



COMMONWEALTH OF KENTUCKY  
TRANSPORTATION CABINET

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

Andy Beshear  
GOVERNOR

Jim Gray  
SECRETARY

October 15, 2020

CALL NO. 200  
CONTRACT ID NO. 201316  
ADDENDUM # 1

**Subject:** MARION-WASHINGTON COUNTIES, 121GR20D016-NHPP  
Letting October 23, 2020

- (1) Revised - Plan Sheet R1 - Page 18 of 271
- (2) Revised - Plan Sheet R2 - Page 19 of 271
- (3) Revised - Plan Sheet R2B - Page 22 of 271
- (4) Revised - Plan Sheet R2C - Page 23 of 271
- (5) Revised - Plan Sheet R24A - Page 48 of 271
- (6) Revised - Material Summary - Pages 224-226 of 271
- (7) Added - Special Note for Fine Milling - Pages 199(a)-199(b) of 271
- (8) Revised - Proposal Bid Items - Pages 270-271 of 271

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

COUNTY OF	WASHINGTON
ITEM NO.	4-8916.20
SHEET	R

Revised 10-15-20



# Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS

## PLANS OF PROPOSED PROJECT

### MARION / WASHINGTON COUNTY KY 55 HEARTLAND PARKWAY 2+1 FD52 115 0055 000-005 NHPP 0551(052)

Revised End  
Construction STA

STA. 503+90 - MP 4.574  
END CONSTRUCTION

THIS PROJECT IS ON THE NH SYSTEM

THIS PROJECT IS A PARTIALLY  
CONTROLLED ACCESS HIGHWAY.  
ACCESS SHALL BE PROVIDED ONLY  
WHERE SPECIFICALLY INDICATED  
ON PLANS.

THESE PLANS ARE FOR  
GRADE, DRAIN, AND SURFACING



LAYOUT MAP

**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
RI	LAYOUT SHEET
R2	PROPOSED PLAN
R3	PROPOSED PLAN
R4	PROPOSED PLAN
R5	PROPOSED PLAN
R6	PROPOSED PLAN
R7	PROPOSED PLAN
R8	PROPOSED PLAN
R9	PROPOSED PLAN
R10	PROPOSED PLAN
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R98	PROPOSED PLAN
R99	PROPOSED PLAN
R100	PROPOSED PLAN

TOTAL SHEETS: 89

**SHEETS NOT USED**

R34 - R34L

SHEETS NOT INCLUDED IN TOTAL SHEETS:  
R34A - R34L

**STANDARD DRAWINGS**

NUMBER: 30 TOTAL

- R01 210-03
- R02 210-04
- R03 210-05
- R04 210-06
- R05 210-07
- R06 210-08
- R07 210-09
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- R94 210-96
- R95 210-97
- R96 210-98
- R97 210-99
- R98 210-100
- R99 210-101
- R100 210-102

**DESIGN CRITERIA**

CLASS OF HIGHWAY PRINCIPAL ARTERIAL  
 TYPE OF TERRAIN ROLLING  
 DESIGN SPEED 55 MPH  
 REQUIRED NFSD 1985  
 REQUIRED PSD 1985  
 LEVEL OF SERVICE 1985  
 ADT PRESENT ( 2016 ) 18861  
 ADT FUTURE ( )  
 DRW  
 D %  
 T X KLZ

**GEOGRAPHIC COORDINATES**

LATITUDE 37 DEGREES 39 MINUTES 33 SECONDS NORTH  
 LONGITUDE 85 DEGREES 14 MINUTES 13 SECONDS WEST

**DESIGNED**

% RESTRICTED SD  
 LEVEL OF SERVICE  
 MAX. DISTANCE W/O PASSING

	MARION CO	WASHINGTON CO	TOTAL
LENGTH (MILES)	4.177	2.866	7.043
LENGTH (MILES) FOR EIGHT NOT INCLUDED			
LENGTH (MILES) FOR EIGHT NOT INCLUDED			
RAILROAD CROSSINGS NO.			
BRIDGES			

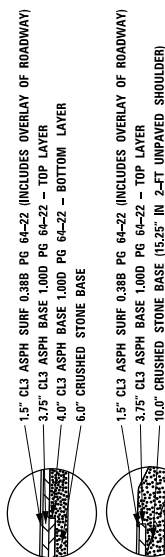
Commonwealth of Kentucky  
DEPARTMENT OF HIGHWAYS  
COUNTY OF  
WASHINGTON

ITEM NO. 4-8916.20  
 PROJECT NUMBER: FD52 115 0055 000-005  
 NHPP 0551(052)  
 LETTING DATE:  
 RECOMMENDED BY: CHRIS SMITH, PE  
 PROJECT MANAGER  
 DATE:  
 PLAN APPROVED BY:  
 STATE HIGHWAY ENGINEER

Revised 10-15-20

**PROPOSED GRADE NOTE:  
PROJECT IS SET UP AS A SPLINE-GRADE  
FOLLOW EXISTING PROFILE (NOT PROVIDED IN PLANS)**

**3-LANE TYPICAL (53')  
CENTER LANE USE VARIES  
(PASSING LANE OR TURN LANE)  
STA 270 + 35.84 TO STA 440 + 00**



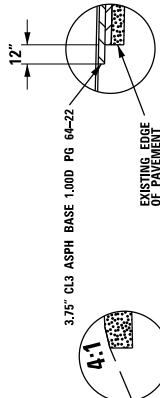
**DETAIL "B"  
NOT TO SCALE**  
USE SAME STEP-OUT WIDTH AS THE THICKNESS OF THE COURSE ABOVE THAT COURSE

ASPHALT SEAL REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO INSIDE EDGE OF DITCH OR FILL SLOPE. TWO APPLICATIONS OF THE FOLLOWING:

ASPHALT SEAL COAT 2.40 LBS / SY (SIZE NO. 8 OR 9M)  
ASPHALT SEAL AGGREGATE 20 LBS / SY (SIZE NO. 8 OR 9M)

**KY 55 OVERLAY ONLY SECTIONS  
STA 440 + 00 TO STA 465 + 00  
STA 478 + 00 TO STA 487 + 00**

**APPLY FOLLOWING FULL WIDTH OF TRAVELED WAY  
1.50" COMPACTED DEPTH CL3 ASPH SURF 0.388 PG64-22**



**DETAIL "A"  
NOT TO SCALE**  
\*IF FORESLOPE INTERSECTS EX GROUND AT PROPOSED SLOPE & PROVIDES EQUAL OR GREATER DITCH AREA THAN EXISTING, TURN SUBGRADE VERTICAL (TYP) (SEE CROSS SECTIONS)

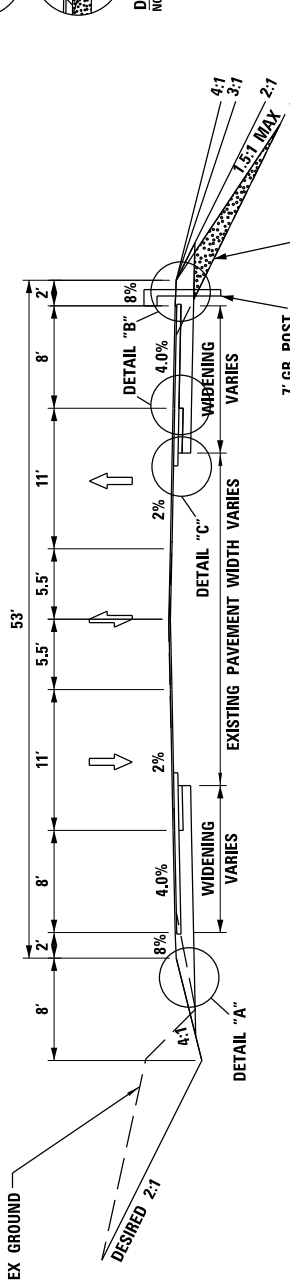
**DETAIL "C"  
NOT TO SCALE**  
MILL 12" LONGITUDINAL EDGE KEY TO BOTTOM OF TOP LIFT OF PROPOSED ASPHALT BASE INTO EDGE OF EXISTING PAVEMENT. SEE CROSS SECTIONS FOR LOCATION.

REVISED DETAIL NOTE

SCALE: 1"=N/A

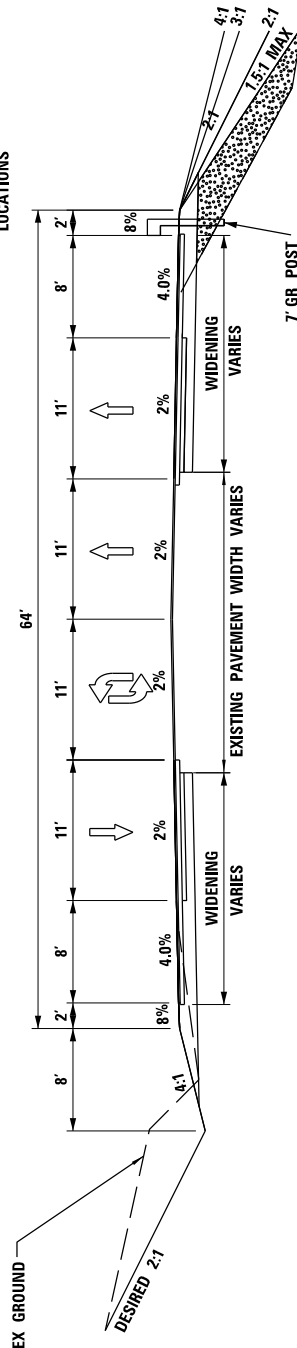
COUNTY OF	ITEM NO.	SHEET NO.
WASHINGTON	4-8916.2	R2

**KY HWY 55 LEBANON HILL RD  
TYPICAL SECTIONS**



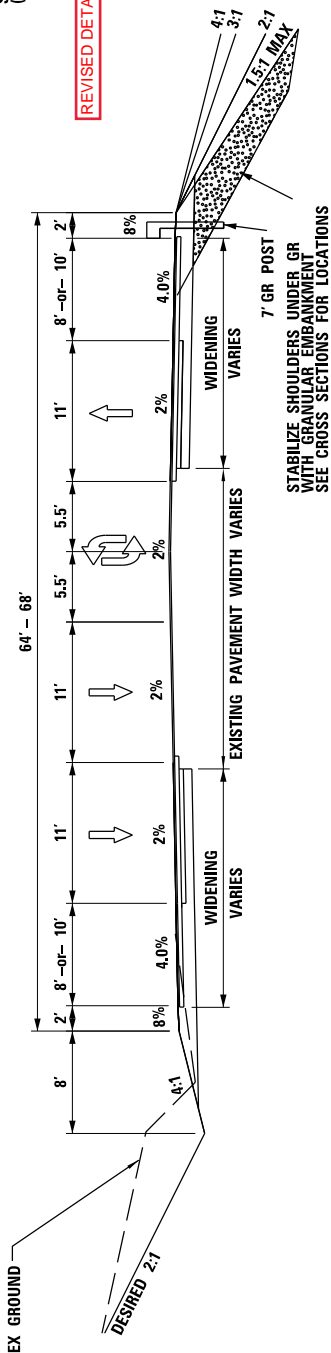
STABILIZE SHOULDERS UNDER GR WITH GRANULAR EMBANKMENT. SEE CROSS SECTIONS FOR LOCATIONS

**4-LANE TYPICAL (64')  
STA 407 + 10 TO STA 417 + 90**



STABILIZE SHOULDERS UNDER GR WITH GRANULAR EMBANKMENT. SEE CROSS SECTIONS FOR LOCATIONS

**4-LANE TYPICAL (64' - 68')  
\*\*STA 468 + 25 TO STA 474 + 00  
\*\*STA 490 + 30 TO STA 499 + 00**  
\*\*REFER TO SHOULDER WIDTH CHARTS ON PLAN SHEETS TO VERIFY SHOULDER WIDTHS



STABILIZE SHOULDERS UNDER GR WITH GRANULAR EMBANKMENT. SEE CROSS SECTIONS FOR LOCATIONS

# GENERAL SUMMARY

Revised 10-15-20

ITEM CODE	DESCRIPTION	UNIT	MARION CO.	WASH. CO.	TOTAL
02200	ROADWAY EXCAVATION	② CUYD		23516	23516
02223	GRANULAR EMBANKMENT	⑥⑦ CUYD		1705	1705
00071	CRUSHED AGGREGATE SIZE NO 57	④ TON		83	83
00078	CRUSHED AGGREGATE SIZE NO 2	③ TON		1850	1850
02585	EDGE KEY	LF	25	711	736
02562	TEMPORARY SIGNS	SF		1000	1000
02560	MAINTAIN & CONTROL TRAFFIC	LS		1	1
02671	PORTABLE CHANGEABLE MESSAGE SIGN	EA	1	1	2
21802EN	GUARDRAIL-STEEL W BEAM-S FACE (7FT POST)	LF		12800	12800
02360	GUARDRAIL TERMINAL SECTION NO 1	EA		6	6
02367	GUARDRAIL END TREATMENT TYPE 1	EA		5	5
02369	GUARDRAIL END TREATMENT TYPE 2A	EA		1	1
02373	GUARDRAIL END TREATMENT TYPE 3	EA		4	4
02381	REMOVE GUARDRAIL	⑤ LF		13281	13281
02391	GUARDRAIL END TREATMENT TYPE 4A	EA		6	6
02371	GUARDRAIL END TREATMENT TYPE 7	EA		4	4
01987	DELINATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	EA		177	177
02237	DITCHING	LF		2765	2765
05985	SEEDING AND PROTECTION	③ SOYD		92250	92250
05989	SPECIAL SEEDING CROWN VETCH	③ SOYD		29000	29000
02545	CLEARING AND GRUBBING	① LS		1	1
02159	TEMP DITCH	LF		11450	11450
02160	CLEAN TEMP DITCH	LF		5725	5725
02701	TEMP SILT FENCE	LF		11450	11450
05952	TEMP MULCH	SOYD		87314	87314
05953	TEMP SEEDING AND PROTECTION	SOYD		65485	65485
02704	SILT TRAP TYPE B	EA		27	27
02707	CLEAN SILT TRAP TYPE B	EA		27	27
02705	SILT TRAP TYPE C	EA		27	27
02708	CLEAN SILT TRAP TYPE C	EA		27	27
02726	STAKING	LS		1	1
06510	PAVE STRIPING - TEMP PAINT - 4 IN	LF	500	137500	138000
06542	PAVE STRIPING - THERMO - 6 IN W	LF	5062	60982	66044
06543	PAVE STRIPING - THERMO - 6 IN Y	LF	241	31682	31923
06574	PAVE MARKING-THERMO CURV ARROW	EA		22	22
06578	PAVE MARKING-THERMO MERGE ARROW	EA	3	32354	32354
20458E5403	CENTERLINE RUMBLE STRIPS	⑥ LF		32354	32354
05963	INITIAL FERTILIZER	TON		1.25	1.25
05964	MAINTENANCE FERTILIZER	TON		7	7
05992	AGRICULTURAL LIMESTONE	TON		81.25	81.25

ITEM CODE	DESCRIPTION	UNIT	MARION CO.	WASH. CO.	TOTAL
20191ED	OBJECT MARKER TY 3	EA		5	5
24489EC	INLAID PAVEMENT MARKER	EA	61	890	951
22664EN	WATER BLASTING EXISTING STRIPE	LF	650	91450	92100
02696	SHOULDER RUMBLE STRIPS	LF	4062	45845	49907
23260EC	PAVE MARK-THERMO-24 IN Y	LF	20	16	36
06568	PAVE MARK-THERMO STOP BAR-24IN	LF		40	40
10020NS	FUEL ADJUSTMENT	DOLL		62549	62549
10030NS	ASPHALT ADJUSTMENT	DOLL		108611	108611
24964EC	FINE MILLING	SOYD		70831	70831
21289ED	LONGITUDINAL EDGE KEY	LF	⑩ 4177	39323	43500
02568	DEMOLITION	LS		1	1
02568	MOBILIZATION	LS		1	1
01373	METAL END SECTION TYPE 1 - 24 IN	EA		5	5
00464	CULVERT PIPE - 24 IN	LF		500	500
00441	ENTRANCE PIPE 18 IN	LF		75	75
23274ENIF	TURF REINFORCEMENT MAT	⑩ SOYD		250	250
05950	EROSION CONTROL BLANKET	⑩ SOYD		250	250

- ⑤ REMOVAL OF EXISTING GUARDRAIL END TREATMENTS SHALL BE INCIDENTAL TO REMOVAL OF GUARDRAIL
- ⑥ SEE CROSS SECTIONS
- ⑦ GEOTEXTILE FABRIC CLASS 1 SHALL BE USED BETWEEN THE INTERFACE OF THE GRANULAR EMBANKMENT AND SOIL. THE FABRIC SHALL BE INCIDENTAL TO THE GRANULAR EMBANKMENT BID ITEM.
- ⑧ TO BE APPLIED TO ALL DOUBLE YELLOW STRIPING, INCLUDING TAPERS
- ⑨ TO BE USED PER ENGINEER'S DISCRETION FOR SOIL STABILIZATION FOR WIDENING - GEOTEXTILE FABRIC CLASS 1 (REQUIRED INCIDENTAL TO BID ITEM)
- ⑩ TO BE USED AT ENGINEER'S DISCRETION
- ⑪ TO BE USED FOR LONGITUDINAL EDGE KEY ON SHEET R2AA

SCALE: 1"=N/A

COUNTY OF	ITEM NO.	SHEET NO.
WASHINGTON	4-8916.2	R2B

KY HWY 55 LEBANON HILL RD  
 GENERAL SUMMARY

REMOVED THE FOLLOWING BID ITEMS:  
 02677 ASPHALT PAVE MILLING AND TEXTURING  
 24964EC FINE MILLING  
 21289ED LONGITUDINAL EDGE KEY  
 ADDITIONAL QUANTITIES ADDED:  
 02585 EDGE KEY  
 06568 PAVE MARKING - THERMO STOP BAR - 24 IN  
 02696 SHOULDER RUMBLE STRIPS  
 06574 PAVE MARKING - THERMO CURV ARROW  
 20458E5403 CENTERLINE RUMBLE STRIPS

- ① APPROXIMATELY 27.06 ACRES TOTAL - LIMIT TO THE CLOSEST OF 15' BEYOND THE DISTURB LIMITS OR R/W LINE
- ② QUANTITIES ARE APPROXIMATE AND ARE FOR INFORMATION ONLY:  
 COM: 23,516 CU YDS TOTAL  
 1,997 CU YDS TOTAL  
 GRAN EMB: 1,705 CU YDS TOTAL
- ③ WATER SHALL BE INCIDENTAL TO MAINTAIN AND CONTROL TRAFFIC
- ④ TO BE USED FOR LATERAL DRAINS.  
 CONSTRUCT PER SECTION 209.03.02 (A)  
 OF THE STANDARD SPECIFICATIONS. GEOTEXTILE FABRIC INCIDENTAL TO CRUSHED AGGREGATE SIZE NO 57.

NOTES:

Revised 10-15-20

# PAVING SUMMARY

## PAVING AREAS

ITEM	MARION COUNTY	WASHINGTON COUNTY	TOTAL PROJECT
1.5" - CL 3 ASPH SURF 0.388 PG 64-22 (INCL. OVERLAY)	---	133479	133479
3.75" - CL 3 ASPH BASE 1.000 PG 64-22 - TOP LAYER	--	58761	58761
4.0" - CL 3 ASPH BASE 1.000 PG 64-22 - BOTTOM LAYER	--	19534	19534
TRAFFIC BOUND BASE	--	34	34
ASPHALT MATERIAL FOR TACK NON-TRACKING	---	21174	21174
ASPHALT SEAL COAT	---	20324	20324
ASPHALT SEAL AGGREGATE	--	20324	20324

## PAVING SUMMARY

ITEM CODE	ITEM	UNIT	MARION COUNTY	WASHINGTON COUNTY	TOTAL PROJECT
00388	CL 3 ASPH SURF 0.388 PG 64-22	⑥ TON	⑨ 902	⑩ 11721	12623
00814	CL 3 ASPH BASE 1.000 PG 64-22	⑨ TON	---	16538	16538
00003	CRUSHED STONE BASE	⑩ TON	⑨ 307	72503	72810
00020	TRAFFIC BOUND BASE	⑮ TON	--	12	12
00190	LEVELING & WEDGING PG 64-22	⑮ TON	⑧ 1284	1100	2384
24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	⑦ TON	③ 54	54	51
00103	ASPHALT SEAL COAT	④ TON	③ 45	495	54
00100	ASPHALT SEAL AGGREGATE	④ TON	③ 38	410	448
24779EC	INTELLIGENT COMPACTION FOR SOIL	⑩ CUYD	---	3602	3602
24780EC	INTELLIGENT COMPACTION FOR AGGREGATE	⑩ TON	---	42475	42475
24781EC	INTELLIGENT COMPACTION FOR ASPHALT	⑩ TON	---	27755	27755
24891EC	PAVE MOUNT INFRARED TEMP EQUIPMENT	① SOFT	---	1730160	1730160
02101	CEM CONC ENTR PAVEMENT-8 IN	⑦ SOYD	--	153	153

ADDITIONAL QUANTITIES ADDED TO THE FOLLOWING BID ITEMS:  
00388 CL3 ASPH SURF 0.388 PG64-22  
00190 LEVELING & WEDGING PG64-22  
248970EC ASPHALT MATERIAL FOR TACK NON-TRACKING

### NOTES:

ALL ASPHALT MIXTURES SHALL BE ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH, UNLESS NOTED OTHERWISE.

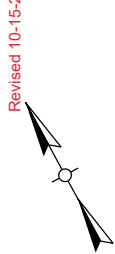
- ① TONNAGE BASED ON END-AREA OF CROSS-SECTIONS
- ② ESTIMATED AT 2.07 TONS/CUYD
- ③ ESTIMATED AT 2.40 LBS. PER SQ. YD. . \*\*TWO COATS
- ④ ESTIMATED AT 20 LBS. PER SQ. YD. . \*\*TWO COATS
- ⑤ SURFACE/OVERLAY EXISTING ROADWAY AS WELL AS PROPOSED WIDENING AND SHOULDERS.
- ⑥ OVERLAY STA 440+00 - STA 465+00
- ⑦ 240 TONS TO BE USED TO PAVE EXISTING ROCK ENTRANCES
- ⑧ TO BE USED BETWEEN ALL ASPHALT COURSE LAYERS AT A RATE OF 0.5 LB/SY
- ⑨ 205 TONS FOR ENTRANCES
- ⑩ 121 TONS FOR ENTRANCES
- ⑪ 500 TONS FOR MOT WEDGING
- ⑫ EQUIVALENT TO EMB + GRAN EMB QUANTITY ON SHEET R2B
- ⑬ EQUIVALENT TO CRUSHED STONE BASE
- ⑭ EQUIVALENT TO TOTAL ASPH
- ⑮ EQUIVALENT TO AREA ASPH SURF AND TOP LAYER ASPH BASE
- ⑯ ESTIMATED AT 115 LBS PER SQ. YD. PER INCH OF DEPTH
- ⑰ USE PER ENGINEER'S DISCRETION
- ⑱ SAWCUT AND ANY NECESSARY WORK INCIDENTAL TO THE BID ITEM
- ⑲ TO BE USED FOR CROSS-SLOPE CORRECTION OF SOUTHBOUND LANE
- ⑳ TO BE USED TO TIE DOWN CSA SHOULDERS IN CROSS-SLOPE CORRECTION AREA
- ㉑ 420 TONS TO BE USED FOR OVERLAY OF KY 55 (MAINLINE & SHOULDERS) FROM STA 499+00 - STA 503+90 (US 150X INTERSECTION).

SCALE: 1"=N/A

NOTE ADDED

COUNTY OF	ITEM NO.	SHEET NO.
WASHINGTON	4-8916.2	R2C

KY HWY 55 LEBANON HILL RD  
PAVING SUMMARY



**Revised End Construction STA**

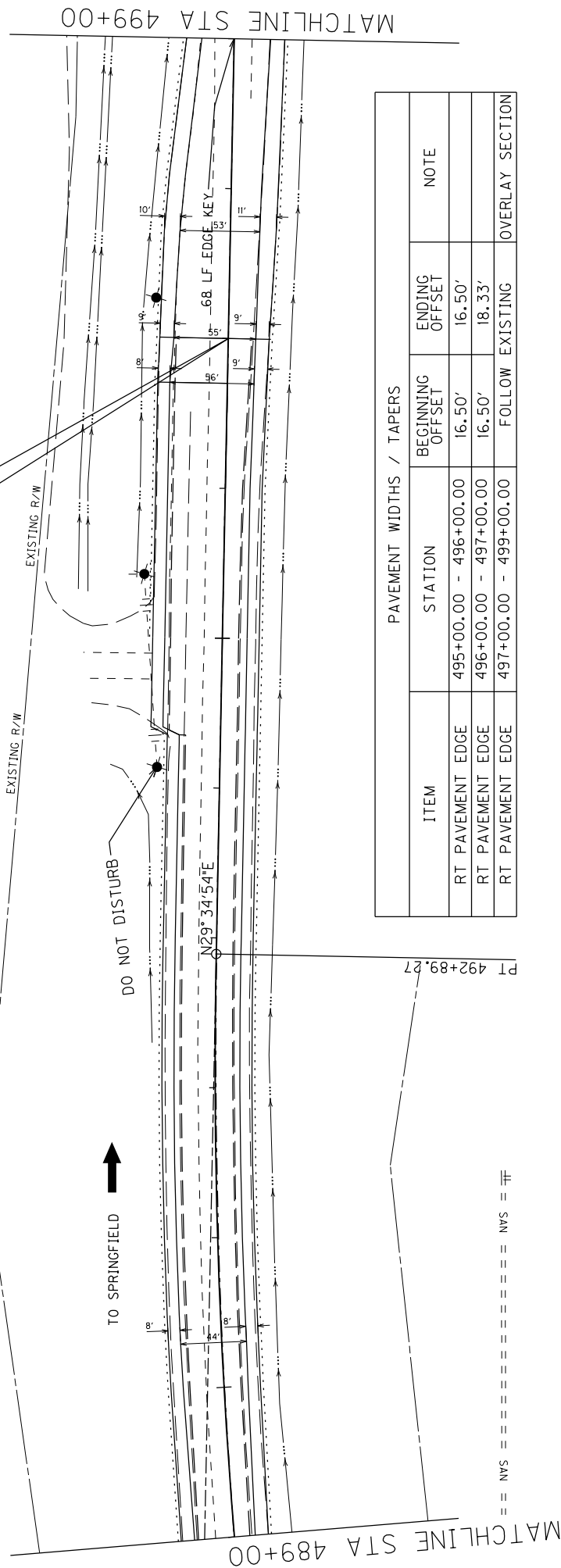
STA. 503+90.00 KY HWY 55  
END OVERLAY  
END CONSTRUCTION

STA. 497+00.00 KY HWY 55  
END WIDENING SECTION  
BEGIN OVERLAY ONLY

PAVEMENT WIDTHS / TAPERS			
ITEM	STATION	BEGINNING OFFSET	ENDING OFFSET
LT PAVEMENT EDGE	495+00.00 - 496+70.00	-38.50'	-38.50'
LT PAVEMENT EDGE	496+70.00 - 497+00.00	-38.50'	EXISTING
LT PAVEMENT EDGE	497+00.00 - 499+00.00	FOLLOW EXISTING	OVERLAY SECTION

495+00

490+00



PAVEMENT WIDTHS / TAPERS			
ITEM	STATION	BEGINNING OFFSET	ENDING OFFSET
RT PAVEMENT EDGE	495+00.00 - 496+00.00	16.50'	16.50'
RT PAVEMENT EDGE	496+00.00 - 497+00.00	16.50'	18.33'
RT PAVEMENT EDGE	497+00.00 - 499+00.00	FOLLOW EXISTING	OVERLAY SECTION

SHOULDER WIDTHS / TAPERS			
ITEM	STATION	BEGINNING WIDTH	ENDING WIDTH
LT UNPAVED SHOULDER	495+00.00 - 499+00.00	-2.0'	-2.0'
LT PAVED SHOULDER	495+00.00 - 496+70.00	-8.0'	-8.0'
LT PAVED SHOULDER	496+70.00 - 497+00.00	-8.0'	EXISTING
LT PAVED SHOULDER	497+00.00 - 499+00.00	FOLLOW EXISTING	OVERLAY SECTION
RT PAVED SHOULDER	495+00.00 - 496+00.00	8.0'	8.0'
RT PAVED SHOULDER	496+00.00 - 497+00.00	8.0'	9.0'
RT PAVED SHOULDER	497+00.00 - 499+00.00	FOLLOW EXISTING	OVERLAY SECTION
RT UNPAVED SHOULDER	495+00.00 - 499+00.00	2.0'	2.0'

SCALE: 1"= 100

COUNTY OF	ITEM NO.	SHEET NO.
WASHINGTON	4-8916.2	R24A

KY HWY 55 LEBANON HILL ROAD  
PLAN SHEET  
STA 489+00 TO STA 499+00

# MATERIAL SUMMARY

**CONTRACT ID: 201316**

**121GR20D016-NHPP**

**DE07800552016**

HEARTLAND PARKWAY (KY 55) FROM MILEPOINT 3.878 TO MILEPOINT 4.669 WIDENING, A DISTANCE OF .79 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0005	00003	CRUSHED STONE BASE	302.00	TON
0010	00100	ASPHALT SEAL AGGREGATE	38.00	TON
0015	00103	ASPHALT SEAL COAT	4.50	TON
0020	00190	LEVELING & WEDGING PG64-22 - (REVISED: 10-15-20)	1,284.00	TON
0025	00388	CL3 ASPH SURF 0.38B PG64-22 - (REVISED: 10-15-20)	902.00	TON
0030	24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING - (REVISED: 10-15-20)	3.00	TON
0035	02585	EDGE KEY - (REVISED: 10-15-20)	25.00	LF
0040	02671	PORTABLE CHANGEABLE MESSAGE SIGN	1.00	EACH
0045	02696	SHOULDER RUMBLE STRIPS - (REVISED: 10-15-20)	4,062.00	LF
0050	06510	PAVE STRIPING-TEMP PAINT-4 IN	500.00	LF
0055	06542	PAVE STRIPING-THERMO-6 IN W	5,062.00	LF
0060	06543	PAVE STRIPING-THERMO-6 IN Y	247.00	LF
0065	06578	PAVE MARKING-THERMO MERGE ARROW	3.00	EACH
0070	22664EN	WATER BLASTING EXISTING STRIPE	650.00	LF
0075	23260EC	PAVE MARK-THERMO-24 IN Y	20.00	LF
0080	24489EC	INLAID PAVEMENT MARKER	61.00	EACH
0085	21289ED	LONGITUDINAL EDGE KEY - (ADDED: 10-15-20)	4,177.00	LF

**CONTRACT ID: 201316**

**121GR20D016-NHPP**

**DE11500552016**

HEARTLAND PARKWAY (KY 55) FROM MILEPOINT 0.000 TO MILEPOINT 4.481 WIDENING, A DISTANCE OF 4.48 MILES.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0090	00003	CRUSHED STONE BASE	42,503.00	TON
0095	00020	TRAFFIC BOUND BASE	12.00	TON
0100	00100	ASPHALT SEAL AGGREGATE	410.00	TON
0105	00103	ASPHALT SEAL COAT	49.50	TON
0110	00190	LEVELING & WEDGING PG64-22 - (REVISED: 10-15-20)	1,100.00	TON
0115	00214	CL3 ASPH BASE 1.00D PG64-22	16,538.00	TON
0120	00388	CL3 ASPH SURF 0.38B PG64-22 - (REVISED: 10-15-20)	11,721.00	TON
0125	02101	CEM CONC ENT PAVEMENT-8 IN	153.00	SQYD
0130	24779EC	INTELLIGENT COMPACTION FOR SOIL	3,602.00	CUYD
0135	24780EC	INTELLIGENT COMPACTION FOR AGGREGATE	42,475.00	TON
0140	24781EC	INTELLIGENT COMPACTION FOR ASPHALT	27,755.00	TON
0145	24891EC	PAVE MOUNT INFRARED TEMP EQUIPMENT	1,730,160.00	SF
0150	24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING - (REVISED: 10-15-20)	54.00	TON
0155	00071	CRUSHED AGGREGATE SIZE NO 57	83.00	TON

# MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0160	00078	CRUSHED AGGREGATE SIZE NO 2	1,350.00	TON
0165	00441	ENTRANCE PIPE-18 IN	75.00	LF
0170	00464	CULVERT PIPE-24 IN	500.00	LF
0175	01373	METAL END SECTION TY 1-24 IN	5.00	EACH
0180	01987	DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	177.00	EACH
0185	02159	TEMP DITCH	11,450.00	LF
0190	02160	CLEAN TEMP DITCH	5,725.00	LF
0195	02200	ROADWAY EXCAVATION	23,516.00	CUYD
0200	02223	GRANULAR EMBANKMENT	1,705.00	CUYD
0205	02237	DITCHING	2,765.00	LF
0210	02360	GUARDRAIL TERMINAL SECTION NO 1	6.00	EACH
0215	02367	GUARDRAIL END TREATMENT TYPE 1	5.00	EACH
0220	02369	GUARDRAIL END TREATMENT TYPE 2A	1.00	EACH
0225	02371	GUARDRAIL END TREATMENT TYPE 7	4.00	EACH
0230	02373	GUARDRAIL END TREATMENT TYPE 3	4.00	EACH
0235	02381	REMOVE GUARDRAIL	13,281.00	LF
0240	02391	GUARDRAIL END TREATMENT TYPE 4A	6.00	EACH
0245	02545	CLEARING AND GRUBBING - APPROXIMATELY 27.06 ACRES	1.00	LS
0250	02562	TEMPORARY SIGNS	1,000.00	SQFT
0255	02585	EDGE KEY - (REVISED: 10-15-20)	736.00	LF
0260	02650	MAINTAIN & CONTROL TRAFFIC	1.00	LS
0265	02671	PORTABLE CHANGEABLE MESSAGE SIGN	1.00	EACH
0270	02676	MOBILIZATION FOR MILL & TEXT	1.00	LS
0275	02696	SHOULDER RUMBLE STRIPS - (REVISED: 10-15-20)	45,845.00	LF
0280	02701	TEMP SILT FENCE	11,450.00	LF
0285	02704	SILT TRAP TYPE B	27.00	EACH
0290	02705	SILT TRAP TYPE C	27.00	EACH
0295	02707	CLEAN SILT TRAP TYPE B	27.00	EACH
0300	02708	CLEAN SILT TRAP TYPE C	27.00	EACH
0305	02726	STAKING	1.00	LS
0310	05950	EROSION CONTROL BLANKET	250.00	SQYD
0315	05952	TEMP MULCH	87,314.00	SQYD
0320	05953	TEMP SEEDING AND PROTECTION	65,485.00	SQYD
0325	05963	INITIAL FERTILIZER	4.25	TON
0330	05964	MAINTENANCE FERTILIZER	7.00	TON
0335	05985	SEEDING AND PROTECTION	92,250.00	SQYD
0340	05989	SPECIAL SEEDING CROWN VETCH	29,000.00	SQYD
0345	05992	AGRICULTURAL LIMESTONE	81.25	TON
0350	06510	PAVE STRIPING-TEMP PAINT-4 IN	137,500.00	LF
0355	06542	PAVE STRIPING-THERMO-6 IN W	60,982.00	LF
0360	06543	PAVE STRIPING-THERMO-6 IN Y	31,682.00	LF
0365	06568	PAVE MARKING-THERMO STOP BAR-24IN - (REVISED: 10-15-20)	40.00	LF
0370	06574	PAVE MARKING-THERMO CURV ARROW - (REVISED: 10-15-20)	22.00	EACH
0375	06578	PAVE MARKING-THERMO MERGE ARROW	12.00	EACH
0380	10020NS	FUEL ADJUSTMENT	62,549.00	DOLL
0385	10030NS	ASPHALT ADJUSTMENT	108,511.00	DOLL
0390	20191ED	OBJECT MARKER TY 3	5.00	EACH
0395	20458ES403	CENTERLINE RUMBLE STRIPS - (REVISED: 10-15-20)	32,354.00	LF



## MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0400	21802EN	G/R STEEL W BEAM-S FACE (7 FT POST)	12,800.00	LF
0405	22664EN	WATER BLASTING EXISTING STRIPE	91,450.00	LF
0410	23260EC	PAVE MARK-THERMO-24 IN Y	3,161.00	LF
0415	23274EN11F	TURF REINFORCEMENT MAT 1	250.00	SQYD
0420	24489EC	INLAID PAVEMENT MARKER	890.00	EACH
0425	02568	MOBILIZATION	1.00	LS
0430	02569	DEMOBILIZATION	1.00	LS
0435	24964EC	FINE MILLING - (ADDED: 10-15-20)	70,831.00	SQYD
0440	21289ED	LONGITUDINAL EDGE KEY - (ADDED: 10-15-20)	39,323.00	LF

## **SPECIAL NOTE FOR FINE MILLING**

Perform Fine Milling at areas outlined in the Typical Sections and as directed by the Engineer.

- A. Equipment.** Provide a cold milling machine with a fine tooth milling drum and an electronic grade control system. The tool spacing of the drum shall not exceed 3/8 inch. The machine shall be equipped with a grade control system capable of determining a mean value from a minimum of three grade sensors. The sensors shall span a minimum length of 20 feet longitudinally. The drum must be capable of producing a macrotexture measurement greater than or equal to 9.5 inches as described in C. Testing.
- B. Construction.** The milling machine shall be operated as a speed and drum revolution per minute such that the macrotexture measurement is greater than or equal to 9.5 inches as described in C. Testing and the milled pavement profile does not vary longitudinally more than 1/4 inch from a 16' straight edge. Maintain the milling drum such that the cross-slope does not vary more than 1/8 inch from a 10 foot straightedge. Milling shall be performed so that the cross-slope breaks between driving lanes and shoulders remain at their existing locations. Depth of milling shall be set so as to remove rutting, rumble strips, and profile errors. KYTC will take possession of all millings from milling operations. Millings are to be delivered to Washington Co. KYTC Maintenance Yard, 1007 Highway 555, Springfield, KY 40069. The milled surface shall be swept clean of all loose material after milling and prior to resurfacing. Prior to resurfacing, allow traffic to drive on the milled surface for a minimum of 5 days to permit the removal of fine dust from the milled surface.
- C. Testing.** Testing shall be performed to determine the macrotexture of the milled pavement surface at a random location chosen in accordance with Kentucky Method KM 64-113-14. Test area shall be cleaned with a stiff wire and or soft bristle brush and protected with a wind screen as necessary. Pour 200 ml of Type 1 glass beads (meeting AASHTO M247) from a height of 4 inches or less onto the milled pavement surface. Using a round plexiglass disk (8 inches in diameter x 1/2 inch thick) with a round handle, place gently on the pile of beads and spread in a slow circular motion to disperse the beads in a circular area and create a defined crest around the perimeter. Continue spreading until the beads are well dispersed and the disk rides on top of the high points of the milled pavement surface. Measure the diameter of the pile in inches at 0 degrees, 45 degrees, 90 degrees and 135 degrees. Determine the macrotexture measurement in inches by adding the four measurements and dividing by four. Frequency of testing shall be a minimum of once daily and additional testing will be performed as determined necessary by the project engineer.
- D. Measurement.** The Department will measure Fine Milling in Sq. Yds. of surface milled.
- E. Payment.** Payment at the contract unit price per Sq. Yd. of Asphalt Pavement Milling and Texturing (Fine Milling) shall be full compensation for all equipment, labor, materials, and incidentals necessary to complete the operations described herein.

## SPECIAL NOTE FOR CONSTRUCTION PHASING

The contractor shall begin construction by using the centerline crown in all existing 2 lanes sections as a control to construct the 2% typical cross slope in all tangent sections. Cross slope information throughout superelevation transitions is provided on sheets R35 – R35VV. The contractor shall begin work by milling from the above stated crown point down the existing travel lane to remove “high” points to achieve a 2% cross slope in tangents. The contractor shall then use leveling & wedging to fill in the “low” points in the existing travel lanes to achieve a continuous 2% cross slope in tangents, with superelevation transitions receiving the same milling and leveling and wedging to reach the desired cross slopes indicated in the sheet range of R35 – R35VV. Once the existing pavement has been corrected, the contractor shall use the corrected travel lanes for elevation control of proposed widening. Only one side of the highway through a given station range shall be permitted to be widened at any given time.

**PROPOSAL BID ITEMS**

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**Section: 0001 - PAVING**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00003		CRUSHED STONE BASE	42,805.00	TON		\$	
0020	00020		TRAFFIC BOUND BASE	12.00	TON		\$	
0030	00100		ASPHALT SEAL AGGREGATE	448.00	TON		\$	
0040	00103		ASPHALT SEAL COAT	54.00	TON		\$	
0050	00190		LEVELING & WEDGING PG64-22 (REVISED: 10-15-20)	2,384.00	TON		\$	
0060	00214		CL3 ASPH BASE 1.00D PG64-22	16,538.00	TON		\$	
0070	00388		CL3 ASPH SURF 0.38B PG64-22 (REVISED: 10-15-20)	12,623.00	TON		\$	
0080	02101		CEM CONC ENT PAVEMENT-8 IN	153.00	SQYD		\$	
0090	24779EC		INTELLIGENT COMPACTION FOR SOIL	3,602.00	CUYD		\$	
0100	24780EC		INTELLIGENT COMPACTION FOR AGGREGATE	42,475.00	TON		\$	
0110	24781EC		INTELLIGENT COMPACTION FOR ASPHALT	27,755.00	TON		\$	
0120	24891EC		PAVE MOUNT INFRARED TEMP EQUIPMENT	1,730,160.00	SF		\$	
0130	24970EC		ASPHALT MATERIAL FOR TACK NON- TRACKING (REVISED: 10-15-20)	57.00	TON		\$	

**Section: 0002 - ROADWAY**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0140	00071		CRUSHED AGGREGATE SIZE NO 57	83.00	TON		\$	
0150	00078		CRUSHED AGGREGATE SIZE NO 2	1,350.00	TON		\$	
0160	00441		ENTRANCE PIPE-18 IN	75.00	LF		\$	
0170	00464		CULVERT PIPE-24 IN	500.00	LF		\$	
0180	01373		METAL END SECTION TY 1-24 IN	5.00	EACH		\$	
0190	01987		DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	177.00	EACH		\$	
0200	02159		TEMP DITCH	11,450.00	LF		\$	
0210	02160		CLEAN TEMP DITCH	5,725.00	LF		\$	
0220	02200		ROADWAY EXCAVATION	23,516.00	CUYD		\$	
0230	02223		GRANULAR EMBANKMENT	1,705.00	CUYD		\$	
0240	02237		DITCHING	2,765.00	LF		\$	
0250	02360		GUARDRAIL TERMINAL SECTION NO 1	6.00	EACH		\$	
0260	02367		GUARDRAIL END TREATMENT TYPE 1	5.00	EACH		\$	
0270	02369		GUARDRAIL END TREATMENT TYPE 2A	1.00	EACH		\$	
0280	02371		GUARDRAIL END TREATMENT TYPE 7	4.00	EACH		\$	
0290	02373		GUARDRAIL END TREATMENT TYPE 3	4.00	EACH		\$	
0300	02381		REMOVE GUARDRAIL	13,281.00	LF		\$	
0310	02391		GUARDRAIL END TREATMENT TYPE 4A	6.00	EACH		\$	
0320	02545		CLEARING AND GRUBBING APPROXIMATELY 27.06 ACRES	1.00	LS		\$	
0330	02562		TEMPORARY SIGNS	1,000.00	SQFT		\$	
0340	02585		EDGE KEY (REVISED: 10-15-20)	761.00	LF		\$	
0350	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0360	02671		PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH		\$	

**PROPOSAL BID ITEMS**

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0370	02676		MOBILIZATION FOR MILL & TEXT	1.00	LS		\$	
0390	02696		SHOULDER RUMBLE STRIPS (REVISED: 10-15-20)	49,907.00	LF		\$	
0400	02701		TEMP SILT FENCE	11,450.00	LF		\$	
0410	02704		SILT TRAP TYPE B	27.00	EACH		\$	
0420	02705		SILT TRAP TYPE C	27.00	EACH		\$	
0430	02707		CLEAN SILT TRAP TYPE B	27.00	EACH		\$	
0440	02708		CLEAN SILT TRAP TYPE C	27.00	EACH		\$	
0450	02726		STAKING	1.00	LS		\$	
0460	05950		EROSION CONTROL BLANKET	250.00	SQYD		\$	
0470	05952		TEMP MULCH	87,314.00	SQYD		\$	
0480	05953		TEMP SEEDING AND PROTECTION	65,485.00	SQYD		\$	
0490	05963		INITIAL FERTILIZER	4.25	TON		\$	
0500	05964		MAINTENANCE FERTILIZER	7.00	TON		\$	
0510	05985		SEEDING AND PROTECTION	92,250.00	SQYD		\$	
0520	05989		SPECIAL SEEDING CROWN VETCH	29,000.00	SQYD		\$	
0530	05992		AGRICULTURAL LIMESTONE	81.25	TON		\$	
0540	06510		PAVE STRIPING-TEMP PAINT-4 IN	138,000.00	LF		\$	
0550	06542		PAVE STRIPING-THERMO-6 IN W	66,044.00	LF		\$	
0560	06543		PAVE STRIPING-THERMO-6 IN Y	31,929.00	LF		\$	
0570	06568		PAVE MARKING-THERMO STOP BAR-24IN (REVISED: 10-15-20)	40.00	LF		\$	
0580	06574		PAVE MARKING-THERMO CURV ARROW (REVISED: 10-15-20)	22.00	EACH		\$	
0590	06578		PAVE MARKING-THERMO MERGE ARROW	15.00	EACH		\$	
0600	10020NS		FUEL ADJUSTMENT	62,549.00	DOLL	\$1.00	\$	\$62,549.00
0610	10030NS		ASPHALT ADJUSTMENT	108,511.00	DOLL	\$1.00	\$	\$108,511.00
0620	20191ED		OBJECT MARKER TY 3	5.00	EACH		\$	
0630	20458ES403		CENTERLINE RUMBLE STRIPS (REVISED: 10-15-20)	32,354.00	LF		\$	
0635	21289ED		LONGITUDINAL EDGE KEY (ADDED: 10-15-20)	43,500.00	LF		\$	
0640	21802EN		G/R STEEL W BEAM-S FACE (7 FT POST)	12,800.00	LF		\$	
0650	22664EN		WATER BLASTING EXISTING STRIPE	92,100.00	LF		\$	
0660	23260EC		PAVE MARK-THERMO-24 IN Y	3,181.00	LF		\$	
0670	23274EN11F		TURF REINFORCEMENT MAT 1	250.00	SQYD		\$	
0680	24489EC		INLAID PAVEMENT MARKER	951.00	EACH		\$	
0685	24964EC		FINE MILLING (ADDED: 10-15-20)	70,831.00	SQYD		\$	

**Section: 0003 - DEMOBILIZATION &/OR MOBILIZATION**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0690	02568		MOBILIZATION	1.00	LS		\$	
0700	02569		DEMOBILIZATION	1.00	LS		\$	