the recessed groove a minimum of 2 inches from any longitudinal pavement joint or crack and at least one inch from the painted stripe, ensuring that the finished line of markers is straight with minimal

lateral deviation. Give preference to maintaining the 2-inch offset between recessed groove and joint as opposed to keeping the line of markers straight.



Place inlaid markers as much in line with existing pavement striping as possible. Place markers installed along an edge line or channelizing line so that the near edge of the plastic housing is no more than one inch from the near edge of the line. Place markers installed along a lane line between and in line with the dashes. Do not place markers over the lines except where the lines deviate visibly from their correct alignment, and then only after obtaining the Engineer's prior approval of the location.

If conflicts between recessed groove placement in relation to pavement joint and striping cannot be resolved, obtain the Engineer's approval to eliminate the marker or revise the alignment.

- E. Disposal of Waste.** Dispose of all removed asphalt pavement, debris, and other waste at sites off the right of way obtained by the Contractor at no additional cost to the Department. See Special Note for waste and Borrow.
- F. Restoration.** Be responsible for all damage to public and/or private property resulting from the work. Restore all damaged features in like kind materials and design at no additional cost to the Department.
- G. On-Site Inspection.** Make a thorough inspection of the site prior to submitting a bid and be thoroughly familiar with existing conditions so that the work can be expeditiously performed after a contract is awarded. The Department will consider submission of a bid as evidence of this inspection having been made and will not honor any claims for money or grant Contract time extensions resulting from site conditions.
- H. Caution.** Do not take information shown on the drawings and in this proposal and the types and quantities of work listed as an accurate or complete evaluation of the material and conditions to be encountered during construction, but consider the types and quantities of work listed as approximate only. The bidder must draw his own conclusion as to the conditions encountered. The Department does not give any guarantee as to the accuracy of the data and no claim will be considered for additional compensation or extension of Contract time if the conditions encountered are not in

accordance with the information shown.

IV. MEASUREMENT

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. “INLAID PAYMENT MARKER”** shall be measured as each. One (1) installation of “INLAID PAVEMENT MARKER” will consist of grooving the pavement, removing asphalt cuttings and debris, preheating pavement to remove moisture, adhesives, and installation of two (2) markers with all lenses in accordance with this note.

Note: Each pay item of Inlaid Pavement Marker will require two markers.

V. PAYMENT

- A. Maintain and Control Traffic.** See Traffic Control Plan.
- B. Inlaid Pavement Markers.** The Department will make payment for the completed and accepted quantity of completely installed “INLAID PAVEMENT MARKERS” at the Contract unit price, each. Accept payment as full compensation for all labor, equipment, materials, and incidentals to accomplish this work to the satisfaction of the Engineer. A system of one (1) groove and two (2) markers shall be paid as one “INLAID PAVEMENT MARKER”. The bid item “INLAID PAVEMENT MARKER” shall be used regardless of the color and type of lenses required.

PROPOSAL BID ITEMS

181038

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Report Date 9/18/18

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00001		DGA BASE	611.00	TON		\$	
0020	00069		CRUSHED AGGREGATE SIZE NO 3	100.00	TON		\$	
0030	00100		ASPHALT SEAL AGGREGATE	91.00	TON		\$	
0040	00103		ASPHALT SEAL COAT	11.00	TON		\$	
0050	00216		CL3 ASPH BASE 1.00D PG76-22	1,344.00	TON		\$	
0060	00356		ASPHALT MATERIAL FOR TACK	8.00	TON		\$	
0070	00388		CL3 ASPH SURF 0.38B PG64-22	1,085.00	TON		\$	
0080	01820		LIP CURB AND GUTTER	600.00	LF		\$	
0090	01830		STANDARD INTEGRAL CURB	227.00	LF		\$	
0100	01935		MOUNTABLE MEDIAN TYPE 1	209.00	SQYD		\$	
0110	02009		REMOVE ASPHALT MEDIAN	767.00	SQYD		\$	
0120	02058		REMOVE PCC PAVEMENT	7,040.00	SQYD		\$	
0130	02060		PCC PAVEMENT DIAMOND GRINDING	81,715.00	SQYD		\$	
0140	02073		JPC PAVEMENT-9 IN	7,040.00	SQYD		\$	
0150	02115		SAW-CLEAN-RESEAL TVERSE JOINT	33,631.00	LF		\$	
0160	02116		SAW-CLEAN-RESEAL LONGIT JOINT	68,431.00	LF		\$	
0170	02676		MOBILIZATION FOR MILL & TEXT	1.00	LS		\$	
0180	02677		ASPHALT PAVE MILLING & TEXTURING	901.00	TON		\$	
0190	20750ND		DOWEL BAR RETROFIT	45.00	EACH		\$	
0200	21173EC		SAW-CLEAN-RESEAL RANDOM CRACKS	3,000.00	LF		\$	
0210	24997EC		PARTIAL DEPTH PATCHING-POLYMER MOD	62.00	CUFT		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0220	02200		ROADWAY EXCAVATION	1,809.00	CUYD		\$	
0230	02363		GUARDRAIL CONNECTOR TO BRIDGE END TY A	1.00	EACH		\$	
0240	02562		TEMPORARY SIGNS	250.00	SQFT		\$	
0250	02599		FABRIC-GEOTEXTILE TYPE IV	2,500.00	SQYD		\$	
0260	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0270	02671		PORTABLE CHANGEABLE MESSAGE SIGN	6.00	EACH		\$	
0280	02714		SHOULDERING	10,277.00	LF		\$	
0290	02775		ARROW PANEL	2.00	EACH		\$	
0300	06412		STEEL POST MILE MARKERS	6.00	EACH		\$	
0310	06510		PAVE STRIPING-TEMP PAINT-4 IN	18,703.00	LF		\$	
0320	06554		PAVE STRIPING-DUR TY 1-4 IN W	3,620.00	LF		\$	
0330	06555		PAVE STRIPING-DUR TY 1-4 IN Y	2,738.00	LF		\$	
0340	06568		PAVE MARKING-THERMO STOP BAR-24IN (REVISED: 9-18-18)	438.00	LF		\$	
0350	06574		PAVE MARKING-THERMO CURV ARROW	34.00	EACH		\$	
0360	06576		PAVE MARKING-THERMO ONLY	2.00	EACH		\$	
0380	06600		REMOVE PAVEMENT MARKER TYPE V	418.00	EACH		\$	
0390	10020NS		FUEL ADJUSTMENT	2,046.00	DOLL	\$1.00	\$	\$2,046.00
0400	21802EN		G/R STEEL W BEAM-S FACE (7 FT POST)	200.00	LF		\$	
0410	22861EN		HIGH STRENGTH GEOTEXTILE FABRIC TY V	2,500.00	SQYD		\$	

PROPOSAL BID ITEMS

181038

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Report Date 9/18/18

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0420	24401EC		DURABLE WATERBORNE MARKING-4 IN W	36,130.00	LF		\$	
0430	24402EC		DURABLE WATERBORNE MARKING-4 IN Y	24,795.00	LF		\$	
0435	24489EC		INLAID PAVEMENT MARKER (ADDED: 9-18-18)	418.00	EACH		\$	

Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0440	01000		PERFORATED PIPE-4 IN	200.00	LF		\$	
0450	01010		NON-PERFORATED PIPE-4 IN	50.00	LF		\$	
0460	01020		PERF PIPE HEADWALL TY 1-4 IN	2.00	EACH		\$	
0470	03260		CLEAN ROADWAY DRAINS	17.00	EACH		\$	

Section: 0004 - SIGNALIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0480	04792		CONDUIT-1 IN	200.00	LF		\$	
0490	04811		ELECTRICAL JUNCTION BOX TYPE B	20.00	EACH		\$	
0500	04820		TRENCHING AND BACKFILLING	945.00	LF		\$	
0510	04830		LOOP WIRE	12,655.00	LF		\$	
0520	04850		CABLE-NO. 14/1 PAIR	7,455.00	LF		\$	
0530	04895		LOOP SAW SLOT AND FILL	4,940.00	LF		\$	
0540	24900EC		PVC CONDUIT-1 1/4 IN-SCHEDULE 80	920.00	LF		\$	
0550	24963ED		LOOP TEST	41.00	EACH		\$	

Section: 0005 - MOBILIZATION AND/OR DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0560	02568		MOBILIZATION	1.00	LS		\$	
0570	02569		DEMOBILIZATION	1.00	LS		\$	