



Preliminary Line & Grade Mountain Parkway Widening

Item No. 10-168.00

KY 191 Overpass Bridge to KY 205 Interchange

Wolfe County, Kentucky

Kentucky Transportation Cabinet

November
2014





Table of Contents

Preliminary Report 01

Typical Sections 02

Construction Cost Estimates 03

Utility Estimates 04

Right-of-Way Summaries 05

Maintenance of Traffic 06



01 Preliminary Report



Preliminary Report

Existing Conditions

The project corridor begins just west of the KY 191 over-pass bridge running between mile point 46.2 for approximately 11 miles to mile point 57.2 just west of the KY 205 interchange. The Mountain Parkway corridor serves as a vital arterial for the Appalachian area of Kentucky, providing connectivity from Central Kentucky via I-64 to surrounding regions of eastern Kentucky and Virginia via US 23. Designed and constructed in the 1960's, the parkway has served eastern Kentucky residents and local industries for roughly 50 years.

This section of the parkway has a number of geometric deficiencies, does not meet current design standards, and has a projected increase in future traffic demands – all of which factor in the need for improvements to better serve the region and those who travel this route.

Additionally the Mountain Parkway is being widened and expanded from Campton to Prestonsburg in multiple design and construction sections. This project is section 4.

Proposed Improvements

The project team met on August 7, 2014 for an Alternate Alignment Review meeting. Presented at that meeting were two distinct parkway widening alternates, one widening to the north and one widening to the south. Additionally a third alternate was presented that blended both the north and south alternates.

Each alternate proposed improvements to include widening the parkway from the existing 2 lane roadway to a 4 lane divided roadway with a 40 foot median (28 foot grass), with improvements to interchanges at KY 191 and KY 1010 that maintain or provide full access to the parkway. Additional interchanges were studied for KY 2491, KY 1812 and KY 1419 and were presented at the alignment review meeting.

Each widening alternate included proposed new twin bridges for the parkway at the KY 191 interchange, KY 2491, KY 1812, and KY 1419. A new overpass bridge is proposed for the KY 1010 interchange. An existing "wagon box" at KY 3034 is also being considered for replacement with a new twin bridge.

The design team decided at the alignment review meeting that interchanges at KY 191 and KY 1010 are to remain. The team eliminated from further study new interchanges at KY 2491, KY 1812 and KY 1419 since there are no current interchanges at these locations.

A public meeting was held on September 23, 2014 in Campton, Kentucky. Alternates 1 and 2 were presented with interchanges at KY 191 and KY 1010. Most people attending the public meeting support widening the Parkway.

Preliminary Line & Grade Inspection

Presented for this inspection are preliminary plans of the Mountain Parkway Widening (Alternates 1 and 2), with diamond interchanges at KY 191 and KY 1010. Typical sections, construction cost estimates, utility estimates, right of way summaries and maintenance of traffic descriptions are included in this report. A summary of costs is provided for alternates comparison.

	ALTERNATE 1	ALTERNATE 2
Construction Cost ³	\$98,000,000	\$110,540,000
Utility Cost	\$1,100,000	\$723,800
Right of Way Cost ^{1,3}	\$3,890,000	\$2,370,000
Stream Impacts Cost ²	\$8,042,000	\$4,500,000
TOTAL COST	\$111,032,000	\$118,133,800

¹ Based on \$150,000 for each residential relocation, \$50,000 for each barn, \$5,000 per acre acquired, and 20% miscellaneous for contingencies.

² From Preliminary Stream Impact Summary Memo by Third Rock Consultants dated 10/03/2014.

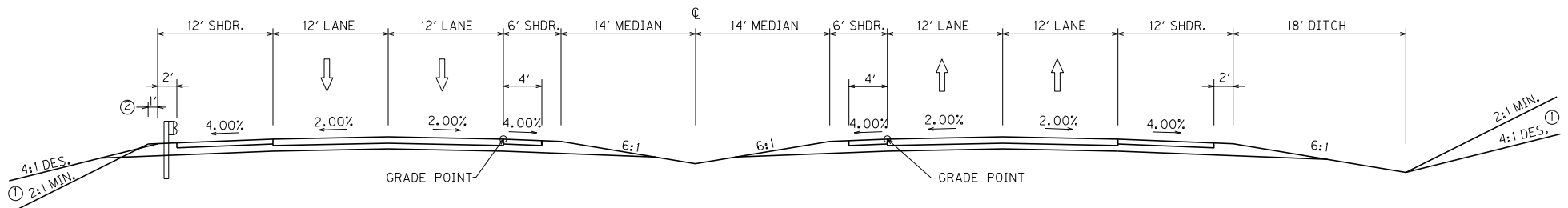
³ Construction and Right of Way costs updated after PL&G meeting with the revised KY 1010 interchange for Alternate 2. Alternate 1 interchange at KY 1010 was not revised for this estimate.



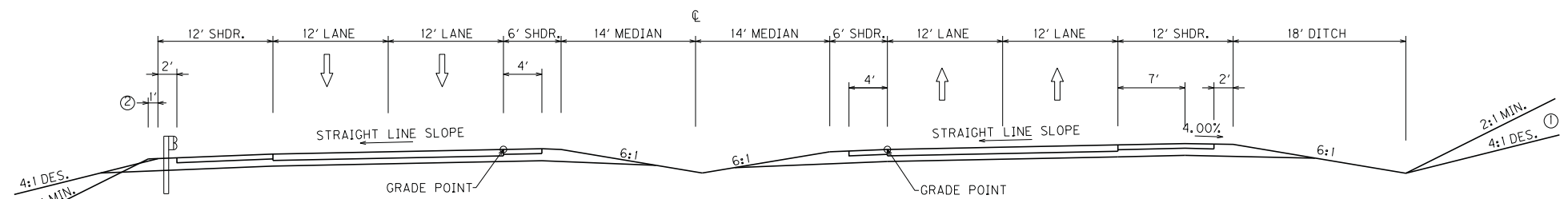
02 Typical Sections

TYPICAL SECTIONS

MOUNTAIN PARKWAY



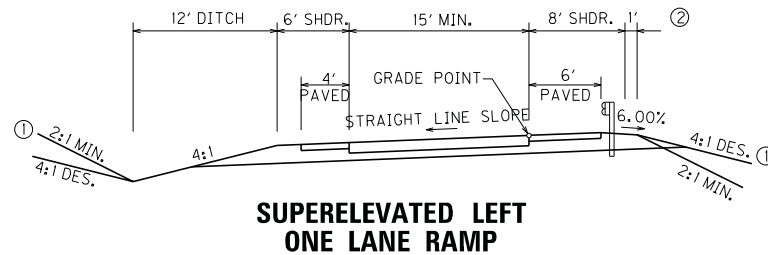
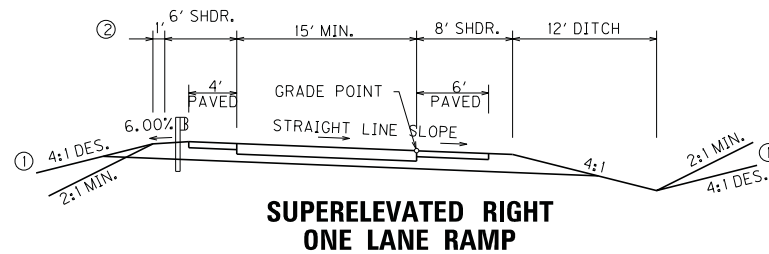
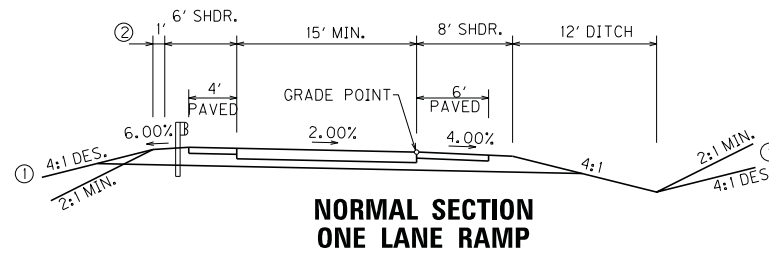
NORMAL SECTION



SUPERELEVATED SECTION

- ① SEE CROSS SECTIONS FOR SLOPES OUTSIDE THE LIMITS OF THE SHOULDER.
- ② SHOULDERS SHALL BE WIDENED 1 FOOT WHERE GUARDRAIL IS TO BE INSTALLED.

TYPICAL SECTIONS

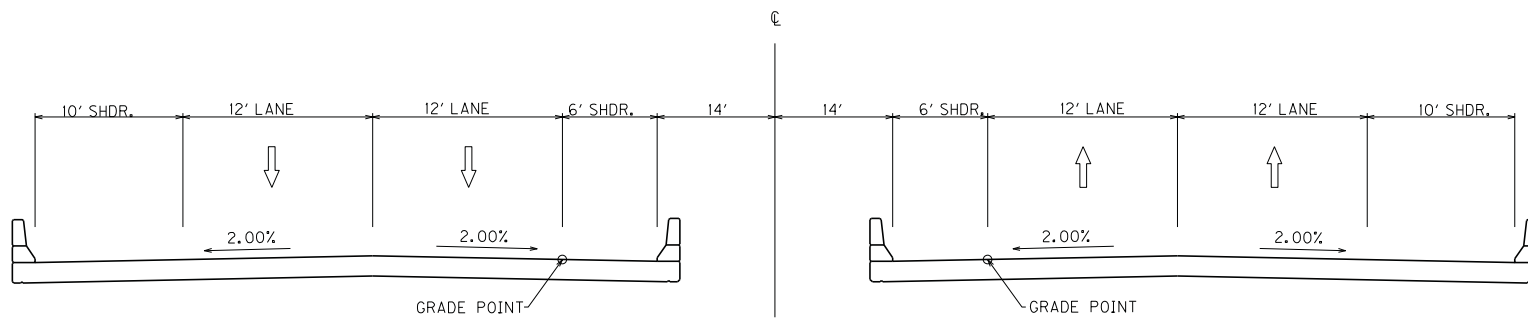


① SEE CROSS SECTIONS FOR SLOPES OUTSIDE THE LIMITS OF THE SHOULDER.

② SHOULDERS SHALL BE WIDENED 1 FOOT WHERE GUARDRAIL IS TO BE INSTALLED.

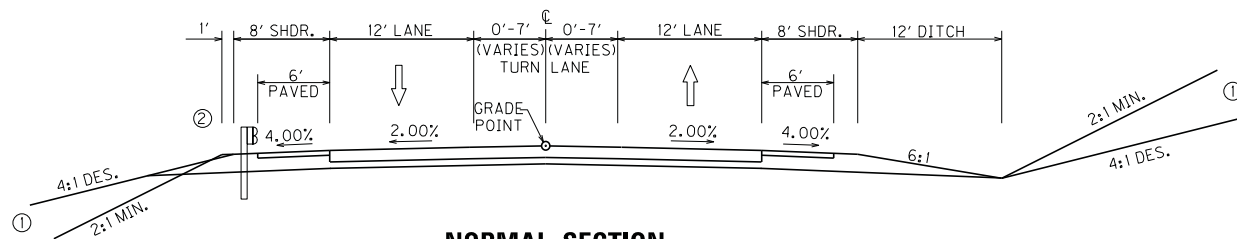
TYPICAL SECTIONS

MOUNTAIN PARKWAY

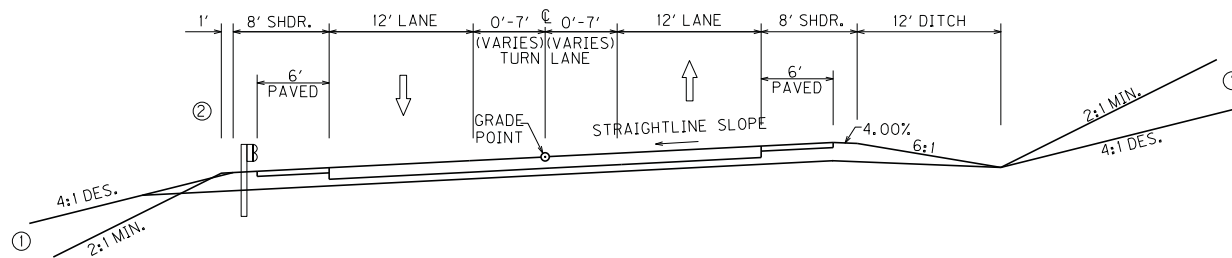


**NORMAL SECTION
TWIN BRIDGE**

TYPICAL SECTIONS



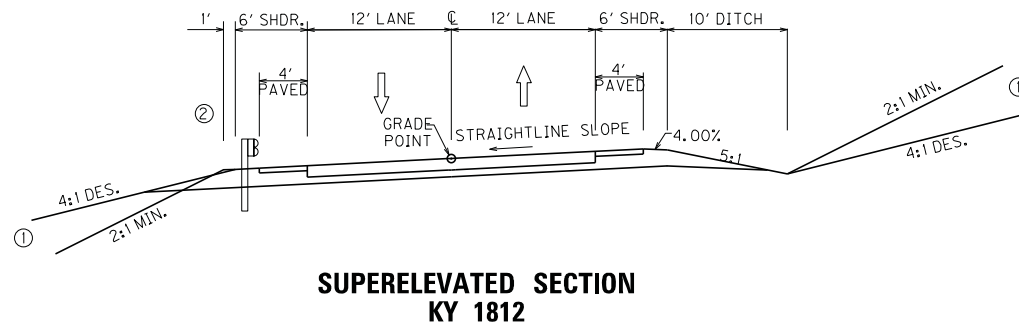
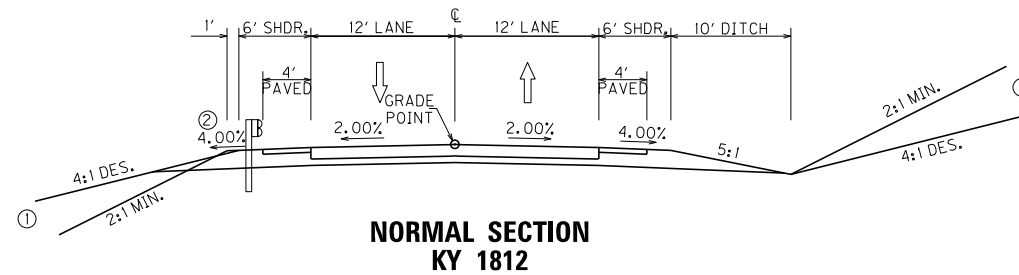
**NORMAL SECTION
KY 191**



**SUPERELEVATED SECTION
KY 191**

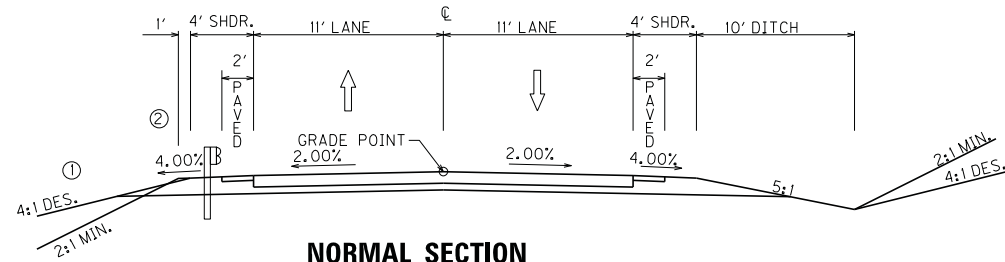
- ① SEE CROSS SECTIONS FOR SLOPES OUTSIDE THE LIMITS OF THE SHOULDER.
- ② SHOULDERS SHALL BE WIDENED 1 FOOT WHERE GUARDRAIL IS TO BE INSTALLED.

TYPICAL SECTIONS

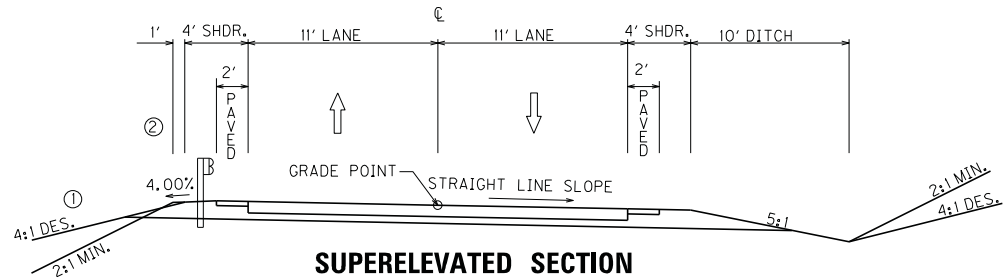


- ① SEE CROSS SECTIONS FOR SLOPES OUTSIDE THE LIMITS OF THE SHOULDER.
- ② SHOULDERS SHALL BE WIDENED 1 FOOT WHERE GUARDRAIL IS TO BE INSTALLED.

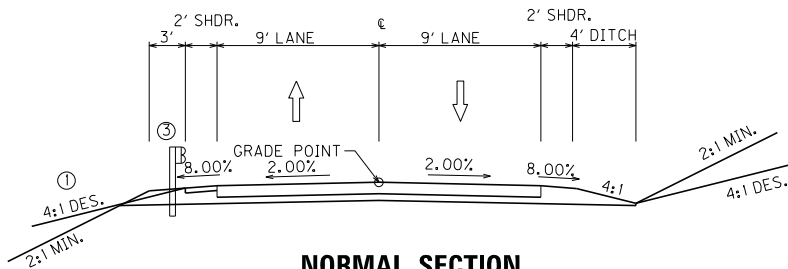
TYPICAL SECTIONS



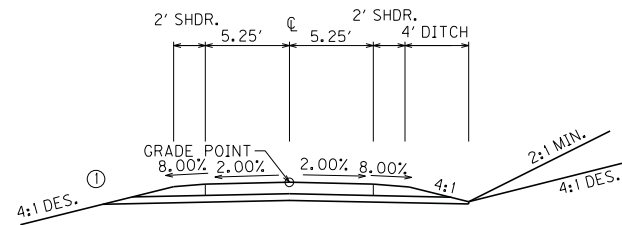
NORMAL SECTION
KY 1010, KY 1419, KY 2491,
LACY CREEK-GILMORE



SUPERELEVATED SECTION
KY 1010, KY 1419, KY 2491,
LACY CREEK-GILMORE



NORMAL SECTION
BEDWELL ROAD
KY 3033 (LANDSAW ROAD)



NORMAL SECTION
CR 3035

- ① SEE CROSS SECTIONS FOR SLOPES OUTSIDE THE LIMITS OF THE SHOULDER.
- ② SHOULDERS SHALL BE WIDENED 1 FOOT WHERE GUARDRAIL IS TO BE INSTALLED.
- ③ SHOULDERS SHALL BE WIDENED 3' WHERE GUARDRAIL IS TO BE INSTALLED AND SHOULDER SHALL BE PAVED TO FACE OF GUARDRAIL.



03 Construction Cost Estimates

Estimate 10-168.00

Estimated Cost:\$89,089,983.72

Contingency: 10.00%

Estimated Total: \$97,998,982.09

MOUNTAIN PARKWAY ALTERNATE 1

Base Date: 11/21/14

Spec Year: 08

Unit System: E

Work Type: GRADE & DRAIN WITH ASPHALT SURFACE

Highway Type: STATE

Urban/Rural Type: RURAL

Season: SPRING

County: WOLFE

Latitude of Midpoint: 344432

Longitude of Midpoint: -832827

District: 10

Federal/State Project Number: FD52 1550 C119 E143

STP 0061(048)

Estimate: 10-168.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
Group 0001: PAVING					
0066	00388	43,500.00	TON	\$80.00	\$3,480,000.00
CL3 ASPH SURF 0.38B PG64-22					
0067	00214	246,000.00	TON	\$70.00	\$17,220,000.00
CL3 ASPH BASE 1.00D PG64-22					
0068	00003	157,000.00	TON	\$26.50	\$4,160,500.00
CRUSHED STONE BASE					
0069	00190	11,000.00	TON	\$82.75	\$910,250.00
LEVELING & WEDGING PG64-22					
Total for Group 0001:\$25,770,750.00					
Group 0002: ROADWAY					
0005	02200	4,235,000.00	CUYD	\$5.00	\$21,175,000.00
ROADWAY EXCAVATION					
0006	02351	61,500.00	LF	\$12.83	\$789,045.00
GUARDRAIL-STEEL W BEAM-S FACE					
0007	02352	1,500.00	LF	\$23.48	\$35,220.00
GUARDRAIL-STEEL W BEAM-D FACE					
0008	02360	2.00	EACH	\$42.46	\$84.92
GUARDRAIL TERMINAL SECTION NO 1					
0009	02363	24.00	EACH	\$2,447.17	\$58,732.08
GUARDRAIL CONNECTOR TO BRIDGE END TY A					
0011	02367	70.00	EACH	\$2,004.54	\$140,317.80
GUARDRAIL END TREATMENT TYPE 1					
0012	02369	20.00	EACH	\$585.15	\$11,703.00
GUARDRAIL END TREATMENT TYPE 2A					
0013	02387	20.00	EACH	\$317.03	\$6,340.60
GUARDRAIL CONNECTOR TO BRIDGE END TY A-1					
0014	02391	5.00	EACH	\$1,923.76	\$9,618.80
GUARDRAIL END TREATMENT TYPE 4A					
0015	02545	1.00	LS	\$600,000.00	\$600,000.00
CLEARING AND GRUBBING					
Approximately 382 Acres					
0016	02650	1.00	LS	\$900,000.00	\$900,000.00
MAINTAIN & CONTROL TRAFFIC					

Estimate: 10-168.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
0017	21415ND EROSION CONTROL	1.00	LS	\$1,039,000.00	\$1,039,000.00
0018	02726 STAKING	1.00	LS	\$880,000.00	\$880,000.00
0019	02731 REMOVE STRUCTURE Exist. KY 191 Bridge	1.00	LS	\$100,000.00	\$100,000.00
0020	02731 REMOVE STRUCTURE Exist. KY 2491 Bridge	1.00	LS	\$80,000.00	\$80,000.00
0021	02731 REMOVE STRUCTURE Exist. KY 1812 Bridge	1.00	LS	\$90,000.00	\$90,000.00
0022	02731 REMOVE STRUCTURE Exist. KY 3034 Wagon Box	1.00	LS	\$15,000.00	\$15,000.00
0023	02731 REMOVE STRUCTURE Exist. KY 1010 Bridge	1.00	LS	\$100,000.00	\$100,000.00
0024	02731 REMOVE STRUCTURE Exist. DBL. 12'x6' RCBC	1.00	LS	\$15,000.00	\$15,000.00
0025	02731 REMOVE STRUCTURE Exist. KY 1419 Bridge	1.00	LS	\$80,000.00	\$80,000.00
0027	02262 FENCE-WOVEN WIRE TYPE 1	90,000.00	LF	\$6.50	\$585,000.00
0028	02555 CONCRETE-CLASS B For Retaining Walls	590.00	CUYD	\$429.06	\$253,145.40

Total for Group 0002:\$26,963,207.60

Group 0003: DRAINAGE

0029	00462 CULVERT PIPE-18 IN	23,300.00	LF	\$48.46	\$1,129,118.00
0030	00464 CULVERT PIPE-24 IN	2,150.00	LF	\$54.19	\$116,508.50
0031	00466 CULVERT PIPE-30 IN	630.00	LF	\$55.48	\$34,952.40
0032	00468 CULVERT PIPE-36 IN	1,450.00	LF	\$79.78	\$115,681.00
0033	00469 CULVERT PIPE-42 IN	250.00	LF	\$114.72	\$28,680.00

Estimate: 10-168.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
0034	00470 CULVERT PIPE-48 IN	400.00	LF	\$105.58	\$42,232.00
0035	00471 CULVERT PIPE-54 IN	320.00	LF	\$150.59	\$48,188.80
0036	00472 CULVERT PIPE-60 IN	860.00	LF	\$163.57	\$140,670.20
0037	00474 CULVERT PIPE-72 IN	70.00	LF	\$359.66	\$25,176.20
0039	01204 PIPE CULVERT HEADWALL-18 IN	260.00	EACH	\$1,082.81	\$281,530.60
0040	01208 PIPE CULVERT HEADWALL-24 IN	35.00	EACH	\$1,161.92	\$40,667.20
0041	01210 PIPE CULVERT HEADWALL-30 IN	15.00	EACH	\$1,817.66	\$27,264.90
0042	01212 PIPE CULVERT HEADWALL-36 IN	25.00	EACH	\$1,988.79	\$49,719.75
0043	01214 PIPE CULVERT HEADWALL-42 IN	6.00	EACH	\$2,366.46	\$14,198.76
0044	01216 PIPE CULVERT HEADWALL-48 IN	7.00	EACH	\$2,975.92	\$20,831.44
0045	24026EC PIPE CULVERT HEADWALL-54 IN	4.00	EACH	\$7,920.00	\$31,680.00
0046	01220 PIPE CULVERT HEADWALL-60 IN	9.00	EACH	\$4,950.00	\$44,550.00
0047	24025EC PIPE CULVERT HEADWALL-72 IN	2.00	EACH	\$10,499.93	\$20,999.86
0048	01000 PERFORATED PIPE-4 IN	195,000.00	LF	\$6.86	\$1,337,700.00
0049	01010 NON-PERFORATED PIPE-4 IN	5,600.00	LF	\$8.68	\$48,608.00
0050	01020 PERF PIPE HEADWALL TY 1-4 IN	335.00	EACH	\$387.79	\$129,909.65

Estimate: 10-168.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
	<u>Description</u> <u>Supplemental Description</u>				
0051	01480 CURB BOX INLET TYPE B	14.00	EACH	\$3,902.69	\$54,637.66
0052	01505 DROP BOX INLET TYPE 5B	205.00	EACH	\$4,555.86	\$933,951.30
0053	08100 CONCRETE-CLASS A	5,450.00	CUYD	\$383.50	\$2,090,075.00
0054	08150 STEEL REINFORCEMENT	1,040,000.00	LB	\$0.79	\$821,600.00
Total for Group 0003:\$7,629,131.22					

Group 0004: BRIDGE

0055	99999 KY 191 BRIDGE	1.00	LS	\$2,400,000.00	\$2,400,000.00
0056	99999 KY 2491 BRIDGE	1.00	LS	\$2,200,000.00	\$2,200,000.00
0057	99999 KY 1812 BRIDGE	1.00	LS	\$2,350,000.00	\$2,350,000.00
0058	99999 KY 3034 BRIDGE	1.00	LS	\$1,420,000.00	\$1,420,000.00
0059	99999 KY 1010 BRIDGE	1.00	LS	\$980,000.00	\$980,000.00
0060	99999 KY 1419 BRIDGE	1.00	LS	\$1,485,000.00	\$1,485,000.00
Total for Group 0004:\$10,835,000.00					

Group 0007: SIGNING

0061	06515 PAVE STRIPING-PERM PAINT-6 IN	375,000.00	LF	\$0.15	\$56,250.00
0062	06592 PAVEMENT MARKER TYPE V-B W/R	1,430.00	EACH	\$21.43	\$30,644.90
Total for Group 0007:\$86,894.90					

Group 0017: MISCELLANEOUS

0063	10020NS FUEL ADJUSTMENT	1,630,000.00	DOLL	\$1.00	\$1,630,000.00
------	----------------------------	--------------	------	--------	----------------

Estimate: 10-168.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

0064	10030NS	1,175,000.00	DOLL	\$1.00	\$1,175,000.00
ASPHALT ADJUSTMENT					

0065	99999	1.00	LS	\$15,000,000.00	\$15,000,000.00
MISCELLANEOUS					
20%					

Total for Group 0017:\$17,805,000.00

Estimate 10-168.00

Estimated Cost:\$100,489,896.24

Contingency: 10.00%

Estimated Total: \$110,538,885.86

MOUNTAIN PARKWAY ALTERNATE 2

Base Date: 11/21/14

Spec Year: 08

Unit System: E

Work Type: GRADE & DRAIN WITH ASPHALT SURFACE

Highway Type: STATE

Urban/Rural Type: RURAL

Season: SPRING

County: WOLFE

Latitude of Midpoint: 344432

Longitude of Midpoint: -832827

District: 10

Federal/State Project Number: FD52 1550 C119 E143

STP 0061(048)

Estimate: 10-168.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Group 0001: PAVING

0067	00388	42,100.00	TON	\$80.00	\$3,368,000.00
CL3 ASPH SURF 0.38B PG64-22					
0068	00214	239,000.00	TON	\$70.00	\$16,730,000.00
CL3 ASPH BASE 1.00D PG64-22					
0069	00003	155,000.00	TON	\$26.50	\$4,107,500.00
CRUSHED STONE BASE					
0070	00190	11,000.00	TON	\$82.75	\$910,250.00
LEVELING & WEDGING PG64-22					

Total for Group 0001:\$25,115,750.00

Group 0002: ROADWAY

0005	02200	5,915,000.00	CUYD	\$5.00	\$29,575,000.00
ROADWAY EXCAVATION					
0006	02351	60,800.00	LF	\$12.84	\$780,672.00
GUARDRAIL-STEEL W BEAM-S FACE					
0007	02352	1,500.00	LF	\$23.48	\$35,220.00
GUARDRAIL-STEEL W BEAM-D FACE					
0008	02360	6.00	EACH	\$41.36	\$248.16
GUARDRAIL TERMINAL SECTION NO 1					
0009	02363	24.00	EACH	\$2,447.17	\$58,732.08
GUARDRAIL CONNECTOR TO BRIDGE END TY A					
0011	02367	100.00	EACH	\$2,004.54	\$200,454.00
GUARDRAIL END TREATMENT TYPE 1					
0012	02369	11.00	EACH	\$598.94	\$6,588.34
GUARDRAIL END TREATMENT TYPE 2A					
0013	02387	20.00	EACH	\$317.03	\$6,340.60
GUARDRAIL CONNECTOR TO BRIDGE END TY A-1					
0014	02391	2.00	EACH	\$1,953.21	\$3,906.42
GUARDRAIL END TREATMENT TYPE 4A					
0015	02545	1.00	LS	\$580,000.00	\$580,000.00
CLEARING AND GRUBBING					
Approximately 371 Acres					
0016	02650	1.00	LS	\$950,000.00	\$950,000.00
MAINTAIN & CONTROL TRAFFIC					

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
0017	21415ND EROSION CONTROL	1.00	LS	\$1,039,000.00	\$1,039,000.00
0018	02726 STAKING	1.00	LS	\$880,000.00	\$880,000.00
0019	02731 REMOVE STRUCTURE Exist. KY 191 Bridge	1.00	LS	\$100,000.00	\$100,000.00
0020	02731 REMOVE STRUCTURE Exist. KY 2491 Bridge	1.00	LS	\$80,000.00	\$80,000.00
0021	02731 REMOVE STRUCTURE Exist. KY 1812 Bridge	1.00	LS	\$90,000.00	\$90,000.00
0022	02731 REMOVE STRUCTURE Exist. KY 3034 Wagon Box	1.00	LS	\$15,000.00	\$15,000.00
0023	02731 REMOVE STRUCTURE Exist. KY 1010 Bridge	1.00	LS	\$100,000.00	\$100,000.00
0025	02731 REMOVE STRUCTURE Exist. KY 1419 Bridge	1.00	LS	\$80,000.00	\$80,000.00
0027	02262 FENCE-WOVEN WIRE TYPE 1	90,000.00	LF	\$6.50	\$585,000.00
0028	02555 CONCRETE-CLASS B For Retaining Walls	100.00	CUYD	\$397.23	\$39,723.00

Total for Group 0002:\$35,205,884.60

Group 0003: DRAINAGE

0029	00461 CULVERT PIPE-15 IN	40.00	LF	\$80.05	\$3,202.00
0030	00462 CULVERT PIPE-18 IN	21,500.00	LF	\$48.46	\$1,041,890.00
0031	00464 CULVERT PIPE-24 IN	1,600.00	LF	\$55.99	\$89,584.00
0032	00466 CULVERT PIPE-30 IN	295.00	LF	\$66.07	\$19,490.65
0033	00468 CULVERT PIPE-36 IN	1,260.00	LF	\$81.77	\$103,030.20
0034	00469 CULVERT PIPE-42 IN	280.00	LF	\$112.39	\$31,469.20

Estimate: 10-168.00

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
0035	00470 CULVERT PIPE-48 IN	460.00	LF	\$103.40	\$47,564.00
0036	00471 CULVERT PIPE-54 IN	490.00	LF	\$139.34	\$68,276.60
0037	00472 CULVERT PIPE-60 IN	725.00	LF	\$163.57	\$118,588.25
0038	00474 CULVERT PIPE-72 IN	60.00	LF	\$370.84	\$22,250.40
0039	01202 PIPE CULVERT HEADWALL-15 IN	2.00	EACH	\$1,166.76	\$2,333.52
0040	01204 PIPE CULVERT HEADWALL-18 IN	250.00	EACH	\$1,082.81	\$270,702.50
0041	01208 PIPE CULVERT HEADWALL-24 IN	25.00	EACH	\$1,161.92	\$29,048.00
0042	01210 PIPE CULVERT HEADWALL-30 IN	5.00	EACH	\$1,817.66	\$9,088.30
0043	01212 PIPE CULVERT HEADWALL-36 IN	20.00	EACH	\$1,988.79	\$39,775.80
0044	01214 PIPE CULVERT HEADWALL-42 IN	5.00	EACH	\$2,366.46	\$11,832.30
0045	01216 PIPE CULVERT HEADWALL-48 IN	7.00	EACH	\$2,975.92	\$20,831.44
0046	24026EC PIPE CULVERT HEADWALL-54 IN	4.00	EACH	\$7,920.00	\$31,680.00
0047	01220 PIPE CULVERT HEADWALL-60 IN	8.00	EACH	\$4,950.00	\$39,600.00
0048	24025EC PIPE CULVERT HEADWALL-72 IN	2.00	EACH	\$10,499.93	\$20,999.86
0049	01000 PERFORATED PIPE-4 IN	196,000.00	LF	\$6.86	\$1,344,560.00
0050	01010 NON-PERFORATED PIPE-4 IN	5,650.00	LF	\$8.67	\$48,985.50
0051	01020 PERF PIPE HEADWALL TY 1-4 IN	335.00	EACH	\$387.79	\$129,909.65

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

0052	01480	18.00	EACH	\$3,902.69	\$70,248.42
CURB BOX INLET TYPE B					

0053	01505	205.00	EACH	\$4,555.86	\$933,951.30
DROP BOX INLET TYPE 5B					

0054	08100	5,950.00	CUYD	\$379.06	\$2,255,407.00
CONCRETE-CLASS A					

0055	08150	1,120,000.00	LB	\$0.79	\$884,800.00
STEEL REINFORCEMENT					

Total for Group 0003:\$7,689,098.89

Group 0004: BRIDGE

0056	99999	1.00	LS	\$2,500,000.00	\$2,500,000.00
KY 191 BRIDGE					

0057	99999	1.00	LS	\$2,340,000.00	\$2,340,000.00
KY 2491 BRIDGE					

0058	99999	1.00	LS	\$2,405,000.00	\$2,405,000.00
KY 1812 BRIDGE					

0059	99999	1.00	LS	\$1,470,000.00	\$1,470,000.00
KY 3034 BRIDGE					

0060	99999	1.00	LS	\$1,260,000.00	\$1,260,000.00
KY 1010 BRIDGE					

0061	99999	1.00	LS	\$2,240,000.00	\$2,240,000.00
KY 1419 BRIDGE					

Total for Group 0004:\$12,215,000.00

Group 0007: SIGNING

0062	06515	357,500.00	LF	\$0.15	\$53,625.00
PAVE STRIPING-PERM PAINT-6 IN					

0063	06592	1,425.00	EACH	\$21.43	\$30,537.75
PAVEMENT MARKER TYPE V-B W/R					

Total for Group 0007:\$84,162.75

Group 0017: MISCELLANEOUS

0064	10020NS	2,120,000.00	DOLL	\$1.00	\$2,120,000.00
------	---------	--------------	------	--------	----------------

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

FUEL ADJUSTMENT

0065	10030NS	1,310,000.00	DOLL	\$1.00	\$1,310,000.00
ASPHALT ADJUSTMENT					

0066	99999	1.00	LS	\$16,750,000.00	\$16,750,000.00
MISCELLANEOUS					
20%					

Total for Group 0017:\$20,180,000.00



04 Utility Estimates

ALTERNATE 1

UTILITY ITEM	UNIT	UNIT COST	QUANTITY	COST
Waterline	LIN FT	\$30	9,500	\$285,000
Telephone Pole Relocation	EA	\$3,500	75	\$262,500
Electric Pole Relocation	EA	\$5,000	50	\$250,000
Underground Fiber Optic	LIN FT	\$6.50	25,000	\$162,500
Transmission Line	EA	\$10,000	4	\$40,000
Subtotal				\$1,000,000
10% Engineering and Contingency				\$100,000
TOTAL COST ALTERNATE 1				\$1,100,000

ALTERNATE 2

UTILITY ITEM	UNIT	UNIT COST	QUANTITY	COST
Waterline	LIN FT	\$30	8,000	\$240,000
Telephone Pole Relocation	EA	\$3,500	25	\$87,500
Electric Pole Relocation	EA	\$5,000	40	\$200,000
Underground Fiber Optic	LIN FT	\$6.50	17,000	\$110,500
Transmission Line	EA	\$10,000	2	\$20,000
Subtotal				\$658,000
10% Engineering and Contingency				\$65,800
TOTAL COST ALTERNATE 2				\$723,800



05 Right-of-Way Summaries

**MOUNTAIN PARKWAY WIDENING
WOLFE COUNTY**

**ALTERNATE 1
PRELIMINARY RIGHT OF WAY TAKINGS**

**ITEM NO. 10-168.00
NOVEMBER 2014**

PARCEL NO.	NAME	TOTAL AREA OF TRACT (acre)	PERMANENT R/W ACQUIRED (acre)	EASEMENTS		PORTION REMAINING (acre)	BUILDINGS ACQUIRED			
				PERMANENT (square feet)	TEMPORARY (square feet)		C	R	F	S
2	SHIRLEY SPAULDING	0.77	0.20	0	13950	0.57				3
3	SAVANNAH LAND	0.75	0.19	0	1200	0.56				1
5	DAVID L DRAKE	10.55	1.66	0	0	8.89				
8	LEVA HALCOMB KIDD	2.22	0.06	0	0	2.16				
9	DAVID M ALLEN	123.85	6.15	0	0	117.70				
10	THOMAS & YETTA B COX	4.71	2.06	0	2098	2.65		1		1
11	JOHN T GRAHAM	1.07	1.07	0	0	0.00		1		1
12	DONNIE HARRIS TRUST VERA HARRIS	128.03	5.88	0	0	122.15				
13	BELL SOUTH TELECOMMUNICATION C/O AT&T PROPERTY TAX GROUP	0.44	0.17	0	0	0.27				
14	STEPHEN & SHIRLEY TUTT	27.21	0.39	0	2095	26.82				
15	STEPHEN L TUTT	0.80	0	0	0	0.80				1
16	TROUBLESOME CREEK GAS CORP	6.68	0.06	0	0	6.62				
17	DONNIE HARRIS TRUST VERA HARRIS	42.78	1.49	0	0	41.29				
18	ROGER L & JUDY HALCOMB POTTS	2.24	0.90	0	0	1.34				

BUILDINGS ACQUIRED CODE
C-COMMERCIAL
R-RESIDENTIAL
F-FARM
S-STORAGE

PARCEL NO.	NAME	TOTAL AREA OF TRACT (acre)	PERMANENT R/W ACQUIRED (acre)	EASEMENTS		PORTION REMAINING (acre)	BUILDINGS ACQUIRED			
				PERMANENT (square feet)	TEMPORARY (square feet)		C	R	F	S
21	GLENDA WHITE	2.29	1.25	0	0	1.04				1
22	VANCE & EUGENE HOWARD	12.93	0.91	0	0	12.02				
23	ROGER CECIL	0.63	0.36	0	0	0.27				2
24	CHARLES L & VIRGINIA S SWIFT	0.98	0.52	0	5861	0.46	1			2
27	JESSE MARK WHITE	1.35	0.74	0	7117	0.61	1			2
28	RONNIE & CATHY CRABTREE	10.33	3.06	0	0	7.27				
29	SARAH ELLEN COLEMAN	50.40	6.04	0	0	44.36				
32	WILLIAM & NELLIE FUGATE	2.09	1.40	0	0	0.69				
33	SCOTT & KIMBERLY GRAHAM	61.02	4.59	0	0	56.43				
34	ANDY GRAHAM	21.29	3.4	0	0	17.89				
35	LESTER & HELEN DUNN	16.78	2.13	0	0	14.65				
36	JAMES & EDWINA STAAB	141.39	1.02	0	0	140.37				
37	DONNIE HARRIS TRUST VERA HARRIS	3.30	3.38	0	0	-0.08				
39	WILLIAM & LINDA STILLWELL	54.02	0.83	0	0	53.19				

BUILDINGS ACQUIRED CODE
C-COMMERCIAL
R-RESIDENTIAL
F-FARM
S-STORAGE

PARCEL NO.	NAME	TOTAL AREA OF TRACT (acre)	PERMANENT R/W ACQUIRED (acre)	EASEMENTS		PORTION REMAINING (acre)	BUILDINGS ACQUIRED			
				PERMANENT (square feet)	TEMPORARY (square feet)		C	R	F	S
43	CHARLES & BETTY JO BURTON	2.99	0.87	0	0	2.12				
44	RUSSEL PENCE TRUST JEANNIE PENCE TRUST	16.04	2.71	0	0	13.33				
46	CARL & OPAL STONE	2.28	0.63	0	0	1.65				
47	DONALD & VICKIE LAWSON	91.34	0.27	0	0	91.07				
48	MICHAEL HURT	103.36	13.47	0	0	89.89				
50	RILEY E HARRIS	27.41	2.39	0	0	25.02				
52	RILEY E HARRIS JUDY CALDWELL	73.85	3.98	0	1543	69.87				
53	RILEY E HARRIS JUDY CALDWELL	194.80	5.06	0	9474	189.74	1	1	1	
54	RILEY E HARRIS JUDY CALDWELL	0.23	0.23	0	0	0.00				
55	GLEN BUSH HAROLD & PAMELA BUSH	15.28	3.81	0	1343	11.47				
57	GLEN BUSH HAROLD & PAMELA BUSH	37.09	0.61	0	0	36.48				
58	GLADYS STAMPER	100.31	9.07	0	12138	91.24	2	1	1	
59	KAREN S PERRY	1.74	0.58	0	0	1.16	1			
60	JERRY WAYNE CRISP	1.31	0.86	0	0	0.45	1			1

BUILDINGS ACQUIRED CODE
C-COMMERCIAL
R-RESIDENTIAL
F-FARM
S-STORAGE

PARCEL NO.	NAME	TOTAL AREA OF TRACT (acre)	PERMANENT R/W ACQUIRED (acre)	EASEMENTS		PORTION REMAINING (acre)	BUILDINGS ACQUIRED			
				PERMANENT (square feet)	TEMPORARY (square feet)		C	R	F	S
61	PLUMMER & CHRISTINE BREWER	7.50	2.32	3339	0	5.18				
62	TROY & AMBER PERRY	44.45	4.63	0	0	39.82				
63	JAMES & MARY ALICE DALTON	151.08	0.25	0	0	150.83				
69	THURMAN ALLEN	2.43	1.26	0	0	1.17				
70	GLEN BUSH HAROLD & PAMELA BUSH	34.44	1.21	0	0	33.23				
74	BENEFICIAL MORTGAGE	1.14	0.49	0	9434	0.65		1		1
75	TIMOTHY WAYNE & JACQUELINE SUE ROBINSON	7.87	2.40	0	0	5.47				
77	NANCY JOSEPH	5.44	0.47	0	0	4.97		1		1
78	RICHARD CAUDILL	1.14	0.68	0	5486	0.46		1		2
79	MARK ROBERTS	25.90	0.42	0	0	25.48				
80	TYLER HEMSATH C/O KAREN PENCE HEMSATH	56.94	0.57	0	0	56.37				
82	WILLIAM HOLLON	2.50	0.94	0	1001	1.56				
83	MARY JANE CHANEY	29.31	10.50	0	2946	18.81		1		2
84	GLADYS HARRISON CLARK	1.65	0.97	0	0	0.68				

BUILDINGS ACQUIRED CODE
C-COMMERCIAL
R-RESIDENTIAL
F-FARM
S-STORAGE

PARCEL NO.	NAME	TOTAL AREA OF TRACT (acre)	PERMANENT R/W ACQUIRED (acre)	EASEMENTS		PORTION REMAINING (acre)	BUILDINGS ACQUIRED			
				PERMANENT (square feet)	TEMPORARY (square feet)		C	R	F	S
86	BETTER RENTALS INC GARY C JOHNSON	32.62	3.07	0	0	29.55				
87	INEZ MAY FERGUSON	56.76	0.53	0	0	56.23				
88	VERNON & EDDIE NICKELL	73.12	9.43	0	0	63.69				
90	ROBERT LOVEJOY	6.28	0.47	0	0	5.81				
91	LESTER H JR & EULA NICKELL BURNS	125.69	0.7	0	0	124.99				
92	MANUEL & SHARLON WHITLEY	14.64	1.82	0	0	12.82				
93	EDDIE NICKELL	7.45	0.18	0	1160	7.27				
94	VERNON NICKELL	32.95	2.38	0	0	30.57				
95	EAST KY NETWORK LLC DBA APPALACHIAN WIRELESS	5.62	2.5	0	720	3.12				
96	JUNIOR & SUE BANKS	47.45	1.1	0	2703	46.35				
98	ANDY GRAHAM	172.06	20.32	0	0	151.74				
101	JACK TAULBEE	84.74	12.22	0	0	72.52			1	
102	JACK TAULBEE	76.04	6.85	0	0	69.19				
103	TIMOTHY WAYNE FERGUSON	83.43	12.72	0	0	70.71				

BUILDINGS ACQUIRED CODE
C-COMMERCIAL
R-RESIDENTIAL
F-FARM
S-STORAGE

PARCEL NO.	NAME	TOTAL AREA OF TRACT (acre)	PERMANENT R/W ACQUIRED (acre)	EASEMENTS		PORTION REMAINING (acre)	BUILDINGS ACQUIRED			
				PERMANENT (square feet)	TEMPORARY (square feet)		C	R	F	S
105	NAOMI KASH LINDON	47.15	9.14	0	9010	38.01			1	
106	TIMOTHY WAYNE FERGUSON	46.55	0.87	0	0	45.68				
107	UNKNOWN	10.99	4.35	0	0	6.64				
109	WADE GIBBS	100.49	1.5	0	0	98.99				
110	DOUGLAS MULLINS	106.66	4.43	0	0	102.23				
111	ELMER WHITAKER TRUST	71.30	1.59	0	0	69.71				
TOTALS:			217.730	3,339	89,279		0	13	4	23

BUILDINGS ACQUIRED CODE
C-COMMERCIAL
R-RESIDENTIAL
F-FARM
S-STORAGE

PARCEL NO.	NAME	TOTAL AREA OF TRACT (acre)	PERMANENT R/W ACQUIRED (acre)	EASEMENTS		PORTION REMAINING (acre)	BUILDINGS ACQUIRED			
				PERMANENT (square feet)	TEMPORARY (square feet)		C	R	F	S
2	SHIRLEY SPAULDING	0.77	0.20	0	13950	0.57				3
3	SAVANNAH LAND	0.75	0.28	0	1200	0.47				1
5	DAVID L DRAKE	10.55	1.82	0	0	8.73				
8	LEVA HALCOMB KIDD	2.22	0.06	0	0	2.16				
9	DAVID M ALLEN	123.85	5.89	0	0	117.96				
10	THOMAS & YETTA B COX	4.71	2.10	0	0	2.61		1		1
11	JOHN T GRAHAM	1.07	1.07	0	0	0.00		1		1
12	DONNIE HARRIS TRUST VERA HARRIS	128.03	18.58	0	0	109.45				
13	BELL SOUTH TELECOMMUNICATION C/O AT&T PROPERTY TAX GROUP	0.44	0.14	0	735	0.30				
14	STEPHEN & SHIRLEY TUTT	27.21	0.37	0	5425	26.84				
15	STEPHEN L TUTT	0.80	0	0	0	0.80				1
16	TROUBLESOME CREEK GAS CORP	6.68	0.03	0	1354	6.65				
17	DONNIE HARRIS TRUST VERA HARRIS	42.78	0.68	0	0	42.10				
22	VANCE & EUGENE HOWARD	12.93	3.54	0	0	9.39				

BUILDINGS ACQUIRED CODE
C-COMMERCIAL
R-RESIDENTIAL
F-FARM
S-STORAGE

PARCEL NO.	NAME	TOTAL AREA OF TRACT (acre)	PERMANENT R/W ACQUIRED (acre)	EASEMENTS		PORTION REMAINING (acre)	BUILDINGS ACQUIRED			
				PERMANENT (square feet)	TEMPORARY (square feet)		C	R	F	S
28	RONNIE & CATHY CRABTREE	10.33	3.53	0	0	6.80				
29	SARAH ELLEN COLEMAN	50.40	11.03	0	0	39.37				
34	ANDY GRAHAM	21.29	3.32	0	0	17.97				
35	LESTER & HELEN DUNN	16.78	1.54	0	0	15.24				
36	JAMES & EDWINA STAAB	141.39	1.68	0	0	139.71				
39	WILLIAM & LINDA STILLWELL	54.02	4.76	0	14942	49.26				
40	ELIZA ROSE ISON	53.75	1.11	0	7759	52.64				
41	KELLY ROSE	26.31	0.83	0	2505	25.48				
42	JUDY DIANE TAPLEY	4.28	1.51	0	2444	2.77				
43	CHARLES & BETTY JO BURTON	2.99	0	0	0	2.99				
44	RUSSEL PENCE TRUST JEANIE PENCE TRUST	16.04	0	0	0	16.04				
45	UNKNOWN	0.39	0	0	0	0.39				
46	CARL & OPAL STONE	2.28	0.12	0	0	2.16				
47	DONALD & VICKIE LAWSON	91.34	0.78	0	0	90.56				

PARCEL NO.	NAME	TOTAL AREA OF TRACT (acre)	PERMANENT R/W ACQUIRED (acre)	EASEMENTS		PORTION REMAINING (acre)	BUILDINGS ACQUIRED			
				PERMANENT (square feet)	TEMPORARY (square feet)		C	R	F	S
48	MICHAEL HURT	103.36	12.27	0	0	91.09				
50	RILEY E HARRIS	27.41	0.11	0	0	27.30				
51	JIMMY RUDD	46.80	0.05	0	0	46.75				
52	RILEY E HARRIS JUDY CALDWELL	73.85	6.82	0	0	67.03				
53	RILEY E HARRIS JUDY CALDWELL	194.80	7.42	0	0	187.38				
55	GLEN BUSH HAROLD & PAMELA BUSH	15.28	1.2	0	0	14.08				
58	GLADYS STAMPER	100.31	4.71	0	0	95.60				
61	PLUMMER & CHRISTINE BREWER	7.50	0	1780	0	7.50				
62	TROY & AMBER PERRY	44.45	7.61	0	0	36.84				
69	THURMAN ALLEN	2.43	0.07	362	0	2.36				
71	WILLIAM RATLIFF HESTER RATLIFF	1.80	1.27	0	4158	0.53		1		11
72	TIMOTHY WAYNE ROBINSON	63.55	1.42	0	0	62.13				
73	HOMER BURTON MARILYN E PARKS	31.65	1.03	0	0	30.62				
75	TIMOTHY WAYNE & JACQUELINE SUE ROBINSON	7.87	5.72	0	0	2.15		1		1

BUILDINGS ACQUIRED CODE
C-COMMERCIAL
R-RESIDENTIAL
F-FARM
S-STORAGE

PARCEL NO.	NAME	TOTAL AREA OF TRACT (acre)	PERMANENT R/W ACQUIRED (acre)	EASEMENTS		PORTION REMAINING (acre)	BUILDINGS ACQUIRED			
				PERMANENT (square feet)	TEMPORARY (square feet)		C	R	F	S
76	EUGENE ROBINSON	6.03	0.37	0	0	5.66				
77	NANCY JOSEPH	5.44	1.82	0	0	3.62				
80	TYLER HEMSATH C/O KAREN PENCE HEMSATH	56.94	3.22	0	0	53.72				
83	MARY JANE CHANEY	29.31	10.12	0	0	19.19				
86	BETTER RENTALS INC GARY C JOHNSON	32.62	6.66	0	0	25.96				
88	VERNON & EDDIE NICKELL	73.12	4.85	0	0	68.27				
89	THELMA JO MCATEE KIMBERLY K BREWER	307.24	0.34	0	0	306.90				
90	ROBERT LOVEJOY	6.28	0.16	0	0	6.12				
91	LESTER H JR & EULA NICKELL BURNS	125.69	4.64	0	4990	121.05				
92	MANUEL & SHARLON WHITLEY	14.64	0.71	0	0	13.93				
93	EDDIE NICKELL	7.45	1.26	0	0	6.19		1		1
94	VERNON NICKELL	32.95	3.87	0	0	29.08				
95	EAST KY NETWORK LLC DBA APPALACHIAN WIRELESS	5.62	1.38	0	147	4.24				
96	JUNIOR & SUE BANKS	47.45	1.05	0	860	46.40				

BUILDINGS ACQUIRED CODE
C-COMMERCIAL
R-RESIDENTIAL
F-FARM
S-STORAGE

PARCEL NO.	NAME	TOTAL AREA OF TRACT (acre)	PERMANENT R/W ACQUIRED (acre)	EASEMENTS		PORTION REMAINING (acre)	BUILDINGS ACQUIRED			
				PERMANENT (square feet)	TEMPORARY (square feet)		C	R	F	S
97	DEWEESE WILSON	0.48	0.12	0	0	0.36				
98	ANDY GRAHAM	172.06	24.97	0	0	147.09				
99	GENE NEFF SHIRLEY HOLLAND	182.68	0.14	0	0	182.54				
101	JACK TAULBEE	84.74	13.89	0	0	70.85				
103	TIMOTHY WAYNE FERGUSON	83.43	8.06	0	0	75.37				
105	NAOMI KASH LINDON	47.15	13.27	0	0	33.88			1	
106	TIMOTHY WAYNE FERGUSON	46.55	0.45	0	0	46.10			1	
107	UNKNOWN	10.99	3.16	0	0	7.83				
109	WADE GIBBS	100.49	0.81	0	0	99.68				
110	DOUGLAS MULLINS	106.66	3.2	0	23693	103.46				
111	ELMER WHITAKER TRUST	71.30	1.17	0	0	70.13				
TOTALS:			224.360	2,142	84,162		0	5	2	20



06 Maintenance of Traffic



Maintenance of Traffic

Mountain Parkway Alternate #1

Phase I

Maintain traffic on existing Mountain Parkway, KY 2491, KY 1812 and KY 3034 while constructing the following:

1. Construct the new westbound bridges over KY 2491, KY 1812 and KY 3034.
2. Construct the proposed KY 3033 utilizing part-width construction and maintaining traffic around the construction using temporary one-lane closures.
3. Route traffic to the newly constructed KY 3033.
4. Close KY 1419. Construct KY 1419 and Lacy Creek – Gilmore Rd.
5. Leave a gap in the construction for the existing westbound entrance and exit ramps and KY 1010.
6. Construct KY 1010 interchange as detailed in interchange maintenance of traffic notes.
7. Construct the proposed westbound Mountain Parkway roadway.

Phase II

1. Route traffic to the newly constructed westbound portion of Mountain Parkway.
2. Construct the new eastbound bridges over KY 2491, KY 1812 and KY 3034.
3. Construct the proposed eastbound Mountain Parkway roadway.
4. Construct KY 2491, KY 1812 and KY 3034 utilizing part-width construction and maintaining traffic around the construction using temporary one-lane closures.
5. Utilize temporary crossover from westbound Mountain Parkway to Ramps A and B as detailed in interchange maintenance of traffic notes.
6. Remove existing bridge over KY 1419. Construct proposed eastbound Mountain Parkway roadway and bridge over KY 1419.

Phase III

1. Route traffic to the newly constructed westbound and eastbound Mountain Parkway roadway and newly constructed KY 2491, KY 1812 and KY 3034. All lanes shall be open during non-working hours.

Phase IV

1. Place final surface course over Mountain Parkway, side-roads and the ramps under traffic.

Mountain Parkway - KY 191 Interchange Alternate #1

Phase I

Maintain traffic on existing Mountain Parkway, KY 191 and the ramps while constructing the following:

1. Construct the new westbound bridge over KY 191.
2. Construct the proposed westbound Mountain Parkway roadway. Leave a gap in the construction for the existing westbound exit ramp.
3. Construct Ramp E and tie into westbound Mountain Parkway construction and KY 191 construction.
4. Construct Ramp D and tie into westbound Mountain Parkway construction and KY 191 construction. Leave gap in construction for the existing westbound exit ramp.
5. Construct temporary pavement inside existing Ramp B and tie into KY 191 and eastbound Mountain Parkway.
6. Construct a temporary crossover for existing westbound exit ramp. Finish construction along Ramp D and proposed westbound Mountain Parkway.
7. Construct a temporary crossover for existing eastbound entrance ramp.

Phase II

1. Route traffic to the newly constructed westbound portion of Mountain Parkway.
2. Construct the new eastbound bridge over KY 191.
3. Construct the proposed eastbound Mountain Parkway roadway. Leave a gap in the construction for the existing eastbound entrance ramp.
4. Construct KY 191 utilizing part-width construction and maintaining traffic around the construction using temporary one-lane closures.
5. Route Ramp B traffic to the temporary pavement and the temporary crossover and construct Ramp B and Ramp C and tie into KY 191. Leave gap in construction for the existing eastbound entrance ramp.
6. Construct Ramp A and tie into eastbound Mountain Parkway construction and KY 191.

Phase III

1. Route Ramp B traffic to the newly constructed portions of the ramp and complete the construction of eastbound Mountain Parkway and Ramp B in the areas gapped out in Phase II.
2. Route traffic to the newly constructed westbound and eastbound Mountain Parkway roadway and newly constructed ramps. All lanes shall be open during non-working hours.

Phase IV

1. Place final surface course over Mountain Parkway and the ramps under traffic.

Mountain Parkway - KY 1010 Interchange Alternate #1

Phase I

Maintain traffic on existing Mountain Parkway while constructing the following:

1. Construct the proposed westbound Mountain Parkway roadway. Leave a gap in the construction for the existing westbound entrance and exit ramps and KY 1010.
2. Construct the portions of Ramps A, B, C, D, E, and F that do not conflict with the existing ramps.
3. Close KY 1010. Construct KY 1010 and the remainder of Ramps A, B, C, D, E and F. Construct temporary crossover from existing Mountain Parkway to Ramps D and E.
4. Open KY 1010 to traffic. Utilize temporary crossover from existing Mountain Parkway to Ramps D and E. Construct remainder of westbound Mountain Parkway. Construct temporary crossover from westbound Mountain Parkway to Ramps A and B.

Phase II

1. Route traffic over the newly constructed westbound portion of Mountain Parkway. Utilize temporary crossover from westbound Mountain Parkway to Ramps A and B.
2. Construct proposed eastbound Mountain Parkway roadway.

Phase III

1. Place final surface course over Mountain Parkway and the ramps under traffic.

Mountain Parkway Alternate #2

Phase I

Maintain traffic on existing Mountain Parkway, KY 2491, KY 1812 and KY 3034 while constructing the following:

1. Construct the new eastbound bridges over KY 2491, KY 1812 and KY 3034.
2. Construct Service Road and tie to existing KY 2491.
3. Construct Bedwell Road and tie to existing KY 3034.
4. Close KY 1419. Construct KY 1419 and Lacy Creek — Gilmore Rd.
5. Construct temporary pavement to the north of the existing Parkway from Sta. 526+00 to Sta. 550+00 (approximate).
6. Utilize temporary pavement to the north of the existing Parkway. Construct the proposed eastbound Mountain Parkway roadway and bridge over KY 1419. Leave a gap in the construction for the existing eastbound entrance and exit ramps and KY 1010.
7. Construct KY 1010 interchange as detailed in interchange maintenance of traffic notes
8. Construct remainder of the proposed eastbound Mountain Parkway roadway.

Phase II

1. Route traffic to the newly constructed eastbound portion of Mountain Parkway.
2. Construct the new westbound bridges over KY 2491, KY 1812 and KY 3034.
3. Utilize temporary crossover from eastbound Mountain Parkway to Ramps D and E as detailed in interchange maintenance of traffic notes.
4. Remove existing bridge over KY 1419. Construct proposed westbound Mountain Parkway roadway and bridge over KY 1419.
5. Construct remainder of the proposed westbound Mountain Parkway roadway.
6. Construct KY 2491, KY 1812 and KY 3034 utilizing part-width construction and maintaining traffic around the construction using temporary one-lane closures.

Phase III

1. Route traffic to the newly constructed westbound and eastbound Mountain Parkway roadway and newly constructed KY 2491, KY 1812 and KY 3034. All lanes shall be open during non-working hours.

Phase IV

1. Place final surface course over Mountain Parkway, side-roads and the ramps under traffic.

Mountain Parkway - KY 191 Interchange

Alternate #2

Phase I

Maintain traffic on existing Mountain Parkway, KY 191 and the ramps while constructing the following:

1. Construct the new eastbound bridge over KY 191.
2. Construct the proposed eastbound Mountain Parkway roadway. Leave a gap in the construction for the existing eastbound entrance ramp.
3. Construct Ramp A and tie into eastbound Mountain Parkway construction and KY 191 construction. Leave gap in construction for the existing KY 191 roadway.
4. Construct Ramp B and tie into eastbound Mountain Parkway construction and KY 191 construction.
5. Construct Ramp C and tie into KY 191 construction.
6. Construct KY 191 utilizing part-width construction and maintaining traffic around the construction using temporary one-lane closures.
7. Route traffic to the newly constructed eastbound Ramp B and Ramp C portion of Mountain Parkway and construct the remaining gap in eastbound Mountain Parkway construction.
8. Construct a temporary cross over west of newly constructed eastbound bridge to carry traffic from existing Mountain Parkway to newly constructed eastbound Mountain Parkway.
9. Construct a temporary cross over to connect newly constructed eastbound Mountain Parkway to the existing westbound exit ramp to maintain traffic in Phase III.

Phase II

1. Route traffic to the newly constructed eastbound portion of Mountain Parkway.
2. Construct the new proposed westbound bridge over KY 191. Maintain traffic on the eastbound Mountain Parkway and cross overs constructed west and east of the newly constructed bridge.
3. Construct the proposed westbound Mountain Parkway roadway. Leave a gap in the construction for the existing westbound exit ramp.
4. Construct Ramp D and tie into westbound Mountain Parkway construction and KY 191. Leave a gap in construction for the existing westbound KY 191 exit ramp.
5. Construct Ramp E and tie into westbound Mountain Parkway construction and KY 191.
6. Temporarily close the existing westbound exit ramp and cross over to finish construction along Ramp D and proposed westbound Mountain Parkway.

Phase III

1. Route traffic to the newly constructed westbound and eastbound Mountain Parkway roadway and newly constructed ramps. All lanes shall be open during non-working hours.
2. Construct the proposed Mountain Parkway west of the bridges using part-width construction and shifting traffic onto outside lanes.

Phase IV

1. Place final surface course over Mountain Parkway and the ramps under traffic.

Mountain Parkway - KY 1010 Interchange Alternate #2

Phase I

Maintain traffic on existing Mountain Parkway while constructing the following:

1. Construct the proposed eastbound Mountain Parkway roadway. Leave a gap in the construction for the existing eastbound entrance and exit ramps and KY 1010.
2. Construct KY 1010 bridge over Mountain Parkway.
3. Construct Ramps A, B, and C while maintaining traffic on existing ramps and KY 1010. Construct temporary crossover from existing Mountain Parkway to Ramps A and B.
4. Construct KY 1010, maintaining at least one direction of traffic at all times. Construct Ramps D, E, and F. Utilize temporary pavement as necessary to maintain traffic on existing ramps.
5. Utilize temporary crossover from westbound Mountain Parkway to Ramps A and B. Construct remainder of eastbound Mountain Parkway. Construct temporary crossover from eastbound Mountain Parkway to Ramps D and E.

Phase II

1. Route traffic over the newly constructed eastbound portion of Mountain Parkway. Utilize temporary crossover from eastbound Mountain Parkway to Ramps D and E.
2. Construct proposed westbound Mountain Parkway roadway.

Phase III

1. Place final surface course over Mountain Parkway and the ramps under traffic.



2517 Sir Barton Way
Lexington, Kentucky 40509
859.629.4800
hdrinc.com

We practice increased use of sustainable materials and reduction of material use.

© 2014 HDR, Inc., all rights reserved.

