



Andy Beshear
GOVERNOR

TRANSPORTATION CABINET

200 Mero Street
Frankfort, Kentucky 40601

Jim Gray
SECRETARY

February 20, 2024

CALL NO. 107
CONTRACT ID NO. 241303
ADDENDUM # 2

Subject: Union County, STP 0561(009)
Letting February 22, 2024

Added - Special Note Pg.29A-29C of 210
Revised - Proposal Bid Items Pg. 206-210 of 210
Revise - Plan Sheet R2F

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

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

Sincerely,

Rachel Mills,

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

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

RM:ce
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

PROPOSAL BID ITEMS

Report Date 2/20/24

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00003		CRUSHED STONE BASE	96,954.00	TON		\$	
0020	00008		CEMENT STABILIZED ROADBED	65,605.00	SQYD		\$	
0030	00020		TRAFFIC BOUND BASE	2,000.00	TON		\$	
0040	00078		CRUSHED AGGREGATE SIZE NO 2	9,415.00	TON		\$	
0050	00100		ASPHALT SEAL AGGREGATE	478.00	TON		\$	
0060	00103		ASPHALT SEAL COAT	58.00	TON		\$	
0070	00190		LEVELING & WEDGING PG64-22	9,101.00	TON		\$	
0080	00212		CL2 ASPH BASE 1.00D PG64-22	40,470.00	TON		\$	
0090	00301		CL2 ASPH SURF 0.38D PG64-22	10,396.00	TON		\$	
0100	00358		ASPHALT CURING SEAL	66.00	TON		\$	
0110	02542		CEMENT	1,444.00	TON		\$	
0120	02702		SAND FOR BLOTTER	164.00	TON		\$	
0130	20071EC		JOINT ADHESIVE	96,350.00	LF		\$	
0135	24970EC		ASPHALT MATERIAL FOR TACK NON-TRACKING (ADDED 2-20-2024)	113.10	TON		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0140	00439		ENTRANCE PIPE-12 IN	43.00	LF		\$	
0150	00440		ENTRANCE PIPE-15 IN	221.00	LF		\$	
0160	00441		ENTRANCE PIPE-18 IN	500.00	LF		\$	
0170	00443		ENTRANCE PIPE-24 IN	57.00	LF		\$	
0180	01004		PERFORATED PIPE-12 IN	98.00	LF		\$	
0190	01650		JUNCTION BOX	1.00	EACH		\$	
0200	01987		DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	83.00	EACH		\$	
0210	02014		BARRICADE-TYPE III	40.00	EACH		\$	
0220	02091		REMOVE PAVEMENT	2,692.00	SQYD		\$	
0230	02101		CEM CONC ENT PAVEMENT-8 IN	337.00	SQYD		\$	
0240	02159		TEMP DITCH	13,943.00	LF		\$	
0250	02160		CLEAN TEMP DITCH	6,971.00	LF		\$	
0260	02200		ROADWAY EXCAVATION	182,544.00	CUYD		\$	
0270	02223		GRANULAR EMBANKMENT	7,000.00	CUYD		\$	
0280	02242		WATER	12.00	MGAL		\$	
0290	02360		GUARDRAIL TERMINAL SECTION NO 1	7.00	EACH		\$	
0300	02367		GUARDRAIL END TREATMENT TYPE 1	8.00	EACH		\$	
0310	02391		GUARDRAIL END TREATMENT TYPE 4A	5.00	EACH		\$	
0320	02429		RIGHT-OF-WAY MONUMENT TYPE 1	149.00	EACH		\$	
0330	02432		WITNESS POST	149.00	EACH		\$	
0340	02475		PLUG WATER WELL	1.00	EACH		\$	
0350	02483		CHANNEL LINING CLASS II	976.00	TON		\$	
0360	02484		CHANNEL LINING CLASS III	63.00	TON		\$	
0370	02545		CLEARING AND GRUBBING (105 ACRES)	1.00	LS		\$	
0380	02562		TEMPORARY SIGNS	800.00	SQFT		\$	

PROPOSAL BID ITEMS

Report Date 2/20/24

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0390	02585		EDGE KEY	294.00	LF		\$	
0400	02602		FABRIC-GEOTEXTILE CLASS 1	10,074.00	SQYD		\$	
0410	02607		FABRIC-GEOTEXTILE CLASS 2 FOR PIPE	11,414.00	SQYD	\$2.00	\$	\$22,828.00
0420	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0430	02651		DIVERSIONS (BY-PASS DETOURS)	1.00	LS		\$	
0440	02671		PORTABLE CHANGEABLE MESSAGE SIGN	6.00	EACH		\$	
0450	02676		MOBILIZATION FOR MILL & TEXT	1.00	LS		\$	
0460	02677		ASPHALT PAVE MILLING & TEXTURING	113.00	TON		\$	
0470	02690		SAFELoading	38.00	CUYD		\$	
0480	02701		TEMP SILT FENCE	13,943.00	LF		\$	
0490	02703		SILT TRAP TYPE A	46.00	EACH		\$	
0500	02704		SILT TRAP TYPE B	91.00	EACH		\$	
0510	02705		SILT TRAP TYPE C	26.00	EACH		\$	
0520	02706		CLEAN SILT TRAP TYPE A	460.00	EACH		\$	
0530	02707		CLEAN SILT TRAP TYPE B	910.00	EACH		\$	
0540	02708		CLEAN SILT TRAP TYPE C	260.00	EACH		\$	
0550	02726		STAKING	1.00	LS		\$	
0560	02731		REMOVE STRUCTURE (12' X 10' RCBC)	1.00	LS		\$	
0570	02731		REMOVE STRUCTURE (4' X 2' RCBC)	1.00	LS		\$	
0580	02731		REMOVE STRUCTURE (6' X 4' RCBC)	1.00	LS		\$	
0590	02731		REMOVE STRUCTURE (6' X 5' RCBC)	1.00	LS		\$	
0600	02731		REMOVE STRUCTURE (8' X 6' RCBC)	1.00	LS		\$	
0610	02775		ARROW PANEL	2.00	EACH		\$	
0620	05950		EROSION CONTROL BLANKET	18,382.00	SQYD		\$	
0630	05952		TEMP MULCH	485,607.00	SQYD		\$	
0640	05953		TEMP SEEDING AND PROTECTION	48,463.00	SQYD		\$	
0650	05963		INITIAL FERTILIZER	15.30	TON		\$	
0660	05964		MAINTENANCE FERTILIZER	27.00	TON		\$	
0670	05985		SEEDING AND PROTECTION	484,626.00	SQYD		\$	
0680	05990		SODDING	4,000.00	SQYD		\$	
0690	05992		AGRICULTURAL LIMESTONE	301.00	TON		\$	
0700	06403		FLEXIBLE DELINEATOR POST-B/W	36.00	EACH		\$	
0710	06510		PAVE STRIPING-TEMP PAINT-4 IN	120,068.00	LF		\$	
0720	06542		PAVE STRIPING-THERMO-6 IN W	60,071.00	LF		\$	
0730	06543		PAVE STRIPING-THERMO-6 IN Y	56,797.00	LF		\$	
0740	06568		PAVE MARKING-THERMO STOP BAR-24IN	552.00	LF		\$	
0750	06578		PAVE MARKING-THERMO MERGE ARROW	6.00	EACH		\$	
0760	06600		REMOVE PAVEMENT MARKER TYPE V	650.00	EACH		\$	
0770	10020NS		FUEL ADJUSTMENT	166,900.00	DOLL	\$1.00	\$	\$166,900.00
0780	10030NS		ASPHALT ADJUSTMENT	227,836.00	DOLL	\$1.00	\$	\$227,836.00
0790	20191ED		OBJECT MARKER TY 3	13.00	EACH		\$	
0800	20362ES403		SHOULDER RUMBLE STRIPS-SAWED	54,033.00	LF		\$	
0810	20458ES403		CENTERLINE RUMBLE STRIPS	26,724.00	LF		\$	
0820	20597EC		DITCH EXCAVATION	180.00	CUYD		\$	
0830	21134ND		REMOVE-STORE AND REINSTALL SIGN	1.00	EACH		\$	
0840	21370ED		LONGITUDINAL SAW CUT- 6 IN	25,040.00	LF		\$	

UNION COUNTY
STP 0561 (009)
241303

PROPOSAL BID ITEMS

Page 3 of 5

Report Date 2/20/24

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0850	21802EN		G/R STEEL W BEAM-S FACE (7 FT POST)	6,087.50	LF		\$	
0860	23274EN11F		TURF REINFORCEMENT MAT 1	15,958.00	SQYD		\$	
0870	24141EC		ASBESTOS CONCRETE PIPE REMOVAL	3,500.00	LF		\$	
0880	24489EC		INLAID PAVEMENT MARKER	842.00	EACH		\$	
0890	24814EC		PIPELINE INSPECTION	3,034.00	LF		\$	
0900	40028		SELECT ROCK FILL EMBANKMENT	90.00	CUYD		\$	

Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0910	00461		CULVERT PIPE-15 IN	97.00	LF		\$	
0920	00462		CULVERT PIPE-18 IN	1,568.00	LF		\$	
0930	00464		CULVERT PIPE-24 IN	301.00	LF		\$	
0940	00466		CULVERT PIPE-30 IN	156.00	LF		\$	
0950	00468		CULVERT PIPE-36 IN	243.00	LF		\$	
0960	00521		STORM SEWER PIPE-15 IN	297.00	LF		\$	
0970	00522		STORM SEWER PIPE-18 IN	335.00	LF		\$	
0980	00524		STORM SEWER PIPE-24 IN	72.00	LF		\$	
0990	01000		PERFORATED PIPE-4 IN	13,490.00	LF		\$	
1000	01001		PERFORATED PIPE-6 IN	6,917.00	LF		\$	
1010	01010		NON-PERFORATED PIPE-4 IN	1,325.00	LF		\$	
1020	01011		NON-PERFORATED PIPE-6 IN	252.00	LF		\$	
1030	01020		PERF PIPE HEADWALL TY 1-4 IN	23.00	EACH		\$	
1040	01024		PERF PIPE HEADWALL TY 2-4 IN	21.00	EACH		\$	
1050	01028		PERF PIPE HEADWALL TY 3-4 IN	16.00	EACH		\$	
1060	01029		PERF PIPE HEADWALL TY 3-6 IN	12.00	EACH		\$	
1070	01033		PERF PIPE HEADWALL TY 4-6 IN	10.00	EACH		\$	
1080	01204		PIPE CULVERT HEADWALL-18 IN	19.00	EACH		\$	
1090	01208		PIPE CULVERT HEADWALL-24 IN	8.00	EACH		\$	
1100	01210		PIPE CULVERT HEADWALL-30 IN	2.00	EACH		\$	
1110	01212		PIPE CULVERT HEADWALL-36 IN	4.00	EACH		\$	
1120	01432		SLOPED BOX OUTLET TYPE 1-15 IN	3.00	EACH		\$	
1130	01433		SLOPED BOX OUTLET TYPE 1-18 IN	20.00	EACH		\$	
1140	01434		SLOPED BOX OUTLET TYPE 1-24 IN	1.00	EACH		\$	
1150	01452		S & F BOX INLET-OUTLET-30 IN	2.00	EACH		\$	
1160	01453		S & F BOX INLET-OUTLET-36 IN	2.00	EACH		\$	
1170	01490		DROP BOX INLET TYPE 1	2.00	EACH		\$	
1180	01496		DROP BOX INLET TYPE 3	2.00	EACH		\$	
1190	01544		DROP BOX INLET TYPE 11	7.00	EACH		\$	
1200	01642		JUNCTION BOX-18 IN	2.00	EACH		\$	
1210	01670		SPRING BOX INLET TYPE B	1.00	EACH		\$	
1220	01741		CORED HOLE DRAINAGE BOX CON-6 IN	9.00	EACH		\$	
1230	03010		PRECAST CONC BOX SECT 6 X 5	72.00	LF		\$	
1240	03011		PRECAST CONC BOX SECT 6 X 4	137.00	LF		\$	
1250	03018		PRECAST CONC BOX SECT 8 X 6	75.00	LF		\$	
1260	08003		FOUNDATION PREPARATION (6' X 4' RCBC)	1.00	LS		\$	
1270	08003		FOUNDATION PREPARATION (6' X 5' RCBC)	1.00	LS		\$	

PROPOSAL BID ITEMS

Report Date 2/20/24

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1280	08003		FOUNDATION PREPARATION (8' X 6' RCBC)	1.00	LS		\$	
1290	08100		CONCRETE-CLASS A	9.90	CUYD		\$	
1300	21541NN		CORED HOLE DRAINAGE BOX CON- 18 IN	1.00	EACH		\$	
1310	23644EC		DROP BOX INLET TY 3-SAG	2.00	EACH		\$	
1320	24695ED		BOX CULVERT HEADWALL (6' X 4')	2.00	EACH		\$	
1330	24695ED		BOX CULVERT HEADWALL (6' X 5')	2.00	EACH		\$	
1340	24695ED		BOX CULVERT HEADWALL (8' X 6')	2.00	EACH		\$	

Section: 0004 - BRIDGE - 27461 - RETAINING WALL

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1350	01000		PERFORATED PIPE-4 IN	134.00	LF		\$	
1360	02220		FLOWABLE FILL	62.00	CUYD		\$	
1370	02223		GRANULAR EMBANKMENT	766.00	CUYD		\$	
1380	02603		FABRIC-GEOTEXTILE CLASS 2	124.00	SQYD		\$	
1390	08039		PRE-DRILLING FOR PILES (ROCK)	234.00	LF		\$	
1400	08039		PRE-DRILLING FOR PILES (SOIL)	204.00	LF		\$	
1410	08053		PILES-STEEL HP14X102	579.00	LF		\$	
1420	08100		CONCRETE-CLASS A	9.60	CUYD		\$	
1430	08101		CONCRETE-CLASS A MOD	49.10	CUYD		\$	
1440	08150		STEEL REINFORCEMENT	1,162.00	LB		\$	
1450	20745ED		ROCK SOUNDINGS	204.00	LF		\$	
1460	20746ED		ROCK CORINGS	349.00	LF		\$	
1470	23642EC		CONCRETE LAGGING	1,247.00	SQFT		\$	
1480	24461ED		DRAINAGE GEOCOMPOSITE	146.00	SQYD		\$	
1490	24619EC		SPLICE PILES	10.00	EACH		\$	

Section: 0005 - BRIDGE - 27460 - RCBC

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1500	08003		FOUNDATION PREPARATION	1.00	LS		\$	
1510	08100		CONCRETE-CLASS A	239.00	CUYD		\$	
1520	08150		STEEL REINFORCEMENT	22,387.00	LB		\$	

Section: 0006 - WATERLINE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1530	14000		W AIR RELEASE VALVE 1 INCH	2.00	EACH		\$	
1540	14001		W AIR RELEASE VALVE 3/4 INCH	6.00	EACH		\$	
1550	14006		W ENCASEMENT STEEL BORED RANGE 1 6 INCH	100.00	LF		\$	

PROPOSAL BID ITEMS

Report Date 2/20/24

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1560	14007		W ENCASEMENT STEEL BORED RANGE 2 8 INCH	247.00	LF		\$	
1570	14008		W ENCASEMENT STEEL BORED RANGE 3 12 INCH	110.00	LF		\$	
1580	14013		W ENCASEMENT STEEL OPEN CUT RANGE 2 8 INCH	443.00	LF		\$	
1590	14014		W ENCASEMENT STEEL OPEN CUT RANGE 3 12 INCH	260.00	LF		\$	
1600	14019		W FIRE HYDRANT ASSEMBLY	3.00	EACH		\$	
1610	14028		W METER 3/4 INCH CONNECT WITH 5/8 INCH EXIST SERVICE	30.00	EACH		\$	
1620	14056		W PIPE PVC 02 INCH PC 200	1,394.00	LF		\$	
1630	14057		W PIPE PVC 03 INCH PC 200	1,573.00	LF		\$	
1640	14058		W PIPE PVC 04 INCH C900 DR 14	7,301.00	LF		\$	
1650	14059		W PIPE PVC 06 INCH C900 DR 14	11,350.00	LF		\$	
1660	14074		W PLUG EXISTING MAIN 2 INCH	1.00	EACH		\$	
1670	14074		W PLUG EXISTING MAIN 3 INCH	1.00	EACH		\$	
1680	14074		W PLUG EXISTING MAIN 4 INCH	10.00	EACH		\$	
1690	14074		W PLUG EXISTING MAIN 6 INCH	4.00	EACH		\$	
1700	14077		W SERV PE/PLST LONG SIDE 1 IN	7.00	EACH		\$	
1710	14080		W SERV PE/PLST LONG SIDE 3/4 IN	4.00	EACH		\$	
1720	14082		W SERV PE/PLST SHORT SIDE 1 IN	7.00	EACH		\$	
1730	14085		W SERV PE/PLST SHORT SIDE 3/4 IN	9.00	EACH		\$	
1740	14089		W TAPPING SLEEVE AND VALVE SIZE 1 2 INCH	2.00	EACH		\$	
1750	14091		W TIE-IN 02 INCH	2.00	EACH		\$	
1760	14092		W TIE-IN 03 INCH	1.00	EACH		\$	
1770	14093		W TIE-IN 04 INCH	10.00	EACH		\$	
1780	14094		W TIE-IN 06 INCH	2.00	EACH		\$	
1790	14094		W TIE-IN 06 INCH (PUMP STATION)	1.00	EACH		\$	
1800	14103		W VALVE 03 INCH	1.00	EACH		\$	
1810	14104		W VALVE 04 INCH	15.00	EACH		\$	
1820	14105		W VALVE 06 INCH	12.00	EACH		\$	
1830	14158		W BLOWOFF ASSEMBLY 1 INCH	3.00	EACH		\$	
1840	14180		W SERV PE/PLST LONG SIDE 1-1/4 IN	10.00	EACH		\$	

Section: 0007 - DEMOBILIZATION &/OR MOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1850	02568		MOBILIZATION	1.00	LS		\$	
1860	02569		DEMOBILIZATION	1.00	LS		\$	

PAVING AREAS

ITEM	S Q U A R E Y A R D S											
	OLD SHAWNEETOWN ROAD EAST	BALD HILL ROAD WEST	SPRING GROVE BOULEVARD	TOOMBS ROAD	ENTRANCES							TOTAL PROJECT
CRUSHED STONE BASE - 8.00"	184,792	2	284	270	7,571							187,405
CRUSHED STONE BASE - 4.00"					1,499							7,571
CRUSHED STONE BASE - 6.00"												1,499
TRAFFIC BOUND BASE - 6.00"												5,797
ASPHALT SEAL AGGREGATE	23,897											23,897
ASPHALT SEAL COAT	23,897											23,897
LEVELING AND WEDGING PG64-22	31,516											31,516
CL2 ASPH BASE 1.000 PG64-22 - 3.00"	232,150	31	262	240	8,815							245,242
CL2 ASPH SURF 0.380 PG64-22 - 1.50"	115,371	30	258	237	8,710							126,577
CRUSHED AGGREGATE SIZE NO 2 - 12.00"	⑦											⑦
CEMENT STABILIZED ROADBED	65,605											65,605
CEMENT	65,605											65,605
ASPHALT CURING SEAL	65,605											65,605
SAND FOR BLOTTER	65,605											65,605
ASPHALT MATERIAL FOR TACK NON-TRACKING	310,173	258	258	237	8,710							323,127

PAVING SUMMARY

ITEM CODE	ITEM	UNIT	KY 56 ⑧	OLD SHAWNEETOWN ROAD EAST	BALD HILL ROAD WEST	SPRING GROVE BOULEVARD	TOOMBS ROAD	ENTRANCES	MAINTENANCE OF TRAFFIC	TOTAL PROJECT
3	CRUSHED STONE BASE	①④ TON	93,490	123	1	131	125	2,260	824	96,954
8	CEMENT STABILIZED ROADBED	SOYD	65,605							65,605
20	TRAFFIC BOUND BASE	①⑥ TON							2,000	2,000
78	CRUSHED AGGREGATE SIZE NO 2 ⑦⑨⑬	TON	9,190			189	36			9,415
100	ASPHALT SEAL AGGREGATE	② TON	478							478
103	ASPHALT SEAL COAT	③ TON	58							58
190	LEVELING AND WEDGING PG64-22	TON	9,101							9,101
212	CL2 ASPH BASE 1.000 PG64-22	TON	38,306	44	6	44	40	1,455	575	40,470
301	CL2 ASPH SURF 0.380 PG64-22	TON	9,519	22	3	22	20	668	142	10,396
358	ASPHALT CURING SEAL	⑩ TON	66							66
2542	CEMENT	⑪ TON	1,444							1,444
2702	SAND FOR BLOTTER	⑫ TON	164							164
2007EC	JOINT ADHESIVE	LF	96,350							96,350
24970EC	ASPH MATERIAL FOR TACK NON-TRACK ⑭	TON	108.6	0.1	-	0.1	0.1	3.0	1.2	113.1

NOTES

- ① ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH.
- ② ESTIMATED AT 20 LBS. PER SQ. YD. (2 COURSES)
- ③ ESTIMATED AT 2.4 LBS. PER SQ. YD. (2 COURSES)
- ④ INCLUDES 10% ADDITIONAL MATERIAL IN THE BOTTOM 4" OF THE PAVEMENT DESIGN AS A CONSTRUCTION TOLERANCE ON ROCK SUBGRADE.
- ⑤ INCLUDES 2,000 TONS OF TRAFFIC BOUND BASE FOR MAINTENANCE OF TRAFFIC.
- ⑥ MINIMUM 12.00" CRUSHED AGGREGATE SIZE NO 2 LAYER.
- ⑦ VOLUME CALCULATED BY END AREA METHOD AND CONVERTED TO TONS.
- ⑧ KY 109, KY 2834, GOOSE POND RD, KY 1598, BLUE RD, WOODLAND CHURCH CONNECTOR, AND WOODLAND CHURCH RD ARE INCLUDED IN THE KY 56 TOTALS.
- ⑨ INCLUDES 82 TONS FROM THE PERFORATED PIPE DRAINAGE SUMMARY.
- ⑩ APPLICATION RATE - 2.0 LBS. PER SQ.YD.
- ⑪ APPLICATION RATE - 5.5 LBS. PER SQ.YD. PER INCH OF DEPTH.
- ⑫ APPLICATION RATE - 5.0 LBS. PER SQ.YD.
- ⑬ ESTIMATED AT 100 LBS. PER SQ. YD. PER INCH OF DEPTH.
- ⑭ APPLICATION RATE - 0.7 LBS. PER SQ.YD.

COUNTY OF	ITEM NO.	SHEET NO.
UNION	2-310.21	R2F

REVISED 02-19-24

MicroStation v8.11.9.916 E-SHEET NAME: USER: jbricker DATE PLOTTED: February 19, 2024 FILE NAME: V:\1785\ACTIVE\178564021\TRANSPORTATION\DESIGN\DRAWING\PLAN_SHEETS\R0020P\SU.DGN

PAVING AREAS

ITEM	S Q U A R E Y A R D S										TOTAL PROJECT	
	184,792	267	2	284	270	7,571	1,499	5,797	23,897	23,897		1,790
CRUSHED STONE BASE - 8.00"												187,405
CRUSHED STONE BASE - 4.00"												7,571
CRUSHED STONE BASE - 6.00"												1,499
TRAFFIC BOUND BASE - 6.00"											5,797	5,797
ASPHALT SEAL AGGREGATE	23,897											23,897
ASPHALT SEAL COAT	23,897											23,897
LEVELING AND WEDGING PG64-22	31,516											31,516
CL2 ASPH BASE 1.00D PG64-22 - 3.00"	232,150	261	31	262	240	8,815					3,483	245,242
CL2 ASPH SURF 0.38D PG64-22 - 1.50"	115,371	258	30	258	237	8,710					1,713	126,577
CRUSHED AGGREGATE SIZE NO 2 - 12.00"	⑦											⑦
CEMENT STABILIZED ROADBED	65,605											65,605
CEMENT	65,605											65,605
ASPHALT CURING SEAL	65,605											65,605
SAND FOR BLOTTER	310,173	258	30	258	237	8,710					3,461	323,127
ASPHALT MATERIAL FOR TACK NON-TRACKING												

PAVING SUMMARY

ITEM CODE	ITEM	UNIT	KY 56 ⑧	OLD SHAWNEETOWN ROAD EAST	BALD HILL ROAD WEST	SPRING GROVE BOULEVARD	TOOMBS ROAD	ENTRANCES	MAINTENANCE OF TRAFFIC	TOTAL PROJECT
3	CRUSHED STONE BASE ①④	TON	93,490	123	1	131	125	2,260	824	96,954
8	CEMENT STABILIZED ROADBED	SOYD	65,605							65,605
20	TRAFFIC BOUND BASE ①⑥	TON							2,000	2,000
78	CRUSHED AGGREGATE SIZE NO 2 ⑦⑨⑬	TON	9,190			189	36			9,415
100	ASPHALT SEAL AGGREGATE ②	TON	478							478
103	ASPHALT SEAL COAT ③	TON	58							58
190	LEVELING AND WEDGING PG64-22	TON	9,101							9,101
212	CL2 ASPH BASE 1.00D PG64-22	TON	38,306	44	6	44	40	1,455	575	40,470
301	CL2 ASPH SURF 0.38D PG64-22	TON	9,519	22	3	22	20	668	142	10,396
358	ASPHALT CURING SEAL ⑩	TON	66							66
2542	CEMENT ⑪	TON	1,444							1,444
2702	SAND FOR BLOTTER ⑫	TON	164							164
2007EC	JOINT ADHESIVE	LF	96,350							96,350
24970EC	ASPH MATERIAL FOR TACK NON-TRACKING ⑭	TON	108.6	0.1	-	0.1	0.1	3.0	1.2	113.1

NOTES

- ① ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH.
- ② ESTIMATED AT 20 LBS. PER SQ. YD. (2 COURSES)
- ③ ESTIMATED AT 2.4 LBS. PER SQ. YD. (2 COURSES)
- ④ INCLUDES 10% ADDITIONAL MATERIAL IN THE BOTTOM 4" OF THE PAVEMENT DESIGN AS A CONSTRUCTION TOLERANCE ON ROCK SUBGRADE.
- ⑤ INCLUDES 2,000 TONS OF TRAFFIC BOUND BASE FOR MAINTENANCE OF TRAFFIC.
- ⑥ MINIMUM 12.00" CRUSHED AGGREGATE SIZE NO 2 LAYER.
- ⑦ VOLUME CALCULATED BY END AREA METHOD AND CONVERTED TO TONS.
- ⑧ KY 109, KY 2834, GOOSE POND RD, KY 1598, BLUE RD, WOODLAND CHURCH CONNECTOR, AND WOODLAND CHURCH RD ARE INCLUDED IN THE KY 56 TOTALS.
- ⑨ INCLUDES 82 TONS FROM THE PERFORATED PIPE DRAINAGE SUMMARY.
- ⑩ APPLICATION RATE - 2.0 LBS. PER SQ.YD.
- ⑪ APPLICATION RATE - 5.5 LBS. PER SQ.YD. PER INCH OF DEPTH.
- ⑫ APPLICATION RATE - 5.0 LBS. PER SQ.YD.
- ⑬ ESTIMATED AT 100 LBS. PER SQ. YD. PER INCH OF DEPTH.
- ⑭ APPLICATION RATE - 0.7 LBS. PER SQ.YD.