



**COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET**
Frankfort, Kentucky 40622
www.transportation.ky.gov/

Matthew G. Bevin
Governor

Greg Thomas
Secretary

February 14, 2017

CALL NO. 100
CONTRACT ID NO. 171008
ADDENDUM # 1

Subject: Letcher County, NHPP 1191 (052)
Letting February 24, 2017

- (1) Revised - Plans - R2E
- (2) Revised - Bid Items - Pages 86-87 of 87
- (3) Added - Special Note - Pages 1-4 of 4

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

Plan revisions are available at <http://www.lynnimaging.com/kytransportation/>.

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

Sincerely,

A handwritten signature in cursive script that reads "Rachel Mills".

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

RM:ks
Enclosures



An Equal Opportunity Employer M/F/D

GENERAL SUMMARY

NOTE: THIS PROJECT WAS DEVELOPED IN METRIC UNITS, BID ITEMS AND QUANTITIES ARE SHOWN IN ENGLISH UNITS.

ITEM CODE	ITEM	NOTE	UNIT	QUANTITY
01891	ISLAND HEADER CURB TYPE 2		LF	275
01987	DELINEATOR FOR GUARDRAIL B/W		EACH	446
02014	BARRICADE - TYPE III	①	EACH	10
02091	REMOVE PAVEMENT		SOYD	3,318
02159	TEMP DITCH		LF	400
02160	CLEAN TEMP DITCH		LF	400
02241	RESHAPING AND COMPACTING	②	LF	8,457
02242	WATER	④	MGAL	500
02230	EMBANKMENT IN PLACE		CUYD	5,614
02351	GUARDRAIL-STEEL W BEAM-S FACE	③	LF	22,712.5
02360	GUARDRAIL TERMINAL SECTION NO 1		EACH	6
02363	GUARDRAIL CONNECTOR TO BRIDGE END TY A		EACH	22
02367	GUARDRAIL END TREATMENT TYPE 1		EACH	25
02371	GUARDRAIL END TREATMENT TYPE 7		EACH	1
02395	REMOVE GUARDRAIL TERMINAL SECTION		EACH	6
02545	CLEARING AND GRUBBING	⑤	LS	1
02562	SIGNS	①	SOFT	386
02568	MOBILIZATION		LS	1
02569	DEMOBILIZATION		LS	1
02585	EDGE KEY		LF	159
02650	MAINTAIN AND CONTROL TRAFFIC		LS	1
02696	SHOULDER RUMBLE STRIPS-SAWED		LF	51,703
02701	TEMP SILT FENCE		LF	400
02703	SILT TRAP TYPE A		EACH	2
02706	CLEAN SILT TRAP TYPE A		EACH	2
02726	STAKING		LS	1
05952	TEMP MULCH		SOYD	10,400
05953	TEMP SEEDING & PROTECTION		SOYD	10,400
05963	INITIAL FERTILIZER		TON	0.3
05964	20-10-10 FERTILIZER		TON	0.5
05992	AGRICULTURAL LIMESTONE		TON	22
15094	MANHOLE ADJUST TO GRADE	⑦	EACH	1
20000ES724	TREE (BARE ROOT SEEDLINGS)	⑥	EACH	50
20458ES403	CENTERLINE RUMBLE STRIPS		LF	26,050
10020NS	FUEL ADJUSTMENT		DOLLAR	60,133
10030NS	ASPHALT ADJUSTMENT		DOLLAR	118,363
02731	REMOVE STRUCTURE	⑧	LS	1
24489EC	INLAID PAVEMENT MARKER	⑨	EACH	452
06514	PAVE STRIPING-PERM PAINT-4 IN		LF	109,358
06567	PAVE MARKING-THERMO STOP BAR-12IN		LF	74
06568	PAVE MARKING-THERMO STOP BAR-24IN		LF	38
06570	PAVE MARKING-PAINT CROSS HATCH		SF	100
06574	PAVE MARKING-THERMO CURV ARROW		EACH	4

- ① FOR MAINTENANCE OF TRAFFIC
- ② THIS IS FOR THE LENGTH OF THE PROJECT HAVING EXPOSED ROCK ROADBED OR AS DETERMINED BY THE ENGINEER
- ③ SHOP-CURVED GUARDRAIL LENGTHS HAVE BEEN INCREASED BY 1.3 TIMES THE ACTUAL LENGTH (APPROX 125 LF ADDITIONAL)
- ④ ONLY FOR THE CONTROL OF DUST CAUSED BY MAINTENANCE OF TRAFFIC OPERATIONS
- ⑤ ESTIMATED AT APPROXIMATELY 2 ACRES
- ⑥ SEE REVEGETATION PLAN ON SHEET R29 FOR DETAILS
- ⑦ FOR ADJUSTING EXISTING MANHOLE RISER LEFT APPROXIMATE STA 48+044 TO GRADE
- ⑧ FOR REMOVAL OF THE EXISTING BRIDGE LT OF APPROXIMATE STA 50+900. ALL MATERIALS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN ACCORDANCE WITH THE CONTRACT AND SPECIFICATIONS. THE REMOVAL AND DISPOSAL OF ALL MATERIALS COMPOSING THE EXISTING BRIDGE, AS WELL AS ANY SITE GRADING DEEMED NECESSARY BY THE ENGINEER, SHALL BE INCIDENTAL TO THIS ITEM.
- ⑨ REFER TO 'SPECIAL NOTE FOR INLAID PAVEMENT MARKERS'.

EARTHWORK TOTALS

COMMON*	1,391 CU YD
STOCKPILED GRANULAR MATERIAL (FOR ROCK ROADBED)	1,500 CU YD
TOTAL EXCAVATION	2,891 CU YD
ROCK ROADBED	1,024 CU YD
EMBANKMENT**	4,590 CU YD
TOTAL EMBANKMENT	5,614 CU YD

- * INCLUDES 5 CY FOR ENTRANCE
- ** INCLUDES 2,040 CY FOR ENTRANCE

THE CONTRACTOR IS ADVISED THAT THE EARTHWORK FIGURES ABOVE ARE SHOWN FOR INFORMATION PURPOSES ONLY. ASSUMPTIONS FOR SHRINK AND SWELL FACTORS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

METRIC

GENERAL SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
LETCHER	12-311.79	R2E

REVISED 2-13-17

NOTE: THIS PROJECT WAS DEVELOPED IN METRIC UNITS, BID ITEMS AND QUANTITIES ARE SHOWN IN ENGLISH UNITS.

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02160	CLEAN TEMP DITCH		LF	400
02241	RESHAPING AND COMPACTING	②	LF	8,457
02242	WATER	④	MGAL	500
02230	EMBANKMENT IN PLACE		CUYD	5,614
02351	GUARDRAIL-STEEL W BEAM-S FACE	③	LF	22,712.5
02360	GUARDRAIL TERMINAL SECTION NO 1		EACH	6
02363	GUARDRAIL CONNECTOR TO BRIDGE END TY A		EACH	22
02367	GUARDRAIL END TREATMENT TYPE 1		EACH	25
02371	GUARDRAIL END TREATMENT TYPE 7		EACH	1
02395	REMOVE GUARDRAIL TERMINAL SECTION		EACH	6
02545	CLEARING AND GRUBBING	⑤	LS	1
02562	SIGNS	①	SOFT	386
02568	MOBILIZATION		LS	1
02569	DEMOBILIZATION		LS	1
02585	EDGE KEY		LF	159
02650	MAINTAIN AND CONTROL TRAFFIC		LS	1
02696	SHOULDER RUMBLE STRIPS-SAWED		LF	51,703
02701	TEMP SILT FENCE		LF	400
02703	SILT TRAP TYPE A		EACH	2
02706	CLEAN SILT TRAP TYPE A		EACH	2
02726	STAKING		LS	1
05952	TEMP MULCH		SOYD	10,400
05953	TEMP SEEDING & PROTECTION		SOYD	10,400
05963	INITIAL FERTILIZER		TON	0.3
05964	20-10-10 FERTILIZER		TON	0.5
05992	AGRICULTURAL LIMESTONE		TON	22
15094	MANHOLE ADJUST TO GRADE	⑦	EACH	1
20000ES724	TREE (BARE ROOT SEEDLINGS)	⑥	EACH	50
20458ES403	CENTERLINE RUMBLE STRIPS		LF	26,050
10020NS	FUEL ADJUSTMENT		DOLLAR	60,133
10030NS	ASPHALT ADJUSTMENT		DOLLAR	118,363
02731	REMOVE STRUCTURE	⑧	LS	1
24489EC	INLAID PAVEMENT MARKER	⑨	EACH	452
06514	PAVE STRIPING-PERM PAINT-4 IN		LF	109,358
06567	PAVE MARKING-THERMO STOP BAR-12IN		LF	74
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METRIC

PROPOSAL BID ITEMS

171008

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Report Date 2/14/17

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00003		CRUSHED STONE BASE	36,166.00	TON		\$	
0020	00020		TRAFFIC BOUND BASE	80.00	TON		\$	
0030	00100		ASPHALT SEAL AGGREGATE	511.00	TON		\$	
0040	00103		ASPHALT SEAL COAT	61.40	TON		\$	
0050	00190		LEVELING & WEDGING PG64-22	102.00	TON		\$	
0060	00212		CL2 ASPH BASE 1.00D PG64-22	4,845.00	TON		\$	
0070	00214		CL3 ASPH BASE 1.00D PG64-22	16,202.00	TON		\$	
0080	00301		CL2 ASPH SURF 0.38D PG64-22	4,358.00	TON		\$	
0090	00388		CL3 ASPH SURF 0.38B PG64-22	4,771.00	TON		\$	
0100	02091		REMOVE PAVEMENT	3,318.00	SQYD		\$	
0110	02241		RESHAPING AND COMPACTING	8,457.00	LF		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0120	01891		ISLAND HEADER CURB TYPE 2	275.00	LF		\$	
0130	01987		DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	446.00	EACH		\$	
0140	02014		BARRICADE-TYPE III	10.00	EACH		\$	
0150	02159		TEMP DITCH	400.00	LF		\$	
0160	02160		CLEAN TEMP DITCH	400.00	LF		\$	
0170	02230		EMBANKMENT IN PLACE	5,614.00	CUYD		\$	
0180	02242		WATER	500.00	MGAL		\$	
0190	02351		GUARDRAIL-STEEL W BEAM-S FACE	22,712.50	LF		\$	
0200	02360		GUARDRAIL TERMINAL SECTION NO 1	6.00	EACH		\$	
0210	02363		GUARDRAIL CONNECTOR TO BRIDGE END TY A	22.00	EACH		\$	
0220	02367		GUARDRAIL END TREATMENT TYPE 1	25.00	EACH		\$	
0230	02371		GUARDRAIL END TREATMENT TYPE 7	1.00	EACH		\$	
0240	02395		REMOVE GUARDRAIL TERMINAL SECT	6.00	EACH		\$	
0250	02545		CLEARING AND GRUBBING 2.0 ACRES	1.00	LS		\$	
0260	02562		TEMPORARY SIGNS	386.00	SQFT		\$	
0270	02585		EDGE KEY	159.00	LF		\$	
0280	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0290	02696		SHOULDER RUMBLE STRIPS	51,703.00	LF		\$	
0300	02701		TEMP SILT FENCE	400.00	LF		\$	
0310	02703		SILT TRAP TYPE A	2.00	EACH		\$	
0320	02706		CLEAN SILT TRAP TYPE A	2.00	EACH		\$	
0330	02726		STAKING	1.00	LS		\$	
0335	02731		REMOVE STRUCTURE (ADDED: 2-14-17)	1.00	LS		\$	
0340	05952		TEMP MULCH	10,400.00	SQYD		\$	
0350	05953		TEMP SEEDING AND PROTECTION	10,400.00	SQYD		\$	
0360	05963		INITIAL FERTILIZER	.30	TON		\$	
0370	05964		20-10-10 FERTILIZER	.50	TON		\$	
0380	05992		AGRICULTURAL LIMESTONE	22.00	TON		\$	

PROPOSAL BID ITEMS

171008

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Report Date 2/14/17

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0391	06514		PAVE STRIPING-PERM PAINT-4 IN (ADDED: 2-14-17)	109,358.00	LF		\$	
0392	06567		PAVE MARKING-THERMO STOP BAR-12IN (ADDED: 2-14-17)	74.00	LF		\$	
0393	06568		PAVE MARKING-THERMO STOP BAR-24IN (ADDED: 2-14-17)	38.00	LF		\$	
0394	06570		PAVE MARKING-PAINT CROSS-HATCH (ADDED: 2-14-17)	100.00	SQFT		\$	
0395	06574		PAVE MARKING-THERMO CURV ARROW (ADDED: 2-14-17)	4.00	EACH		\$	
0410	10020NS		FUEL ADJUSTMENT	60,133.00	DOLL	\$1.00	\$	\$60,133.00
0420	10030NS		ASPHALT ADJUSTMENT	118,363.00	DOLL	\$1.00	\$	\$118,363.00
0430	15094		S MANHOLE ADJUST TO GRADE	1.00	EACH		\$	
0440	20000ES724		TREE BARE ROOT SEEDLINGS	50.00	EACH		\$	
0450	20458ES403		CENTERLINE RUMBLE STRIPS	26,050.00	LF		\$	
0455	24489EC		INLAID PAVEMENT MARKER (ADDED: 2-14-17)	452.00	EACH		\$	

Section: 0003 - DEMOBILIZATION &/OR MOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0460	02568		MOBILIZATION	1.00	LS		\$	
0470	02569		DEMOBILIZATION	1.00	LS		\$	

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.

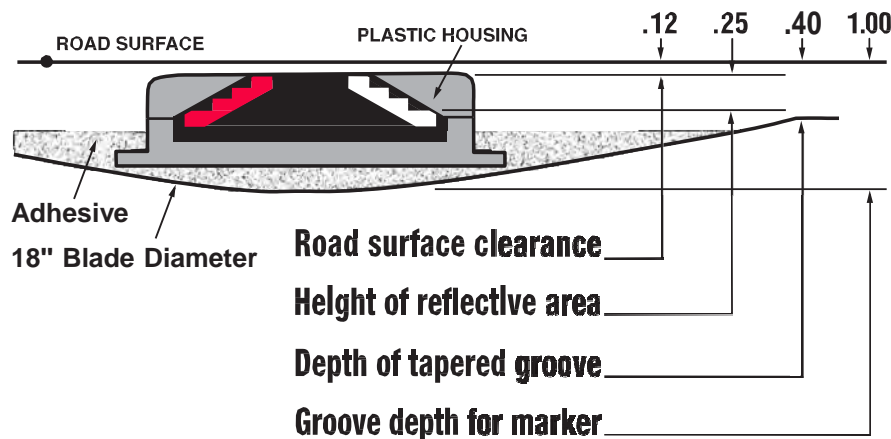
III. CONSTRUCTION

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.

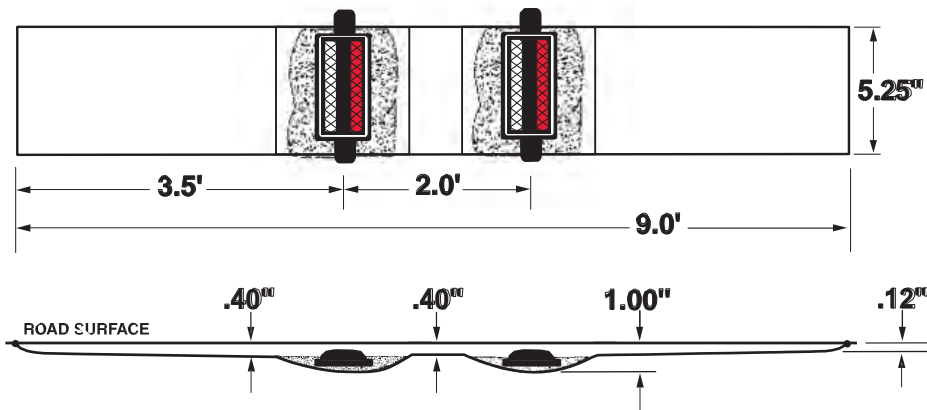
C. Installation. Install IPMs in recessed grooves cut into the final course of asphalt pavement according to the manufacturer's recommendations. Do not cut the grooves until the pavement has cured sufficiently to prevent tearing or raveling. Cut installation grooves using diamond blades on saws that 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.