



**COMMONWEALTH OF KENTUCKY  
TRANSPORTATION CABINET**

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

**Matthew G. Bevin**  
Governor

**Greg Thomas**  
Secretary

April 24, 2019

CALL NO. 122  
CONTRACT ID NO. 194209  
ADDENDUM # 1

Subject: LARUE COUNTY, HSIP 9010 (342)  
Letting April 26, 2019

- (1) Revised - General Summary - Page 93 of 187
- (2) Revised - Typical Sections - Pages 100-101 of 187
- (3) Revised - Proposal Bid Items - Pages 186-187(a) of 187
- (4) Added - Special Notes - Pages 1-3 of 3

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 cursive script that reads "Rachel Mills".

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

RM:mr  
Enclosures



An Equal Opportunity Employer M/F/D

### GENERAL SUMMARY

ITEM CODE	ITEM	UNIT	KY 470	TOTAL PROJECT
00190	LEVELING & WEDGING PG64-22	TON	515	515
00212	CL2 ASPH BASE 1.00D PG64-22	TON	1320	1320
00003	CRUSHED STONE BASE	TON	1450	1450
02223	GRANULAR EMBANKMENT	CUYD	845	845
02230	EMBANKMENT IN PLACE	CUYD	1763	1763
05950	EROSION CONTROL BLANKET	SQYD	1866	1866
02259	FENCE - TEMP	LF	1784	1784
02268	REMOVE & REPLACE FENCE 7 STRAND BARBED WIRE	LF	359	359
02268	REMOVE & REPLACE FENCE 6 STRAND BARBED WIRE	LF	338	338
02268	REMOVE & REPLACE FENCE HIGH TENSILE STRAND	LF	359	359
02268	REMOVE & REPLACE FENCE WOVEN WIRE	LF	728	728
02650	MAINTAIN & CONTROL TRAFFIC	LS	1	1
03269	TRIM & REMOVE TREES & BRUSH	LF	1584	1584
01987	DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	EACH	8	8
02351	GUARDRAIL - STEEL W BEAM - S FACE	LF	400	400
02360	GUARDRAIL TERMINAL SECTION NO 1	EACH	2	2
02381	REMOVE GUARDRAIL	LF	400	400
01310	ENTRANCE PIPE - 15 IN	LF	69	69
00441	ENTRANCE PIPE - 18 IN	LF	28	28
00496	CULVERT PIPE - 36 IN EQUIV	LF	94	94
02483	CHANNEL LINING CLASS II	TON	313	313
24575ES610	SLOPED & MITERED CONCRETE FOR 18 IN PIPE	EACH	3	3
24575ES610	SLOPED & MITERED CONCRETE FOR 24 IN PIPE	EACH	1	1
24575ES610	SLOPED & MITERED CONCRETE FOR 36 IN PIPE	EACH	3	3
02625	REMOVE HEADWALL	EACH	4	4
00464	CULVERT PIPE - 24 IN	LF	10	10
01490	DROP BOX INLET TYPE 1	EACH	1	1
00462	CULVERT PIPE - 18 IN	LF	26	26
02237	DITCHING	LF	415	415
08100	CONCRETE - CLASS A	CUYD	25.40	25.40
08150	STEEL REINFORCEMENT	LB	2894	2894
08003	FOUNDATION PREPARATION	LS	1	1
08002	STRUCTURE EXCA - SOLID ROCK	CUYD	13.00	13.00
02403	REMOVE CONCRETE MASONRY	CUYD	0.40	0.40
02569	DEMobilIZATION	LS	1	1
01310	REMOVE PIPE	LF	223	223
05985	SEEDING AND PROTECTION	SQYD	7502	7502
02562	TEMPORARY SIGNS	SQFT	200	200
02726	STAKING	LS	1	1
06510	TEMPORARY STRIPING	LF	3652	3652
02159	TEMP DITCH	LF	1844	1844
02160	CLEAN TEMP DITCH	LF	922	922
02701	TEMP SILT FENCE	LF	1844	1844
05964	20-10-10 FERTILIZER	TON	0.5	0.5
05902	TEMP MULCH	SQYD	11778	11778
05953	TEMP SEEDING AND PROTECTION	SQYD	8833	8833
02703	SILT TRAP A	EACH	4	4
02704	SILT TRAP B	EACH	4	4
02705	SILT TRAP C	EACH	4	4
02706	CLEAN SILT TRAP A	EACH	4	4
02707	CLEAN SILT TRAP B	EACH	4	4
02708	CLEAN SILT TRAP C	EACH	4	4
05990	SODDING	SQYD	2050	2050
02099	CEM CON ENT PAVEMENT - 6 IN	SQYD	35	35
14003	W CAP EXISTING MAIN	EACH	1	1
14004	W DIRECTIONAL BORE	LF	110	110
14023	W FLUSHING ASSEMBLY	EACH	1	1
14069	W PIPE Pilyethelene/PLASTIC 06 INCH	LF	450	450
14089	W TAPPING SLEEVE AND VALVE SIZE 1	EACH	1	1
14094	W TIE-IN 06 INCH	EACH	1	1
14105	W VALVE 06 INCH	EACH	1	1
24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	TON	1.1	1.1

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-989	R1
GENERAL SUMMARY		

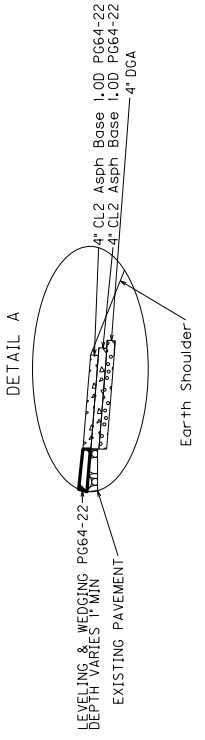
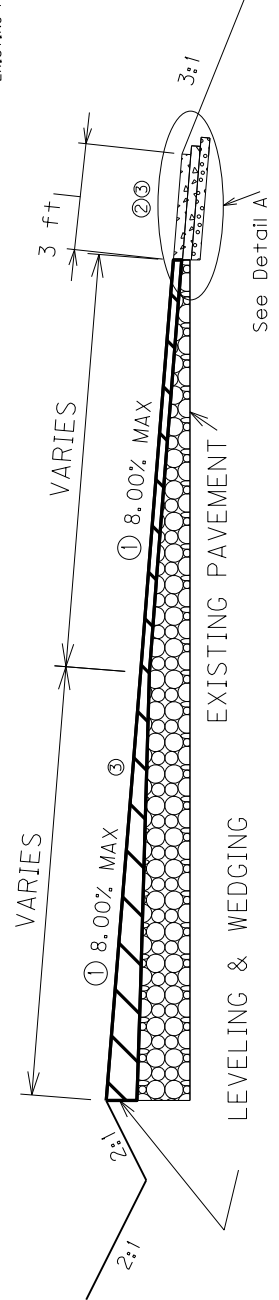
# TYPICAL SECTIONS

## NOTES

- ① SEE CROSS SECTIONS FOR ACTUAL PAVEMENT SLOPES
- ② ADDITIONAL 3' SHOULDER ON RIGHT SIDE ONLY
- ③ ASPHALT MATERIAL FOR TACK NON-TRACKING TO BE USED BETWEEN ALL ASPHALT COURSE LAYERS AT A RATE OF 0.5LB/SY.

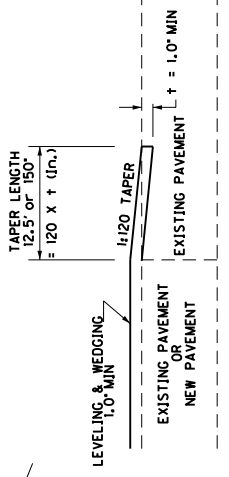
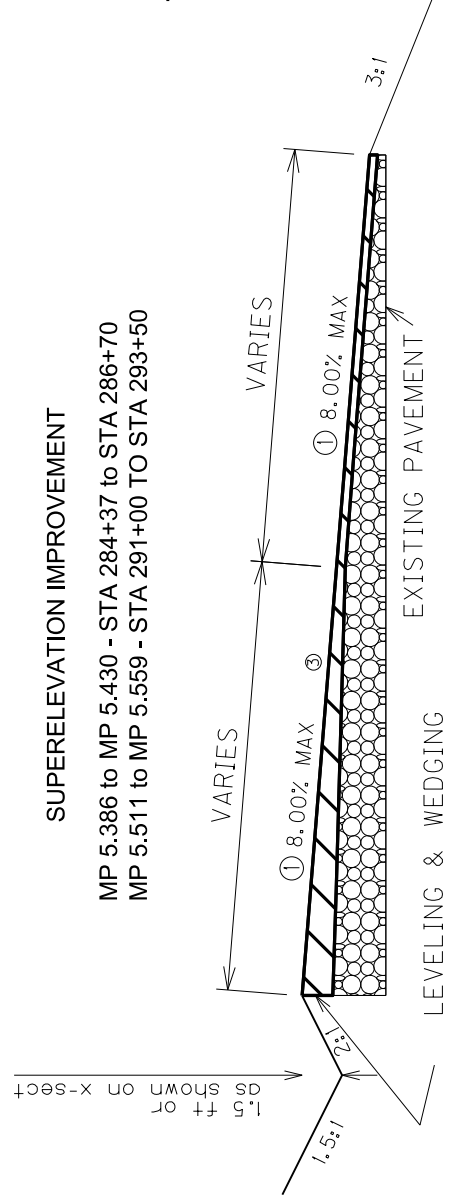
### SUPERELEVATION IMPROVEMENT AND SHOULDER WIDENING

MP 5.430 to MP 5.511 - STA 286+70 to STA 291+00



### SUPERELEVATION IMPROVEMENT

MP 5.386 to MP 5.430 - STA 284+37 to STA 286+70  
MP 5.511 to MP 5.559 - STA 291+00 TO STA 293+50



### TAPERING OF OVERLAYS ON LOW SPEED FACILITIES (< 45 MPH)

SCALE: 1"=N/A

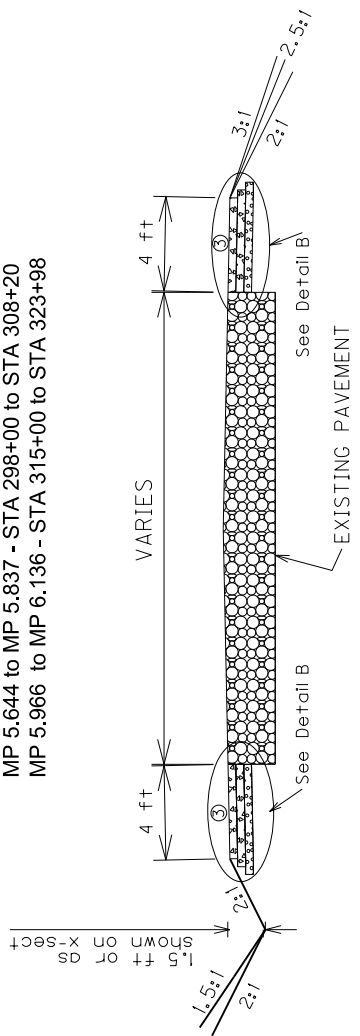
COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-989	

TYPICAL SECTIONS  
SUPERELEVATION IMPROVEMENT

# TYPICAL SECTIONS

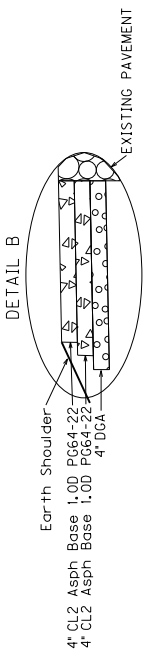
## SHOULDER WIDENING

MP 5.644 to MP 5.837 - STA 298+00 to STA 308+20  
MP 5.966 to MP 6.136 - STA 315+00 to STA 323+98



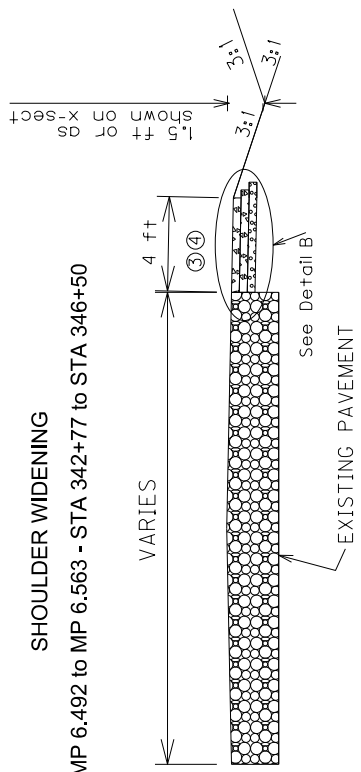
## NOTES

- ③ ASPHALT MATERIAL FOR TACK NON-TRACKING TO BE USED BETWEEN ALL ASPHALT COURSE LAYERS AT A RATE OF 0.5LB/SY.
- ④ 4' SHOULDER WIDENING ON RIGHT SIDE ONLY
- ⑤ 2' SHOULDER WIDENING ON LEFT SIDE ONLY



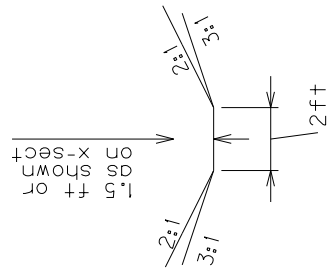
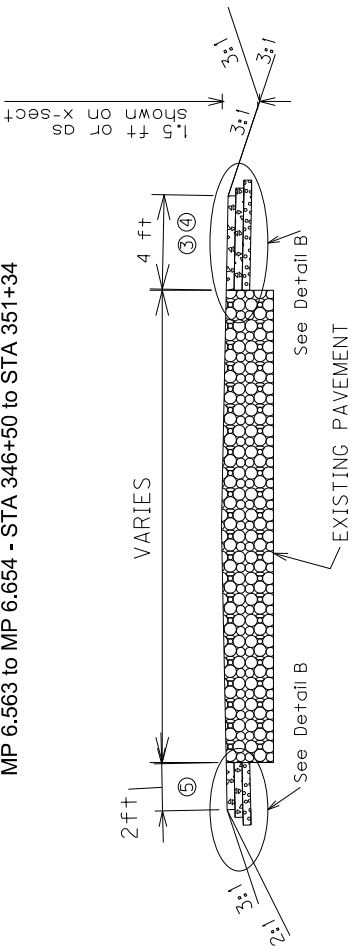
## SHOULDER WIDENING

MP 6.492 to MP 6.563 - STA 342+77 to STA 346+50



## SHOULDER WIDENING

MP 6.563 to MP 6.654 - STA 346+50 to STA 351+34



SPECIAL FLATBOTTOM DITCH  
STA 289+00 TO STA 291+50  
STA 321+50 TO STA 323+50

SCALE: 1"=N/A

COUNTY OF	ITEM NO.	SHEET NO.
LARUE	4-989	

TYPICAL SECTIONS  
SHOULDER WIDENING

**PROPOSAL BID ITEMS**

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Report Date 4/24/19

**Section: 0001 - PAVING**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00003		CRUSHED STONE BASE	1,450.00	TON		\$	
0020	00190		LEVELING & WEDGING PG64-22	515.00	TON		\$	
0030	00212		CL2 ASPH BASE 1.00D PG64-22	1,320.00	TON		\$	
0035	24970EC		ASPHALT MATERIAL FOR TACK NON-TRACKING (ADDED: 4-24-19)	1.10	TON		\$	

**Section: 0002 - ROADWAY**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0040	01987		DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	8.00	EACH		\$	
0050	02099		CEM CONC ENT PAVEMENT-6 IN	35.00	SQYD		\$	
0060	02159		TEMP DITCH	1,844.00	LF		\$	
0070	02160		CLEAN TEMP DITCH	922.00	LF		\$	
0080	02223		GRANULAR EMBANKMENT	845.00	CUYD		\$	
0090	02230		EMBANKMENT IN PLACE	1,763.00	CUYD		\$	
0100	02259		FENCE-TEMP	1,784.00	LF		\$	
0110	02268		REMOVE & REPLACE FENCE (6 STRAND BARBED WIRE)	338.00	LF		\$	
0120	02268		REMOVE & REPLACE FENCE (7 STRAND BARBED WIRE)	359.00	LF		\$	
0130	02268		REMOVE & REPLACE FENCE (HIGH TENSILE STRAND)	359.00	LF		\$	
0140	02268		REMOVE & REPLACE FENCE (WOVEN WIRE)	728.00	LF		\$	
0150	02351		GUARDRAIL-STEEL W BEAM-S FACE	400.00	LF		\$	
0160	02360		GUARDRAIL TERMINAL SECTION NO 1	2.00	EACH		\$	
0170	02381		REMOVE GUARDRAIL	400.00	LF		\$	
0180	02562		TEMPORARY SIGNS	200.00	SQFT		\$	
0190	02650		MAINTAIN & CONTROL TRAFFIC (LARUE KY 470)	1.00	LS		\$	
0200	02701		TEMP SILT FENCE	1,844.00	LF		\$	
0210	02703		SILT TRAP TYPE A	4.00	EACH		\$	
0220	02704		SILT TRAP TYPE B	4.00	EACH		\$	
0230	02705		SILT TRAP TYPE C	4.00	EACH		\$	
0240	02706		CLEAN SILT TRAP TYPE A	4.00	EACH		\$	
0250	02707		CLEAN SILT TRAP TYPE B	4.00	EACH		\$	
0260	02708		CLEAN SILT TRAP TYPE C	4.00	EACH		\$	
0270	02726		STAKING (LARUE KY 470)	1.00	LS		\$	
0280	03269		TRIM & REMOVE TREES & BRUSH	1,584.00	LF		\$	
0290	05950		EROSION CONTROL BLANKET	1,866.00	SQYD		\$	
0300	05952		TEMP MULCH	11,778.00	SQYD		\$	
0310	05953		TEMP SEEDING AND PROTECTION	8,833.00	SQYD		\$	
0320	05964		MAINTENANCE FERTILIZER	.50	TON		\$	
0330	05985		SEEDING AND PROTECTION	7,502.00	SQYD		\$	
0340	05990		SODDING	2,050.00	SQYD		\$	

**PROPOSAL BID ITEMS**

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0350	06510		PAVE STRIPING-TEMP PAINT-4 IN	3,652.00	LF		\$	

**Section: 0003 - DRAINAGE**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0360	00440		ENTRANCE PIPE-15 IN	69.00	LF		\$	
0370	00441		ENTRANCE PIPE-18 IN	28.00	LF		\$	
0380	00462		CULVERT PIPE-18 IN	26.00	LF		\$	
0390	00464		CULVERT PIPE-24 IN	10.00	LF		\$	
0400	00496		CULVERT PIPE-36 IN EQUIV	94.00	LF		\$	
0410	01310		REMOVE PIPE	223.00	LF		\$	
0420	01490		DROP BOX INLET TYPE 1	1.00	EACH		\$	
0430	02237		DITCHING	415.00	LF		\$	
0440	02483		CHANNEL LINING CLASS II	313.00	TON		\$	
0450	02625		REMOVE HEADWALL	4.00	EACH		\$	
0460	24575ES610		HEADWALL (SLOPED & MITERED CONCRETE FOR 18 INCH PIPE)	3.00	EACH		\$	
0470	24575ES610		HEADWALL (SLOPED & MITERED CONCRETE FOR 24 INCH PIPE)	1.00	EACH		\$	
0480	24575ES610		HEADWALL (SLOPED & MITERED CONCRETE FOR 36 INCH PIPE)	3.00	EACH		\$	

**Section: 0004 - BRIDGE**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0490	02403		REMOVE CONCRETE MASONRY	.40	CUYD		\$	
0500	08002		STRUCTURE EXCAV-SOLID ROCK	13.00	CUYD		\$	
0510	08003		FOUNDATION PREPARATION (DBL RCBC @ STA 289+50)	1.00	LS		\$	
0520	08100		CONCRETE-CLASS A	25.40	CUYD		\$	
0530	08150		STEEL REINFORCEMENT	2,894.00	LB		\$	

**Section: 0005 - WATERLINE**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0540	14003		W CAP EXISTING MAIN	1.00	EACH		\$	
0550	14004		W DIRECTIONAL BORE	110.00	LF		\$	
0560	14023		W FLUSHING ASSEMBLY	1.00	EACH		\$	
0570	14069		W PIPE POLYETHYLENE/PLASTIC 06 INCH	450.00	LF		\$	
0580	14089		W TAPPING SLEEVE AND VALVE SIZE 1	1.00	EACH		\$	
0590	14094		W TIE-IN 06 INCH	1.00	EACH		\$	
0600	14105		W VALVE 06 INCH	1.00	EACH		\$	

0 0000 DEMOLITION

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### PROPOSAL BID ITEMS

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#### Section: 0006 - DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0610	02569		DEMOBILIZATION	1.00	LS		\$	

**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 <sup>1</sup> , %	50 min.	AASHTO T 59
Oil Distillate, %	1.0 max.	AASHTO T 59
Residue Penetration, 77 ° F	20 max.	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

<sup>1</sup> 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. As required by the manufacturer, ensure the spray bar is equipped with #1 or #2 ¼” V-slot Etnyre nozzles. Other nozzles are not acceptable. Arrange the nozzles in the following patterns from left to right:

Nozzle number(s)	Activity	Orientation
1	On	Vertical
2	Off	-
3	On	Horizontal
4 & 5	Off	-
6	On	Horizontal
Continue 2 off and 1 on pattern through rest of spray bar system.		

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 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. Ensure the roadway temperature is a minimum of 40 °F and rising during the application of the tack. This material is not suitable for use in colder temperatures. Prior to applying the tack, 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 initial heating to 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 rate of 0.50 pounds (0.06 gallons) per square yard. Ensure full coverage of the material on the pavement surface. Full coverage of this material is critical. If full coverage is not achieved, material application rate may be increased to ensure full coverage. Do not heat material more than twice in one day.

3.3 Non-tracking Tack Certification. Furnish the tacks 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 adhesive. 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. 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	20 max.	≤ 21	22 - 23	24 - 25	26 - 27	≥ 28
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

April 30, 2018