



Andy Beshear
GOVERNOR

TRANSPORTATION CABINET

200 Mero Street
Frankfort, Kentucky 40601

Jim Gray
SECRETARY

March 18, 2024

CALL NO. 111
CONTRACT ID NO. 244300
ADDENDUM # 2

Subject: Fayette County, HSIP 4181(034)
Letting March 21, 2024

- (1) Added - Special Note - Pages 44A-44C of 314
- (2) Revised - Summary Sheets - Pages 150 & 153 of 314
- (3) Revised - Proposal Bid Items - Pages 312-314 of 314

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

SPECIAL NOTE FOR NON-TRACKING TACK COAT

1. DESCRIPTION AND USEAGE. This specification covers the requirements and practices for applying a non-tracking tack asphalt coating. Place this material on the existing pavement course, prior to placement of a new asphalt pavement layer. Use when expedited paving is necessary or when asphalt tracking would negatively impact the surrounding area. This material is not suitable for other uses. Ensure material can “break” within 15 minutes under conditions listed in 3.2.

2. MATERIALS, EQUIPMENT, AND PERSONNEL.

2.1 Non-Tracking Tack. Provide material conforming to Subsection 2.1.1.

2.1.1 Provide a tack conforming to the following material requirements:

Property	Specification	Test Procedure
Viscosity, SFS, 77 ° F	20 – 100	AASHTO T 72
Sieve, %	0.3 max.	AASHTO T 59
Asphalt Residue ¹ , %	50 min.	AASHTO T 59
Oil Distillate, %	1.0 max.	AASHTO T 59
Residue Penetration, 77 ° F	0 - 30	AASHTO T 49
Original Dynamic Shear (G*/sin δ), 82 ° C	1.0 min.	AASHTO T 315
Softening Point, ° F	149 min.	AASHTO T 53
Solubility, %	97.5 min.	AASHTO T 44

¹ Bring sample to 212 °F over a 10-15 minute period. Maintain 212 °F for 15-20 minutes or until 30-40 mL of water has distilled. Continue distillation as specified in T59.

2.2. Equipment. Provide a distributor truck capable of heating, circulating, and spraying the tack between 170 °F and 180 °F. Do not exceed 180 °F. Circulate the material while heating. Provide the correct nozzles that is recommend by the producer to ensure proper coverage of tack is obtained. Ensure the bar can be raised to between 14” and 18” from the roadway.

2.3. Personnel. Ensure the tack supplier has provided training to the contractor on the installation procedures for this product. Make a technical representative from the supplier available at the request of the Engineer.

3. CONSTRUCTION.

3.1 Surface Preparation. Prior to the application of the non-tracking tack, ensure the pavement surface is thoroughly dry and free from dust or any other debris that would inhibit adhesion. Clean the surface by scraping, sweeping, and the use of compressed air. Ensure this preparation process occurs shortly before application to prevent the return of debris on to the pavement. If rain is expected within one hour after application, do not apply material. Apply material only when the surface is dry, and no precipitation is expected.

3.2 Non-tracking Tack Application. Placement of non-tracking tack is not permitted from October 1st to May 15th. When applying material, ensure the roadway temperature is a minimum of 40°F and rising. Prior to application, demonstrate competence in applying the tack according to this note to the satisfaction of the Engineer. Heat the tack in the distributor to between 170 – 180 °F. After the initial heating, between 170 – 180 °F, the material may be sprayed between 165 °F and 180 °F. Do not apply outside this temperature range. Apply material at a minimum rate of 0.70 pounds (0.08 gallons) per square yard. Ensure full coverage of the material on the pavement surface. Full coverage of this material is critical. Increase material application rate if needed to achieve full coverage. Schedule the work so that, at the end of the day's production, all non-tracking tack is covered with the asphalt mixture. If for some reason the non-tracking tack cannot be covered by an asphalt mixture, ensure the non-tracking tack material is clean and reapply the non-tracking tack prior to placing the asphalt mixture. Do not heat material more than twice in one day.

3.3 Non-tracking Tack Certification. Furnish the tack certification to the Engineer stating the material conforms to all requirements herein prior to use.

3.4 Sampling and Testing. The Department will require a sample of non-tracking tack be taken from the distributor at a rate of one sample per 15,000 tons of mix. Take two 1 gallon samples of the heated material and forward the sample to the Division of Materials for testing within 7 days. Ensure the product temperature is between 170 and 180 °F at the time of sampling.



4. MEASUREMENT. The Department will measure the quantity of non-tracking tack in tons. The Department will not measure for payment any extra materials, labor, methods, equipment, or construction techniques used to satisfy the requirements of this note. The Department will not measure for payment any trial applications of non-tracking tack, the cleaning of the pavement surface, or furnishing and placing the non-tracking tack. The Department will consider all such items incidental to the non-tracking tack.
5. PAYMENT. The Department will pay for the non-tracking tack at the Contract unit bid price and apply an adjustment for each manufacturer's lot of material based on the degree of compliance as defined in the following schedule. Non-tracking tack will not be permitted for use from October 1st to May 15th. During this timeframe, the department will allow the use of an approved asphalt emulsion in lieu of a non-tracking tack product but will not adjust the unit bid price of the material. When a sample fails on two or more tests, the Department may add the deductions, but the total deduction will not exceed 100 percent.

Non-Tracking Tack Price Adjustment Schedule						
Test	Specification	100% Pay	90% Pay	80% Pay	50% Pay	0% Pay
Viscosity, SFS, 77 ° F	20 – 100	19 - 102	17 - 18	15 - 16	14	≤13
			103 - 105	106 - 107	108 - 109	≥ 110
Sieve, %	0.30 max.	≤ 0.40	0.41 - 0.50	0.51 - 0.60	0.61 - 0.70	≥ 0.71
Asphalt Residue, %	50 min.	≥49.0	48.5 – 48.9	48.0 – 48.4	47.5-47.9	≤ 47.4
Oil Distillate, %	1.0 max.	≤1.0	1.1-1.5	1.6 - 1.7	1.8-1.9	>2.0
Residue Penetration, 77 ° F.	30 max.	≤ 31	32 - 33	34 - 35	36 - 37	≥ 38
Original Dynamic Shear (G*/sin δ), 82 ° C	1.0 min.	≥0.95	0.92 – 0.94	0.90 – 0.91	0.85 - 0.89	≤ 0.84
Softening Point, ° F	149 min.	≥145	142 - 144	140 - 141	138 - 139	≤ 137
Solubility, %	97.5 min.	≥ 97.0	96.8 – 96.9	96.6 – 96.7	96.4 – 96.5	≤ 96.3

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
24970EC	Asphalt Material for Tack Non-Tracking	Ton

Revised: May 23, 2022

<div style="display: flex; justify-content: space-between; align-items: center;">  <div style="text-align: center;"> <p>Highway Safety Improvement Program</p> <p>Item No: 7-9012.51</p> <p>County: Fayette</p> <p>Route: KY 418</p> </div>  </div>			
GENERAL SUMMARY			
ITEM NO	ITEM	UNIT	QTY
PAVING			
00003	CSB ①	TON	6568
00100	ASPHALT SEAL AGGREGATE	TON	35
00103	ASPHALT SEAL COAT	TON	5
00190	LEVELING & WEDGING PG64-22 ②	TON	70
00217	CL4 ASPH BASE 1.0D PG 64-22	TON	2869
00219	CL4 ASPH BASE 1.0D PG 76-22	TON	1144
00342	CL4 ASPH SURF 0.38A PG 76-22	TON	3139
24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	TON	22
02677	ASPH PAVE MILL & TEXTURING ③	TON	3964
02696	SHOULDER RUMBLE STRIPS	LF	5759
ROADWAY			
01921	STANDARD BARRIER MEDIAN TYPE 4	SQYD	2536
02014	BARRICADE-TYPE III	EACH	4
02159	TEMP DITCH	LF	1084
02200	ROADWAY EXCAVATION	CUYD	5929
02429	R/W MONUMENT TYPE 1	EA	6
02432	WITNESS POST	EA	6
02483	CHANNEL LINING CLASS II	TON	803
02545	CLEARING AND GRUBBING	LS	1
02650	MAINTAIN & CONTROL TRAFFIC	LS	1
02671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	3
02701	TEMP SILT FENCE	LF	1084
02704	SILT TRAP TYPE B	EACH	1
02705	SILT TRAP TYPE C	EACH	1
02707	CLEAN SILT TRAP TYPE B	EACH	1
02708	CLEAN SILT TRAP TYPE C	EACH	1
02720	SIDEWALK-4 IN CONCRETE	SQYD	72
02726	STAKING	LS	1
02775	ARROW PANEL	EACH	4
05953	TEMP SEEDING AND PROTECTION	SQYD	340
05963	INITIAL FERTILIZER	TON	0.3
05964	MAINTENANCE FERTILIZER	TON	0.4
05985	SEEDING AND PROTECTION	SQYD	6776
05992	AGRICULTURAL LIMESTONE	TON	4.2
06510	PAVE STRIPING-TEMP PAINT-4 IN	LF	35267
06542	PAVEMENT STRIPING - THERMO 6" W	LF	12180
06543	PAVEMENT STRIPING - THERMO 6" Y	LF	5380
06546	PAVEMENT STRIPING - THERMO 12" W	LF	107
06568	PAVE MARKING-THERMO STOP BAR-24IN	LF	311
06569	PAVE MARKING-THERMO CROSS-HATCH	SQFT	3256

 <div style="text-align: center;"> Highway Safety Improvement Program Item No: 7-9012.51 County: Fayette Route: KY 418 </div> 			
PAVING AREAS			
ITEM NO	ITEM	UNIT	QUANTITY
FULL DEPTH ASPHALT			
00342	CL4 ASPH SURF 0.38A PG 76-22 (1.5 INCH)	SY	6927
00219	CL4 ASPH BASE 1.0D PG 76-22 (TOP LIFT) (3.00 INCH)	SY	6933
00217	CL4 ASPH BASE 1.0D PG 64-22 (MIDDLE LIFT) (3.75 INCH)	SY	6945
00217	CL4 ASPH BASE 1.0D PG 64-22 (BOTTOM LIFT) (3.75 INCH)	SY	6960
00003	CSB	SY	6975
00100	ASPHALT SEAL AGGREGATE ②	SY	1746
00103	ASPHALT SEAL COAT ①	SY	1746
24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	SY	51908
ASPHALT OVERLAY			
00190	LEVELING & WEDGING PG64-22	SY	228
00342	CL4 ASPH SURF 0.38A PG 76-22	SY	31104
02677	ASPH PAVE MILL & TEXTURING (1.5 INCH)	SY	33636
02677	ASPH PAVE MILL & TEXTURING (4.5 INCH)	SY	4800

Notes:

- ① Application rate of 2.4 lbs/sqyd. Apply two coats.
- ② Application rate of 20 lbs/sqyd. Apply two coats.

PROPOSAL BID ITEMS

244300

Page 1 of 3

Report Date 3/18/24

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00003		CRUSHED STONE BASE	6,568.00	TON		\$	
0020	00100		ASPHALT SEAL AGGREGATE	35.00	TON		\$	
0030	00103		ASPHALT SEAL COAT	5.00	TON		\$	
0040	00190		LEVELING & WEDGING PG64-22	70.00	TON		\$	
0050	00217		CL4 ASPH BASE 1.00D PG64-22	2,869.00	TON		\$	
0060	00219		CL4 ASPH BASE 1.00D PG76-22	1,144.00	TON		\$	
0070	00342		CL4 ASPH SURF 0.38A PG76-22	3,139.00	TON		\$	
0080	24970EC		ASPHALT MATERIAL FOR TACK NON-TRACKING (REVISED 3-18-24)	22.00	TON		\$	
0090	02677		ASPHALT PAVE MILLING & TEXTURING	3,964.00	TON		\$	
0100	02696		SHOULDER RUMBLE STRIPS	5,759.00	LF		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0110	01921		STANDARD BARRIER MEDIAN TYPE 4	2,536.00	SQYD		\$	
0120	02014		BARRICADE-TYPE III	4.00	EACH		\$	
0130	02159		TEMP DITCH	1,084.00	LF		\$	
0140	02200		ROADWAY EXCAVATION	5,929.00	CUYD		\$	
0150	02429		RIGHT-OF-WAY MONUMENT TYPE 1	6.00	EACH		\$	
0160	02432		WITNESS POST	6.00	EACH		\$	
0170	02483		CHANNEL LINING CLASS II	803.00	TON		\$	
0180	02545		CLEARING AND GRUBBING (APPROX. 1.4 ACRES)	1.00	LS		\$	
0190	02650		MAINTAIN & CONTROL TRAFFIC (FAYETTE KY 418)	1.00	LS		\$	
0200	02671		PORTABLE CHANGEABLE MESSAGE SIGN	3.00	EACH		\$	
0210	02701		TEMP SILT FENCE	1,084.00	LF		\$	
0220	02704		SILT TRAP TYPE B	1.00	EACH		\$	
0230	02705		SILT TRAP TYPE C	1.00	EACH		\$	
0240	02707		CLEAN SILT TRAP TYPE B	1.00	EACH		\$	
0250	02708		CLEAN SILT TRAP TYPE C	1.00	EACH		\$	
0260	02720		SIDEWALK-4 IN CONCRETE	72.00	SQYD		\$	
0270	02726		STAKING (FAYETTE KY 418)	1.00	LS		\$	
0280	02775		ARROW PANEL	4.00	EACH		\$	
0290	05953		TEMP SEEDING AND PROTECTION	340.00	SQYD		\$	
0300	05963		INITIAL FERTILIZER	.30	TON		\$	
0310	05964		MAINTENANCE FERTILIZER	.40	TON		\$	
0320	05985		SEEDING AND PROTECTION	6,776.00	SQYD		\$	
0330	05992		AGRICULTURAL LIMESTONE	4.20	TON		\$	
0340	06510		PAVE STRIPING-TEMP PAINT-4 IN	35,267.00	LF		\$	
0350	06542		PAVE STRIPING-THERMO-6 IN W	12,180.00	LF		\$	
0360	06543		PAVE STRIPING-THERMO-6 IN Y	5,380.00	LF		\$	
0370	06546		PAVE STRIPING-THERMO-12 IN W	107.00	LF		\$	
0380	06568		PAVE MARKING-THERMO STOP BAR-24IN	311.00	LF		\$	

PROPOSAL BID ITEMS

244300

Page 2 of 3

Report Date 3/18/24

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0390	06569		PAVE MARKING-THERMO CROSS-HATCH	3,256.00	SQFT		\$	
0400	06574		PAVE MARKING-THERMO CURV ARROW	47.00	EACH		\$	
0410	06575		PAVE MARKING-THERMO COMB ARROW	5.00	EACH		\$	
0420	06576		PAVE MARKING-THERMO ONLY	6.00	EACH		\$	
0430	06610		INLAID PAVEMENT MARKER-MW	154.00	EACH		\$	
0440	06611		INLAID PAVEMENT MARKER-MY	59.00	EACH		\$	
0450	06612		INLAID PAVEMENT MARKER-BY	19.00	EACH		\$	
0460	10020NS		FUEL ADJUSTMENT	13,902.00	DOLL	\$1.00	\$	\$13,902.00
0470	10030NS		ASPHALT ADJUSTMENT	28,982.00	DOLL	\$1.00	\$	\$28,982.00
0480	20550ND		SAWCUT PAVEMENT	3,939.00	LF		\$	
0490	21417ES717		PAVE MARK THERMO CONE CAP-SOLID YELLOW	1,300.00	SQFT		\$	
0500	22680EN		QWICK CURB MEDIAN SEPARATOR	220.00	LF		\$	
0510	22692NS714		PAVEMENT MARKING-THERMO LETTERS	4.00	EACH		\$	
0520	23158ES505		DETECTABLE WARNINGS	47.00	SQFT		\$	
0530	23261EC		PAVE MARK-THERMO-X-WALK-24 IN	236.00	LF		\$	
0540	24679ED		PAVE MARK THERMO CHEVRON	210.00	SQFT		\$	
0550	24683ED		PAVE MARKING-THERMO DOTTED LANE EXTEN	472.00	LF		\$	
0560	24889EC		PAVE MARKING-THERMO U-TURN	14.00	EACH		\$	

Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0570	00441		ENTRANCE PIPE-18 IN	38.00	LF		\$	
0580	00445		ENTRANCE PIPE-30 IN	78.00	LF		\$	
0590	01310		REMOVE PIPE	4.00	LF		\$	

Section: 0004 - SANITARY SEWER

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0600	15062		S FORCE MAIN PVC 10 INCH	180.00	LF		\$	
0610	15076		S FORCE MAIN TIE-IN 10 INCH	2.00	EACH		\$	

Section: 0005 - SIGNING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0620	02562		TEMPORARY SIGNS	250.00	SQFT		\$	
0630	06406		SBM ALUM SHEET SIGNS .080 IN	477.77	SQFT		\$	
0640	06407		SBM ALUM SHEET SIGNS .125 IN	255.25	SQFT		\$	
0650	06410		STEEL POST TYPE 1	857.00	LF		\$	
0660	06490		CLASS A CONCRETE FOR SIGNS	2.00	CUYD		\$	
0670	21596ND		GMSS TYPE D	8.00	EACH		\$	
0680	21596ND		GMSS TYPE D (SURFACE MOUNT)	23.00	EACH		\$	
0690	24631EC		BARCODE SIGN INVENTORY	107.00	EACH		\$	

PROPOSAL BID ITEMS

244300

Page 3 of 3

Report Date 3/18/24

Section: 0006 - SIGNALIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0700	04740		POLE BASE	2.00	EACH		\$	
0710	04780		FUSED CONNECTOR KIT	21.00	EACH		\$	
0720	04820		TRENCHING AND BACKFILLING	2,348.00	LF		\$	
0730	04821		OPEN CUT ROADWAY	1,858.00	LF		\$	
0740	04841		CABLE-NO. 14/2C	680.00	LF		\$	
0750	04845		CABLE-NO. 14/7C	2,755.00	LF		\$	
0760	04881		MAST ARM POLE	4.00	EACH		\$	
0770	04927		COORDINATING UNIT	1.00	EACH		\$	
0780	04933		TEMP SIGNAL 2 PHASE	2.00	EACH		\$	
0790	04953		TEMP RELOCATION OF SIGNAL HEAD	30.00	EACH		\$	
0800	20093NS835		INSTALL PEDESTRIAN HEAD-LED	2.00	EACH		\$	
0810	20188NS835		INSTALL LED SIGNAL-3 SECTION	17.00	EACH		\$	
0820	20391NS835		ELECTRICAL JUNCTION BOX TYPE A	5.00	EACH		\$	
0830	20392NS835		ELECTRICAL JUNCTION BOX TYPE C	20.00	EACH		\$	
0840	20457NS835		INSTALL PED DETECTOR-AUDIBLE	2.00	EACH		\$	
0850	21077ED		FIBER OPTIC CABLE	5,093.00	LF		\$	
0860	21543EN		BORE AND JACK CONDUIT	3,702.00	LF		\$	
0870	22403NN		WEB CAMERA ASSEMBLY	1.00	EACH		\$	
0880	22939ND		INSTALL LUMINAIRE POLE	2.00	EACH		\$	
0890	23157EN		TRAFFIC SIGNAL POLE BASE	14.20	CUYD		\$	
0900	23222EC		INSTALL SIGNAL PEDESTAL	1.00	EACH		\$	
0910	24901EC		PVC CONDUIT-2 IN-SCHEDULE 80	6,242.00	LF		\$	
0920	24908EC		INSTALL SIGNAL CONTROLLER-TY ATC	3.00	EACH		\$	
0930	24923EC		CABINET FIBER TERMINATION PANEL	5.00	EACH		\$	
0940	24955ED		REMOVE SIGNAL EQUIPMENT	2.00	EACH		\$	
0950	26119EC		INSTALL RADAR PRESENCE DETECTOR TYPE A	9.00	EACH		\$	
0960	26120EC		INSTALL RADAR ADVANCE DETECTOR TYPE B	5.00	EACH		\$	
0970	26169EC		INSTALL MAST ARM DAMPENER	6.00	EACH		\$	

Section: 0007 - GUARDRAIL

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0980	01987		DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	8.00	EACH		\$	
0990	02351		GUARDRAIL-STEEL W BEAM-S FACE	400.00	LF		\$	
1000	02360		GUARDRAIL TERMINAL SECTION NO 1	2.00	EACH		\$	
1010	02381		REMOVE GUARDRAIL	1,052.00	LF		\$	

Section: 0008 - DEMOBILIZATION AND MOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1020	02568		MOBILIZATION	1.00	LS		\$	
1030	02569		DEMOBILIZATION	1.00	LS		\$	