



TRANSPORTATION CABINET

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

Steven L. Beshear
Governor

Michael W. Hancock, P.E.
Secretary

October 13, 2015

CALL NO. 202
CONTRACT ID NO. 151067
ADDENDUM # 1

Subject: Fayette County, 034GR15D067
Letting October 23, 2015

- (1) Revised - Plan Sheet - R2J
- (2) Revised - Material Summary - Pages 51-55 of 133
- (3) Revised - Bid Items - Pages 129-133 of 133
- (4) Added - Note - Pages 1-3 of 3

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

Plan revisions are available at <http://www.lynnimaging.com/kytransportation/>.

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:ks
Enclosures



An Equal Opportunity Employer M/F/D

PAVING AREAS

ITEM	S Q U A R E						Y	A	R	D	S
	SITE #1	SITE #2	SITE #3	SITE #4	SITE #5	SITE #6					
1.25" CL3 ASPH SURF 0.38B PG64-22	9,000		10,500	1,002			1,052	4,025	2,918		44,483
1.5" CL3 ASPH SURF 0.38B PG64-22											402
1.5" CL2 ASPH SURF 0.38D PG64-22											
2.5" CL2 ASPH BASE 0.75D PG64-22											665
2.5" CL3 ASPH BASE 0.75D PG64-22							1,052				17,095
3.0" CL3 ASPH BASE 0.75D PG64-22											2,755
3.5" CL3 ASPH BASE 0.75D PG64-22			1,030					4,055	2,933		8,018
3.5" CL3 ASPH BASE 0.75D PG64-22			1,060					4,130	2,969		8,159
5.0" ASPHALT PAVING - PERVIOUS ASPHALT	37,541	30,910	17,323								85,774
8" DGA BASE ①				1,094			1,402	4,204	3,004		30,409

PAVING SUMMARY

ITEM CODE	ITEM	UNIT	SITE #1	SITE #2	SITE #3	SITE #4	SITE #5	SITE #6	IRONWORKS TURN LANES	LEGACY TRAIL	CAMP GROUND RD TRAIL	TRAIL HEAD ACCESS RD	TRAIL HEAD	TOTAL PROJECT
388	CL3 ASPH SURF 0.38B PG64-22 ②⑤	TON	743		866	83			218	1,101	87	332	240	3,670
223	CL3 ASPH BASE 0.75D PG64-22 ②	TON			403				825	1,834	145	1,575	1,136	5,175
301	CL2 ASPH SURF 0.38D PG64-22 ②	TON							33					33
221	CL2 ASPH BASE 0.75D PG64-22 ②	TON							91					91
1	DGA BASE ①	TON				742			1,343	8,181	645	2,128	1,381	14,420
24446EC	ASPHALT PAVING - PERVIOUS ASPHALT	TON	9,385	7,728	4,331									21,444

NOTES

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

- ① ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH.
- ② ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH.
- ③ ESTIMATED AT 95 LBS. PER SQ. YD. PER INCH OF DEPTH.
- ④ CALCULATED USING END AREA METHOD

⑤ ASPHALT FOR SITE #1 & #3 TO BE USED FOR PAVEMENT REPAIR AT THE DIRECTION OF THE ENGINEER

PLAN REVISION DATE: 7-24-2015

PAVING AREAS

ITEM	S Q U A R E						Y	A	R	D	TOTAL PROJECT
	SITE #1	SITE #2	SITE #3	SITE #4	SITE #5	SITE #6					
1.25" CL3 ASPH SURF 0.38B PG64-22	9,000		10,500	1,002							44,483
1.5" CL3 ASPH SURF 0.38B PG64-22											402
1.5" CL2 ASPH SURF 0.38D PG64-22											665
2.5" CL2 ASPH BASE 0.75D PG64-22											17,095
2.5" CL3 ASPH BASE 0.75D PG64-22											2,755
3.0" CL3 ASPH BASE 0.75D PG64-22											8,018
3.5" CL3 ASPH BASE 0.75D PG64-22			1,030								8,159
3.5" CL3 ASPH BASE 0.75D PG64-22			1,060								85,774
5.0" ASPHALT PAVING - PERVIOUS ASPHALT	37,541	30,910	17,323								
8" DGA BASE ①				1,094							30,409

PLAN REVISION DATE: 7-24-2015

PAVING SUMMARY

ITEM CODE	ITEM	UNIT	SITE #1	SITE #2	SITE #3	SITE #4	SITE #5	SITE #6	IRONWORKS TURN LANES	LEGACY TRAIL	CAMP GROUND RD TRAIL	TRAIL HEAD ACCESS RD	TRAIL HEAD	TOTAL PROJECT
388	CL3 ASPH SURF 0.38B PG64-22	⑤ TON	743		866	83			218	1,101	87	332	240	3,670
223	CL3 ASPH BASE 0.75D PG64-22	② TON			403				825	1,834	145	1,575	1,136	5,175
301	CL2 ASPH SURF 0.38D PG64-22	② TON							33					33
221	CL2 ASPH BASE 0.75D PG64-22	② TON							91					91
1	DGA BASE ①	TON				742			1,343	8,181	645	2,128	1,381	14,420
24446EC	ASPHALT PAVING - PERVIOUS ASPHALT	TON	9,385	7,728	4,331									21,444

NOTES

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

- ① ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH.
- ② ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH.
- ③ ESTIMATED AT 95 LBS. PER SQ. YD. PER INCH OF DEPTH.
- ④ CALCULATED USING END AREA METHOD

⑤ ASPHALT FOR SITE #1 & #3 TO BE USED FOR PAVEMENT REPAIR AT THE DIRECTION OF THE ENGINEER

MATERIAL SUMMARY

CONTRACT ID: 151067

034GR15D067

DE03485341567

KENTUCKY HORSE PARK VARIOUS TRANSPORTATION IMPROVEMENTS WITHIN THE KENTUCKY HORSE PARK. GRADE & DRAIN WITH ASPHALT SURFACE.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0005	00001	DGA BASE	2,085.00	TON
0010	00221	CL2 ASPH BASE 0.75D PG64-22	91.00	TON
0015	00223	CL3 ASPH BASE 0.75D PG64-22	1,228.00	TON
0020	00301	CL2 ASPH SURF 0.38D PG64-22	33.00	TON
0025	00388	CL3 ASPH SURF 0.38B PG64-22 - (REVISED: 10-13-15)	1,910.00	TON
0030	24446EC	ASPHALT PAVING - PERVIOUS PAVEMENTS	21,444.00	TON
0035	00071	CRUSHED AGGREGATE SIZE NO 57	2,174.00	TON
0040	00078	CRUSHED AGGREGATE SIZE NO 2	63,992.00	TON
0045	00083	CRUSHED AGGREGATE SIZE NO 8	9,663.00	TON
0050	01001	PERFORATED PIPE-6 IN	1,218.00	LF
0055	01012	NON-PERFORATED PIPE-8 IN	938.00	LF
0060	01013	NON-PERFORATED PIPE-10 IN	62.00	LF
0065	01022	PERF PIPE HEADWALL TY 1-8 IN	41.00	EACH
0070	01310	REMOVE PIPE	311.00	LF
0075	01456	CURB BOX INLET TYPE A	3.00	EACH
0080	01496	DROP BOX INLET TYPE 3	1.00	EACH
0085	01541	DROP BOX INLET TYPE 10	3.00	EACH
0090	01643	JUNCTION BOX-24 IN	1.00	EACH
0095	01811	STANDARD CURB AND GUTTER MOD	9,000.00	LF
0100	01876	STANDARD HEADER CURB MOD	55.00	LF
0105	01891	ISLAND HEADER CURB TYPE 2	410.00	LF
0110	01895	VALLEY GUTTER	70.00	LF
0115	01982	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	3.00	EACH
0120	02003	RELOCATE TEMP CONC BARRIER	1,130.00	LF
0125	02006	REMOVE CONCRETE MEDIAN	106.00	LF
0130	02091	REMOVE PAVEMENT	264.00	SQYD
0135	02159	TEMP DITCH	4,750.00	LF
0140	02160	CLEAN TEMP DITCH	2,375.00	LF
0145	02200	ROADWAY EXCAVATION	45,498.00	CUYD
0150	02237	DITCHING	1,500.00	LF
0155	02242	WATER	3.70	MGAL
0160	02265	REMOVE FENCE	363.00	LF
0165	02351	GUARDRAIL-STEEL W BEAM-S FACE	228.00	LF
0170	02359	GUARDRAIL CONNECTOR TO CONC MED BARR	2.00	EACH
0175	02367	GUARDRAIL END TREATMENT TYPE 1	1.00	EACH
0180	02369	GUARDRAIL END TREATMENT TYPE 2A	1.00	EACH
0185	02381	REMOVE GUARDRAIL	410.00	LF
0190	02483	CHANNEL LINING CLASS II	72.00	TON
0195	02545	CLEARING AND GRUBBING - 29.8 ACRES	1.00	LS
0200	02585	EDGE KEY	1,697.00	LF
0205	02599	FABRIC-GEOTEXTILE TYPE IV	89,306.00	SQYD
0210	02650	MAINTAIN & CONTROL TRAFFIC	1.00	LS

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0215	02701	TEMP SILT FENCE	4,750.00	LF
0220	02703	SILT TRAP TYPE A	26.00	EACH
0225	02704	SILT TRAP TYPE B	26.00	EACH
0230	02705	SILT TRAP TYPE C	26.00	EACH
0235	02706	CLEAN SILT TRAP TYPE A	26.00	EACH
0240	02707	CLEAN SILT TRAP TYPE B	26.00	EACH
0245	02708	CLEAN SILT TRAP TYPE C	26.00	EACH
0250	02720	SIDEWALK-4 IN CONCRETE	80.00	SQYD
0255	02726	STAKING	1.00	LS
0260	02898	RELOCATE CRASH CUSHION	2.00	EACH
0265	02900	INSTALL TEMP CRASH CUSHION	2.00	EACH
0270	03171	CONCRETE BARRIER WALL TYPE 9T	1,130.00	LF
0275	03289	SIDEWALK RAMP TYPE 3	2.00	EACH
0280	03425	ADJUST WATER VALVE	1.00	EACH
0285	03436	REMOVE-REINSTALL FIRE HYDRANT	1.00	EACH
0290	05950	EROSION CONTROL BLANKET	15,000.00	SQYD
0295	05952	TEMP MULCH	88,668.00	SQYD
0300	05953	TEMP SEEDING AND PROTECTION	67,172.00	SQYD
0305	05963	INITIAL FERTILIZER	1.60	TON
0310	05964	20-10-10 FERTILIZER	7.00	TON
0315	05985	SEEDING AND PROTECTION	134,343.00	SQYD
0320	05990	SODDING	750.00	SQYD
0325	06407	SBM ALUM SHEET SIGNS .125 IN	6.25	SQFT
0330	06410	STEEL POST TYPE 1	12.00	LF
0335	06510	PAVE STRIPING-TEMP PAINT-4 IN	500.00	LF
0340	06514	PAVE STRIPING-PERM PAINT-4 IN	27,266.00	LF
0345	06566	PAVE MARKING-THERMO X-WALK-12 IN	206.00	LF
0350	06567	PAVE MARKING-THERMO STOP BAR-12IN	28.00	LF
0355	06574	PAVE MARKING-THERMO CURV ARROW	11.00	EACH
0360	08018	RETAINING WALL	3,806.00	SQFT
0365	08100	CONCRETE-CLASS A	65.00	CUYD
0370	10020NS	FUEL ADJUSTMENT	11,192.00	DOLL
0375	10030NS	ASPHALT ADJUSTMENT	6,463.00	DOLL
0380	15092	S MANHOLE	2.00	EACH
0385	20418ED	REMOVE & RELOCATE SIGNS	3.00	EACH
0390	20985ND	CLEANOUT - PIPE	2.00	EACH
0395	21289ED	LONGITUDINAL EDGE KEY	1,985.00	LF
0400	22000ED	WOOD PLANK FENCE - 2 BOARD FENCE	1,386.00	LF
0405	23086EN	CONCRETE MEDIAN BARRIER TY 9C	300.00	LF
0410	23158ES505	DETECTABLE WARNINGS	32.00	SQFT
0415	23836EC	RELOCATE LIGHT POLE	2.00	EACH
0420	23837EC	RELOCATE UNDERGROUND ELECTRIC	310.00	LF
0425	30050	SPEED HUMP - 11 LOCATIONS	1.00	LS
0430	30062	REMOVE STEEL PIPE BOLLARD - REMOVE BOLLARDS	4.00	EACH
0435	00460	CULVERT PIPE-12 IN	369.00	LF
0440	00461	CULVERT PIPE-15 IN	95.00	LF
0445	00462	CULVERT PIPE-18 IN	915.00	LF
0450	00464	CULVERT PIPE-24 IN	673.00	LF
0455	00466	CULVERT PIPE-30 IN	685.00	LF
0460	01200	PIPE CULVERT HEADWALL-12 IN	1.00	EACH

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0465	01202	PIPE CULVERT HEADWALL-15 IN	2.00	EACH
0470	01204	PIPE CULVERT HEADWALL-18 IN	7.00	EACH
0475	01208	PIPE CULVERT HEADWALL-24 IN	2.00	EACH
0480	01210	PIPE CULVERT HEADWALL-30 IN	4.00	EACH
0485	01456	CURB BOX INLET TYPE A	3.00	EACH
0490	01480	CURB BOX INLET TYPE B	3.00	EACH
0495	01496	DROP BOX INLET TYPE 3	2.00	EACH
0500	01541	DROP BOX INLET TYPE 10	3.00	EACH
0505	01621	CONC MED BARR BOX INLET TY 9B1	1.00	EACH
0510	01643	JUNCTION BOX-24 IN	1.00	EACH
0515	01756	MANHOLE TYPE A	1.00	EACH
0520	02403	REMOVE CONCRETE MASONRY	86.00	CUYD
0525	08001	STRUCTURE EXCAVATION-COMMON	204.00	CUYD
0530	08100	CONCRETE-CLASS A	176.00	CUYD
0535	08150	STEEL REINFORCEMENT	33,475.00	LB
0540	02568	MOBILIZATION	1.00	LS
0545	02569	DEMOBILIZATION	1.00	LS

CONTRACT ID: 151067

034GR15D067

DE03485341568

LEGACY TRAIL EXTENSION OF LEGACY TRAIL ALONG THE SOUTHERN AND WESTERN BOUNDARIES OF THE KY HORSE PARK FROM ITS CURRENT NORTHERN TERMINUS AT CAMPGROUND ROAD IN THE KY HORSE PARK. GRADE & DRAIN WITH ASPHALT SURFACE.

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0005	00001	DGA BASE	12,335.00	TON
0010	00223	CL3 ASPH BASE 0.75D PG64-22	4,690.00	TON
0015	00388	CL3 ASPH SURF 0.38B PG64-22 - (REVISED: 10-13-15)	1,760.00	TON
0020	00078	CRUSHED AGGREGATE SIZE NO 2	600.00	TON
0025	01000	PERFORATED PIPE-4 IN	100.00	LF
0030	01010	NON-PERFORATED PIPE-4 IN	60.00	LF
0035	01028	PERF PIPE HEADWALL TY 3-4 IN	6.00	EACH
0040	01052	SEWER PIPE-8 IN	1,268.00	LF
0045	01799	SANITARY SEWER MANHOLE	4.00	EACH
0050	01876	STANDARD HEADER CURB MOD	564.00	LF
0055	02159	TEMP DITCH	6,525.00	LF
0060	02160	CLEAN TEMP DITCH	3,264.00	LF
0065	02200	ROADWAY EXCAVATION	20,015.00	CUYD
0070	02242	WATER	5.00	MGAL
0075	02265	REMOVE FENCE	9,434.00	LF
0080	02483	CHANNEL LINING CLASS II	300.00	TON
0085	02545	CLEARING AND GRUBBING - 22.3 ACRES	1.00	LS
0090	02585	EDGE KEY	183.00	LF
0095	02599	FABRIC-GEOTEXTILE TYPE IV	2,000.00	SQYD
0100	02612	HANDRAIL-TYPE A-2	450.00	LF
0105	02650	MAINTAIN & CONTROL TRAFFIC	1.00	LS
0110	02701	TEMP SILT FENCE	6,525.00	LF
0115	02703	SILT TRAP TYPE A	20.00	EACH

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0120	02704	SILT TRAP TYPE B	20.00	EACH
0125	02705	SILT TRAP TYPE C	20.00	EACH
0130	02706	CLEAN SILT TRAP TYPE A	20.00	EACH
0135	02707	CLEAN SILT TRAP TYPE B	20.00	EACH
0140	02708	CLEAN SILT TRAP TYPE C	20.00	EACH
0145	02720	SIDEWALK-4 IN CONCRETE	658.00	SQYD
0150	02720	SIDEWALK-4 IN CONCRETE - WALK 2 IN WIDE BAND AT FLAGPOLES	20.00	SQYD
0155	02720	SIDEWALK-4 IN CONCRETE - WALK BIKE RACK PAD	5.00	SQYD
0160	02726	STAKING	1.00	LS
0165	03287	SIDEWALK RAMP TYPE 1	5.00	EACH
0170	03289	SIDEWALK RAMP TYPE 3	11.00	EACH
0175	03420	WATER LINE INSTALLATION	1,310.00	LF
0180	03496	VALVE-6 IN	1.00	EACH
0185	03551	TAPPING SLEEVE & VALVE	1.00	EACH
0190	04903	REFERENCE MARKER - TRAILHEAD MILE MARKER	2.00	EACH
0195	05950	EROSION CONTROL BLANKET	10,500.00	SQYD
0200	05952	TEMP MULCH	70,968.00	SQYD
0205	05953	TEMP SEEDING AND PROTECTION	53,764.00	SQYD
0210	05963	INITIAL FERTILIZER	1.20	TON
0215	05964	20-10-10 FERTILIZER	5.50	TON
0220	05985	SEEDING AND PROTECTION	105,527.00	SQYD
0225	05989	SPECIAL SEEDING CROWN VETCH	2,000.00	SQYD
0230	05990	SODDING	7,115.00	SQYD
0235	06407	SBM ALUM SHEET SIGNS .125 IN	255.75	SQFT
0240	06410	STEEL POST TYPE 1	936.00	LF
0245	06514	PAVE STRIPING-PERM PAINT-4 IN	24,276.00	LF
0250	06566	PAVE MARKING-THERMO X-WALK-12 IN	1,008.00	LF
0255	06567	PAVE MARKING-THERMO STOP BAR-12IN	124.00	LF
0260	06570	PAVE MARKING-PAINT CROSS-HATCH	40.00	SQFT
0265	10020NS	FUEL ADJUSTMENT	17,939.00	DOLL
0270	10030NS	ASPHALT ADJUSTMENT	25,217.00	DOLL
0275	20081NN	CONNECT TO WATER MAIN	1.00	EACH
0280	20156EC	FIRE HYDRANT ASSEMBLY	1.00	EACH
0285	20206EC	PAVE MARK HANDICAP SYMBOL	2.00	EACH
0290	20782NS714	PAVE MARKING THERMO-BIKE	6.00	EACH
0295	21341ND	BOLLARDS	12.00	EACH
0300	22000ED	WOOD PLANK FENCE - 4 BOARD FENCE	16,236.00	LF
0305	22139NN	CONNECT TO SEWER MAIN - IN	1.00	EACH
0310	22995EN	SANITARY SEWER SERVICE CONNECTION- 4 IN	265.00	LF
0315	23158ES505	DETECTABLE WARNINGS	488.00	SQFT
0320	23274EN11F	TURF REINFORCEMENT MAT 1	15,500.00	SQYD
0325	23758EC	ELECTRICAL SERVICE CONNECTION	2.00	EACH
0330	23802EC	PRECAST VEHICLE STOP	20.00	EACH
0335	30017	STONE PYLON - 12 FT TALL	1.00	EACH
0340	30020	BIKE RACK - FORMS AND SURFACES	1.00	EACH
0345	30064	MANUFACTURED RESTROOM BUILDING	2.00	EACH
0350	30083	FLAGPOLE - 30 FT	6.00	EACH
0355	30084	BANNER	6.00	EACH
0360	30085	DRY LAID ROCK SEATWALL	71.00	LF

MATERIAL SUMMARY

Project Line No	Bid Code	DESCRIPTION	Quantity	Unit
0365	40000	SITE PREPARATION - LANDSCAPING AND TRAILHEAD AMMENITIES	1.00	LS
0370	00441	ENTRANCE PIPE-18 IN	41.00	LF
0375	00461	CULVERT PIPE-15 IN	113.00	LF
0380	00464	CULVERT PIPE-24 IN	80.00	LF
0385	00466	CULVERT PIPE-30 IN	375.00	LF
0390	00469	CULVERT PIPE-42 IN	65.00	LF
0395	01202	PIPE CULVERT HEADWALL-15 IN	8.00	EACH
0400	01208	PIPE CULVERT HEADWALL-24 IN	4.00	EACH
0405	01210	PIPE CULVERT HEADWALL-30 IN	10.00	EACH
0410	01214	PIPE CULVERT HEADWALL-42 IN	2.00	EACH
0415	01529	DROP BOX INLET TYPE 6D	1.00	EACH
0420	22767ES710	DROP BOX INLET TY 6E	1.00	EACH
0425	20014ES724	EASTERN REDBUD	7.00	EACH
0430	20065ES724	SHUMARD OAK	4.00	EACH
0435	20512NS724	RED MAPLE	4.00	EACH
0440	20516NS724	TULIP POPLAR	5.00	EACH
0445	20566NS724	FLOWERING DOGWOOD	6.00	EACH
0450	22694NS724	SHADEMASTER HONEYLOCUST	5.00	EACH
0455	23646EC	CONTAINER PLANTS - KNOCKOUT ROSES-3 GAL	26.00	EACH
0460	24558ED	ORNAMENTAL GRASS - 3 GAL	57.00	EACH
0465	02568	MOBILIZATION	1.00	LS
0470	02569	DEMOBILIZATION	1.00	LS

PROPOSAL BID ITEMS

REVISED ADDENDUM #1: 10-13-15

151067

Page 1 of 5

Report Date 10/13/15

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00001		DGA BASE	14,420.00	TON		\$	
0020	00221		CL2 ASPH BASE 0.75D PG64-22	91.00	TON		\$	
0030	00223		CL3 ASPH BASE 0.75D PG64-22	5,918.00	TON		\$	
0040	00301		CL2 ASPH SURF 0.38D PG64-22	33.00	TON		\$	
0050	00388		CL3 ASPH SURF 0.38B PG64-22 (REVISED: 10-13-15)	3,670.00	TON		\$	
0060	24446EC		ASPHALT PAVING PERVIOUS PAVEMENTS	21,444.00	TON		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0070	00071		CRUSHED AGGREGATE SIZE NO 57	2,174.00	TON		\$	
0080	00078		CRUSHED AGGREGATE SIZE NO 2	64,592.00	TON		\$	
0090	00083		CRUSHED AGGREGATE SIZE NO 8	9,663.00	TON		\$	
0100	01000		PERFORATED PIPE-4 IN	100.00	LF		\$	
0110	01001		PERFORATED PIPE-6 IN	1,218.00	LF		\$	
0120	01010		NON-PERFORATED PIPE-4 IN	60.00	LF		\$	
0130	01012		NON-PERFORATED PIPE-8 IN	938.00	LF		\$	
0140	01013		NON-PERFORATED PIPE-10 IN	62.00	LF		\$	
0150	01022		PERF PIPE HEADWALL TY 1-8 IN	41.00	EACH		\$	
0160	01028		PERF PIPE HEADWALL TY 3-4 IN	6.00	EACH		\$	
0170	01052		SEWER PIPE-8 IN	1,268.00	LF		\$	
0180	01310		REMOVE PIPE	311.00	LF		\$	
0190	01456		CURB BOX INLET TYPE A	3.00	EACH		\$	
0200	01496		DROP BOX INLET TYPE 3	1.00	EACH		\$	
0210	01541		DROP BOX INLET TYPE 10	3.00	EACH		\$	
0220	01643		JUNCTION BOX-24 IN	1.00	EACH		\$	
0230	01799		SANITARY SEWER MANHOLE	4.00	EACH		\$	
0240	01811		STANDARD CURB AND GUTTER MOD	9,000.00	LF		\$	
0250	01876		STANDARD HEADER CURB MOD	619.00	LF		\$	
0260	01891		ISLAND HEADER CURB TYPE 2	410.00	LF		\$	
0270	01895		VALLEY GUTTER	70.00	LF		\$	
0280	01982		DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	3.00	EACH		\$	
0290	02003		RELOCATE TEMP CONC BARRIER	1,130.00	LF		\$	
0300	02006		REMOVE CONCRETE MEDIAN	106.00	LF		\$	
0310	02091		REMOVE PAVEMENT	264.00	SQYD		\$	
0320	02159		TEMP DITCH	11,275.00	LF		\$	
0330	02160		CLEAN TEMP DITCH	5,639.00	LF		\$	
0340	02200		ROADWAY EXCAVATION	65,513.00	CUYD		\$	
0350	02237		DITCHING	1,500.00	LF		\$	
0360	02242		WATER	8.70	MGAL		\$	
0370	02265		REMOVE FENCE	9,797.00	LF		\$	
0380	02351		GUARDRAIL-STEEL W BEAM-S FACE	228.00	LF		\$	
0390	02359		GUARDRAIL CONNECTOR TO CONC MED BARR	2.00	EACH		\$	

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0400	02367		GUARDRAIL END TREATMENT TYPE 1	1.00	EACH		\$	
0410	02369		GUARDRAIL END TREATMENT TYPE 2A	1.00	EACH		\$	
0420	02381		REMOVE GUARDRAIL	410.00	LF		\$	
0430	02483		CHANNEL LINING CLASS II	372.00	TON		\$	
0440	02545		CLEARING AND GRUBBING 22.3 ACRES	1.00	LS		\$	
0450	02545		CLEARING AND GRUBBING 29.8 ACRES	1.00	LS		\$	
0460	02585		EDGE KEY	1,880.00	LF		\$	
0470	02599		FABRIC-GEOTEXTILE TYPE IV	91,306.00	SQYD		\$	
0480	02612		HANDRAIL-TYPE A-2	450.00	LF		\$	
0490	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0500	02701		TEMP SILT FENCE	11,275.00	LF		\$	
0510	02703		SILT TRAP TYPE A	46.00	EACH		\$	
0520	02704		SILT TRAP TYPE B	46.00	EACH		\$	
0530	02705		SILT TRAP TYPE C	46.00	EACH		\$	
0540	02706		CLEAN SILT TRAP TYPE A	46.00	EACH		\$	
0550	02707		CLEAN SILT TRAP TYPE B	46.00	EACH		\$	
0560	02708		CLEAN SILT TRAP TYPE C	46.00	EACH		\$	
0570	02720		SIDEWALK-4 IN CONCRETE	738.00	SQYD		\$	
0580	02720		SIDEWALK-4 IN CONCRETE WALK 2 IN WIDE BAND AT FLAGPOLES	20.00	SQYD		\$	
0590	02720		SIDEWALK-4 IN CONCRETE WALK BIKE RACK PAD	5.00	SQYD		\$	
0600	02726		STAKING	1.00	LS		\$	
0610	02898		RELOCATE CRASH CUSHION	2.00	EACH		\$	
0620	02900		INSTALL TEMP CRASH CUSHION	2.00	EACH		\$	
0630	03171		CONCRETE BARRIER WALL TYPE 9T	1,130.00	LF		\$	
0640	03287		SIDEWALK RAMP TYPE 1	5.00	EACH		\$	
0650	03289		SIDEWALK RAMP TYPE 3	13.00	EACH		\$	
0660	03420		WATER LINE INSTALLATION	1,310.00	LF		\$	
0670	03425		ADJUST WATER VALVE	1.00	EACH		\$	
0680	03436		REMOVE-REINSTALL FIRE HYDRANT	1.00	EACH		\$	
0690	03496		VALVE-6 IN	1.00	EACH		\$	
0700	03551		TAPPING SLEEVE & VALVE	1.00	EACH		\$	
0710	04903		REFERENCE MARKER TRAILHEAD MILE MARKER	2.00	EACH		\$	
0720	05950		EROSION CONTROL BLANKET	25,500.00	SQYD		\$	
0730	05952		TEMP MULCH	159,636.00	SQYD		\$	
0740	05953		TEMP SEEDING AND PROTECTION	120,936.00	SQYD		\$	
0750	05963		INITIAL FERTILIZER	2.80	TON		\$	
0760	05964		20-10-10 FERTILIZER	12.50	TON		\$	
0770	05985		SEEDING AND PROTECTION	239,870.00	SQYD		\$	
0780	05989		SPECIAL SEEDING CROWN VETCH	2,000.00	SQYD		\$	
0790	05990		SODDING	7,865.00	SQYD		\$	
0800	06407		SBM ALUM SHEET SIGNS .125 IN	262.00	SQFT		\$	
0810	06410		STEEL POST TYPE 1	948.00	LF		\$	
0820	06510		PAVE STRIPING-TEMP PAINT-4 IN	500.00	LF		\$	
0830	06514		PAVE STRIPING-PERM PAINT-4 IN	51,542.00	LF		\$	
0840	06566		PAVE MARKING-THERMO X-WALK-12 IN	1,214.00	LF		\$	
0850	06567		PAVE MARKING-THERMO STOP BAR-12IN	152.00	LF		\$	

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0860	06570		PAVE MARKING-PAINT CROSS-HATCH	40.00	SQFT		\$	
0870	06574		PAVE MARKING-THERMO CURV ARROW	11.00	EACH		\$	
0880	08018		RETAINING WALL	3,806.00	SQFT		\$	
0890	08100		CONCRETE-CLASS A	65.00	CUYD		\$	
0900	10020NS		FUEL ADJUSTMENT	29,131.00	DOLL	\$1.00	\$	\$29,131.00
0910	10030NS		ASPHALT ADJUSTMENT	31,680.00	DOLL	\$1.00	\$	\$31,680.00
0920	15092		S MANHOLE	2.00	EACH		\$	
0930	20081NN		CONNECT TO WATER MAIN	1.00	EACH		\$	
0940	20156EC		FIRE HYDRANT ASSEMBLY	1.00	EACH		\$	
0950	20206EC		PAVE MARK HANDICAP SYMBOL	2.00	EACH		\$	
0960	20418ED		REMOVE & RELOCATE SIGNS	3.00	EACH		\$	
0970	20782NS714		PAVE MARKING THERMO-BIKE	6.00	EACH		\$	
0980	20985ND		CLEANOUT PIPE	2.00	EACH		\$	
0990	21289ED		LONGITUDINAL EDGE KEY	1,985.00	LF		\$	
1000	21341ND		BOLLARDS	12.00	EACH		\$	
1010	22000ED		WOOD PLANK FENCE 4 BOARD FENCE	16,236.00	LF		\$	
1020	22000ED		WOOD PLANK FENCE 2 BOARD FENCE	1,386.00	LF		\$	
1030	22139NN		CONNECT TO SEWER MAIN IN	1.00	EACH		\$	
1040	22995EN		SANITARY SEWER SERVICE CONNECTION- 4 IN	265.00	LF		\$	
1050	23086EN		CONCRETE MEDIAN BARRIER TY 9C	300.00	LF		\$	
1060	23158ES505		DETECTABLE WARNINGS	520.00	SQFT		\$	
1070	23274EN11F		TURF REINFORCEMENT MAT 1	15,500.00	SQYD		\$	
1080	23758EC		ELECTRICAL SERVICE CONNECTION	2.00	EACH		\$	
1090	23802EC		PRECAST VEHICLE STOP	20.00	EACH		\$	
1100	23836EC		RELOCATE LIGHT POLE	2.00	EACH		\$	
1110	23837EC		RELOCATE UNDERGROUND ELECTRIC	310.00	LF		\$	
1120	30017		STONE PYLON 12 FT TALL	1.00	EACH		\$	
1130	30020		BIKE RACK FORMS AND SURFACES	1.00	EACH		\$	
1140	30050		SPEED HUMP 11 LOCATIONS	1.00	LS		\$	
1150	30062		REMOVE STEEL PIPE BOLLARD REMOVE BOLLARDS	4.00	EACH		\$	
1160	30064		MANUFACTURED RESTROOM BUILDING	2.00	EACH		\$	
1170	30083		FLAGPOLE - 30 FT	6.00	EACH		\$	
1180	30084		BANNER	6.00	EACH		\$	
1190	30085		DRY LAID ROCK SEATWALL	71.00	LF		\$	
1200	40000		SITE PREPARATION LANDSCAPING AND TRAILHEAD AMMENITIES	1.00	LS		\$	

Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1210	00441		ENTRANCE PIPE-18 IN	41.00	LF		\$	

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1220	00460		CULVERT PIPE-12 IN	369.00	LF		\$	
1230	00461		CULVERT PIPE-15 IN	208.00	LF		\$	
1240	00462		CULVERT PIPE-18 IN	915.00	LF		\$	
1250	00464		CULVERT PIPE-24 IN	753.00	LF		\$	
1260	00466		CULVERT PIPE-30 IN	1,060.00	LF		\$	
1270	00469		CULVERT PIPE-42 IN	65.00	LF		\$	
1280	01200		PIPE CULVERT HEADWALL-12 IN	1.00	EACH		\$	
1290	01202		PIPE CULVERT HEADWALL-15 IN	8.00	EACH		\$	
1300	01202		PIPE CULVERT HEADWALL-15 IN	2.00	EACH		\$	
1310	01204		PIPE CULVERT HEADWALL-18 IN	7.00	EACH		\$	
1320	01208		PIPE CULVERT HEADWALL-24 IN	4.00	EACH		\$	
1330	01208		PIPE CULVERT HEADWALL-24 IN	2.00	EACH		\$	
1340	01210		PIPE CULVERT HEADWALL-30 IN	10.00	EACH		\$	
1350	01210		PIPE CULVERT HEADWALL-30 IN	4.00	EACH		\$	
1360	01214		PIPE CULVERT HEADWALL-42 IN	2.00	EACH		\$	
1370	01456		CURB BOX INLET TYPE A	3.00	EACH		\$	
1380	01480		CURB BOX INLET TYPE B	3.00	EACH		\$	
1390	01496		DROP BOX INLET TYPE 3	2.00	EACH		\$	
1400	01529		DROP BOX INLET TYPE 6D	1.00	EACH		\$	
1410	01541		DROP BOX INLET TYPE 10	3.00	EACH		\$	
1420	01621		CONC MED BARR BOX INLET TY 9B1	1.00	EACH		\$	
1430	01643		JUNCTION BOX-24 IN	1.00	EACH		\$	
1440	01756		MANHOLE TYPE A	1.00	EACH		\$	
1450	22767ES710		DROP BOX INLET TY 6E	1.00	EACH		\$	

Section: 0004 - BRIDGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1460	02403		REMOVE CONCRETE MASONRY	86.00	CUYD		\$	
1470	08001		STRUCTURE EXCAVATION-COMMON	204.00	CUYD		\$	
1480	08100		CONCRETE-CLASS A	176.00	CUYD		\$	
1490	08150		STEEL REINFORCEMENT	33,475.00	LB		\$	

Section: 0005 - LANDSCAPING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1500	20014ES724		EASTERN REDBUD	7.00	EACH		\$	
1510	20065ES724		SHUMARD OAK	4.00	EACH		\$	
1520	20512NS724		RED MAPLE	4.00	EACH		\$	
1530	20516NS724		TULIP POPLAR	5.00	EACH		\$	
1540	20566NS724		FLOWERING DOGWOOD	6.00	EACH		\$	
1550	22694NS724		SHADEMASTER HONEYLOCUST	5.00	EACH		\$	
1560	23646EC		CONTAINER PLANTS KNOCKOUT ROSES-3 GAL	26.00	EACH		\$	
1570	24558ED		ORNAMENTAL GRASS 3 GAL	57.00	EACH		\$	

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Section: 0006 - DEMOBILIZATION &/OR MOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1580	02568		MOBILIZATION	1.00	LS		\$	
1590	02569		DEMOBILIZATION	1.00	LS		\$	

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SECTION 044300 – ROCK SEAT WALLS DRYSTONE MASONRY

PART 1 - GENERAL

1.1 DESCRIPTION

- A. This work shall consist of providing materials and installing dry laid rock seat walls that consist of concrete footings and dry laid stone masonry.

1.2 MATERIALS

- A. Provide native limestone quarried in Fayette, Jessamine, Bourbon, Woodford, Clark or Madison Counties, Kentucky. This native limestone has been selected for historical and cultural purposes and is necessary to match the existing trailheads located along the Legacy Trail.
- B. Include test data including compliance with physical properties required by referenced ASTM standards.
- C. Provide five samples for each stone type indicated, exhibiting extremes of the full range of color and other visual characteristics expected in completed rock seat walls. Samples will establish the standard by which stone provided will be judged.
- D. Obtain stone from one quarry with resources to provide materials of consistent quality in appearance and physical properties.
- E. Refer to KYTC standard specifications for Cement and Concrete Pavement for rock seat wall concrete footings indicated in plans and details.
- F. Cut and select stone for rock seat walls to comply with sizes, shapes and tolerances recommended by the Dry Stone Conservancy, Lexington, Kentucky.
- G. Carefully select stone at quarry or fabrication plant for compliance with requirements for appearance, material and fabrication. Replace defective units prior to shipment.
- H. Shape stone for split bed, random-range ashlar with random course heights and random lengths (interrupted coursed).

1.3 CONSTRUCTION

- A. Rock seat wall installer shall be qualified and employ stone masons and stone fitters experienced in construction of dry laid rock fences.
- B. Provide five samples for each stone type indicated, exhibiting extremes of the full range of color and other visual characteristics expected in completed rock seat walls. Samples will establish the standard by which stone provided will be judged.

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- C. Build mock up of rock seat wall 6 feet long to demonstrate aesthetic effects and set quality standards for materials and execution. Mock ups shall include foundation stones, and cap stone. Approved mock ups may become part of completed work if undisturbed at time of substantial completion.
- D. Advise installers of incidental items and other work about specific requirements for placement of reinforcement and similar items to be built into rock seat walls.
- E. Examine subgrades and surfaces indicated to receive rock seat walls with installer present for compliance with requirements for installation and other conditions affecting performance.
- F. Perform necessary field cutting and trimming as stone is set. Use hammer and chisel to split stone that is fabricated with split surfaces. Make edges straight and true, matching similar surfaces that were shop or quarry fabricated.
- G. Sort stone before it is placed in wall to remove stone that does not comply with requirements relating to aesthetic effects, physical properties, or fabrication, or that is otherwise unsuitable for intended use and as indicated below:
 - 1. Foundation Stones: Large, flat rocks minimum of 6 inches.
 - 2. Wall and Face stones: Medium size rock used to build up outer face of rock seat wall.
 - 3. Tie Stones: 24 inches to 26 inches long.
 - 4. Cover Stones: 16 inches to 18 inches long.
 - 5. Coping Stones: flat rocks, 2 inches to 4 inches thick and 9 inches to 12 inches long.
 - 6. Packing Stones: Small and irregular rocks used to pack core of wall.
- H. Excavate rock seat wall and foundation to a depth of 4 inches to 6 inches deep by 36 inches wide until reaching firm subsoil. For slopes exceeding 15 degrees step foundation at bottom to place foundation rocks horizontally.
- I. Level excavation bottom and compact subgrade. Fill void spaces in excavation bottom with waste rock and soil compact.
- J. Drive pegs 34 inches apart on each side of wall and at 10 feet on center. Provide string line at top of foundation rock and 3 to 5 inches above bottom of excavation.
- K. Install foundation rocks flush with string line. Place rocks so longest width is in center of wall. Place a minimum of two thirds of foundation rock below wall.
- L. Select foundation rocks with edges that match adjacent rock edges for tight fit and with flat tops.
- M. Hand excavate and compact subgrade as required to securely bed foundation rocks. Place small wedge shaped rocks with packing rocks to top of foundation rocks.
- N. Arrange stones in uncoursed rubble pattern with joint widths indicated. Insert small stones into spaces between larger stones as needed to produce joints as uniform in width as practical.
- O. Set up batter frames to lay up lower courses or rock fence. Set up frames level and approximately 20 feet on center with a batter as indicated and 26 inches wide at the base. Drive short sections of steel reinforcement in bottom of excavation to secure batter frames. Slant steel reinforcement at angle to match batter on wall face.

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- P. Provide a string line approximately 5 to 6 inches above foundation stone on both sides of batter frame to lay first course of facing rocks. Move string line up 5 to 6 inches for each succeeding rock course.
- Q. Break vertical joints at each rock course. Longer rocks can extend over three rocks on lower courses. Whenever possible utilize longer rocks on lower courses of wall.
- R. Do not 'chink' or 'front pin' dry laid rock seat walls.
- S. Pack wall core with packing rocks as each course is laid up. Place long stones all opposite sides of short stones at front and back of wall.
- T. Anchor rock seat wall stone masonry to concrete with steel reinforcement as indicated.
- U. Place tie rocks that extend from front to back of rock seat walls and are approximately 4 to 6 inches longer than the wall width, with equal projection at the front and back of the wall. Place tie rocks at the midpoint of the wall vertically and at approximately 16 inches on center. Pin tie rocks securely in place with packing rocks. Break face rock courses at tie rocks.
- V. Manually walk in the rock seat wall at the top course of the face rocks prior to placement of the cap or coping stones.
- W. Provide cover rocks with 2 inches of projection on each side of wall after filling wall voids with packing rock.
- X. Stack excess stone where directed by Owner for Owner's use.

1.4 MEASUREMENT AND PAYMENT

- A. Rock seat walls shall be measured and paid for per linear foot, installed complete including quarrying, fabricating and providing material. Payment shall include furnishing and complete installation of concrete, excavation, backfill, dry laid masonry, steel reinforcing and accessories as shown on the plans and details. Payment will be made under:
 - 1. Rock Seat Wall, Installed complete, .LINEAR FOOT...