



COMMONWEALTH OF KENTUCKY  
TRANSPORTATION CABINET

[www.transportation.ky.gov/](http://www.transportation.ky.gov/)

Andy Beshear  
GOVERNOR

Jim Gray  
SECRETARY

October 18, 2021

CALL NO. 331  
CONTRACT ID NO. 211046  
ADDENDUM # 1

Subject: Wolfe County, FD04 119 9000 036-046  
Letting October 22, 2021

- (1) Revised - Pavement Repair Detail Sheet - Page 43 of 110
- (2) Revised - General Summary - Pages 44-46 of 110
- (3) Revised - Special Note - Page 70 of 110
- (4) Added - Special Note - Pages 85(a)-85(c) of 110
- (5) Revised - Proposal Bid Items - Pages 108-110 of 110

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

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

Sincerely,

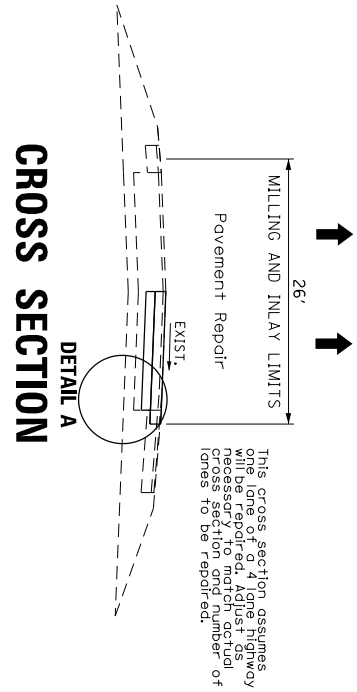
Rachel Mills,

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

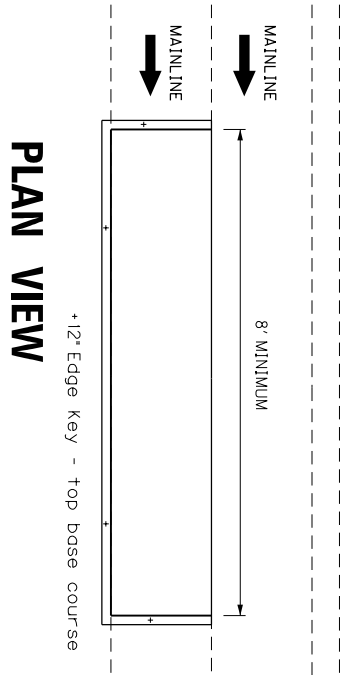
Rachel Mills, P.E.  
Director  
Division of Construction Procurement

RM:mr  
Enclosures

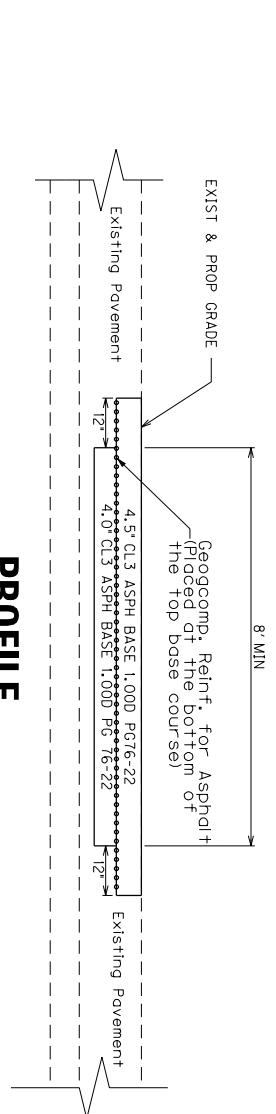
# PAVEMENT REPAIR DETAIL



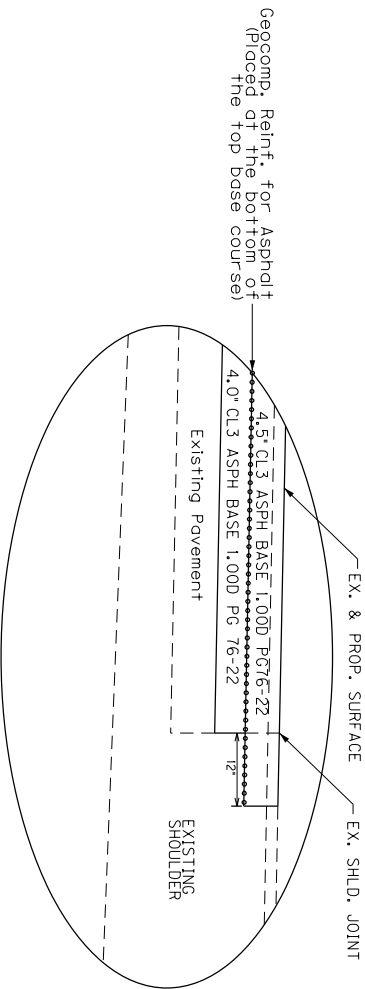
**CROSS SECTION**



**PLAN VIEW**



**PROFILE**



**DETAIL A**

**NOTES**

1. Caution: Existing concrete pavement may exist below the asphalt pavement.
2. Pavement repair shall be performed at locations selected by and as directed by the Engineer. The Engineer will assess, select, and mark areas for treatment. The full lane width will be removed and replaced. The Engineer may elect to perform repairs on one lane or multiple lanes. The Engineer may elect to only remove and replace the top lift of base. An edge key 12" into existing pavement is required for the top course of base.
3. Complete pavement repair operations in one continuous operation or protect with barrier wall. Do not leave an unprotected hole with no workers present. If barrier wall must be used for pavement repairs, it will be considered incidental to other items of work and not be considered for payment.
4. Before resurfacing, open repaired area to traffic for a minimum of 14 days. Monitor pavement for settlement surface course.
5. The item REMOVE PAVEMENT includes removal of all asphalt to the required depth.
6. Perform typical mill and inlay operations with resurfacing items subject to payment as part of the resurfacing operation.

**\* QUANTITIES TO BID**

02091 REMOVE PAVEMENT	SO. YD.
25010EC GEOCOMPPOSITE REINFORCEMENT FOR ASPHALT	SO. YD.
0216 CL3 ASPH BASE 1,00D PG76-22	TONS

- Only items listed will be considered for payment and will be considered full compensation for the work required. Any other items of work not listed for payment will be considered incidental to other items of work.

Asph base course class and binder grade to be chosen by designer based on current asphalt warrants and/or to remain consistent with mainline asphalt surface used on the project.

NOT TO SCALE

**MOUNTAIN PARKWAY PAVEMENT REHABILITATION  
WOLFE COUNTY  
ITEM NO. 10-20009  
GENERAL SUMMARY**

ITEM NUMBER	ITEM		QUANTITY	UNIT
1	DGA BASE	(1)	1,534	TON
78	CRUSHED AGGREGATE SIZE NO. 2		1	TON
100	ASPHALT SEAL AGGREGATE		817	TON
103	ASPHALT SEAL COAT		98	TON
194	LEVELING AND WEDGING PG76-22	(2)	500	TON
216	CL 3 ASPH BASE 1.00D PG76-22		5,168	TON
336	CL3 ASPH SURF 0.38A PG76-22		28,321	TON
461	CULVERT PIPE 15 INCH		12	LIN FT
464	CULVERT PIPE 24 INCH		12	LIN FT
1001	PERFORATED PIPE - 6 INCH		20	LIN FT
1011	NON-PERFORATED PIPE - 6 INCH		10	LIN FT
1029	PERF PIPE HEADWALL TYPE 3 - 6 INCH		1	EACH
1202	PIPE CULVERT HEADWALL - 15 INCH		2	EACH
1208	PIPE CULVERT HEADWALL - 24 INCH		1	EACH
1310	REMOVE PIPE		24	LIN FT
1434	SLOPED BOX OUTLET TYPE 1 - 24 INCH		1	EACH
1690	FLUME INLET TYPE 1		1	EACH
1691	FLUME INLET TYPE 2		15	EACH
1982	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE		258	EACH
1983	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL YELLOW		8	EACH
1986	DELINEATOR FOR BARRIER WALL-B/Y	(4)	278	EACH
2091	REMOVE PAVEMENT		11,051	SQYD
2200	ROADWAY EXCAVATION		150	CU YD
2220	FLOWABLE FILL		10	CU YD
2237	DITCHING		45,936	LIN FT
2363	CONNECTOR TO BRIDGE END TYPE A		4	EACH
2367	END TREATMENT TYPE 1		10	EACH
2369	END TREATMENT TYPE 2A		18	EACH
2381	REMOVE GUARDRAIL		20,762.5	LIN FT
2387	CONNECTOR TO BRIDGE END TYPE A-1		4	EACH
2391	END TREATMENT TYPE 4A		8	EACH
2483	CHANNEL LINING CLASS II		110	TON
2484	CHANNEL LINING CLASS III	(9)	225	TON
2562	TEMPORARY SIGNS		2,500	SQ FT
2565	OBJECT MARKER TYPE 2		4	EACH
2568	MOBILIZATION		1	LUMP SUM
2569	DEMOBILIZATION		1	LUMP SUM
2625	REMOVE HEADWALL		4	EACH
2650	MAINTAIN AND CONTROL TRAFFIC		1	LUMP SUM
2671	PORTABLE CHANGEABLE MESSAGE SIGN		3	EACH
2676	MOBILIZATION FOR MILLING & TEXTURING		1	LUMP SUM
2677	ASPHALT PAVE MILLING AND TEXTURING	(3)(8)	30,246	TON
2775	ARROW PANEL		2	EACH
2929	CRASH CUSHION TYPE IX		2	EACH
5950	EROSION CONTROL BLANKET	(6)	20,416	SQ YD
6412	STEEL POST MILE MARKERS		18	EACH

**MOUNTAIN PARKWAY PAVEMENT REHABILITATION  
WOLFE COUNTY  
ITEM NO. 10-20009  
GENERAL SUMMARY**

ITEM NUMBER	ITEM	QUANTITY	UNIT
6511	PAVEMENT STRIPING-TEMP PAINT - 6 INCH	182,842	LIN FT
6542	PAVE STRIPING THERMO - 6 INCH WHITE	114,473	LIN FT
6543	PAVE STRIPING THERMO - 6 INCH YELLOW	91,664	LIN FT
6546	PAVE STRIPING THERMO - 12 INCH WHITE	5,206	LIN FT
6556	PAVE STRIPING-DUR TY 1-6 IN W	1,380	LIN FT
6557	PAVE STRIPING-DUR TY 1-6 IN Y	1,102	LIN FT
6611	INLAID PAVEMENT MARKER-MY	476	EACH
6613	INLAID PAVEMENT MARKER-B W/R	1,409	EACH
24679ED	PAVE MARK THERMO CHEVRON	3,640	SQ FT
24683ED	PAVE MARKING-THERMO DOTTED LANE EXTEN	1,222	LIN FT
10020NS	FUEL ADJUSTMENT	52,127	DOLLARS
10030NS	ASPHALT ADJUSTMENT	130,929	DOLLARS
20366NN	REPLACE GRATE	5	EACH
20071EC	JOINT ADHESIVE	222,299	LF
20191ED	OBJECT MARKER TYPE 3	18	EACH
20411ED	LAW ENFORCEMENT OFFICER	200	HOUR
21173EC	SAW-CLEAN-RESEAL RANDOM CRACKS	(5) 2,052	LIN FT
21802EN	GUARDRAIL - STEEL W BEAM S-FACE (7FT POST)	19,862.5	LIN FT
22883EN	CONCRETE WEDGE CURB	(7) 10,220	LIN FT
23954EC	REMOVE EXISTING WEDGE CURB	4,630	LIN FT
24640ED	OBJECT MARKER TYPE 1	2	EACH
24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	121	TON
25010EC	GEOCOMPOSITE REINFORCEMENT FOR ASPHALT	11,051	SQYD
20362ES403	SHOULDER RUMBLE STRIPS-SAWED	109,824	LIN FT
20432ES112	REMOVE CRASH CUSHION	2	EACH
26136EC	PORTABLE QUEUE WARNING ALERT SYSTEM	6	MONTH
26137EC	QUEUE WARNING PCMS	24	MONTH
26138EC	QUEUE WARNING PORTABLE RADAR SENSORS	24	MONTH

- (1) To be used as directed by the Engineer at guardrail end treatments.
- (2) To be used for slope correction, repairing dips, shoulders and any other pavement anomalies as directed by the Engineer
- (3) Mill 2.0 inches from MP 36.00 to MP 37.70 and mill 1.5 inches from MP 38.80 to MP 45.80.
- (4) Delineators for barrier wall are to be installed along the top of the existing barrier wall.
- (5) To be used as directed by the Engineer at E.B. Mountain Parkway exit no. 40 to repair cracks in the existing concrete.
- (6) To be used as directed by the Engineer in ditching areas.
- (7) Includes 4,630 LF from the guardrail summary and 5590 LF from the drainage summary
- (8) Removal of existing pavement markers is to be considered incidental to Asphalt Pave Milling and Texturing.
- (9) Fabric-Geotextile class 2 is to be considered incidental to the channel lining.

NOTE: Quantities from all summaries have been carried over and included in this General Summary

**PAVEMENT SUMMARY**  
**MOUNTAIN PARKWAY - WOLFE COUNTY**  
**MP 36.000 TO MP 37.700 AND MP 38.800 TO MP 45.800**  
**ITEM NO. 10-20009**  
**PAVING AREAS**

ITEM		TOTAL
<b>MOUNTAIN PARKWAY DRIVING LANES</b>	<b>LF</b>	<b>SQYD</b>
JOINT ADHESIVE	222299	
ASPHALT MATERIAL FOR TACK NON-TRACKING		262489
1.5" CL3 ASPH SURF 0.38A PG76-22		262489
<b>MOUNTAIN PARKWAY SHOULDERS</b>		
ASPHALT MATERIAL FOR TACK NON-TRACKING		80260
1.5" CL3 ASPH SURF 0.38A PG76-22		80260
<b>MOUNTAIN PARKWAY MEDIAN U-TURNS</b>		
ASPHALT MATERIAL FOR TACK NON-TRACKING		531
1.5" CL3 ASPH SURF 0.38A PG76-22		531
ASPHALT SEAL AGGREGATE		40832
ASPHALT SEAL COAT		40832
SHOULDER RUMBLE STRIPS-SAWED	109824	
<b>ASPHALT PAVE MILLING AND TEXTURING</b>		<b>SQYD</b>
1.5" ASPHALT PAVE MILLING AND TEXTURING		273283
2.0" ASPHALT PAVE MILLING AND TEXTURING		69997

**PAVING SUMMARY**

	CODE	ITEM	UNITS	TOTAL
3	100	ASPHALT SEAL AGGREGATE	TON	817
4	103	ASPHALT SEAL COAT	TON	98
1, 5	216	CL 3 ASPH BASE 1.00D PG76-22	TON	5168
1	336	CL3 ASPH SURF 0.38A PG76-22	TON	28321
5	2091	REMOVE PAVEMENT	SQ. YD.	11051
	2677	ASPHALT PAVE MILLING AND TEXTURING	TON	30246
2	24970EC	ASPHALT MATERIAL FOR TACK-NON TRACKING	TON	121
5	25010EC	GEOCOMPOSITE REINFORCEMENT FOR ASPHALT	SQ.YD.	11051
	20362ES403	SHOULDER RUMBLE STRIPS-SAWED	LF	109824
	20071EC	JOINT ADHESIVE	LF	222299

**NOTES**

- (1) ALL ASPHALT MIXTURES ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH
  - (2) ASPHALT MATERIAL FOR TACK-NONTRACKING ESTIMATED AT 0.70 LBS. PER SQ. YD
  - (3) TWO APPLICATIONS OF ASPHALT SEAL AGGREGATE ESTIMATED AT 20LB / SY.
  - (4) TWO APPLICATIONS OF ASPHALT SEAL COAT ESTIMATED AT 2.4 LB / SY.
  - (5) FOR ASPHALT PAVEMENT REPAIRS. TO BE USED AS DIRECTED BY THE ENGINEER.
- QUANTITIES HAVE BEEN CARRIED OVER AND INCLUDED IN THE GENERAL SUMMARY

5. Kentucky Transportation Cabinet, Department of Highways, Standard Specifications for Road and Bridge Construction, Edition of 2019 - Supplemental Specifications, as applicable:

- Special Note Portable Changeable Message Signs
- Special Note Longitudinal Joint Adhesive
- Special Note Guardrail Delivery Verification Sheet
- Special Note Typical Section Dimensions *attached*
- Special Note Before You Dig *attached*
- Special Note Fixed Completion Date and Liquidated Damages *attached*
- Special Note Asphalt Milling and Texturing *attached*
- Special Note Experimental KYCT and Hamburg Testing *attached*
- Special Note Non-Tracking Tack Coat *attached*
- Special Note Portable Queue warning alert system *attached*
- Special Note Geocomposite Reinforcement for Asphalt *attached*

July 19, 2019

**SPECIAL NOTE FOR GEOCOMPOSITE REINFORCEMENT FOR ASPHALT**

This Special Note will apply where indicated on the plans or in the proposal. Section references herein are to the Department’s 2019 Standard Specifications for Road and Bridge Construction.

**1.0 DESCRIPTION.** This specification covers geocomposites used as an interlayer in asphalt pavements.

**2.0 MATERIALS AND EQUIPMENT.**

**2.1 Geocomposite.** The geocomposite shall consist of a geogrid component with a non-woven geotextile (paving fabric) backing. Furnish fiberglass-reinforced or polyester geogrid coated with an elastomeric polymer. Ensure the geogrid forms a stable network such that the ribs, filaments, or yarns retain their dimensional stability, including selvages. Furnish geogrid with a non-woven paving fabric backing composed of long chain synthetic polymers that are 95 percent by weight polyolefins or polyesters.

**A) Physical Requirements.** Furnish the specified geogrid type conforming to the Physical Requirements Table and ASTM D 4759. Ensure that each geogrid shipment is accompanied by a manufacturer’s certification listing minimum average roll specification values (MARV) of each lot number for those properties listed in the table below. Furnish geogrid with a non-woven geotextile backing that conforms to AASHTO M288 Type II paving fabric with the exception of mass per unit area. Products that meet all Type II requirements except mass per unit area will be acceptable.

PROPERTY	TEST METHOD	SPECIFICATION
Geogrid Tensile Strength, lb/in (min.)	ASTM D6637 Test Method A	560
Geogrid Elongation, % (max.)	ASTM D6637	< 3
Melting Point of Paving Fabric Component, °F (min.)	ASTM D 276	320
Grid Size, inch (min/max)	Calipered	0.5/1.25

**B) Packaging, Shipment, and Storage.** Ensure that each roll is labeled with the manufacturer’s name, product type, style number, lot number, roll number, manufactured date, roll dimensions, chemical composition, and applicable physical properties. Protect the geocomposite from direct sunlight, ultraviolet rays, flames, aggressive chemicals, mud, dirt, dust, and debris during all periods of shipment and storage. Keep geocomposite dry until installation, and do not store directly on the ground.

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**2.2 Asphalt Distributor. Conform to 406.02.05.**

**2.3 Rolling Equipment.** Use pneumatic-tired rollers that weigh at least 12 tons and have 7 to 9 tires capable of inflation pressures up to 125 psi. Maintain an inflation pressure in all tires within  $\pm 5$  psi of the manufacturer's recommended pressure. Arrange the tires so that the gap between the tires of the front axle is covered by the tires of the rear axle. Mount wheels to provide equal contact pressure under each wheel. Use a tire tread that is satisfactory to the Engineer. Maintain tire size and inflation pressure such that the contact pressure is at least 80 psi.

**3.0 CONSTRUCTION.**

**3.1 Geocomposite Representative.** Ensure that a representative of the geocomposite manufacturer is on the project when work begins, and remains on call as the project progresses, to advise the Engineer.

**3.2 Weather Restrictions.** Do not place the geocomposite when weather conditions, in the opinion of the Engineer, are not suitable. Ensure the air and pavement temperatures are sufficient to allow the tack coat to hold the geocomposite in place. Specifically, ensure the temperature is at least 50 °F and rising.

**3.3 Surface Preparation.** Perform any needed base repairs and repair all potholes, cracks greater than 1/4 inch, and any badly damaged or rough pavement, which may require milling or placement of leveling course. Ensure the surface is dry, clean, dust-free, and between 40 and 140 °F. Unless the geocomposite is precoated with an adhesive, apply tack according to the manufacturer's recommendations. This tack coat will not be measured for payment and will be considered incidental to the geocomposite. Distributor truck must be calibrated to supply the tack at the manufacturer's recommended rate before the job begins and this calibration is to be witnessed by the representative of the geocomposite manufacturer on the project. No work to install the geocomposite shall take place unless a representative from the geocomposite manufacture is on site.

**3.4 Geocomposite Placement.** Place the geocomposite while the tack coat is still tacky/broken. Keep the material flat and wrinkle free throughout the installation. Roll the geocomposite until the adhesive is activated or the geocomposite is seated in the tack coat. Clean the roller with an asphalt release agent. Brooming may be required. On sharp curves, cut the edges and fold the geocomposite over in the direction of the placement of the asphalt overlay. Overlap side joints by one to 2 inches. Overlap all end-of-roll joints by 3 to 6 inches. Ensure that the overlaps are shingled in the direction of paving.

**3.5 Asphalt Placement.** Place the asphalt overlay at a minimum 2-inch compacted thickness. Pave over the geocomposite on the same day of its placement. Except for paving equipment and vehicles, allow no traffic on the grid. Do not place tack coat on top of the interlayer grid.

**3.6 Geocomposite Repair.** Repair any visible distress that occurs due to movement of the geocomposite immediately after rolling. For small areas, remove the asphalt



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mixture from the affected area; replace the geocomposite in its original position, and replace, level, and compact the asphalt mixture. Cut the geocomposite if necessary for it to lie flat.

**3.7 Sampling and Testing.** The Department will sample the geocomposite at the project site according to ASTM D 4354 and KM 64-113 at a frequency the Engineer determines. The Department will test the geocomposite for all properties possible given the testing equipment availability. When the Department determines that an individual sample fails to meet any specification requirement, the Department will reject that roll and sample two additional rolls from the same lot. When the Department determines that either of these two additional samples fails to comply with any part of the specification, the Department will reject the entire quantity of rolls represented by that sample.

**4.0 MEASUREMENT.** The Department will measure the quantity of geocomposite in square yards. The Department will not measure geocomposite when the contract indicates that the geocomposite are incidental to the work being performed or when no separate bid item for geocomposite is listed in the proposal. The Department will not measure providing the geocomposite manufacturer’s representative for payment and will consider it incidental to the geocomposite. Tack coat, applied per the geocomposite manufacturer’s recommendations, will not be paid and will be considered incidental to the geocomposite.

**5.0 PAYMENT.** The Department will make payment for the installed and accepted quantities under the following:

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
25010EC	Geocomposite Reinforcement for Asphalt	Square Yard

**PROPOSAL BID ITEMS**

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Report Date 10/18/21

**Section: 0001 - PAVING**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00078		CRUSHED AGGREGATE SIZE NO 2	1.00	TON		\$	
0020	00100		ASPHALT SEAL AGGREGATE	817.00	TON		\$	
0030	00103		ASPHALT SEAL COAT	98.00	TON		\$	
0040	00194		LEVELING & WEDGING PG76-22	500.00	TON		\$	
0050	00216		CL3 ASPH BASE 1.00D PG76-22	5,168.00	TON		\$	
0060	00336		CL3 ASPH SURF 0.38A PG76-22	28,321.00	TON		\$	
0070	02091		REMOVE PAVEMENT	11,051.00	SQYD		\$	
0080	02200		ROADWAY EXCAVATION	150.00	CUYD		\$	
0090	02676		MOBILIZATION FOR MILL & TEXT	1.00	LS		\$	
0100	02677		ASPHALT PAVE MILLING & TEXTURING	30,246.00	TON		\$	
0110	20071EC		JOINT ADHESIVE	222,299.00	LF		\$	
0120	25010EC		GEOCOMPOSITE REINFORCEMENT FOR ASPHALT (REVISED 10-18-2021)	11,051.00	SQYD		\$	
0130	20362ES403		SHOULDER RUMBLE STRIPS-SAWED	109,824.00	LF		\$	
0140	21173EC		SAW-CLEAN-RESEAL RANDOM CRACKS	2,052.00	LF		\$	
0150	24970EC		ASPHALT MATERIAL FOR TACK NON-TRACKING	121.00	TON		\$	

**Section: 0002 - ROADWAY**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0160	00001		DGA BASE	1,534.00	TON		\$	
0170	01982		DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	258.00	EACH		\$	
0180	01983		DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL YELLOW	8.00	EACH		\$	
0190	01986		DELINEATOR FOR BARRIER WALL-B/Y	278.00	EACH		\$	
0200	02363		GUARDRAIL CONNECTOR TO BRIDGE END TY A	4.00	EACH		\$	
0210	02367		GUARDRAIL END TREATMENT TYPE 1	10.00	EACH		\$	
0220	02369		GUARDRAIL END TREATMENT TYPE 2A	18.00	EACH		\$	
0230	02381		REMOVE GUARDRAIL	20,762.50	LF		\$	
0240	02387		GUARDRAIL CONNECTOR TO BRIDGE END TY A-1	4.00	EACH		\$	
0250	02391		GUARDRAIL END TREATMENT TYPE 4A	8.00	EACH		\$	
0260	02562		TEMPORARY SIGNS	2,500.00	SQFT		\$	
0270	02565		OBJECT MARKER TYPE 2	4.00	EACH		\$	
0280	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0290	02671		PORTABLE CHANGEABLE MESSAGE SIGN	3.00	EACH		\$	
0300	02775		ARROW PANEL	2.00	EACH		\$	
0310	02929		CRASH CUSHION TYPE IX	2.00	EACH		\$	
0320	06412		STEEL POST MILE MARKERS	18.00	EACH		\$	
0330	06511		PAVE STRIPING-TEMP PAINT-6 IN	182,842.00	LF		\$	
0340	06542		PAVE STRIPING-THERMO-6 IN W	114,473.00	LF		\$	
0350	06543		PAVE STRIPING-THERMO-6 IN Y	91,664.00	LF		\$	
0360	06546		PAVE STRIPING-THERMO-12 IN W	5,206.00	LF		\$	
0370	06556		PAVE STRIPING-DUR TY 1-6 IN W	1,380.00	LF		\$	

**PROPOSAL BID ITEMS**

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Report Date 10/18/21

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0380	06557		PAVE STRIPING-DUR TY 1-6 IN Y	1,102.00	LF		\$	
0390	06611		INLAID PAVEMENT MARKER-MY	476.00	EACH		\$	
0400	06613		INLAID PAVEMENT MARKER-B W/R	1,409.00	EACH		\$	
0410	10020NS		FUEL ADJUSTMENT	52,127.00	DOLL	\$1.00	\$	\$52,127.00
0420	10030NS		ASPHALT ADJUSTMENT	130,929.00	DOLL	\$1.00	\$	\$130,929.00
0430	20191ED		OBJECT MARKER TY 3	18.00	EACH		\$	
0440	20411ED		LAW ENFORCEMENT OFFICER	200.00	HOUR		\$	
0450	20432ES112		REMOVE CRASH CUSHION	2.00	EACH		\$	
0460	21802EN		G/R STEEL W BEAM-S FACE (7 FT POST)	19,862.50	LF		\$	
0470	22883EN		CONCRETE WEDGE CURB	10,220.00	LF		\$	
0480	23954EC		REMOVE EXISTING WEDGE CURB	4,630.00	LF		\$	
0490	24640ED		OBJECT MARKER TYPE 1	2.00	EACH		\$	
0500	24679ED		PAVE MARK THERMO CHEVRON	3,640.00	SQFT		\$	
0510	24683ED		PAVE MARKING-THERMO DOTTED LANE EXTEN	1,222.00	LF		\$	
0520	24891EC		PAVE MOUNT INFRARED TEMP EQUIPMENT	3,085,401.00	SF		\$	
0530	26136EC		PORTABLE QUEUE WARNING ALERT SYSTEM	6.00	MONT		\$	
0540	26137EC		QUEUE WARNING PCMS	24.00	MONT		\$	
0550	26138EC		QUEUE WARNING PORTABLE RADAR SENSORS	24.00	MONT		\$	

**Section: 0003 - DRAINAGE**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0560	00461		CULVERT PIPE-15 IN	12.00	LF		\$	
0570	00464		CULVERT PIPE-24 IN	12.00	LF		\$	
0580	01001		PERFORATED PIPE-6 IN	20.00	LF		\$	
0590	01011		NON-PERFORATED PIPE-6 IN	10.00	LF		\$	
0600	01029		PERF PIPE HEADWALL TY 3-6 IN	1.00	EACH		\$	
0610	01202		PIPE CULVERT HEADWALL-15 IN	2.00	EACH		\$	
0620	01208		PIPE CULVERT HEADWALL-24 IN	1.00	EACH		\$	
0630	01310		REMOVE PIPE	24.00	LF		\$	
0640	01434		SLOPED BOX OUTLET TYPE 1-24 IN	1.00	EACH		\$	
0650	01690		FLUME INLET TYPE 1	1.00	EACH		\$	
0660	01691		FLUME INLET TYPE 2	15.00	EACH		\$	
0670	02220		FLOWABLE FILL	10.00	CUYD		\$	
0680	02237		DITCHING	45,936.00	LF		\$	
0690	02483		CHANNEL LINING CLASS II	110.00	TON		\$	
0700	02484		CHANNEL LINING CLASS III	225.00	TON		\$	
0710	02625		REMOVE HEADWALL	4.00	EACH		\$	
0720	05950		EROSION CONTROL BLANKET	20,416.00	SQYD		\$	
0730	20366NN		REPLACE GRATE	5.00	EACH		\$	

**Section: 0004 - DEMOBILIZATION AND/OR MOBILIZATION**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0740	02568		MOBILIZATION	1.00	LS		\$	

211046

### PROPOSAL BID ITEMS

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0750	02569		DEMOBILIZATION	1.00	LS		\$	