

County	Route	Beginning MP	Beginning Feature	Ending MP	Ending Feature	Length	Functional Class	State System	NHS ?	NTN ?	Truck Weight Class	# of Through Lanes	Lane Width (ft)	Shoulder Width (ft)	Percent Passing Sight Distance >1500 ft
WOLFF	KY 15S	0.000	W 101W 15	0.405		0.405									lacksquare
WOLFE	KY 155		KY 191/KY 15	0.195		0.195	Duin ain al Antanial	State Primary (Other)	Ιγ	F	AAA	2	12	10	60
		0.195		0.935	Manustain Bastanan Organia	0.740	Principal Arterial	State Primary (Other)	1	Г	AAA	2	12	10	60
		0.935		1.045	Mountain Parkway Overpass	0.110									
WOLFE	KY 15	0	Breathitt County Line	1.732	KY 1261	1.732									
VVOLFE	KT 15	1.732	KY 1261	8.870	Elkins Road	7.138	Principal Arterial	State Primary (Other)	Y	F	AAA	2	12	10	60
		8.870	Elkins Road	9.515	KY 191 and KY 15S	0.645	Fillicipal Attellal	State Filliary (Other)	1	1	$\Delta\Delta\Delta$	2	12	10	0
,		0.070	EIKIIIS ROad	9.515	RT 191 allu RT 193	0.043								,	U
BREATHITT	KY 15	0.000	Perry County Line	5.989	1.75 mile south of KY 476	5.989									
DICEXTITUTE	10	5.989	1.75 mile south of KY 476	7.737	KY 476	1.748									
		7.737	KY 476	8.330	0.6 miles north of KY 476	0.593		State Primary (Other)					11		40
		8.330	0.6 miles north of KY 476	8.837	Begin 12' wide lanes	0.507								10	
		8.837	Begin 12' wide lanes	14.644	KY 1089/KY 1812	5.807									35
		14.644	KY 1089/KY 1812	16.329	Roark Ridge Road	1.685			Y			2			40
		16.329	Roark Ridge Road	17.446	KY 1812E	1.117	Principal Arterial			F	AAA		120		0
		17.446	KY 1812E	17.936	KY 1812	0.490								4	0
		17.936	KY 1812	18.465	KY 30	0.529							12		0
		18.465	KY 30	21.052	Begin 4 Lanes	2.587								10	25
		21.052	Begin 4 Lanes	24.475	Resume 2 Lanes	3.423						4		12	
		24.475	Resume 2 Lanes	26.446	Wolfe County Line	1.971						2		10	90
PERRY	KY 15	14.512	Morton Bl∨d	15.968	KY 267	1.456						3/4/3		4	61
		15.968	KY 267	16.798	Capitol Hill Dri∨e	0.830									
		16.798	Capitol Hill Dri∨e	20.335	0.4 miles south of KY 28	3.537	Principal Arterial	State Primary (Other)	Y	F	AAA	2	12	6	43
		20.335	0.4 miles south of KY 28	25.179	Breathitt County Line	4.844									

Table A-1, Part 1: Existing Conditions

County	Route	Beginning MP	Beginning Feature	Ending MP	Ending Feature	Median	Access Control	Annual Tons of Coal	Latest ADT	Year of Latest ADT	Traffic Growth Rate	Unrounded Forecast 2035 ADT	Forecast 2035 ADT	CCRF*	Composite Adequacy Rating	Composite Adequacy Rating Percentile					
WOLFE	KY 15S	0.000	KY 191/KY 15	0.195		15' Raised Mountable				121000		160.00	20222	51216.51	2220						
		0.195		0.935		None	None	460,324 northbound 6,77	6,776	2,009	1.00%	8,777	8,800	0.308	95.00	74.84					
		0.935		1.045	Mountain Parkway Overpass	30' Depressed															
MOLEE	107.45	0	December 1 in a	4.700	1/1/ 4004			and the same of th	44.00	2000	0.500/	4.700	4.000	0.400	00.00	47.04					
WOLFE	KY 15	0	Breathitt County Line	1.732	KY 1261	None	None	461641 norhbound	4183	2009	0.50%	4.762	4,800	0.426	89.60	47.84					
		1.732	KY 1261	8.870	Elkins Road	T) 6 (I T)			5358	2010	0.00%	5.358	5,400	0.393	92.30	63.18					
		8.870	Elkins Road	9.515	KY 191 and KY 15S	TWLTL			6905	2011	0.00%	6,905	6,900	1.041	76.25	14.87					
BREATHITT	KY 15	0.000	Perry County Line	5.989	1.75 mile south of KY 476			634,119 northbound	5943 6057	2010	1.00%		7,600	0.351							
		5.989	1.75 mile south of KY 476	7.737	KY 476	None		954,055 southbound		2011	1.00%	7,621	7,600	0.239	89.60	47.84					
		7.737	KY 476	8.330	0.6 miles north of KY 476			465.008 northbound	6580	2009	0.50%	7,491	7,500	0.555	-55115.5						
		8.330	0.6 miles north of KY 476	8.837	Begin 12' wide lanes		None	,	20000000	10000000	0.50%	3.5.07(0)	17.30.00	0.208							
		8.837	Begin 12' wide lanes	14.644	KY 1089/KY 1812			-	7480	2010	0.50%	8,473	8,500	0.364	81.10	24.21					
		14.644	KY 1089/KY 1812	16.329	Roark Ridge Road			None		9269	2011	0.50%	10,448	10,500	0.369	88.55	41.11				
		16.329	Roark Ridge Road	17.446	KY 1812E				622,946 northbound	12624 18261	2009	0.50%	14,372	14,400	1.202	53.50	0.55				
		17.446	KY 1812E	17.936	KY 1812	14				2011	0.50%	20,583	20,600	1.672	51.20	0.37					
		17.936	KY 1812	18.465	KY 30				16422	2009	1.00%	21,271	21,300	1.151	51.20	0.57					
		18.465	KY 30	21.052	Begin 4 Lanes	None		466.274 northbound	10422	2009	0.50%	18,696	18,700	0.247							
l,		21.052	Begin 4 Lanes	24.475	Resume 2 Lanes	32		400,27 4 Hortifibouriu	4183	2009	0.50%	4,762	4.800	0.322	92.30	63.18					
		24.475	Resume 2 Lanes	26.446	Wolfe County Line	None		461,641 northbound	4103	2009	0.50%	4,702	4,000	0.314							
PERRY	KY 15	14.512	Morton Bl∨d	15.968	KY 267			377,174 northbound	18,400	2011	2.00%	29,595	29,600	2.034	54.70	0.64					
		15.968	KY 267	16.798	Capitol Hill Drive			578,383 northbound 2,076,326 southbound	11,390	2,009	2.00%	19,060	19,100	0.609							
		16.798	Capitol Hill Drive	20.335	0.4 miles south of KY 28	None None 592 9540		None	None	None	None	None	592,721-648,454 northbound 954055-1,771,527 southbound	11,000	2,000	0.75%	13,832	13,800	0.821	76.00	14.81
		20.335	0.4 miles south of KY 28	25.179	Breathitt County Line		1,089,329 northbound 1,205,073 southbound	8013	2011	1.00%	10,174	10,200	0.349								

Table A-1, Part 2: Existing Conditions

APPENDIX B PROJECT TEAM MEETING MINUTES

AGENDA

Project Team Meeting #1 KY 15 Programming Study Breathitt, Perry, and Wolfe Counties

Date: April 12, 2012 Time: 10:00 a.m.

Location: KYTC District 10, Jackson, KY

- I. Introductions
- II. Work Accomplished Prior to This Meeting
 - a. Traffic Forecasts
 - i. Analysis Sections Identified
 - ii. Growth Rates for Each Section Approved by KYTC
 - b. Consultants Who Performed Prior Planning, Environmental, and Design
 - i. WMB
 - ii. GRW
 - iii. Vaughn & Melton
 - iv. THE Engineers
- III. Purpose of This Meeting: Summary of Previous Work
- IV. Next Steps
 - a. Obtain and compile HIS data, traffic data, crash data
 - b. Calculate current and future year V/C ratios
 - c. Project team meeting to present and discuss this information







MEETING MINUTES

Engineering

Construction

Project: Programming Study for KY 15 Breathitt, Perry, and Wolfe Counties

Mountain Parkway Interchange in Wolfe County to MP 16.8 in Perry County

Purpose: Project Team Meeting #1

Place: District 10 - Jackson

Meeting Date: April 12, 2012

10:00 a.m. EST

Prepared By: Annette Coffey

In Attendance: Jill Asher KYTC, Division of Planning

Shane Tucker

KYTC, Division of Planning

Corbett Caudill

KYTC, District 10 – Jackson

Jason Blackburn

KYTC, District 10 – Jackson

Keith Caudill KYTC, CO Highway Design

Eunice Holland Kentucky River Area Development District

Taylor Kelly Qk4
Annette Coffey Qk4
Bruce Siria Qk4

The objective of the meeting was to present a summary of work that was previously performed on this corridor. The meeting started with introductions and meeting handouts consisting of: an agenda, spreadsheet of annual growth rates to be used for future tasks, a corridor map divided into sections, and maps of preferred and previously studied alignments within the corridor, and detailed information regarding previous work performed on each section. For district use, flash drives were given to the Project Manager with the presented information and appropriate design files. The meeting was turned over to Bruce Siria with Qk4 to present a summary of previous corridor efforts and Qk4 work to date.

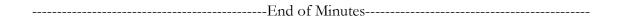
KY 15 Programming Study Breathitt, Perry, and Wolfe Counties April 12, 2012 Project Team #1 Meeting Minutes Page 2 of 2

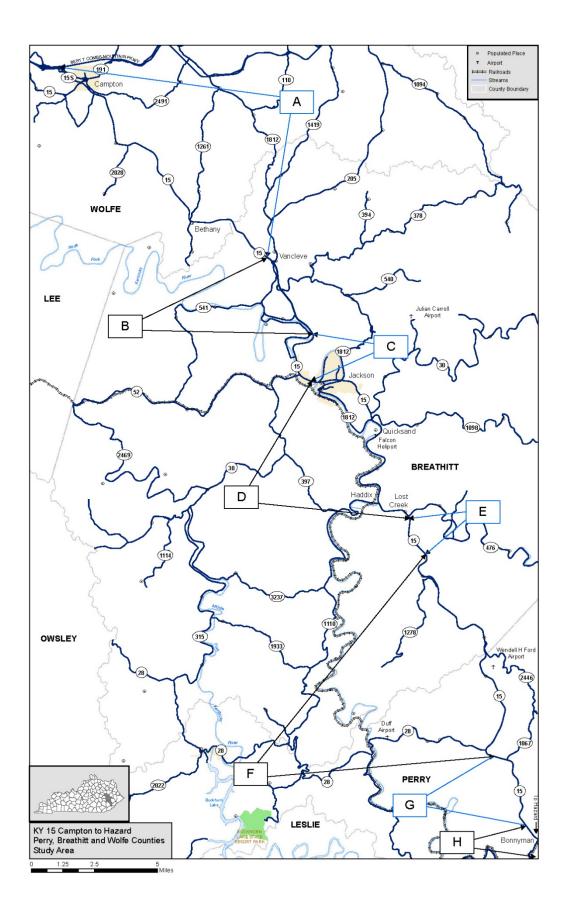
Mr. Siria began his presentation with recognition and appreciation of WMB, GRW, Vaughn & Melton, and THE Engineers for their cooperation in providing Qk4 with the information necessary to complete this task. One of the early tasks for Qk4 was to divide the corridor into logical sections, and propose growth rates to the Division of Planning. Those rates were presented in tabular form and ranged from 0% in Wolfe County to 1.0% in Perry County. Then, each corridor section was presented in detail (see minute attachments).

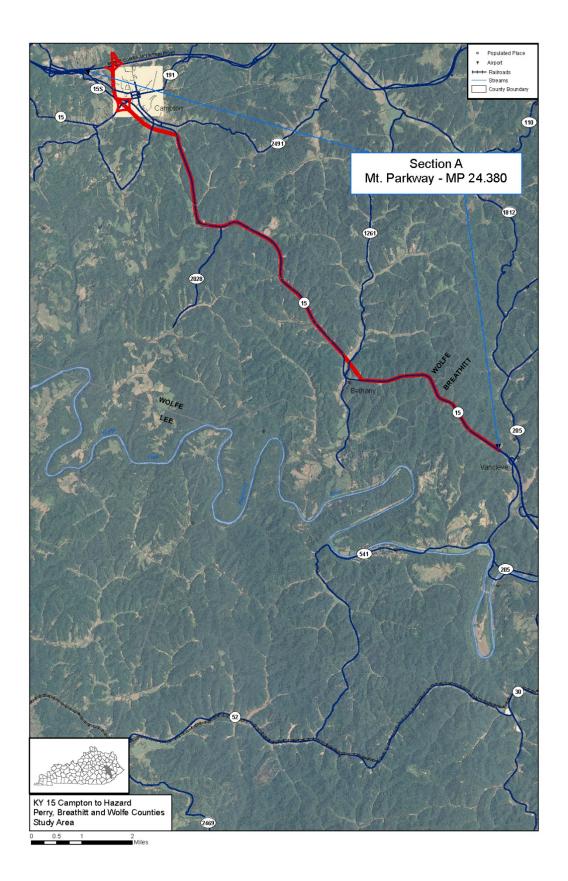
Comments during the presentation regarding sections are summarized below:

- 1. Section D there is a current UPL project to widen only KY 15 through Jackson. Local officials support widening KY 15 through town regardless of whether a bypass constructed.
- 2. To be consistent with constructed sections of KY 15, the design speed for each section should be 60 mph. The typical section for the four-lane constructed segments has a 40 feet separation between directions. The 40 feet is measured from inside white line to inside white line. To be consistent, this should be the maximum typical section for any new improvements investigated.
- 3. Barrier walls should be considered as typical section modifications are considered.
- 4. The sections from Jackson (Section D) south should be the focus of Qk4 future work.
- 5. In Jackson, widening the existing, and an alignment to the east rather than west should be investigated. The previously proposed eastern alignment has very expensive bridge costs in the first mile.
- 6. Qk4 should concentrate on construction sections of \$40 million or less. To achieve that goal, the district felt that staying close to the existing alignment will have to be re-evaluated.
- 7. Any focus on Section A should be below the two interchanges. In addition, a bypass of Campton and new interchange with the Mt. Parkway is not desirable and should not be considered.
- 8. Access control will be an issue if improvements are proposed along the existing roadway.
- 9. This route provides important regional connectivity from US 23 to the Mountain Parkway.

The next steps for Qk4 will be to present capacity analysis, traffic projections, and crash analysis. District personnel requested that the aforementioned analyses presentation be deferred to the same meeting where new improvements options considering "practical solutions" or other design revisions with corresponding cost estimates for widening of KY 15 are presented.







SECTION A

NORTHERN TERMINUS:

MT. PARKWAY EXIT 43, WOLFE COUNTY 0.6 MILES NORTH OF KY 205 (MP 24.010), BREATHITT COUNTY SOUTHERN TERMINUS:

LENGTH: 12.63 MILES

ITEM NUMBER: NONE

LATEST PLANNING/DESIGN WORK: WMB OVERALL CORRIDOR STUDY - 1994

ENVIRONMENTAL OVERVIEW FROM WMB STUDY LATEST ENVIROMENTAL STATUS:

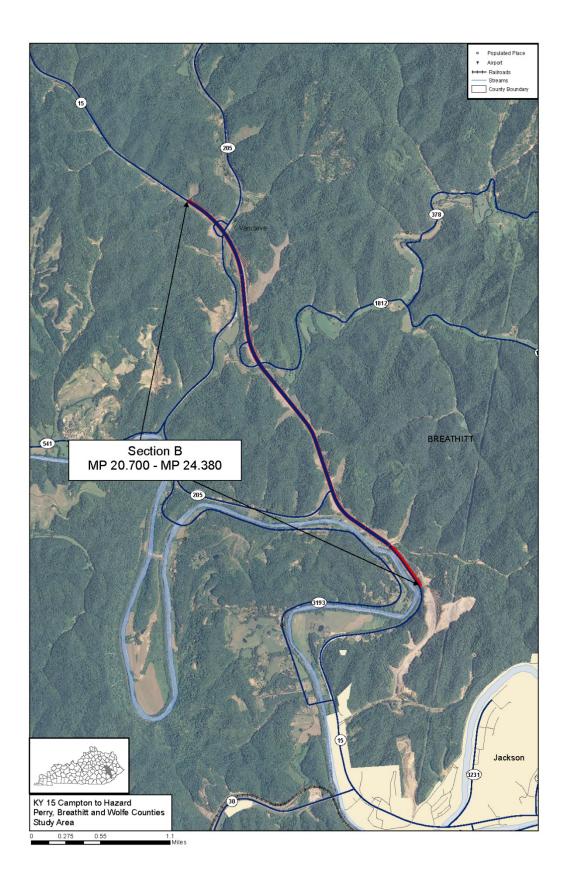
RECOMMENDATION: IMPROVEMENTS TO EXISTING CORRIDOR EXCEPT

CAMPTON BYPASS

PROPOSED TYPICAL SECTION: 4 12' LANES, 10' PAVED SHOULDER, 40' DEPRESSED MEDIAN

	1994 COST ESTIMATE	RESIDENTIAL RELOCATIONS	OTHER RELOCATIONS	CEMETERIES	TOTAL PARCELS	OTHER
RECOMMENDED ALTERNATIVE (EXISTING CORRIDOR)	\$126.3 MILLION	62	34	0	163	LOCAL OFFICIALS STRONGLY PREFERRED THAT CAMPTON NOT BE BYPASSED
ALTERNATES D, E, AND F	\$153.1 MILLION	79	8	1	129	NECESSITATES BYPASS OF CAMPTON, NEW INTERCHANGE ON MOUNTAIN PARKWAY AND MAY IMPACT WATER OLIGITY OF CAMPTON LAKE

F	ROM	ТО		Traffic Forecast and	Latest Actual Count	Future Annual Traffic
MP	DESCRIPTION	MP	DESCRIPTION	Year From Previous Work	and Year	Growth Percentage Approved by KYTC
0.000	KY 15	1.045	Mt. Parkway Exit 43	8600 (2015)	6776 (2009)	1.00%
8.235	Swift Camp Creek Rd	9.515	KY 15S/KY 191	8700 (2015)	5358-6905 (2010-11)	0.00%
1.732	KY 1261N in Wolfe County	8.235	Swift Camp Creek Rd	4500-5400 (2015)	5358 (2010)	0.00%
24.380	0.6 miles north of KY 205	1.732	KY 1261N in Wolfe County	5500 (2015)	4183 (2009)	0.50%



SECTION B

NORTHERN TERMINUS:

0.6 MILES NORTH OF KY 205 (MP 24.010), WOLFE COUNTY JUST SOUTH OF KENNY KING RD (MP 20.700), BREATHITT COUNTY **SOUTHERN TERMINUS:**

LENGTH: **3.68 MILES**

ITEM NUMBER: 270.87; 270.97

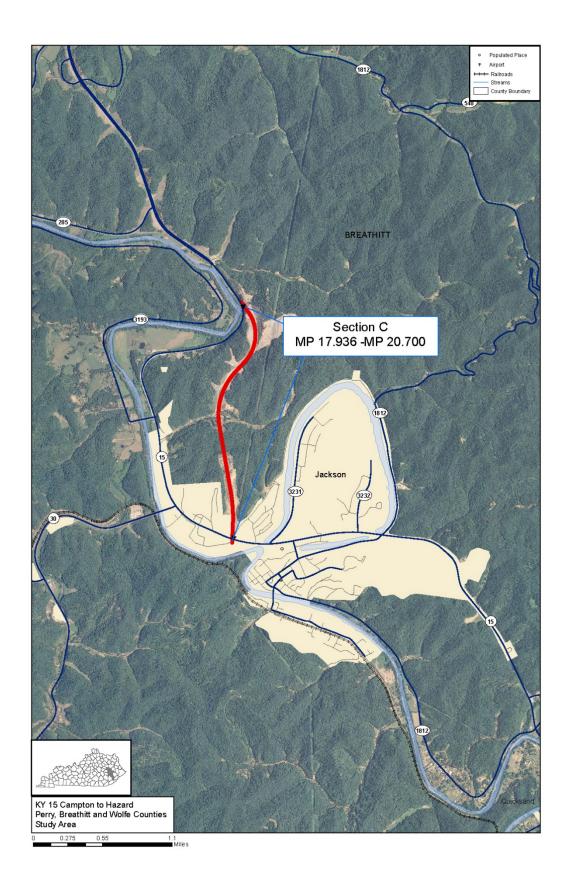
LATEST WORK: RECONSTRUCTED IN 2007-2008

TYPICAL SECTION: 4 12' LANES, 10' PAVED SHOULDER, 40' DEPRESSED MEDIAN

TRAFFIC DATA:

LATEST COUNT: 6983 (2010) 7260 (2011) 9700 LATEST ESTIMATE: 2025 FORECAST ADT:

GROWTH RATE USED IN DESIGN PLANS: 1.65% ANNUALLY



SECTION C

JUST SOUTH OF KENNY KING RD (MP 20.700) BREATHITT COUNTY JUNCTION WITH EXISTING KY 15 @ PANBOWL ROAD (MP 17.936) **NORTHERN TERMINUS:** SOUTHERN TERMINUS:

LENGTH: **2.76 MILES**

ITEM NUMBER: 270.60; 270.67; 270.70; 270.77

LATEST WORK: UNDER CONSTRUCTION NOW

4 12' LANES, 10' PAVED SHOULDER, 40' DEPRESSED MEDIAN TYPICAL SECTION:

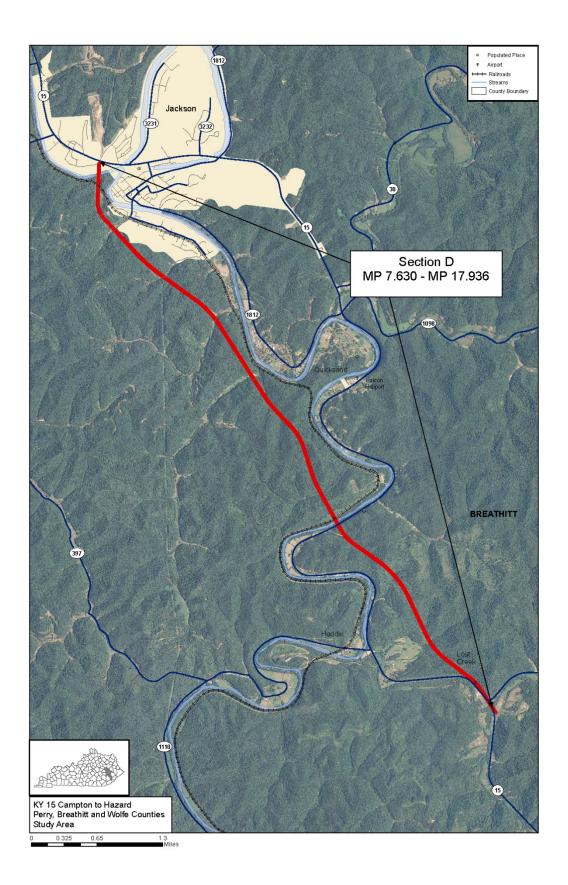
TRAFFIC DATA:

LATEST TRAFFIC ESTIMATE:

5600 (2010) 6000 (KYTC TRAFFIC FORECAST) 2020 FORECAST ADT:

16,850 (KYTC DESIGN PLANS) **GROWTH RATE USED:** 1.00% (KYTC TRAFFIC FORECAST)

1.60% (KYTC DESIGN PLANS)



SECTION D

JUNCTION WITH EXISTING KY 15 @ PANBOWL ROAD (MP 17.936) 575 FEET SOUTH OF KY 476 NEAR HADDIX (MP 7.63) **NORTHERN TERMINUS:**

SOUTHERN TERMINUS:

LENGTH: **10.3 MILES**

ITEM NUMBER: 270.11

LATEST PLANNING/DESIGN WORK: WMB ESTIMATES PHASE II DESIGN WAS 50% COMPLETE

LATEST ENVIROMENTAL STATUS: EA FONSI MAY, 2000

RECOMMENDATION IN EA: ALTERNATE 2

• SHORTEST STRUCTURE TO SPAN NORTH FORK OF KY

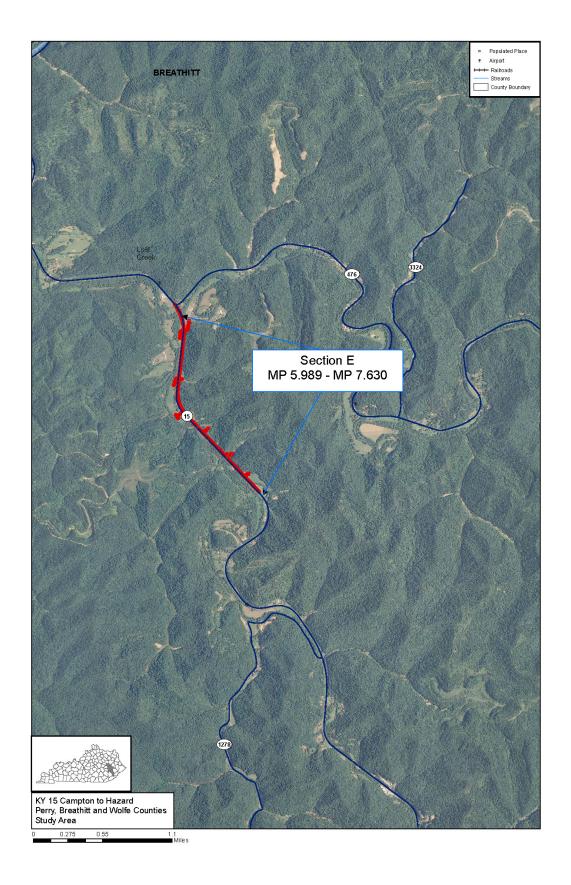
RIVER

• LESS POTENTIAL STABILITY PROBLEMS

• LOCAL OFFICIALS PREFERRED THIS ALTERNATIVE

PROPOSED TYPICAL SECTION: 4 12' LANES, 10' PAVED SHOULDER, 40' DEPRESSED MEDIAN

	1999 COST ESTIMATE (MILLIONS)	RESIDENTIAL RELOCATIONS	BUSINESSES	OTHER RELOCATIONS	FEET OF STREAM RECHANNELIZATION REQUIRED	ACRES OF PRIME FARMLAND TAKEN	HAZMAT SITES
RECOMMENDED ALTERNATIVE (ALTERNATIVE 2 IN EA)	\$148.2	51 FIXED, 38 MOBILE	14	11	21,533	23	6
OTHER ALTERNATIVES CONSIDERED (FROM EA)							
ALTERNATIVE 1	\$153.8	51 FIXED, 38 MOBILE	14	11	22,014	21	6
ALTERNATIVE 3	\$157.8	48 FIXED, 32 MOBILE	7	5	21,030	21	6
ALTERNATIVE 4	\$157.0	45 FIXED, 40 MOBILE	14	8	20,472	17	6
ALTERNATIVE 5	\$157.9	48 FIXED, 34 MOBILE	14	5	21,949	21	6
ALTERNATIVE 6	\$159.0	48 FIXED, 38 MOBILE	20	13	22,014	27	10
ALTERNATIVE 7	\$158.3	50 FIXED, 38 MOBILE	14	10	21,456	0	6



SECTION E

NORTHERN TERMINUS: 575 FEET SOUTH OF KY 476 (MP 7.63) SOUTHERN TERMINUS: 1.75 MILES SOUTH OF KY 476 (MP 5.99)

LENGTH: 1.64 MILES

ITEM NUMBER: 285.00

LATEST PLANNING/DESIGN WORK: WMB ESTIMATES PHASE I DESIGN WAS 90% COMPLETE

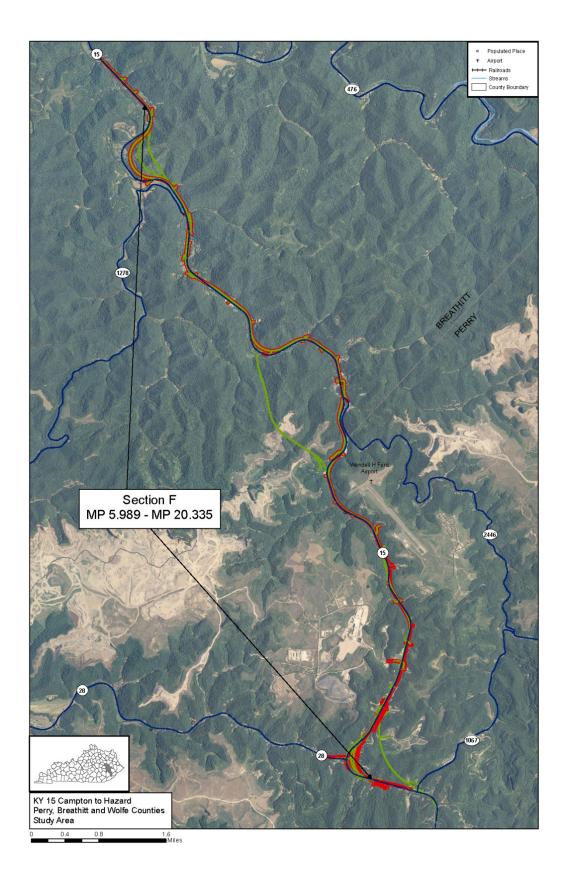
LATEST ENVIROMENTAL STATUS: DRAFT EA JUNE, 1999

RECOMMENDATION IN EA: ALTERNATE 1

PROPOSED TYPICAL SECTION: 4 12' LANES, 10' PAVED SHOULDER, 40' DEPRESSED MEDIAN

ENVIRONMENTAL COMPARISON OF ALTERNATIVES (INCLUDES ITEM 10-286)	RESIDENTIAL RELOCATIONS	BUSINESSES	CEMETERY IMPACTS	FEET OF STREAM RECHANNELIZATION REQUIRED	ACRES OF WETLANDS	HAZMAT SITES					
RECOMMENDED ALTERNATIVE (ALT 9 SOUTH, ALT 1 NORTH)	22 FIXED, 51 MOBILE	13	8	1,469	1.6	5					
OTHER ALTERNATIVES CONSIDERED											
ALTERNATIVE 8	40 FIXED, 63 MOBILE	4	5	8,135	1.2	3					
ALTERNATIVE 9	22 FIXED, 38 MOBILE	5	5	5,855	1.6	2					
ALTERNATIVE 8 SOUTH, ALTERNATE 1 NORTH	53 FIXED, 66 MOBILE	13	8	4,000	1.2	6					
ALTERNATIVE 1	О	CONSIDERED INITIALLY, BUT DISMISSED—EXCEPT WHEN PAIRED WITH ALT 8 OR 9 AT KY15/KY28 INTERSECTION									
ALTERNATIVE 2	CONSIDERED INITIALLY, BUT DISMISSED FROM DETAILED EVALUATION BECAUSE DEFICIENCIES AT KY15/KY28 INTERSECTION NOT ALLEVIATED										
ALTERNATIVE 3	CONSIDERED INITIALLY, BUT DISMISSED FROM DETAILED EVALUATION BECAUSE DEFICIENCIES AT KY15/KY28 INTERSECTION NOT ALLEVIATED										

F	ROM		TO	Traffic Forecast and	Latest Actual Count	Future Annual Traffic
MP	DESCRIPTION	MP	DESCRIPTION	Year From Previous Work	and Year	Growth Percentage Approved by KYTC
5.989	1.75 mile south of KY 476	7.630	575 feet south of KY 476	7,800 (2015)	6.057 (2010)	1.00%



SECTION F

NORTHERN TERMINUS: 1.75 MILES SOUTH OF KY 476 (MP 5.99 BREATHITT CO.) SOUTHERN TERMINUS: 0.40 MILES SOUTH OF KY 28 (MP 20.335 PERRY CO.)

LENGTH: 10.83 MILES

ITEM NUMBER: 286.00

LATEST PLANNING/DESIGN WORK: WMB ESTIMATES PHASE I DESIGN WAS 90% COMPLETE

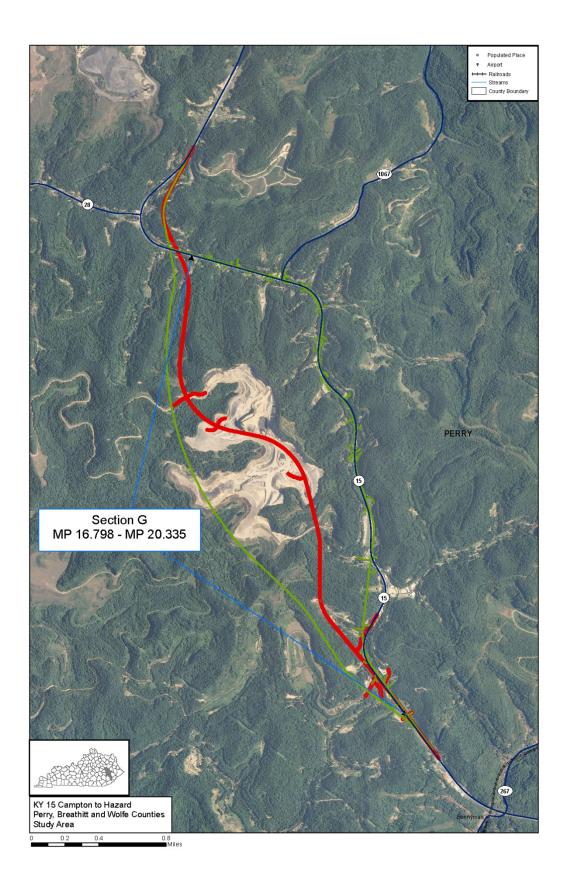
LATEST ENVIROMENTAL STATUS: DRAFT EA JUNE, 1999

RECOMMENDATION IN EA: ALTERNATE 1 SOUTH TO APPROX MP 22.7, THEN ALT 9

PROPOSED TYPICAL SECTION: 4 12' LANES, 10' PAVED SHOULDER, 40' DEPRESSED MEDIAN

ENVIRONMENTAL COMPARISON OF ALTERNATIVES	RESIDENTIAL	BUSINESSES	CEMETERY	FEET OF STREAM	ACRES OF	HAZMAT SITES					
(INCLUDES ITEM 10-285)	RELOCATIONS	DOSINESSES	IMPACTS	RECHANNELIZATION REQUIRED	WETLANDS	HAZIVIAT SITES					
RECOMMENDED ALTERNATIVE (ALT 9 SOUTH, ALT 1 NORTH)	22 FIXED, 51 MOBILE	13	8	1,469	1.6	5					
OTHER ALTERNATIVES CONSIDERED											
ALTERNATIVE 8	40 FIXED, 63 MOBILE	4	5	8,135	1.2	3					
ALTERNATIVE 9	22 FIXED, 38 MOBILE	5	5	5,855	1.6	2					
ALTERNATIVE 8 SOUTH, ALTERNATE 1 NORTH	53 FIXED, 66 MOBILE	13	8	4,000	1.2	6					
ALTERNATIVE 1	C	CONSIDERED INITIALLY, BUT DISMISSED—EXCEPT WHEN PAIRED WITH ALT 8 OR 9 AT KY15/KY28 INTERSECTION									
ALTERNATIVE 2	CONSIDERED IN	CONSIDERED INITIALLY, BUT DISMISSED FROM DETAILED EVALUATION BECAUSE DEFICIENCIES AT KY15/KY28 INTERSECTION NOT ALLEVIATED									
ALTERNATIVE 3	CONSIDERED IN	TIALLY BUT DISMISS	ED FROM DETAILED EVA	LUATION RECAUSE DEFICIENCIES AT K	V15/KV28 INTERSECT	TION NOT ALLEVIATED					

F	ROM		то	Traffic Forecast and	Latest Actual Count	Future Annual Traffic
MP	DESCRIPTION	MP	DESCRIPTION	Year From Previous Work	and Year	Growth Percentage Approved by KYTC
4.047	KY 1278	5.989	1.75 mile south of KY 476	6200 (2015)	6057 (2011)	1.00%
0.529	KY 2446	4.047	KY 1278	7900-10,100 (2015)	5943 (2011)	1.00%
0.000	Perry County Line	0.529	KY 2446 in Breathitt County	7900-10,100 (2015)	5943 (2011)	1.00%
20.735	KY 28 in Perry County	25.179	Breathitt County Line	7900-10,100 (2015)	8013 (2011)	1.00%
20.335	0.4 mile south of KY 28	20.735	KY 28 in Perry County	7900-10,100 (2015)	11390 (2009)	0.75%



SECTION G

0.40 MILES SOUTH OF KY 28 (MP 20.335 PERRY CO.) CAPITOL HILL DRIVE (MP 16.847) **NORTHERN TERMINUS:**

SOUTHERN TERMINUS:

3.54 MILES LENGTH:

ITEM NUMBER: 269.01

LATEST PLANNING/DESIGN WORK: V & M PLANS FOR P L & G INPECTION SUBMITTED OCT 2002

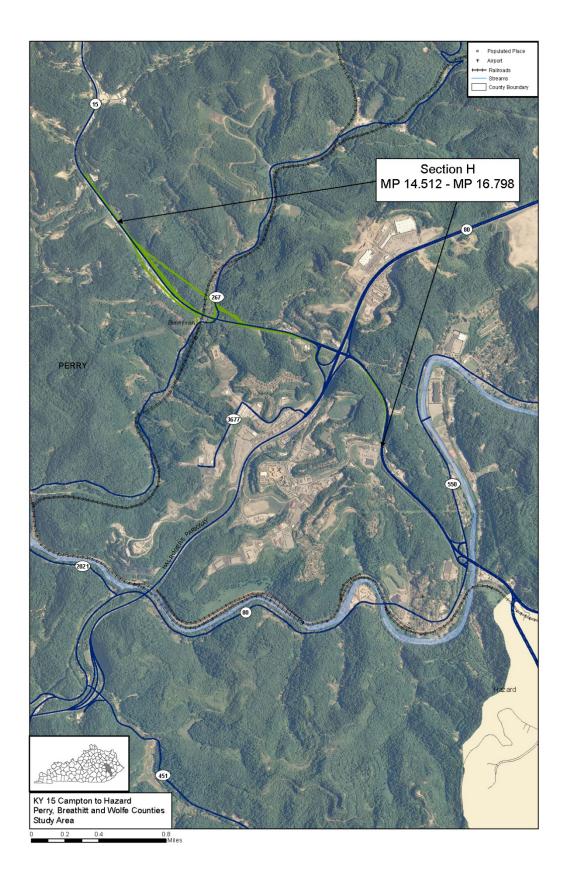
LATEST ENVIROMENTAL STATUS: EA FONSI JUNE, 2004

RECOMMENDATION IN EA: ALTERNATE 2

PROPOSED TYPICAL SECTION: 4 12' LANES, 10' PAVED SHOULDER, 40' DEPRESSED MEDIAN

ENVIRONMENTAL COMPARISON OF ALTERNATIVES (INCLUDES ITEM 10-269.02)	ESTIMATED COST (MILLIONS)	RESIDENTIAL IMPACTS	BUSINESS IMPACTS	CHURCH IMPACTS	CEMETERY IMPACTS	FEET OF STREAM RECHANNELIZATION REQUIRED	ACRES OF WETLANDS	HAZMAT SITES
RECOMMENDED ALTERNATIVE (ALTERNATIVE 2 IN EA)	\$56.9 (UPDATED TO \$58.4 IN 2008)	36	6	2	2	3,,750	0.92	2
OTHER ALTERNATIVES CONSIDERED								
ALTERNATIVE 1	\$69.4	26	0	1	4	5,610	3.05	2
ON EXISTING ALIGNMENT	\$52.6	95	15	0	2	10,338	0.2	6

F	FROM		ТО		Latest Actual Count	Future Annual Traffic	
MP	DESCRIPTION	МР	DESCRIPTION	Year From Previous Work	and Year	Growth Percentage Approved by KYTC	
16.798	Capitol Hill Drive	20.335	0.4 mile south of KY 28	11,510 (2025)	8013 (2011)	0.75%	



SECTION H

NORTHERN TERMINUS: CAPITOL HILL DRIVE (MP 16.847)
SOUTHERN TERMINUS: MORTON BLVD (MP 14.512)

LENGTH: 2.34 MILES

ITEM NUMBER: 269.02 (PREVIOUS); 159.00 (NEW HIGHWAY PLAN)

LATEST PLANNING/DESIGN WORK: R/W PLANS SUBMITTED IN OCT, 2003

LATEST ENVIROMENTAL STATUS: EA FONSI JUNE, 2004

RECOMMENDATION IN EA: IMPROVE EXISTING ALIGNMENT

PROPOSED TYPICAL SECTION: 4 12' LANES, 6' PAVED SHOULDER, 14' FLUSH MEDIAN

ENVIRONMENTAL COMPARISON OF ALTERNATIVES (INCLUDES ITEM 10-269.01)	ESTIMATED COST (MILLIONS)	RESIDENTIAL IMPACTS	BUSINESS IMPACTS	CHURCH IMPACTS	CEMETERY IMPACTS	FEET OF STREAM RECHANNELIZATION REQUIRED	ACRES OF WETLANDS	HAZMAT SITES
RECOMMENDED ALTERNATIVE (ON EXISTING ALIGNMENT)	\$52.6	95	15	0	2	10,338	0.2	6
OTHER ALTERNATIVES CONSIDERED ALTERNATIVE 1	\$69.4	26	0	1	4	5,610	3.05	2
ALTERNATIVE 2	\$56.9	36	6	2	2	3750	0.92	2

FROM		ТО		Traffic Forecast and	Latest Actual Count	Future Annual Traffic
MP	DESCRIPTION	МР	DESCRIPTION	Year From Previous Work	and Year	Growth Percentage Approved by KYTC
14.512	Morton Blvd	16 798	Capitol Hill Drive	22300 (2020)	17830 (2008)	2.00% (KYTC forecast dated Mar 2002)

AGENDA

Project Team Meeting #2 KY 15 Programming Study Breathitt, Perry, and Wolfe Counties

Date: October 24, 2012

Time: 1:30 p.m.

Location: KYTC District 10, Jackson, KY

- I. Purpose of This Meeting:
 - a. Discuss 2012 Cost Estimates by Section
 - i. As originally proposed
 - ii. New corridor in Section D
 - iii. Along existing alignment in Sections D and G
 - iv. Alternative geometrics and pavement design
 - b. Discussion of KY 28 Intersection
 - c. Project Team Decides Which Concepts to Segment
- II. Next Steps
 - a. Segment Alternatives Recommended by Project Team
 - b. Cost Estimates Prepared for Each Segment
 - c. Priority Segments Recommended to Project Team







MEETING MINUTES

Engineering

Construction

Project: Programming Study for KY 15 Breathitt, Perry, and Wolfe Counties

Mountain Parkway Interchange in Wolfe County to MP 16.8 in Perry County

Purpose: Project Team Meeting #2

Place: District 10 - Jackson

Meeting Date: October 24, 2012

1:30 p.m. EDT

Prepared By: Bruce Siria

In Attendance: Jill Asher KYTC, Division of Planning

Sreenu Gutti

KYTC, Division of Planning

Steve Ross

KYTC, Division of Planning

KYTC, Division of Planning

KYTC, District 10 – Jackson

Darren Back

KYTC, District 10 – Jackson

KYTC, District 10 – Jackson

KYTC, District 10 – Jackson

Aric Skaggs KYTC, District 10 – Jackson Min Jiang KYTC, District 10 – Jackson

Eunice Holland Kentucky River Area Development District

Annette Coffey Qk4
Duffy Ford Qk4
Bruce Siria Qk4

Jason Blackburn noted that this was the second official project team meeting on the KY 15 Planning Study (the meeting on August 20 being an informal, interim discussion) and that the end purpose of the study was to prepare a summary notebook that would be useful both to District 10 personnel not familiar with previous work on KY 15 and to stress to external stakeholders the importance of the corridor.

Relevant central office and district personnel changes were announced. Sreenu Gutti will take over as central office coordinator for this study. Jill Asher is transferring to the Division of Highway Design effective

KY 15 Programming Study Breathitt, Perry, and Wolfe Counties October 24, 2012 Project Team #2 Meeting Minutes Page 2 of 3

November 1. Mikael Pelfrey will assume Jill's duties as leader of the Corridor Planning Team in the Division of Planning. Aric Skaggs was introduced as the new Branch Manager for Project Development in District 10. Min Jiang and Brent Weddington of D-10 were also introduced.

Darren Back asked if WMB had shared an inspection report documenting why the "Westside of Jackson" corridor was preferred. Bruce Siria answered in the negative, indicating that Qk4 only had the EA FONSI for that segment. Jason indicated that the public and local officials had indicated concerns with a "Westside" alternative. (Note: The EA FONSI indicates that the preferred alignment within the "Westside of Jackson" corridor was recommended "after consideration of public input, environmental impacts, and transportation objectives". The preferred alignment was also 3 to 7 percent less costly than others considered.)

Bruce then narrated a brief PowerPoint presentation focusing on KY 15 corridor sections D, E, F, and G, including new corridors in Section D and an along existing Section G alternative. The cost estimates for the KY 15 junction at KY 28 included a diamond interchange; further cost savings would be possible with a modification there. Regardless, the existing KY 15 intersection with KY 28 should be relocated. The project team recommended that the interchange option continue to be included.

Jason commented that Section D was the most troublesome for the district office. "Westside" corridor has no tie-down points for construction segmentation, and connectors back to existing KY 15 necessitate crossing (or even relocating) the river. "Eastside" corridor is more attractive from that perspective.

The project team suggested unit costs of \$75,000 per house and \$500 per acre (in the 'cross-country' options). Right-of-Way and utility relocation costs will be developed by District 10. District staff asked Qk4 to provide Right-of-Way acreage, number of business/residential relocations, and disturb limits.

The current Qk4 cost estimates include the KY 15/KY 28 interchange in Section F. It will be moved to the estimate for Section G to mesh with the previous design work on Section G. (Note: The KY 15/KY 28 junction was included in the prior work for Section F, but later work for Section G also included that location.)

Possible construction segmentation for study sections was discussed:

No segmentation of sections E or G was needed.

For section F, the following general segments were suggested:

- 1. From MP 21.504 to the northern airport entrance road (MP 23.813) {2.3 miles}
- 2. From MP 23.813 to beginning of tangent section at MP 2.6 {4.0 miles}
- 3. From MP 2.6 to the northern end of Section F (MP 5.989) {3.4 miles}

KY 15 Programming Study Breathitt, Perry, and Wolfe Counties October 24, 2012 Project Team #2 Meeting Minutes Page 3 of 3

For section D, there is no need to try to segment the "Westside" option. For the "Eastside" option, and for the option along the existing alignment, various combinations of the two were suggested.

The project team reiterated that Qk4 was not to further examine a 30-foot median option, although the work Qk4 has done to date may be included in the final report. Barrier wall options are to be included in the segment cost estimates to ascertain the level of right-of-way savings that option may provide. The project team indicated that pavement design options did not need to be considered in the segment cost estimates.

At the next meeting, Qk4 will present cost estimates by project development phase for the segments described above. Qk4 will also present a cost estimate by phase for section A (Vancleve to Campton). Finally, Qk4 will recommend a priority order for KY 15 improvement segments and its rationale for those recommendations.

The meeting concluded at approximately 3:00	p.m.
	End of Minutes

AGENDA

Project Team Meeting #3 KY 15 Programming Study Breathitt, Perry, and Wolfe Counties

Date: January 16, 2013

Time: 10:30 a.m.

Location: KYTC District 10, Jackson, KY

- I. Purpose of This Meeting:
 - a. Discussion of Priority Segments
- II. Next Steps
 - a. Letter Agreement Extension
 - b. Submission of Draft Report
 - c. Schedule







Architecture

Engineering

Construction

MEETING MINUTES

Project: Programming Study for KY 15 Breathitt, Perry, and Wolfe Counties

Mountain Parkway Interchange in Wolfe County to MP 16.8 in Perry County

Purpose: Project Team Meeting #3

Place: District 10 - Jackson

Meeting Date: January 16, 2013

10:30 a.m. EDT

Prepared By: Annette Coffey

In Attendance: Sreenu Gutti KYTC, Division of Planning

Steve Ross KYTC, Division of Planning

Jason Blackburn KYTC, District 10 – Jackson

Darren Back KYTC, District 10 – Jackson

Brent Weddington KYTC, District 10 – Jackson

Aric Skaggs KYTC, District 10 – Jackson

Min Jiang KYTC, District 10 – Jackson

Michael D. Miller Kentucky River Area Development District

Eunice Holland Kentucky River Area Development District

Annette Coffey Qk4

Duffy Ford Qk4

Bruce Siria (teleconference) Qk4

Jason Blackburn noted that this was the third official project team meeting on the KY 15 Planning Study. At this meeting Qk4 was to present their recommendations for priorities for the project based on input from the previous meetings, existing and future conditions. At that point, he turned the meeting over to Annette Coffey of Qk4.

Annette provided an agenda, a summary of the process for establishing the recommended priorities for KY 15 improvements, a spreadsheet containing KY 15 segments and a priority for each,

KY 15 Programming Study Breathitt, Perry, and Wolfe Counties January 16, 2013 Project Team #3 Meeting Minutes Page 2 of 3

recommended by Qk4 and a summary map. Each is attached for reference. The main considerations in establishing the priorities were current LOS, crash history, and existing and projected traffic. She then led the group through each priority section 1-12.

The following were items to be clarified, or noted:

- Show in the Recommended Priorities spreadsheet for Priority 1 the breakout of rural and urban.
- Insert in the column "Estimated Future Daily Traffic" the Design Year 2035
- For Priority 9 Section A Segment 3, we may want to consider stopping the curb and gutter at the new elementary school (KY 3355). Include this comment in the final report and an estimated difference in cost per mile between a 5-lane rural and a 5-lane curb and gutter section.
- Clarify the difference in costs between Priority 8 and Priority 10 both on the spreadsheet and in the final report. Even though Section 10 is shorter it is \$34 Million, higher in construction costs. Much of the difference is due to a \$15.1 million structure. This will be clarified in the final report.
- Add a column stating at what point in the past this section was taken to e.g. through Phase I design and an approved final environmental document.
- Include the sections B and C so as not to leave any sections out.
- A clarification was asked on the footnote on the spreadsheet which states "Priority 10 is currently LOS E. If Priority 1 were to be constructed before Priority 8 the LOS would be B." Several were concerned this would hamper chance of the final segment of the bypass ever being constructed.
- Qk4 was asked to send the draft Purpose and Need for the project out to everyone at the meeting for review and comment.
- Mr. Miller stated that the 80 miles from Campton to Whitesburg is the most important road in the area and it carries a considerable amount of the commercial traffic.
- It was requested that Qk4 either develop another spreadsheet or add to the existing spreadsheet what other alignments were studied and add comments as to why they were not selected e.g. D West.
- In the final report, Qk4 should include the fact that much of Segment G was years ago recommended on new alignment. Even though it may be cheaper to go along the existing, KYTC will have to make a decision whether it is prudent to stay with the previous cross country alignment or back up and go along the existing KY 15.

Jason stated that the District will take the recommended priorities under advisement and they look forward to a final report. A time extension may be necessary to complete the final report. Qk4 was asked by Steve Ross, to submit a letter to Mikael Pelfrey of Central Office Planning outlining the reasons for the extension. Qk4 will submit minutes of the meeting to everyone at the meeting for comment, and will submit a draft report within 60 days.

KY 15 Programming Study Breathitt, Perry, and Wolfe Counties January 16, 2013 Project Team #3 Meeting Minutes Page 3 of 3

To ensure that KY 15 operates as intended in the goals of the project, access control will be very important when implementing segments of KY 15. Each alternative studied and updated for costs with this study effort, was estimated as partial control of access with minimum spacing in rural areas of 1200' and urban (through Jackson) 600 feet. Frontage roads were included in the estimates where appropriate and when needed.

The meeting concluded at approximately 12:00 p.m.
End of Minutes

Priorities for improvements to KY 15 in Perry, Breathitt, and Wolfe counties are listed below in 12 stages. Options for combining several of the improvements are listed based on what may be acceptable construction phase costs. KYTC's desire is to complete this project at the earliest practicable date, and this would be facilitated by having the fewest stages possible. However, construction cost levels must be reasonable for future listings as a single project in the KYTC Highway Plan. Criteria for recommending the following 12 priorities include traffic volume served, crash frequency, current level of service (LOS), and continuity of construction segments.

Priorities #1 and #2

The first recommended priority is Segment 3 of Section D along the existing KY 15 alignment. From just south of the shopping center that includes Walmart on the southern city limits of Jackson to just north of the intersection of KY 15 with Miller Hollow Road, a distance of 0.72 miles, the improvement would be a 5-lane rural cross-section. From Miller Hollow Road to the existing construction near Panbowl Road, a distance of 1.53 miles, the improvement would be a 5-lane curb-and-gutter cross-section.

Estimated future year traffic volumes are 21,000 vehicles daily, the highest traffic volumes north of Hazard. The current LOS is E. The critical crash rate factor (CCRF) for this segment ranges from 1.15 to 1.67. The advantages of improving this segment immediately include addressing the most significant current LOS and CCRF issues. However, these improvements would be aimed at what is, in essence, a local street rather than system improvements to KY 15 between the Hal Rogers and Mountain parkways. The principal disadvantage of this recommendation is the possibility that these improvements would be seen as the only ones ever needed along this segment of KY 15. Nonetheless, this recommendation is made to address the traffic and safety issues cited above as well as for the following additional considerations:

- Cost: This improvement is estimated to cost \$24 million. An eastern bypass of Jackson with similar termini is estimated to cost \$82.9 million. The western bypass of Jackson originally proposed is estimated to cost \$133.8 million. (A modified version of the western bypass developed by Qk4 to allow some minor segmenting is estimated to be only slightly less at \$133.1 million.)
- If this segment of the KY 15 system improvements on a Jackson bypass were constructed prior to major improvements between Hazard and Jackson, the newly generated traffic volumes would be small, and the trips using this bypass would simply be current through trips immediately north and south of Jackson. The western bypass, being a shorter distance and hence having a shorter travel time, would likely attract 6,150 vehicles per day. An eastern bypass, being slightly longer and having a slightly greater travel time, would likely attract only 5,100 vehicles per day. This would leave between 14,900 and 15,900 vehicles daily on existing KY 15, resulting in continued congestion and, likely, crash problems.

If Priority #1 were to be constructed, the estimated cost for the construction phase would be only \$16.1 million. Improvements in Priority #1 could be lengthened to a logical construction terminus to

include a more aggressive construction phase. Sections north of Priority #1 are currently under construction or have been constructed. Thus, the second priority would be immediately south of Priority #1. The logical construction segment for Priority #2 would be from the shopping center that includes Walmart on the southern city limits of Jackson to approximately one-half mile south of the intersection with KY 30 East, a distance of 1.47 miles. Estimated future year traffic volumes for Priority #2 are 14,400 vehicles daily, the second highest traffic volumes north of Hazard. The LOS is E and the CCRF for this segment is 1.2. The estimated construction cost phase of Priorities #1 and #2 combined is \$33.7 million. Figure 1 depicts this combined recommendation.

It is noted that a higher estimated construction cost phase (i.e., an even longer recommended section) would likely be acceptable. However, the discussion below will point out that extending this recommendation to the next logical construction break would result in a total construction phase cost of \$77 million, which is considered too high to be a practical recommendation.

The next sequence of recommended priorities is between Hazard and Jackson, starting at the southern terminus and progressing south-to-north until tying in to Priority #2.

Priorities #3 and #4

The third recommended priority is Section G, generally along the existing KY 15 alignment (except for a new KY 28 interchange) from MP 16.8 near Capitol Hill Drive through the new interchange at KY 28, a distance of 4.49 miles. (Note: neither this recommendation nor others for improvements along the existing alignment preclude spot locations identified in final design where short distances of new alignment are used.) This improvement would be a 4-lane cross section with a 40-foot-wide median. Estimated future year traffic volumes are 13,800 vehicles daily, the third highest traffic volumes north of Hazard. The LOS is E and the CCRF for this segment ranges from 0.61 to 0.82. The estimated cost of these improvements to Section G along the existing alignment is \$50.8 million, including \$40.1 million for the construction phase. The estimated cost for the new alignment west of existing KY 15 (originally recommended in the previous work) is \$61.5 million, including a construction phase of \$53.8 million. Significant overall cost savings could be realized despite higher estimated costs for right-of-way purchase and utility relocation. Priorities #1 through #3 are depicted in Figure 2.

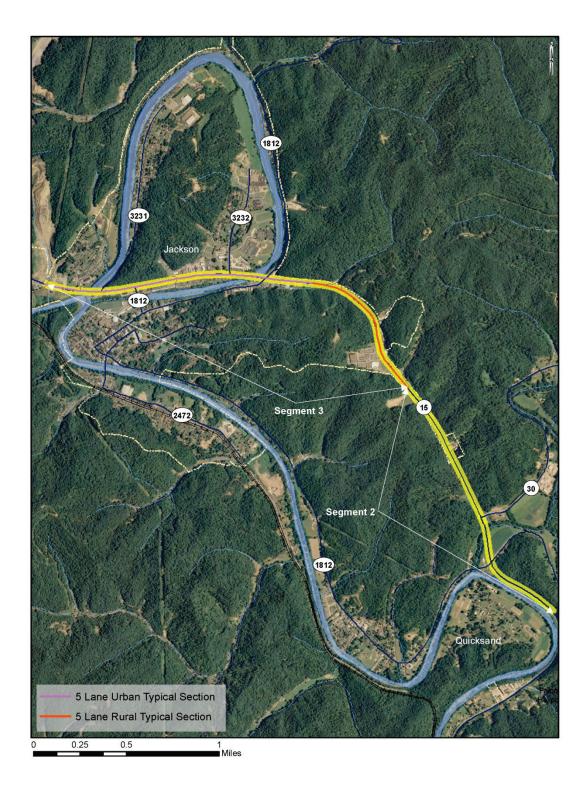


Figure 1: Priorities #1 and #2

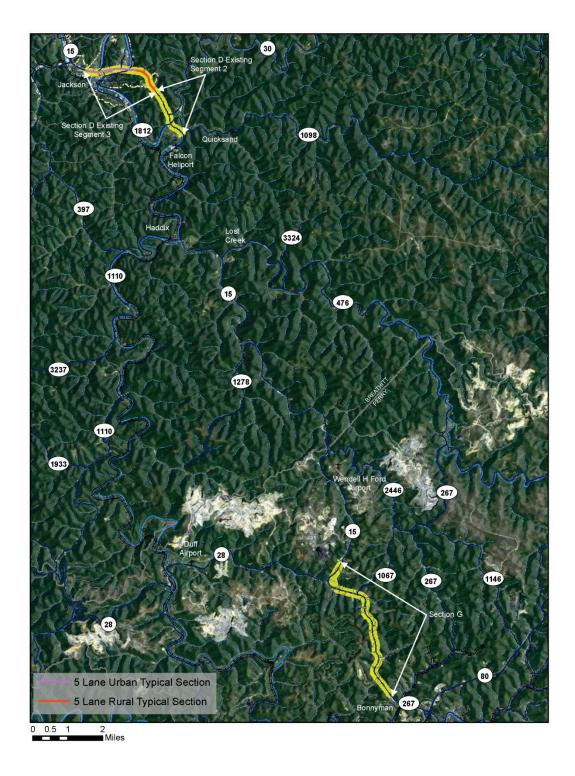


Figure 2: Priorities #1 through #3

If Priority #3 were to be constructed, the estimated cost for the construction phase would be \$40.1 million. Improvements in Priority #3 could possibly be lengthened to a logical construction terminus to include a more aggressive construction phase. Thus, the recommended Priority #4 is Segment 1 of Section F. This segment extends from just north of the new interchange with KY 28 to just north of Wendell Ford Airport entrance road, a distance of 2.83 miles. This improvement would be a 4-lane cross section with a 40-foot-wide median generally along the existing alignment. Estimated future year traffic volumes on Segment 1 of Section F are 10,200 vehicles daily, the fourth highest traffic volumes north of Hazard. The LOS is E and the CCRF for this segment is 0.35. The estimated cost of implementing Priority #4 is \$20 million, including \$16 million for the construction phase. The estimated construction cost phase of Priorities #3 and #4 combined is \$56.1 million. If KYTC considers this to be too aggressive for a single construction project, Priorities #3 and #4 could be pursued separately. Priorities #1 through #4 are shown in Figure 3.

Priorities 5 and 6

The fifth recommended priority is Segment 2 of Section F, generally along the existing KY 15 alignment from just north of Wendell Ford Airport Road in Perry County to vicinity of Noble Road south of Watts in Breathitt County, a distance of 3.94 miles. This improvement would be a 4-lane cross section with a 40-foot-wide median. Estimated future year traffic volumes are 7,600 vehicles daily. The LOS transitions from E at the south end to D at the north end. The CCRF for this segment is 0.35. The estimated cost of these improvements to Segment 2 of Section F along the existing alignment is \$36.0 million, including \$29.5 million for the construction phase. This segment is recommended as a continuation of previously recommended improvements to the south. This recommendation is shown in Figure 4.

Since the construction phase of Priority #5 is \$29.5 million, improvements in Priority #5 could possibly be lengthened to a logical construction terminus to include a more aggressive construction phase. Thus, the recommended Priority #6 is Segment 3 of Section F generally along the existing alignment from vicinity of Noble Road south of Watts to approx 2.23 miles south of KY 476 East, a distance of 2.36 miles. This improvement would be a 4-lane cross section with a 40-foot-wide median. This segment is recommended as a continuation of previously recommended improvements to the south. Estimated future year traffic volumes are 7,600 vehicles daily, while the current LOS is D. The CCRF for this segment is 0.35. The estimated cost of these improvements to Segment 3 of Section F along the existing alignment is \$29.0 million, including \$24.2 million for the construction phase. The estimated construction cost phase of Priorities #5 and #6 combined is \$53.6 million. If KYTC considers this to be too aggressive for a single construction project, Priorities #5 and #6 could be pursued separately. Priorities #1 through #6 are shown in Figure 5.

Priority #7

The seventh recommended priority is Section E, generally along the existing alignment from approximately 2.23 miles south of KY 476 East to approx 300 feet north of KY 476 East, a distance of 2.29 miles. This improvement would be a 4-lane cross section with a 40-foot-wide median. This segment

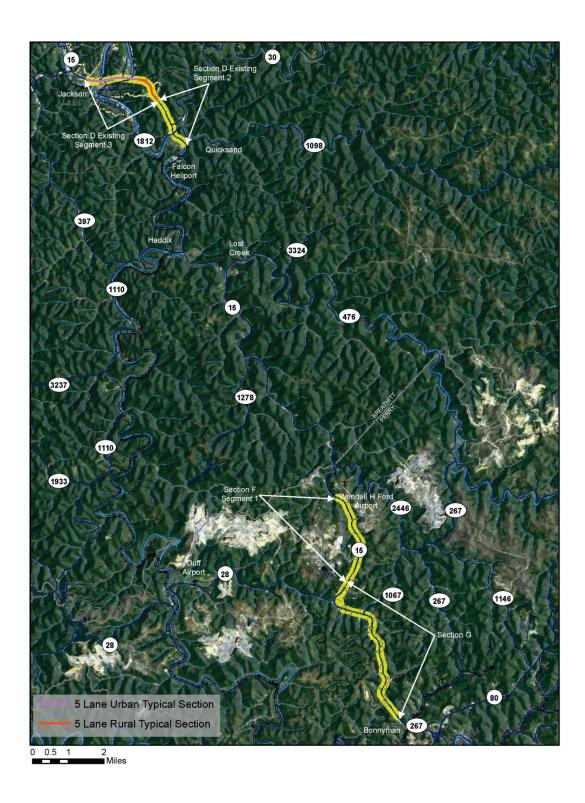


Figure 3: Priorities #1 through #4

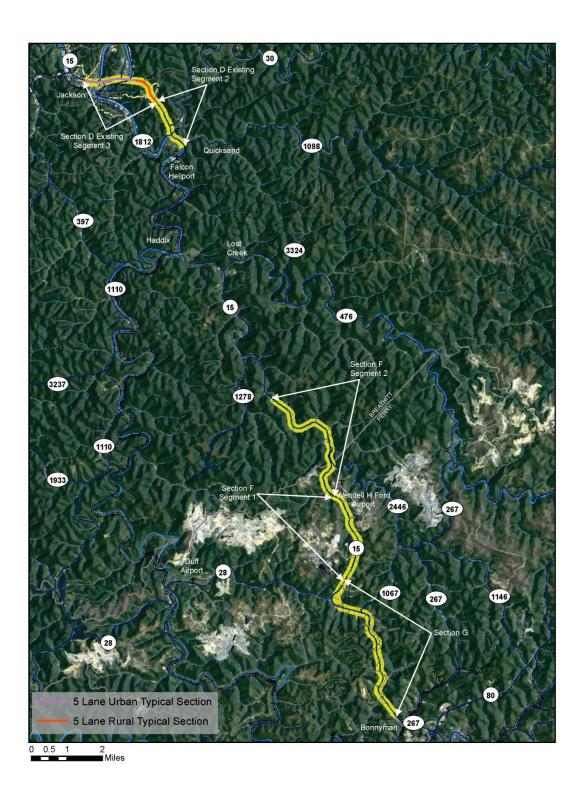


Figure 4: Priorities #1 through #5

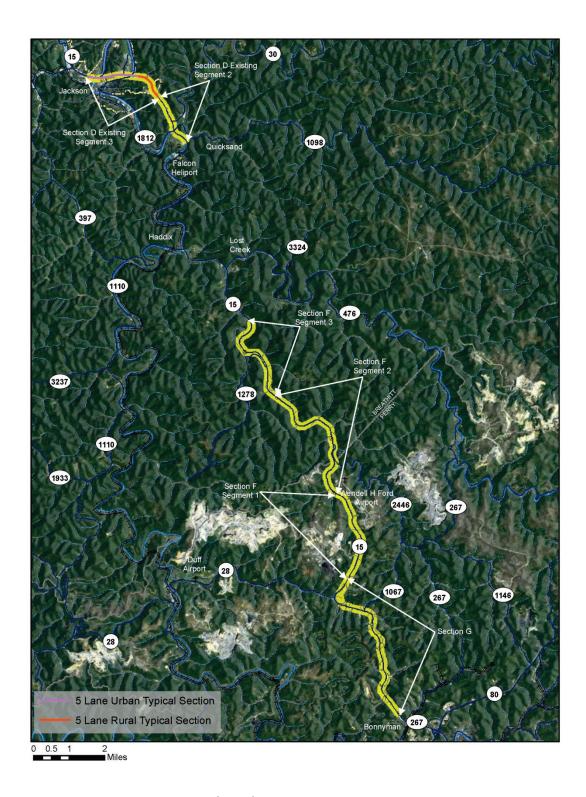


Figure 5: Priorities #1 through #6

is recommended for the next priority as a continuation of previously recommended improvements to the south. Estimated future year traffic volumes are 7,600 vehicles daily, and the current LOS is D. The CCRF for this segment is 0.24. The estimated cost of these improvements to Section E along the existing alignment is \$32.6 million, including \$27.8 million for the construction phase. Priorities #1 through #7 are shown in Figure 6.

Priority #8

The eighth recommended priority is Segment 1 of Section D, on new alignment east of the existing KY 15 from approximately 300 feet north of KY 476 East to approximately one-half mile south of the intersection with KY 30 East, a distance of 3.90 miles. This improvement would be a 4-lane cross section with a 40-foot-wide median. The estimated cost of these improvements to Segment 1 of Section D on new alignment is \$47.4 million, including \$43.3 million for the construction phase. Though only modestly less costly than Segment 1 of Section D along the existing alignment (\$50.8 million estimated cost, including \$42.3 million for construction), the new alignment option reduces the travel distance for this segment by 1.29 miles. This segment is recommended as a continuation of previously recommended improvements to the south. Estimated future year traffic volumes are 8,500 vehicles daily, and the current LOS is E. The CCRF for this segment is 0.37. Priorities #1 through #8 are shown in Figure 7.

Priority #9

The ninth recommended priority is Segment 3 of Section A in Campton, along the existing alignment of from just south of current 3-lane section near MP 8.2 to the Mountain Parkway, a distance of 2.59 miles. This improvement would be a 5-lane curb-and-gutter cross-section. The estimated cost of this improvement is \$23.3 million, including \$19.4 million for the construction phase. The 1994 KY 15 Corridor Planning Study by WMB Engineers had considered a new alignment just south and west of existing KY 15 from near MP 8.2 south of Campton, a new interchange with existing KY 15 near MP 9.8, and a new interchange with the Mountain Parkway just east of the (then) partial interchange at MP 43. Public involvement during that study indicated this option was not popular, and improvements since constructed to the Mountain Parkway (and currently under construction) have reduced its practicality.

The WMB Study estimated the cost of the alternative for Segment 3 of Section A on new



alignment would be 22% (\$5 million in 2012 dollars) more costly than improvements along the existing route. This segment is recommended because congestion through Campton would be the greatest cause of delay in the KY 15 Corridor following construction of the first eight priorities. Estimated future year traffic volumes range from 6,900 to 8,800 vehicles daily. The current LOS diminishes from C on the south end

to D near the KY 15/KY 15S/KY 191 intersection. The CCRF for this segment ranges from 0.30 to 1.04. Priorities #1 through #9 are shown in Figure 8.



Figure 6: Priorities #1 through #7



Figure 7: Priorities #1 through #8



Figure 8: Priorities #1 through #9

Priority #10

The tenth recommended priority is Segment 3 of Section D, on new alignment east of existing KY 15 from just south of the Walmart Shopping Center to near the north end of the existing construction, a distance of 3.45 miles. This improvement would be a 4-lane cross section with a 40-foot-wide median. In the discussion above, recommended Priority #1 would improve existing KY 15 in this same vicinity to address (1) immediate congestion concerns and (2) the projection that construction of a Jackson bypass prior to major improvements between Hazard and Jackson would result in relatively low traffic volumes. Previous recommended priorities have included improvements to all sections between Hazard and the south side of Jackson. Thus, construction of a Jackson bypass would be appropriate at this stage. The estimated cost of these improvements to Segment 3 of Section D on a new alignment east of Jackson is \$82.9 million, including \$77 million for the construction phase. This is considerably less costly than improvements on a new alignment west of Jackson (\$133.8 million, including \$123.4 million for the construction phase), and is more compatible with Priorities #2 and #8 above. Priorities 1 through 10 are shown in Figure 9.

Priority #11

The eleventh recommended priority is Segment 2 of Section A, along the existing alignment from MP 2.9 north of Bethany in Wolfe County to the 5-lane curb-and-gutter segment in Priority #9, a distance of 5.25 miles. This improvement would be a 4-lane cross section with a 40-foot-wide median. Of the two remaining unprioritized segments, this one has a slightly higher projected daily traffic volume (5,400) than the one to the south discussed below (4,800). The estimated cost of these improvements to Segment 2 of Section A is \$44.7 million, including \$37.4 million for the construction phase. Priorities #1 through #11 are shown in Figure 10.

Priority #12

The twelfth and final recommended priority is Segment 1 of Section A, along the existing alignment from the north terminus of the existing 4-lane section at MP 24.4 near Vancleve in Breathitt County to MP 2.9 north of Bethany in Wolfe County, a distance of 4.93 miles. This improvement would be a 4-lane cross section with a 40-foot-wide median. The estimated cost of these improvements to Segment 2 of Section A is \$45.6 million, including \$38.6 million for the construction phase. Priorities #1 through #12 are shown in Figure 11.

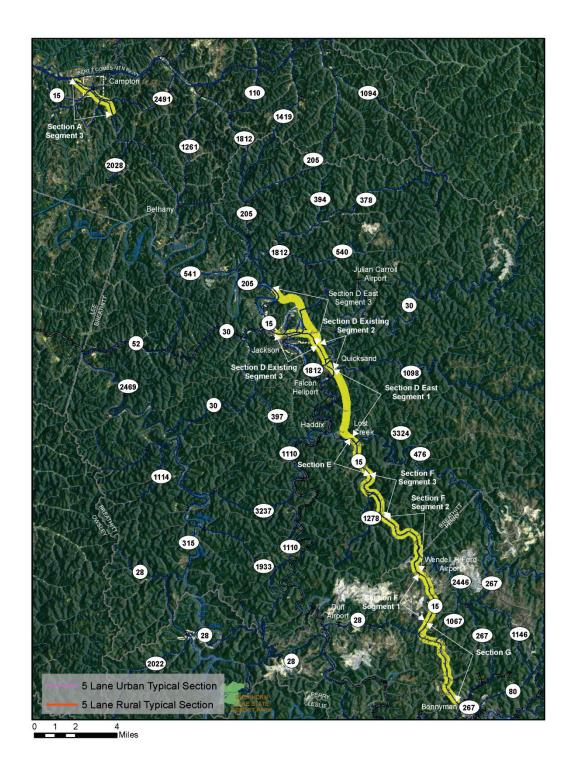


Figure 9: Priorities #1 through #10

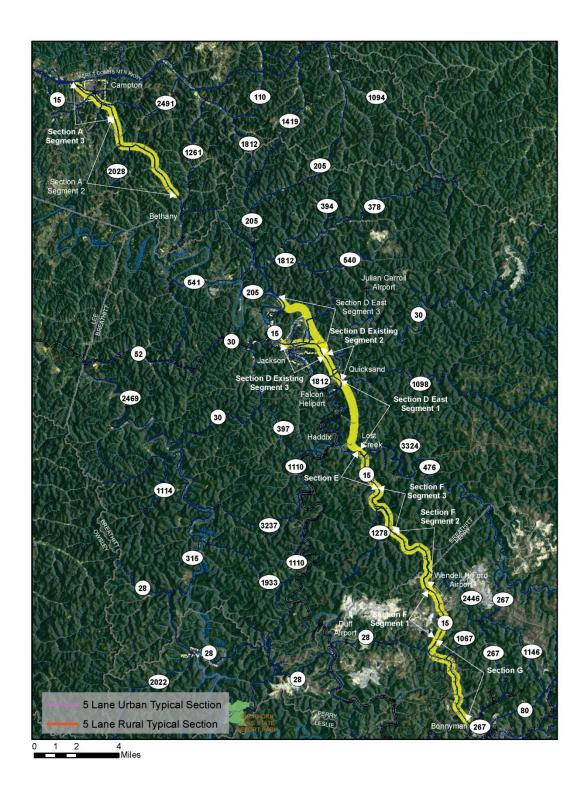


Figure 10: Priorities #1 through #11

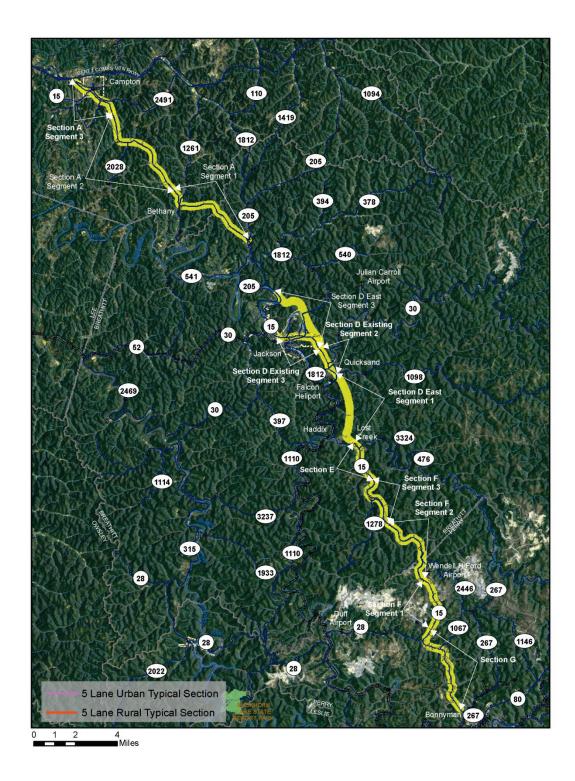


Figure 11: Priorities #1 through #12

RECOMMENDED PRIORITIES

								Cost Estimate (Millions)				Estimated Eutura Daily	Current	Current	
Priority	County (ies)	Section	Segment	Description	Beginning MP	Ending MP	Length (Miles)	Design	R/W	Util	Construction	Alternate Construction	Estimated Future Daily Traffic	Current CCRF	Current LOS
1	Breathitt	D Existing	3	From just south of Wal-mart Shopping Center to Existing Construction near Panbowl Road north of Jackson	15.6	17.9	2.3	\$1.6	\$5.3	\$1.0	\$16.1	\$33.7	21,000	1.15-1.67	E
2	Breathitt	D Existing	2	From a half-mile south of the intersection with KY 30 East to just south of Wal-mart shopping center	14.1	15.6	1.5	\$1.8	\$0.3	\$0.8	\$17.6	Ş35.7	14,400	1.2	E
3	Perry	G Existing	All	Along existing alignment (except for a new KY 28 interchange) fromnear Capitol Hill Drive through new interchange at KY 28	16.9	21.5	4.5	\$3.2	\$6.3	\$1.2	\$40.1	\$56.1	13,800	0.61-0.82	E
4	Perry	F	1	Along existing alignment from new interchange at KY 28 to just north of Wendell Ford Airport entrance road	21.5	24.3	2.8	\$1.6	\$1.5	\$1.0	\$16.0	\$30.1	10,200	0.35	E
5	Breathitt/Perry	F	2	Along existing alignment from just north of Wendell Ford Airport Road entrance in Perry County to vicinity of Noble Road south of Watts in Breathitt County	24.3	3.0	3.9	\$2.5	\$2.7	\$1.3	\$29.5	\$53.7	7,600	0.35	D-E
6	Breathitt	F		Along existing alignment from vicinity of Noble Road south of Watts to approx 2.23 miles south of KY 476 East	3.0	5.4	2.4	\$2.3	\$1.6	\$0.9	\$24.2		7,600	0.35	D
7	Breathitt	E	All	Along existing alignment from approx 2.23 miles south of KY 476 East to approx 300 feet north of KY 476 East	5.4	7.7	2.3	\$2.5	\$1.5	\$0.8	\$27.8	\$27.8	7,600	0.24	D
8	Breathitt	D East	1	New alignment (east of existing) from approx 300 feet north of KY 476 East to a half-mile south of the intersection with KY 30 East	7.7	14.1**	3.9	\$3.5	\$0.6	\$0.1	\$43.3	\$43.3	8,500	0.37	E
9	Wolfe	А	3	5-lane Curb & Gutter segment in Campton from just south of current 3-lane section near MP 8.2 on KY 15 to KY 15S at the Mountain Parkway	8.2	1.1	2.6	\$1.8	\$1.6	\$1.0	\$17.9	\$17.9	6,900-8,800	0.30-1.04	C-D
10	Breathitt	D East	3	From just south of Wal-mart Shopping Center on new alignment east of existing KY 15 to near north end of existing construction	15.6**	17.9**	3.5	\$4.6	\$0.9	\$0.3	\$77.0	\$77.0	5,100	0.36	E*
11	Wolfe	А	2	Along existing alignment from approx MP 2.9 north of Bethany to 5-lane curb and gutter segment in priority 9 above	2.9	8.2	5.3	\$3.0	\$2.6	\$1.7	\$37.4	\$37.4	5,400	0.39	С
12	Breathitt/Wolfe	А	1	Along existing alignment from north end of existing 4-lane (MP 24.38 in Breathitt County) to approx MP 2.9 in Wolfe County north of Bethany	24.4	2.9	4.9	\$3.1	\$2.3	\$1.6	\$38.6	\$38.6	4,800	0.31-0.42	С

^{*} Currently LOS E. If Priority 1 were to be constructed before Priority 8, the LOS would be B

^{**} Milepoints of existing alignment. New alignment will result in milepoint modifications. Thus, length does not equal difference in milepoints.

SECTION A

SEGMENT 1

ESTIMATES

CONSTRUCTION

Bureau of Highways

ESTIMATE SHEET

County of:		From STA:		2000+00.00		
UPN		To STA:		2260+50.00)	
Fed No.		Net Length, mile:		4.93		
Item No.		Type of Construction:	(Grade, Drain & Su	rfaci	ng
Road Name:	KY 15 - Section A Segment 1 (20' Median)	Class of Road:		Rural Arteria	al	
Item #	Item	Quantity	Unit	Unit Price	_	Amount
	4L-20' Median Const. (2000+00 to 2260+50)	26,050	FEET	\$ 1,075.00	\$	28,003,750
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					<u> </u>	
	Mainline Bridges (Sta. 2219+87+/-)	12,420	SQ FT	\$ 175.00	\$	2,173,500
	Manimic Bridges (Sta. 221) 107 (7)	12,120	5211	Ψ 173.00	\$	2,173,500
	2024+20 ~ 14' x 10' RCBC		LP SUM		\$	280,000
	2046+10 ~ 14' x 10' RCBC		LP SUM		\$	280,000
	2057+50 ~ 12' x 10' RCBC		LP SUM		\$	240,000
	2073+40 ~ 10' x 6' RCBC		LP SUM		\$	120,000
	2088+55 ~ 6' x 4' RCBC		LP SUM		\$	50,000
	2159+80 ~ 8' x 6' RCBC		LP SUM		\$	100,000
	2193+50 ~ 10' x 8' RCBC		LP SUM		\$	160,000
	2210+00 ~ 12' x 10' RCBC		LP SUM		\$	240,000
	2233+20 ~ DBL 12' x 10' RCBC		LP SUM		\$	480,000
	2259+50 ~ DBL 12' x 10' RCBC		LP SUM		\$	480,000
	MOBILIZATION		@ 3%		\$	978,218
	DEMOBILIZATION		@ 1.5%		\$	489,109
					<u> </u>	
				uction-SubTotal	_	34,074,576
				0 Engr & Contg	_	3,407,458
				nstruction-Total		37,482,034
				uction Cost/Mile	\$	7,597,126
Estimated by:		Lasted Edited:	12/1/2012	_		
Checked by:		Lasted Edited:		=		

 Right-of-way
 \$2,107,167

 Utilities
 \$1,645,000

 Construction
 \$37,482,034

 Total Cost
 \$41,234,201

 Cost/Mile
 \$8,357,642

Sec A1_20ft 1

Bureau of Highways

ESTIMATE SHEET

County of		From STA:		2000+00.00		
UPI		To STA:		2260+50.00)	
Fed No		Net Length, mile:		4.93		
Item No		Type of Construction:	(Grade, Drain & Su Rural/Urban Art	rtacii	<u>ıg</u>
Road Name	EXECUTE: KY 15 - Section A Segment 1 (30' Median)	Class of Road:		erial		
Item #	Item	Quantity	Unit	Unit Price		Amount
	4L-30' Median Const. (2000+00 to 2260+50)	26,050	FEET	\$ 1,000.00	\$	26,050,000
	Mainline Bridges (Sta. 2219+87+/-)	10,530	SQ FT	\$ 200.00	\$	2,106,000
					\$	_
	2024+20 ~ 14' x 10' RCBC		LP SUM		\$	295,000
	2046+10 ~ 14' x 10' RCBC		LP SUM		\$	295,000
	2057+50 ~ 12' x 10' RCBC		LP SUM		\$	250,000
	2073+40 ~ 10' x 6' RCBC		LP SUM		\$	125,000
	2088+55 ~ 6' x 4' RCBC		LP SUM		\$	52,500
	2159+80 ~ 8' x 6' RCBC		LP SUM		\$	105,000
	2193+50 ~ 10' x 8' RCBC		LP SUM		\$	170,000
	2210+00 ~ 12' x 10' RCBC		LP SUM		\$	250,000
	2233+20 ~ DBL 12' x 10' RCBC		LP SUM		\$	500,000
	2259+50 ~ DBL 12' x 10' RCBC		LP SUM		\$	500,000
	MODILIZATION		@ 3%		φ	020.055
	MOBILIZATION				\$	920,955
	DEMOBILIZATION		@ 1.5%		3	460,478
	1		Const	uotion CubTotal	Φ	22 070 022
				uction-SubTotal		32,079,933
				0 Engr & Contg nstruction-Total		3,207,993
				nstruction-1 otal uction Cost/Mile	-	35,287,926 7,152,409
Datin-4-11	y D Ford	Lasted Edited:	12/1/2012	uction Cost/Mille	φ	7,132,409
Estimated by Checked by		Lasted Edited:	12/1/2012	-		
CHECKEG D	y	Lasieu Eulleu:		-		

 Right-of-way
 \$2,107,167

 Utilities
 \$1,645,000

 Construction
 \$35,287,926

 Total Cost
 \$39,040,093

 Cost/Mile
 \$7,912,925

Sec A1_30ft 1

Bureau of Highways

ESTIMATE SHEET

County of:	f: Breathitt, Wolfe From STA: 2000+00.00					
UPN	,	To STA:		2260+50.00	,	
Fed No.		Net Length, mile:		4.93		
Item No.		Type of Construction:	(Grade, Drain & Su	rfaci	ng
Road Name:	KY 15 - Section A Segment 1 (40' Median)	Class of Road:		Rural/Urban Art		
	-	•				
Item #	Item	Quantity	Unit	Unit Price		Amount
	4L-40' Median Const. (2000+00 to 2260+50)	26,050	FEET	\$ 1,100.00	\$	28,655,000
	Mainline Bridges (Sta. 2219+87+/-)	11,340	SQ FT	\$ 200.00	\$	2,268,000
					\$	-
	2024+20 ~ 14' x 10' RCBC		LP SUM		\$	310,000
	2046+10 ~ 14' x 10' RCBC		LP SUM		\$	310,000
	2057+50 ~ 12' x 10' RCBC		LP SUM		\$	265,000
	2073+40 ~ 10' x 6' RCBC		LP SUM		\$	130,000
	2088+55 ~ 6' x 4' RCBC		LP SUM		\$	55,000
	2159+80 ~ 8' x 6' RCBC		LP SUM		\$	110,000
	2193+50 ~ 10' x 8' RCBC		LP SUM		\$	175,000
	2210+00 ~ 12' x 10' RCBC		LP SUM		\$	265,000
	2233+20 ~ DBL 12' x 10' RCBC		LP SUM		\$	530,000
	2259+50 ~ DBL 12' x 10' RCBC		LP SUM		\$	530,000
	MOBILIZATION		@ 3%		\$	1,008,090
	DEMOBILIZATION		@ 1.5%		\$	504,045
			Constr	uction-SubTotal	\$	35,115,135
			+1	0 Engr & Contg		3,511,514
				nstruction-Total		38,626,649
			Constr	uction Cost/Mile	\$	7,829,125
Estimated by:	D. Ford	Lasted Edited:	12/1/2012			
Checked by:		Lasted Edited:		=		
	· · · · · · · · · · · · · · · · · · ·					

 Right-of-way
 \$2,261,653

 Utilities
 \$1,645,000

 Construction
 \$38,626,649

 Total Cost
 \$42,533,302

 Cost/Mile
 \$8,620,953

Sec A1_40ft 1

SECTION A

SEGMENT 1

ESTIMATES

RIGHT-OF-WAY

KY 15 PLANNING STUDY - SECTION A (Segment 1)

STA. 2000+00 to 2260+50

			Approx. Ex.	KY15 R/W			Acreage	Resi	dential	Bus	iness	
	Approxim	ate Gross	Assume 8	0' Width	Approxin	nate Net	Cost @	Reloc.	Cost @	Reloc.	Cost @	TOTAL
Median	Propose	ed R/W	KY15 Length	26050	Prop. R/W	Purchased	\$500	#	\$75,000	#	\$125,000	R/W COST
Width	(SF)	(Acres)	(SF)	(Acres)	(SF)	(Acres)	(Dollar)	(each)	(Dollar)	(each)	(Dollar)	(Dollar)
40 ft	9,633,177	221.1	2,084,000	47.8	7,549,177	173.3	\$86,653	24	\$1,800,000	3	\$375,000	\$2,261,653
20 & 30ft	9,242,427	212.2	2,084,000	47.8	7,158,427	164.3	\$82,167	22	\$1,650,000	3	\$375,000	\$2,107,167

SECTION A

SEGMENT 2

ESTIMATES

CONSTRUCTION

Bureau of Highways

ESTIMATE SHEET

County of: UPN	Wolfe		2260+50.00 2537+50.00					
		Not I anoth mile		2337+30.00 5.25				
Fed No.		Net Length, mile: Type of Construction:		J.23	c:			
Item No.	KY 15 - Section A Segment 2 (20' Median)	Class of Road:		Rural Arteria	1	ng		
Road Name:	KY 15 - Section A Segment 2 (20 Median)	Class of Road:	Kurai Arteriai					
Item #	Item	Quantity	Unit	Unit Price		Amount		
HeIII#	4L-20' Median Const. (2260+50 to 2537+50)	27,700	FEET	\$ 1,075.00	\$	Amount 29,777,500		
	4L-20 Median Const. (2200+30 to 2337+30)	27,700	FEEI	\$ 1,075.00	Ф	29,777,300		
	2281+30 ~ DBL 12' x 10' RCBC		LP SUM		\$	480,000		
	2289+65 ~ DBL 10' x 8' RCBC		LP SUM		\$	320,000		
	2342+80 ~ 12' x 8' RCBC		LP SUM		\$	190,000		
	2412+00 ~ 10' x 6' RCBC		LP SUM		\$	120,000		
	2432+20 ~ 10' x 8' RCBC		LP SUM		\$	160,000		
	2431+50 ~ 12' x 10' RCBC		LP SUM		\$	240,000		
	2434+85 ~ 5' x 4' RCBC		LP SUM		\$	40,000		
	2471+60 ~ 12' x 10' RCBC		LP SUM		\$	240,000		
	2481+55 ~ 10' x 6' RCBC		LP SUM		\$	120,000		
	MOBILIZATION		@ 3%		\$	950,625		
	DEMOBILIZATION		@ 1.5%		\$	475,313		
	Construction-SubTotal +10 Engr & Contg							
				nstruction-Total		3,311,344 36,424,781		
				uction Cost/Mile		6,943,063		
Estimated by:	D. Ford	Lasted Edited:	12/1/2012	-				
Checked by:		Lasted Edited:	-	-				
- J		-		•				

 Right-of-way
 \$2,323,491

 Utilities
 \$1,705,000

 Construction
 \$36,424,781

 Total Cost
 \$40,453,272

 Cost/Mile
 \$7,710,949

Sec A2_20ft 1

Bureau of Highways

ESTIMATE SHEET

	Wolfe	From STA:	ΓA: 2260+50.00 ΓA: 2537+50.00					
UPN Fed No.				2537+50.00 5.25				
rea No. Item No.		Net Length, mile: Type of Construction:			rfooi			
Road Name:	KY 15 - Section A Segment 2 (30' Median)	Class of Road:		Rural/Urban Art		iig		
Road Ivallic.	KT 13 - Section A Segment 2 (50 Wedian)	Class of Road.		Kurai/Orban Art	CITAI			
Item #	Item	Quantity	Unit	Unit Price		Amount		
reem #	4L-30' Median Const. (2260+50 to 2537+50)	27,700	FEET	\$ 1,000.00	\$	27,700,000		
	12 30 Median Const. (2200+30 to 233+30)	21,700	TEET	Ψ 1,000.00	Ψ	27,700,000		
	2281+30 ~ DBL 12' x 10' RCBC		LP SUM		\$	505,000		
	2289+65 ~ DBL 10' x 8' RCBC		LP SUM		\$	335,000		
	2342+80 ~ 12' x 8' RCBC		LP SUM		\$	200,000		
	2412+00 ~ 10' x 6' RCBC		LP SUM		\$	125,000		
	2432+20 ~ 10' x 8' RCBC		LP SUM		\$	170,000		
	2431+50 ~ 12' x 10' RCBC		LP SUM		\$	250,000		
	2434+85 ~ 5' x 4' RCBC		LP SUM		\$	42,500		
	2471+60 ~ 12' x 10' RCBC		LP SUM		\$	250,000		
	2481+55 ~ 10' x 6' RCBC		LP SUM		\$	125,000		
	MOBILIZATION		@ 3%		\$	891,075		
	DEMOBILIZATION		@ 1.5%		\$	445,538		
				uction-SubTotal	\$	31,039,113		
				0 Engr & Contg		3,103,911 34,143,024		
	Construction-Total							
				uction Cost/Mile	\$	6,508,129		
Estimated by:		Lasted Edited:	12/1/2012	.				
Checked by:		Lasted Edited:		<u>.</u>				

 Right-of-way
 \$2,323,491

 Utilities
 \$1,705,000

 Construction
 \$34,143,024

 Total Cost
 \$38,171,515

 Cost/Mile
 \$7,276,014

Sec A2_30ft 1

Bureau of Highways

ESTIMATE SHEET

County of:	Wolfe	From STA:		2260+50.00		
UPN		To STA:		2537+50.00		
Fed No.		Net Length, mile:		5.25		
Item No.		Type of Construction:	G	rade, Drain & Su	rfaci	ng
Road Name:	KY 15 - Section A Segment 2 (40' Median)	Class of Road:		Rural/Urban Art	erial	
Item#	Item	Quantity	Unit	Unit Price		Amount
	4L-40' Median Const. (2260+50 to 2537+50)	27,700	FEET	\$ 1,100.00	\$	30,470,000
	2281+30 ~ DBL 12' x 10' RCBC		LP SUM		\$	530,000
	2289+65 ~ DBL 10' x 8' RCBC		LP SUM		\$	350,000
	2342+80 ~ 12' x 8' RCBC		LP SUM		\$	210,000
	2412+00 ~ 10' x 6' RCBC		LP SUM		\$	130,000
	2432+20 ~ 10' x 8' RCBC		LP SUM		\$	175,000
	2431+50 ~ 12' x 10' RCBC		LP SUM		\$	265,000
	2434+85 ~ 5' x 4' RCBC		LP SUM		\$	45,000
	2471+60 ~ 12' x 10' RCBC		LP SUM		\$	265,000
	2481+55 ~ 10' x 6' RCBC		LP SUM		\$	130,000
	MOBILIZATION		@ 3%		\$	977,100
	DEMOBILIZATION		@ 1.5%		\$	488,550
	DEMODILIZATION		w 1.3%		φ	400,330
			Constr	uction-SubTotal	\$	34,035,650
		0 Engr & Contg	Ψ	3,403,565		
				nstruction-Total	\$	37,439,215
				action Cost/Mile		7,136,428
Estimated by:	D. Ford	Lasted Edited:			•	,,
Checked by:		Lasted Edited:		•		
		·		•		

 Right-of-way
 \$2,553,261

 Utilities
 \$1,705,000

 Construction
 \$37,439,215

 Total Cost
 \$41,697,476

 Cost/Mile
 \$7,948,111

Sec A2_40ft 1

SECTION A

SEGMENT 2

ESTIMATES

RIGHT-OF-WAY

KY 15 PLANNING STUDY - SECTION A (Segment 2)

STA. 2260+50 to 2537+50

			Approx. Ex.	KY15 R/W			Acreage	Resi	dential	Bus	iness	
	Approxim	ate Gross	Assume 8	0' Width	Approxin	nate Net	Cost @	Reloc.	Cost @	Reloc.	Cost @	TOTAL
Median	Propose	ed R/W	KY15 Length	27700	Prop. R/W	Purchased	\$500	#	\$75,000	#	\$75,000	R/W COST
Width	(SF)	(Acres)	(SF)	(Acres)	(SF)	(Acres)	(Dollar)	(each)	(Dollar)	(each)	(Dollar)	(Dollar)
40 ft	9,034,067	207.4	2,216,000	50.9	6,818,067	156.5	\$78,261	24	\$1,800,000	9	\$675,000	\$2,553,261
20 & 30ft	8,618,567	197.9	2,216,000	50.9	6,402,567	147.0	\$73,491	22	\$1,650,000	8	\$600,000	\$2,323,491
										·		

SECTION A

SEGMENT 3

ESTIMATES

CONSTRUCTION

Bureau of Highways

ESTIMATE SHEET

County of: Wolfe		From STA:		2537+50.00					
UPN		To STA:							
Fed No.		Net Length, mile:		2.59					
Item No.		Type of Construction:	G	rade, Drain & Su	rfaci	ng			
Road Name:	KY 15 - Section A Segment 3 (5-lane C&G)	Class of Road:		Rural Arteria	ial				
	(
Item #	Item	Quantity	Unit	Unit Price		Amount			
π	5L-C and G Const. (2537+50 to 2674+00)	13,650	FEET	\$ 1,200.00	\$	16,380,000			
	5L-C and G Const. (2557+50 to 2074+00)	13,030	FEET	\$ 1,200.00	φ	10,380,000			
	2556+00 ~ 5' x 4' RCBC		LP SUM		\$	40,000			
	2590+50 ~ 10' x 5' RCBC		LP SUM		\$	100,000			
	2601+05 ~ 8' x 5' RCBC		LP SUM		\$	80,000			
	2617+65 ~ 14' x 10' RCBC				\$				
	2017+03 ~ 14 X 10 RCBC		LP SUM		Ф	280,000			
	MOBILIZATION		@ 3%		\$	506,400			
	DEMOBILIZATION		@ 1.5%		\$	253,200			
			Constr	uction-SubTotal	\$	17,639,600			
				0 Engr & Contg		1,763,960			
				nstruction-Total	\$	19,403,560			
				action Cost/Mile		7,505,553			
Estimated by:	D. Ford	Lasted Edited:	12/1/2012		~	.,. 50,000			
Checked by:		Lasted Edited:	12, 1, 2012	•					
checked by.		Eusted Edited.		-					

 Right-of-way
 \$844,280

 Utilities
 \$1,070,000

 Construction
 \$19,403,560

 Total Cost
 \$21,317,840

 Cost/Mile
 \$8,246,022

Sec A3_5L C-G

Bureau of Highways

ESTIMATE SHEET

County of:	Wolfe Wolfe	From STA:	2537+50.00			
UPN		To STA:		2674+00.00		
		Net Length, mile:		2.59	c ·	
Item No.	KY 15 - Section A Segment 3 (20' Median)	Type of Construction:		rade, Drain & Su		ıg
Road Name:	KY 15 - Section A Segment 3 (20' Median)	Class of Road:		Rural Arteria	ll	
Item #	Item	Quantity	Unit		Amount	
Teem "	4L-20' Median Const. (2537+50 to 2674+00)	13,650	FEET	Unit Price \$ 1,075.00	\$	14,673,750
	, ,	,		,		
	2556 00 51 41 DCDC		I D GID I		Φ.	10.000
	2556+00 ~ 5' x 4' RCBC		LP SUM		\$	40,000
	2590+50 ~ 10' x 5' RCBC		LP SUM		\$	100,000
	2601+05 ~ 8' x 5' RCBC 2617+65 ~ 14' x 10' RCBC		LP SUM		\$	80,000
	2017+03 ~ 14 X 10 RCBC		LP SUM		Ф	280,000
	MOBILIZATION		@ 3%		\$	455,213
	DEMOBILIZATION		@ 1.5%		\$	227,606
				uction-SubTotal	\$	15,856,569
				0 Engr & Contg	Φ.	1,585,657
				nstruction-Total		17,442,226
10 30 3 4 5	D.F. I	¥ . (******		uction Cost/Mile	\$	6,746,883
Estimated by:		Lasted Edited:	12/1/2012	-		
Checked by:	•	Lasted Edited:		-		

 Right-of-way
 \$1,523,197

 Utilities
 \$1,070,000

 Construction
 \$17,442,226

 Total Cost
 \$20,035,423

 Cost/Mile
 \$7,749,966

Sec A3_20ft 1

Bureau of Highways

ESTIMATE SHEET

County of:	Wolfe	From STA:		2537+50.00		
UPN		To STA:		2674+00.00		
Fed No.		Net Length, mile:		2.59		
Item No.		Type of Construction:	C	Grade, Drain & Su	rfacii	ng
Road Name:	KY 15 - Section A Segment 3 (30' Median)	Class of Road:		Rural/Urban Art	erial	,
		-				
Item #	Item	Quantity	Unit	Unit Price		Amount
	4L-30' Median Const. (2537+50 to 2674+00)	13,650	FEET	\$ 1,000.00	\$	13,650,000
	,	,				
	2556+00 ~ 5' x 4' RCBC		LP SUM		\$	42,500
	2590+50 ~ 10' x 5' RCBC		LP SUM		\$	105,000
	2601+05 ~ 8' x 5' RCBC		LP SUM		\$	85,000
	2617+65 ~ 14' x 10' RCBC		LP SUM		\$	295,000
	2017+03 ~ 14 X 10 RCBC		LI SUM		Ψ	293,000
	MOBILIZATION		@ 3%		\$	425,325
	DEMOBILIZATION		@ 1.5%		\$	212,663
	DEWOBILIZATION		@ 1.570		Ф	212,003
			Constr	uction-SubTotal	Φ	1/1 015 /100
				0 Engr & Contg	Ψ	14,815,488
				nstruction-Total	Φ	16,297,036
				uction Cost/Mile		6,303,909
Estimated by:	D. Ford	Lasted Edited:		action Cost/Wille	Ψ	0,505,505
Checked by:		Lasted Edited:		-		
Checken by.		Lasica Eunea.		-		

 Right-of-way
 \$1,523,197

 Utilities
 \$1,070,000

 Construction
 \$16,297,036

 Total Cost
 \$18,890,233

 Cost/Mile
 \$7,306,991

Sec A3_30ft 1

Bureau of Highways

ESTIMATE SHEET

County of:	Wolfe	From STA:	2537+50.00				
UPN		To STA:		2674+00.00			
Fed No.		Net Length, mile:	2.59				
Item No.		Type of Construction:	Grade, Drain & Surfacing				
Road Name:	KY 15 - Section A Segment 3 (40' Median)	Class of Road:		terial			
Item #	Item	Quantity	Unit	Unit Price		Amount	
	4L-20' Median Const. (2537+50 to 2674+00)	13,650	FEET	\$ 1,100.00	\$	15,015,000	
	2556+00 ~ 5' x 4' RCBC		LP SUM		\$	45,000	
	2590+50 ~ 10' x 5' RCBC		LP SUM		\$	110,000	
	2601+05 ~ 8' x 5' RCBC		LP SUM		\$	90,000	
	2617+65 ~ 14' x 10' RCBC		LP SUM		\$	310,000	
	2017 103 14 X 10 Rede		LI SUM		Ψ	310,000	
	MOBILIZATION		@ 3%		\$	467,100	
	DEMOBILIZATION		@ 1.5%		\$	233,550	
			~				
				uction-SubTotal	\$	16,270,650	
				0 Engr & Contg	Ф	1,627,065	
				nstruction-Total		17,897,715	
D-41 11	D. Found	Y 1 TO 11 / 1		uction Cost/Mile	Þ	6,923,072	
Estimated by:		Lasted Edited: Lasted Edited:		-			
Checked by:		Lasted Edited:		-			

 Right-of-way
 \$1,600,547

 Utilities
 \$1,070,000

 Construction
 \$17,897,715

 Total Cost
 \$20,568,262

 Cost/Mile
 \$7,956,075

Sec A3_40ft 1

SECTION A

SEGMENT 3

ESTIMATES

RIGHT-OF-WAY

KY 15 PLANNING STUDY - SECTION A (Segment 3)

STA. 2537+50 to 2674+00

			Approx. Ex. KY15 R/W		Acrea		Acreage	Residential		Bus		
Approximate Gross		Assume 8	0' Width	Approximate Net		Cost @	Reloc.	Cost @	Reloc.	Cost @	TOTAL	
Median	Propos	ed R/W	KY15 Length	13650	Prop. R/W	Purchased	\$500	#	\$75,000	#	\$75,000	R/W COST
Width	(SF)	(Acres)	(SF)	(Acres)	(SF)	(Acres)	(Dollar)	(each)	(Dollar)	(each)	(Dollar)	(Dollar)
40 ft	3,317,653	76.2	1,092,000	25.1	2,225,653	51.1	\$25,547	1	\$75,000	20	\$1,500,000	\$1,600,547
20 & 30ft	3,112,903	71.5	1,092,000	25.1	2,020,903	46.4	\$23,197	1	\$75,000	19 \$1,425,000		\$1,523,197
5L C&G	2,771,653	63.6	1,092,000	25.1	1,679,653	38.6	\$19,280	1	\$75,000	10	\$750,000	\$844,280
									·			

SECTION D

EAST

ESTIMATES

SEGMENT 1B

CONSTRUCTION

Bureau of Highways

ESTIMATE SHEET

	ESTIMA	ATE SHEET						
County of:	Breathitt From STA: 838+50.00							
UPN		To STA:						
Fed No.		Net Length, mile: Type of Construction:						
Item No.		Type of Construction:	G	rade	rfaci	ng		
Road Name:	KY 15 -East Section D Seg 1b (20ft Median)	Class of Road:			Rural Arteria	.1		
•		-						
Item #	Item	Quantity	Unit	J	Unit Price		Amount	
	Roadway Exc (Mainline)	6,999,013	CU YD	\$	2.50	\$	17,497,533	
	Asph Surf CL3 (Mainline Driving Lanes)	7,553	TON	\$	85.00	\$	642,005	
	Asph Base CL3 (Mainline Driving Lanes)	60,757	TON	\$	80.00	\$	4,860,560	
	CS Base (Mainline Driving Lanes)	27,200	TON	\$	16.00	\$	435,200	
	Asph Surf CL2 (Mainline Shoulders)	5,901	TON	\$	85.00	\$	501,585	
	Asph Base CL2 (Mainline Shoulders)	15,343	TON	\$	80.00	\$	1,227,440	
	CS Base (Mainline Shoulders)	74,516	TON	\$	16.00	\$	1,192,256	
	Roadway Exc (Approaches/Entrances)	242,795	CU YD	\$	2.50	\$	606,988	
	Asph Surf CL2 (Approach Rd Driving Lanes)	639	TON	\$	85.00	\$	54,315	
	Asph Base CL2 (Approach Rd Driving Lanes)	2,196	TON	\$	80.00	\$	175,680	
	CS Base (Approach Rd Driving Lanes)	2,292	TON	\$	16.00	\$	36,672	
	Asph Surf (CL2 Approach Rd Shoulders)	103	TON	\$	85.00	\$	8,755	
	Asph Base CL2 (Approach Rd Shoulders)	262	TON	\$	80.00	\$	20,960	
	CS Base (Approach Rd Shoulders)	892	TON	\$	16.00	\$	14,272	
	Concrete Median Barrier	20,600	LF	\$	55.00	\$	1,133,000	
	MISC ITEMS (@ 25%)					\$	7,101,805	
	MISC HEMS (@ 25%)					φ	7,101,603	
	868+35 ~ 5' x 4' RCBC		LP SUM			\$	100,000	
	879+00 ~ 10' x 6' RCBC		LP SUM			\$	330,000	
	934+40 ~ 12' x 8' RCBC		LP SUM			\$	725,000	
	936+50 ~ 12' x 6' RCBC		LP SUM			\$	700,000	
	1012+80 ~ 6' x 4' RCBC		LP SUM			\$	190,000	
	1012100 0 X 1 Rege		Er sem			Ψ	170,000	
	MOBILIZATION	_	@ 3%			\$	1,126,621	
	DEMOBILIZATION		@ 1.5%			\$	563,310	
			Constr	uctio	n-SubTotal	\$	39,243,957	
					gr & Contg		3,924,396	
					ıction-Total		43,168,353 11,064,510	
Construction Cost/Mile								

Estimated by: D. Ford
Lasted Edited: 12/1/2012
Checked by: Lasted Edited: Lasted Edited:

 Right-of-way
 \$555,329

 Utilities
 \$145,000

 Construction
 \$43,168,353

 Total Cost
 \$43,868,682

 Cost/Mile
 \$11,244,012

East SecD1b_20

Bureau of Highways

ESTIMATE SHEET

County of:	Breathitt	From STA:		838+50.00				
UPN	UPN To STA: 1044+50.00							
Fed No.								
Item No.		Type of Construction: Grade, Drain & Surfa						
	pad Name: KY 15 -East Section D Seg 1b (30ft Median) Class of Road: Rural Arteria							
Troug I (mile)	TIT TO EMBY SOUTHING SOUTH (CONTINUALLY)			11010111110111	-			
Item#	Item	Quantity	Unit	Unit Price		Amount		
Тести #	Roadway Exc (Mainline)	7,087,699	CU YD	\$ 2.50	\$	17,719,248		
	Asph Surf CL3 (Mainline Driving Lanes)	7,553	TON	\$ 85.00	\$	642,005		
	Asph Base CL3 (Mainline Driving Lanes)	60,757	TON	\$ 80.00	\$	4,860,560		
	CS Base (Mainline Driving Lanes)	27,200	TON	\$ 16.00	\$	435,200		
	Asph Surf CL2 (Mainline Shoulders)				\$			
	· '	3,462	TON			294,270		
	Asph Base CL2 (Mainline Shoulders)	9,001	TON	\$ 80.00	\$	720,080		
	CS Base (Mainline Shoulders)	72,210	TON	\$ 16.00	\$	1,155,360		
	Roadway Exc (Approaches/Entrances)	242,795	CU YD	\$ 2.50	\$	606,988		
	Asph Surf CL2 (Approach Rd Driving Lanes)	639	TON	\$ 85.00	\$	54,315		
	Asph Base CL2 (Approach Rd Driving Lanes)	2,196	TON	\$ 80.00	\$	175,680		
	CS Base (Approach Rd Driving Lanes)	2,292	TON	\$ 16.00	\$	36,672		
	Asph Surf (CL2 Approach Rd Shoulders)	103	TON	\$ 85.00	\$	8,755		
	Asph Base CL2 (Approach Rd Shoulders)	262	TON	\$ 80.00	\$	20,960		
	CS Base (Approach Rd Shoulders)	892	TON	\$ 16.00	\$	14,272		
	MISC ITEMS (@ 25%)				\$	6,686,091		
	MISC TIEMS (C 25%)				Ψ	0,000,071		
	868+35 ~ 5' x 4' RCBC		LP SUM		\$	105,000		
	879+00 ~ 10' x 6' RCBC		LP SUM		\$	350,000		
	934+40 ~ 12' x 8' RCBC		LP SUM		\$	760,000		
	936+50 ~ 12' x 6' RCBC		LP SUM			725,000		
					\$			
	1012+80 ~ 6' x 4' RCBC		LP SUM		\$	200,000		
	MOBILIZATION		@ 3%		\$	1,067,114		
	DEMOBILIZATION		@ 1.5%		\$	533,557		
				uction-SubTotal	\$	37,171,127		
				0 Engr & Contg		3,717,113		
			Co	nstruction-Total	\$	40,888,239		
			Constru	uction Cost/Mile	\$	10,480,092		
Estimated by: D. Ford Lasted Edited: 12/1/2012								
•		-						

Estimated by: D. Ford Lasted Edited: 12/1/2012

Checked by: Lasted Edited: Lasted

 Right-of-way
 \$555,329

 Utilities
 \$145,000

 Construction
 \$40,888,239

 Total Cost
 \$41,588,568

 Cost/Mile
 \$10,659,594

East SecD1b_30

Bureau of Highways

ESTIMATE SHEET

	LO I IIVIA	ALE SHEET					
County of:	Breathitt	From STA:			838+50.00		
UPN							
Fed No.		Net Length, mile:		1			
Item No.		Type of Construction:	3.90 Grade, Drain & Su				ng
Road Name:	KY 15 -East Section D Seg 1b (40ft Median)	Class of Road:			ural Arteria		
		_					
Item #	Item	Quantity	Unit	Ur	nit Price		Amount
	Roadway Exc (Mainline)	7,555,470	CU YD	\$	2.50	\$	18,888,675
	Asph Surf CL3 (Mainline Driving Lanes)	7,553	TON	\$	85.00	\$	642,005
	Asph Base CL3 (Mainline Driving Lanes)	60,757	TON	\$	80.00	\$	4,860,560
	CS Base (Mainline Driving Lanes)	27,200	TON	\$	16.00	\$	435,200
	Asph Surf CL2 (Mainline Shoulders)	4,406	TON	\$	85.00	\$	374,510
	Asph Base CL2 (Mainline Shoulders)	11,456	TON	\$	80.00	\$	916,480
	CS Base (Mainline Shoulders)	80,423	TON	\$	16.00	\$	1,286,768
	Roadway Exc (Approaches/Entrances)	242,795	CU YD	\$	2.50	\$	606,988
	Asph Surf CL2 (Approach Rd Driving Lanes)	639	TON	\$	85.00	\$	54,315
	Asph Base CL2 (Approach Rd Driving Lanes)	2,196	TON	\$	80.00	\$	175,680
	CS Base (Approach Rd Driving Lanes)	2,292	TON	\$	16.00	\$	36,672
	Asph Surf (CL2 Approach Rd Shoulders)	103	TON	\$	85.00	\$	8,755
	Asph Base CL2 (Approach Rd Shoulders)	262	TON	\$	80.00	\$	20,960
	CS Base (Approach Rd Shoulders)	892	TON	\$	16.00	\$	14,272
	MISC ITEMS (@ 25%)					\$	7,080,460
	MISC ITEMS (@ 25%)					Ф	7,080,400
	868+35 ~ 5' x 4' RCBC		LP SUM			\$	112,500
	879+00 ~ 10' x 6' RCBC		LP SUM			\$	365,000
	934+40 ~ 12' x 8' RCBC		LP SUM			\$	800,000
	936+50 ~ 12' x 6' RCBC		LP SUM			\$	750,000
	1012+80 ~ 6' x 4' RCBC		LP SUM			\$	210,000
						т	
	MOBILIZATION		@ 3%			\$	1,129,194
	DEMOBILIZATION		@ 1.5%			\$	564,597
					-SubTotal	\$	39,333,591
					r & Contg		3,933,359
					tion-Total		43,266,950 11,089,781
Construction Cost/Mile \$							

Estimated by: D. Ford Lasted Edited: 12/1/2012
Checked by: Lasted Edited: Lasted Edited:

 Right-of-way
 \$558,876

 Utilities
 \$145,000

 Construction
 \$43,266,950

 Total Cost
 \$43,970,826

 Cost/Mile
 \$11,270,192

East SecD1b_40

SECTION D

EAST

ESTIMATES

SEGMENT 1B

RIGHT-OF-WAY

KY 15 PLANNING STUDY - East SECTION D (Segment 1b)

STA. 838+50 **to** 1044+50

			Approx. Ex. KY15 R/W			Acreage	Residential		Business			
	Approxim	ate Gross	Assume 8	0' Width	Approxin	nate Net	Cost @	Reloc.	Cost @	Reloc.	Cost @	TOTAL
Median	Propose	ed R/W	KY15 Length	3690	Prop. R/W	Purchased	\$500	#	\$75,000	#	\$75,000	R/W COST
Width	(SF)	(Acres)	(SF)	(Acres)	(SF)	(Acres)	(Dollar)	(each)	(Dollar)	(each)	(Dollar)	(Dollar)
40 ft	9,780,488	224.5	295,200	6.8	9,485,288	217.8	\$108,876	4	\$300,000	2	\$150,000	\$558,876
20 & 30ft	9,471,488	217.4	295,200	6.8	9,176,288	210.7	\$105,329	4	\$300,000	2	\$150,000	\$555,329
								-				

SECTION D

EAST

ESTIMATES

SEGMENT 2

CONSTRUCTION

Bureau of Highways

ESTIMATE SHEET

County of:	Breathitt	From STA:		1044+50.0	00	
UPN		To STA:		1121+65.0	00	
Fed No.		Net Length, mile:		1.46		
Item No.		Type of Construction:	(Grade, Drain & S	urfac	ing
Road Name:	KY 15 -East Section D Seg 2 (20ft Median)	Class of Road:		Rural Arter		
		_				
Item #	Item	Quantity	Unit	Unit Price		Amount
	Roadway Exc (Mainline)	1,680,785	CU YD	\$ 2.50	\$	4,201,963
	Asph Surf CL3 (Mainline Driving Lanes)	2,719	TON	\$ 85.00	\$	231,115
	Asph Base CL3 (Mainline Driving Lanes)	21,870	TON	\$ 80.00	\$	1,749,600
	CS Base (Mainline Driving Lanes)	9,791	TON	\$ 16.00	\$	156,656
	Asph Surf CL2 (Mainline Shoulders)	2,124	TON	\$ 85.00	\$	180,540
	Asph Base CL2 (Mainline Shoulders)	5,523	TON	\$ 80.00	\$	441,840
	CS Base (Mainline Shoulders)	27,959	TON	\$ 16.00	\$	447,344
	Roadway Exc (Approaches/Entrances)	23,430	CU YD	\$ 2.50	\$	58,575
	Asph Surf CL2 (Approach Rd Driving Lanes)	287	TON	\$ 85.00	\$	24,395
	Asph Base CL2 (Approach Rd Driving Lanes)	1,868	TON	\$ 80.00	\$	149,440
	CS Base (Approach Rd Driving Lanes)	1,510	TON	\$ 16.00	\$	24,160
	Asph Surf (CL2 Approach Rd Shoulders)	,	TON	\$ 85.00		-
	Asph Base CL2 (Approach Rd Shoulders)		TON	\$ 80.00		-
	CS Base (Approach Rd Shoulders)		TON	\$ 16.00	_	-
	Concrete Median Barrier	7,410	LF	\$ 55.00	_	407,550
		., -				,
	MISC ITEMS (@ 25%)				\$	2,018,295
	MISC TIEMS (C 2570)				Ψ	2,010,273
	Mainline Bridges (Sta. 1077+14)	28,060	SQ FT	\$ 175.00	\$	4,910,500
	Frammie Bridges (Sta. 1077 + 11)	20,000	5011	Ψ 175.00	Ψ	1,510,500
					+	
					+	
					+	
					-	
					-	
					-	
	MOBILIZATION		@ 3%		\$	450,059
	DEMOBILIZATION		@ 1.5%		\$	225,030
	DEMODILIZATION		@ 1.J%		Ф	223,030
			Const	 ruction-SubTota	ıl \$	15,677,061
				ruction-Sub Fota 10 Engr & Cont		1,567,706
				onstruction-Tota	_	17,244,767
				ruction Cost/Mil		11,801,992
Estimate 11	D. Ford	Looked Edical		uchon Cosumi	υφ	11,001,992
Estimated by:		Lasted Edited: Lasted Edited:	12/1/2012	_		
Checked by:		Lasied Edited:		_		

 Right-of-way
 \$324,036

 Utilities
 \$230,000

 Construction
 \$17,244,767

 Total Cost
 \$17,798,803

 Cost/Mile
 \$12,181,164

East SecD2_20

Bureau of Highways

ESTIMATE SHEET

County of:	Breathitt	From STA:		1044+50.00)	
UPN		To STA:		1121+65.00)	
Fed No.		Net Length, mile:		1.46		
Item No.		Type of Construction:		Grade, Drain & Su	rfaci	ng
	KY 15 -East Section D Seg 2 (30ft Median)	Class of Road:		Rural Arteria		8
		_				
Item#	Item	Quantity	Unit	Unit Price	1	Amount
Ttem #	Roadway Exc (Mainline)	1,701,557	CU YD	\$ 2.50	\$	4,253,893
	Asph Surf CL3 (Mainline Driving Lanes)	2,719	TON	\$ 85.00	\$	231,115
	Asph Base CL3 (Mainline Driving Lanes)	21,870	TON	\$ 80.00	\$	1,749,600
	CS Base (Mainline Driving Lanes)	9,791	TON	\$ 16.00	\$	156,656
	Asph Surf CL2 (Mainline Shoulders)	1,246	TON	\$ 85.00	\$	105,910
	Asph Base CL2 (Mainline Shoulders)	3,240	TON	\$ 80.00	\$	259,200
	CS Base (Mainline Shoulders)		TON			
	` '	25,992			\$	415,872
	Roadway Exc (Approaches/Entrances)	23,430	CU YD	\$ 2.50	\$	58,575
	Asph Surf CL2 (Approach Rd Driving Lanes)	287	TON	\$ 85.00	\$	24,395
	Asph Base CL2 (Approach Rd Driving Lanes)	1,868	TON	\$ 80.00	\$	149,440
	CS Base (Approach Rd Driving Lanes)	1,510	TON	\$ 16.00	\$	24,160
	Asph Surf (CL2 Approach Rd Shoulders)		TON	\$ 85.00	\$	-
	Asph Base CL2 (Approach Rd Shoulders)		TON	\$ 80.00	\$	-
	CS Base (Approach Rd Shoulders)		TON	\$ 16.00	\$	_
	MISC ITEMS (@ 25%)				\$	1,857,204
	Mainline Bridges (Sta. 1077+14)	23,790	SQ FT	\$ 200.00	\$	4,758,000
	MOBILIZATION		@ 3%		\$	421,321
	DEMOBILIZATION		@ 1.5%		\$	210,660
					<u> </u>	
	1		Constr	uction-SubTotal	\$	14,676,001
				0 Engr & Contg		1,467,600
				nstruction-Total		16,143,601
				uction Cost/Mile		11,048,375
Estimated by:	D Ford	Lasted Edited:	12/1/2012		Ψ.	11,010,070
Checked by:		Lasted Edited:	12,1/2012	-		
Checked by.		Lusica Lanca.		-		

 Right-of-way
 \$324,036

 Utilities
 \$230,000

 Construction
 \$16,143,601

 Total Cost
 \$16,697,637

 Cost/Mile
 \$11,427,547

East SecD2_30

Bureau of Highways

ESTIMATE SHEET

County of:	Breathitt	From STA:		1044+50.00)	
UPN		To STA:		1121+65.00	,	
Fed No.		Net Length, mile:		1.46		
Item No.		Type of Construction:	(Grade, Drain & Su	rfaci	ng
Road Name:	KY 15 -East Section D Seg 2 (40ft Median)	Class of Road:		Rural Arteria		
		-				
Item #	Item	Quantity	Unit	Unit Price		Amount
	Roadway Exc (Mainline)	1,927,281	CU YD	\$ 2.50	\$	4,818,203
	Asph Surf CL3 (Mainline Driving Lanes)	2,719	TON	\$ 85.00	\$	231,115
	Asph Base CL3 (Mainline Driving Lanes)	21,870	TON	\$ 80.00	\$	1,749,600
	CS Base (Mainline Driving Lanes)	9,791	TON	\$ 16.00	\$	156,656
	Asph Surf CL2 (Mainline Shoulders)	1,586	TON	\$ 85.00	\$	134,810
	Asph Base CL2 (Mainline Shoulders)	4,124	TON	\$ 80.00	\$	329,920
	CS Base (Mainline Shoulders)	28,948	TON	\$ 16.00	\$	463,168
	Roadway Exc (Approaches/Entrances)	23,430	CU YD	\$ 2.50	\$	58,575
	Asph Surf CL2 (Approach Rd Driving Lanes)	287	TON	\$ 85.00	\$	24,395
	Asph Base CL2 (Approach Rd Driving Lanes)	1,868	TON	\$ 80.00	\$	149,440
	CS Base (Approach Rd Driving Lanes)	1,510	TON	\$ 16.00	\$	24,160
	Asph Surf (CL2 Approach Rd Shoulders)	,-	TON	\$ 85.00	\$	-
	Asph Base CL2 (Approach Rd Shoulders)		TON	\$ 80.00	\$	_
	CS Base (Approach Rd Shoulders)		TON	\$ 16.00	\$	-
	, <u>, , , , , , , , , , , , , , , , , , </u>			,		
	MISC ITEMS (@ 25%)				\$	2,035,011
					Ė	, , -
	Mainline Bridges (Sta. 1077+14)	25,620	SQ FT	\$ 200.00	\$	5,124,000
	,	- ,			Ė	- , , ,
	MOBILIZATION		@ 3%		\$	458,972
	DEMOBILIZATION		@ 1.5%		\$	229,486
						,
			Constr	uction-SubTotal	\$	15,987,510
				0 Engr & Contg		1,598,751
				nstruction-Total		17,586,261
				uction Cost/Mile		12,035,704
Estimated by:	D. Ford	Lasted Edited:	12/1/2012			
Checked by:		Lasted Edited:		_		

 Right-of-way
 \$325,364

 Utilities
 \$230,000

 Construction
 \$17,586,261

 Total Cost
 \$18,141,625

 Cost/Mile
 \$12,415,785

East SecD2_40

SECTION D

EAST

ESTIMATES

SEGMENT 2

RIGHT-OF-WAY

KY 15 PLANNING STUDY - East SECTION D (Segment 2)

STA. 1044+50 **to** 1121+65

			Approx. Ex. KY15 R/W		Acreage	Residential		Business				
	Approxim	ate Gross	Assume 8	0' Width	Approxir	nate Net	Cost @	Reloc.	Cost @	Reloc.	Cost @	TOTAL
Median	Propose	ed R/W	KY15 Length	7125	Prop. R/W	Purchased	\$500	#	\$75,000	#	\$75,000	R/W COST
Width	(SF)	(Acres)	(SF)	(Acres)	(SF)	(Acres)	(Dollar)	(each)	(Dollar)	(each)	(Dollar)	(Dollar)
40 ft	2,779,731	63.8	570,000	13.1	2,209,731	50.7	\$25,364	1	\$75,000	3	\$225,000	\$325,364
20 & 30ft	2,664,006	61.2	570,000	13.1	2,094,006	48.1	\$24,036	1	\$75,000	3	\$225,000	\$324,036

SECTION D

EAST

ESTIMATES

SEGMENT 3B

CONSTRUCTION

Bureau of Highways

ESTIMATE SHEET

	Breathitt	From STA:				
UPN		To STA:		1304+00.00)	
Fed No.		Net Length, mile:		3.45		
Item No.		Type of Construction:	(Brade, Drain & Su	rfaci	ng
Road Name:	KY 15 -East Section D Seg 3b (20ft Median)	Class of Road:		Rural Arteria	ıl	
Item #	Item	Quantity	Unit	Unit Price		Amount
	Roadway Exc (Mainline)	12,648,054	CU YD	\$ 2.50	\$	31,620,135
	Asph Surf CL3 (Mainline Driving Lanes)	6,411	TON	\$ 85.00		544,935
	Asph Base CL3 (Mainline Driving Lanes)	51,570	TON	\$ 80.00	\$	4,125,600
	CS Base (Mainline Driving Lanes)	23,087	TON	\$ 16.00	\$	369,392
	Asph Surf CL2 (Mainline Shoulders)	5,009	TON	\$ 85.00	\$	425,765
	Asph Base CL2 (Mainline Shoulders)	13,023	TON	\$ 80.00		1,041,840
	CS Base (Mainline Shoulders)	65,929	TON	\$ 16.00	\$	1,054,864
	Roadway Exc (Approaches/Entrances)	34,560	CU YD	\$ 2.50	\$	86,400
	Asph Surf CL2 (Approach Rd Driving Lanes)	700	TON	\$ 85.00	\$	59,500
	Asph Base CL2 (Approach Rd Driving Lanes)	5,561	TON	\$ 80.00	\$	444,880
	CS Base (Approach Rd Driving Lanes)	2,449	TON	\$ 16.00	\$	39,184
	Asph Surf (CL2 Approach Rd Shoulders)	318	TON	\$ 85.00	\$	27,030
	Asph Base CL2 (Approach Rd Shoulders)	828	TON	\$ 80.00	\$	66,240
	CS Base (Approach Rd Shoulders)	2,797	TON	\$ 16.00	\$	44,752
	Concrete Median Barrier	17,375	LF	\$ 55.00	\$	955,625
	MISC ITEMS (@ 25%)				\$	10,226,536
	Mainline Bridges (Sta. 1227+72)	79,120	SQ FT	\$ 175.00	\$	13,846,000
	-					
	1165+60 ~ 6' x 5' RCBC		LP SUM		\$	305,000
	MOBILIZATION		@ 3%		\$	1,958,510
	DEMOBILIZATION		@ 1.5%		\$	979,255
						-
		•	Constr	ruction-SubTotal	\$	68,221,443
			+1	0 Engr & Contg		6,822,144
			Co	nstruction-Total	\$	75,043,587
			Constr	uction Cost/Mile	\$	21,729,100

Estimated by: D. Ford	Lasted Edited:	12/1/2012
Checked by:	Lasted Edited:	

 Right-of-way
 \$852,179

 Utilities
 \$290,000

 Construction
 \$75,043,587

 Total Cost
 \$76,185,766

 Cost/Mile
 \$22,059,822

East SecD3b_20

Bureau of Highways

ESTIMATE SHEET

	ESTIMA	TE SHEET				
County of:	Breathitt	From STA:		1121+65.0)	
UPN		To STA:		1304+00.0)	
Fed No.		Net Length, mile:		3.45		
Item No.		Type of Construction:	C	Grade, Drain & Si		ng
Road Name:	KY 15 -East Section D Seg 3b (30ft Median)	Class of Road:		Rural Arteri	al	
Item#	Item	Quantity	Unit	Unit Price	Ī	Amount
	Roadway Exc (Mainline)	12,800,005	CU YD	\$ 2.50	\$	32,000,013
	Asph Surf CL3 (Mainline Driving Lanes)	6,411	TON	\$ 85.00	\$	544,935
	Asph Base CL3 (Mainline Driving Lanes)	51,570	TON	\$ 80.00		4,125,600
	CS Base (Mainline Driving Lanes)	23,087	TON	\$ 16.00		369,392
	Asph Surf CL2 (Mainline Shoulders)	2,938	TON	\$ 85.00		249,730
	Asph Base CL2 (Mainline Shoulders)	7,640	TON	\$ 80.00	\$	611,200
	CS Base (Mainline Shoulders)	61,291	TON	\$ 16.00	\$	980,656
	Roadway Exc (Approaches/Entrances)	34,560	CU YD	\$ 2.50	\$	86,400
	Asph Surf CL2 (Approach Rd Driving Lanes)	700	TON	\$ 85.00	\$	59,500
	Asph Base CL2 (Approach Rd Driving Lanes)	5,561	TON	\$ 80.00	\$	444,880
	CS Base (Approach Rd Driving Lanes)	2,449	TON	\$ 16.00	\$	39,184
	Asph Surf (CL2 Approach Rd Shoulders)	318	TON	\$ 85.00	\$	27,030
	Asph Base CL2 (Approach Rd Shoulders)	828	TON	\$ 80.00	\$	66,240
	CS Base (Approach Rd Shoulders)	2,797	TON	\$ 16.00	\$	44,752
	MISC ITEMS (@ 25%)				\$	9,912,378
	Mainline Bridges (Sta. 1227+72)	67,080	SQ FT	\$ 200.00	\$	13,416,000
	1165+60 ~ 6' x 5' RCBC		LP SUM		\$	310,000
					$oldsymbol{ol}}}}}}}}}}}}}}}}}$	
					<u> </u>	
	MOBILIZATION		@ 3%		\$	1,898,637
	DEMOBILIZATION		@ 1.5%		\$	949,318
				<u> </u>	<u> </u>	
				ruction-SubTota		66,135,845
				0 Engr & Contg		6,613,585
			Co	nstruction-Tota	1 \$	72,749,430

Estimated by: D. Ford Lasted Edited: 12/1/2012
Checked by: Lasted Edited: Lasted Edited:

 Right-of-way
 \$852,179

 Utilities
 \$290,000

 Construction
 \$72,749,430

 Total Cost
 \$73,891,609

 Cost/Mile
 \$21,395,541

East SecD3b_30

Construction Cost/Mile \$

21,064,820

Bureau of Highways

ESTIMATE SHEET

	County of: Breathitt From STA: 1121+65.00					
UPN		To STA:		1304+00.00)	
Fed No.		Net Length, mile:		3.45		
Item No.		Type of Construction:	C	rade, Drain & Su	rfaci	ng
Road Name:	KY 15 -East Section D Seg 3b (40ft Median)	Class of Road:		Rural Arteria		
		_				
Item #	Item	Quantity	Unit	Unit Price		Amount
	Roadway Exc (Mainline)	13,523,443	CU YD	\$ 2.50	\$	33,808,608
	Asph Surf CL3 (Mainline Driving Lanes)	6,411	TON	\$ 85.00	\$	544,935
	Asph Base CL3 (Mainline Driving Lanes)	51,570	TON	\$ 80.00	\$	4,125,600
	CS Base (Mainline Driving Lanes)	23,087	TON	\$ 16.00	\$	369,392
	Asph Surf CL2 (Mainline Shoulders)	3,740	TON	\$ 85.00	\$	317,900
	Asph Base CL2 (Mainline Shoulders)	9,724	TON	\$ 80.00	\$	777,920
	CS Base (Mainline Shoulders)	68,262	TON	\$ 16.00	\$	1,092,192
	Roadway Exc (Approaches/Entrances)	34,560	CU YD	\$ 2.50	\$	86,400
	Asph Surf CL2 (Approach Rd Driving Lanes)	700	TON	\$ 85.00	\$	59,500
	Asph Base CL2 (Approach Rd Driving Lanes)	5,561	TON	\$ 80.00	\$	444,880
	CS Base (Approach Rd Driving Lanes)	2,449	TON	\$ 16.00	\$	39,184
	Asph Surf (CL2 Approach Rd Shoulders)	318	TON	\$ 85.00	\$	27,030
	Asph Base CL2 (Approach Rd Shoulders)	828	TON	\$ 80.00	\$	66,240
	CS Base (Approach Rd Shoulders)	2,797	TON	\$ 16.00	\$	44,752
	es Base (ripproach na shoulders)	2,777	1011	Ψ 10.00	Ψ	11,732
	MICCITEMS (@ 250/)				φ	10 451 122
	MISC ITEMS (@ 25%)				\$	10,451,133
	M. '. I' D. 'I (\$\sqrt{207}, 70)	72.240	COLT	Φ 200.00	d.	1.4.440.000
	Mainline Bridges (Sta. 1227+72)	72,240	SQ FT	\$ 200.00	\$	14,448,000
	1167 60 CL FLDCDC		I D CID (Ф	227.000
	1165+60 ~ 6' x 5' RCBC		LP SUM		\$	325,000
					-	
	MOBILIZATION		@ 3%		\$	2,010,860
	DEMOBILIZATION		@ 1.5%		\$	1,005,430
				<u> </u>		
				uction-SubTotal	\$	70,044,956
				0 Engr & Contg		7,004,496
				nstruction-Total	_	77,049,452
			Constr	uction Cost/Mile	\$	22,309,904
Estimated by:	D. Ford	Lasted Edited:	12/1/2012	_		
Checked by:	Checked by: Lasted Edited:					

Right-of-way Utilities \$930,319 \$290,000 **\$77,049,452** Construction

\$78,269,771 **Total Cost** \$22,663,251 Cost/Mile

East SecD3b_40

SECTION D

EAST

ESTIMATES

SEGMENT 3B

RIGHT-OF-WAY

KY 15 PLANNING STUDY - East SECTION D (Segment 3b)

STA. 1121+65 **to** 1304+00

			Approx. Ex.	KY15 R/W			Acreage	Resid	lential	Bus	iness	
	Approxim	ate Gross	Assume 8	0' Width	Approxin	nate Net	Cost @	Reloc.	Cost @	Reloc.	Cost @	TOTAL
Median	Propose	ed R/W	KY15 Length	1035	Prop. R/W	Purchased	\$500	#	\$75,000	#	\$75,000	R/W COST
Width	(SF)	(Acres)	(SF)	(Acres)	(SF)	(Acres)	(Dollar)	(each)	(Dollar)	(each)	(Dollar)	(Dollar)
40 ft	9,258,172	212.5	82,800	1.9	9,175,372	210.6	\$105,319	11	\$825,000	0	\$0	\$930,319
20 & 30ft	8,984,647	206.3	82,800	1.9	8,901,847	204.4	\$102,179	10	\$750,000	0	\$0	\$852,179

SECTION D
EXISTING ALIGNMENT
SEGMENT 1A
ESTIMATES
CONSTRUCTION

Bureau of Highways

ESTIMATE SHEET

UPN	Breathitt	To STA:		1112+58 00)			
Fed No.		Net Length, mile: Type of Construction:		5.19	<u> </u>			
Item No.	KY 15 - Section D Segment 1a (20' Median)	Type of Construction: Class of Road:		Rural Arteria	uriacing			
Road Name:	KY 15 - Section D Segment 1a (20 Median)	Class of Road:		Kurai Arteria	11			
T #	Tr	0	TT	Hair Dai	_	A		
Item #	Item	Quantity	Unit	Unit Price	Φ.	Amount		
	4L-20' Median Const. (838+50 to 946+00)	10,750	FEET	\$ 1,075.00	\$	11,556,250		
	4L-20' Median Const. (946+00 to 1010+00)	6,400	FEET	\$ 1,940.00	\$	12,416,000		
	4L-20' Median Const. (1010+00 to 1112+58)	10,258	FEET	\$ 1,075.00	\$	11,027,350		
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					<u> </u>			
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					<u> </u>			
					<u> </u>			
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					\$			
	907+20 ~ 12' x 10' RCBC		LP SUM		\$	240,000		
	938+50 ~ 8' x 6' RCBC		LP SUM		\$	100,000		
	989+50 ~ DBL 10' x 8' RCBC		LP SUM		\$	320,000		
	1005+50 ~ 10' x 5' RCBC		LP SUM		\$	100,000		
	1025+70 ~ 4' x 4' RCBC		LP SUM		\$	35,000		
	1082+50 ~ 6' x 4' RCBC		LP SUM		\$	50,000		
	1082+30 ~ 0 X 4 RCBC		LF SUM		φ	30,000		
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	MODILIZATION		@ 20/		Φ.	1.075.220		
	MOBILIZATION		@ 3%		\$	1,075,338		
	DEMOBILIZATION		@ 1.5%		\$	537,669		
			~					
				uction-SubTotal		37,457,607		
				0 Engr & Contg		3,745,761		
				nstruction-Total		41,203,368		
				uction Cost/Mile	\$	7,937,601		
Estimated by:		Lasted Edited:	12/1/2012	_				
Checked by:		Lasted Edited:		_				

 Right-of-way
 \$3,630,401

 Utilities
 \$1,110,000

 Construction
 \$41,203,368

 Total Cost
 \$45,943,769

 Cost/Mile
 \$8,850,814

Sec D1a_20ft

Bureau of Highways

ESTIMATE SHEET

County of:	Breathitt	From STA:			838+50.00		
UPN		To STA:			1112+58.00	1	
Fed No.		Net Length, mile:			5.19		
Item No.		Type of Construction:	(rade	, Drain & Su	rfaci	ng
	KY 15 - Section D Segment 1a (30' Median)	Class of Road:			Rural Arteria		
		•					
Item #	Item	Quantity	Unit	Ţ	Jnit Price		Amount
100111	4L-30' Median Const. (838+50 to 946+00)	10,750	FEET	\$	1,000.00	\$	10,750,000
	4L-30' Median Const. (946+00 to 1010+00)	6,400	FEET	\$	1,900.00	\$	12,160,000
	4L-30' Median Const. (1010+00 to 1112+58)	10,258	FEET	\$	1,000.00	\$	10,258,000
	4L 30 Wedian Const. (1010+00 to 1112+30)	10,230	TEET	Ψ	1,000.00	Ψ	10,230,000
				<u> </u>			
	907+20 ~ 12' x 10' RCBC		LP SUM			\$	250,000
	938+50 ~ 8' x 6' RCBC		LP SUM			\$	105,000
	989+50 ~ DBL 10' x 8' RCBC		LP SUM			\$	335,000
	1005+50 ~ 10' x 5' RCBC		LP SUM			\$	105,000
	1025+70 ~ 4' x 4' RCBC		LP SUM			\$	37,500
	1082+50 ~ 6' x 4' RCBC					\$	
	1082+30 ~ 0 X 4 RCDC		LP SUM			Ф	52,500
				<u> </u>			
	MOBILIZATION		@ 3%			\$	1,021,590
	DEMOBILIZATION		@ 1.5%			\$	510,795
			Constr	uctio	n-SubTotal	\$	35,585,385
			+1	0 En	gr & Contg		3,558,539
			Co	nstrı	ıction-Total	\$	39,143,924
			Constr	uctio	n Cost/Mile	\$	7,540,861
Estimated by:	D. Ford	Lasted Edited:	12/1/2012				
Checked by:		Lasted Edited:		-			

 Right-of-way
 \$3,630,401

 Utilities
 \$1,110,000

 Construction
 \$39,143,924

 Total Cost
 \$43,884,325

 Cost/Mile
 \$8,454,073

Sec D1a_30ft

Bureau of Highways

ESTIMATE SHEET

	Breathitt			838+50.00			
UPN		•					
Fed No.		Net Length, mile:		5.19			
Item No.		Type of Construction:				ng	
Road Name:	KY 15 - Section D Segment 1a (40' Median)	Class of Road:		Rural Arteria	1		
Item #	Item	Quantity	Unit	Unit Price		Amount	
тен #	4L-40' Median Const. (838+50 to 946+00)	10,750	FEET	\$ 1,100.00	\$	11,825,000	
	4L-40' Median Const. (946+00 to 1010+00)	6,400	FEET	\$ 2,000.00	\$	12,800,000	
	4L-40' Median Const. (1010+00 to 1112+58)	10,258	FEET	\$ 1,100.00	\$	11,283,800	
	4L-40 Niculai Colist. (1010+00 to 1112+36)	10,230	ILLI	ψ 1,100.00	Ψ	11,203,000	
	007 - 20 121 101 DCDC		I D CIIM		\$	265,000	
	907+20 ~ 12' x 10' RCBC 938+50 ~ 8' x 6' RCBC		LP SUM LP SUM		\$		
	989+50 ~ DBL 10' x 8' RCBC		LP SUM LP SUM		\$	110,000 350,000	
	1005+50 ~ 10' x 5' RCBC		LP SUM		\$	110,000	
	1025+70 ~ 4' x 4' RCBC		LP SUM		\$	40,000	
	1082+50 ~ 6' x 4' RCBC		LP SUM		\$	55,000	
	1082+30 ~ 0 X 4 RCBC		LF SUM		φ	33,000	
	MOBILIZATION		@ 3%		\$	1,105,164	
	DEMOBILIZATION		@ 1.5%		\$	552,582	
	<u> </u>		Constr	uction-SubTotal	\$	38,496,546	
				0 Engr & Contg		3,849,655	
			Co	nstruction-Total	\$	42,346,201	
			Constr	uction Cost/Mile	\$	8,157,762	
Estimated by:		Lasted Edited:	12/1/2012	_			
Checked by:		Lasted Edited:					

 Right-of-way
 \$3,935,120

 Utilities
 \$1,110,000

 Construction
 \$42,346,201

 Total Cost
 \$47,391,321

 Cost/Mile
 \$9,129,676

Sec D1a_40ft

SECTION D
EXISTING ALIGNMENT
SEGMENT 1A
ESTIMATES
RIGHT-OF-WAY

KY 15 PLANNING STUDY - Ex. Alignment SECTION D (Segment 1a)

STA. 838+50 to 1112+58

			Approx. Ex.	KY15 R/W			Acreage	Resid	dential	Bus	iness	
	Approxima	ate Gross	Assume 8	0' Width	Approxin	nate Net	Cost @	Reloc.	Cost @	Reloc.	Cost @	TOTAL
Median	Propose	d R/W	KY15 Length	27408	Prop. R/W	Purchased	\$500	#	\$75,000	#	\$75,000	R/W COST
Width	(SF)	(Acres)	(SF)	(Acres)	(SF)	(Acres)	(Dollar)	(each)	(Dollar)	(each)	(Dollar)	(Dollar)
40 ft	11,786,337	270.6	2,192,640	50.3	9,593,697	220.2	\$110,120	42	\$3,150,000	9	\$675,000	\$3,935,120
20 & 30ft	11,375,217	261.1	2,192,640	50.3	9,182,577	210.8	\$105,401	39	\$2,925,000	8	\$600,000	\$3,630,401

SECTION D
EXISTING ALIGNMENT
SEGMENT 2
ESTIMATES
CONSTRUCTION

Bureau of Highways

ESTIMATE SHEET

	Breathitt			1112+58.00 1190+00.00		
		Net Length, mile:		1.47		
Item No.	KY 15 - Sec D Seg 2 (20ft Median)	Type of Construction:	G	Grade, Drain & Su	rfaci	ing
Road Name:	KY 15 - Sec D Seg 2 (20ft Median)	Class of Road:		Rural Arteria		
Item #	Item	Quantity	Unit	Unit Price		Amount
	Roadway Exc (Mainline)	1,680,785	CU YD	\$ 2.50	\$	4,201,963
	Asph Surf CL3 (Mainline Driving Lanes)	2,719	TON	\$ 85.00	\$	231,115
	Asph Base CL3 (Mainline Driving Lanes)	21,870	TON	\$ 80.00	\$	1,749,600
	CS Base (Mainline Driving Lanes)	9,791	TON	\$ 16.00		156,656
	Asph Surf CL2 (Mainline Shoulders)	2,124	TON	\$ 85.00	\$	180,540
	Asph Base CL2 (Mainline Shoulders)	5,523	TON	\$ 80.00	\$	441,840
	CS Base (Mainline Shoulders)	27,959	TON	\$ 16.00	\$	447,344
	Roadway Exc (Approaches/Entrances)	23,430	CU YD	\$ 2.50	\$	58,575
	Asph Surf CL2 (Approach Rd Driving Lanes)	287	TON	\$ 85.00	\$	24,395
	Asph Base CL2 (Approach Rd Driving Lanes)	1,868	TON	\$ 80.00	\$	149,440
	CS Base (Approach Rd Driving Lanes)	1,510	TON	\$ 16.00	\$	24,160
	Asph Surf (CL2 Approach Rd Shoulders)		TON	\$ 85.00	\$	-
	Asph Base CL2 (Approach Rd Shoulders)		TON	\$ 80.00	\$	-
	CS Base (Approach Rd Shoulders)		TON	\$ 16.00	\$	-
	Concrete Median Barrier	7,410	LF	\$ 55.00	\$	407,550
	MISC ITEMS (@ 25%)				\$	2,018,295
						_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Mainline Bridges (Sta. 1077+14)	28,060	SQ FT	\$ 175.00	\$	4,910,500
		_==,===	~ (_	1,2 = 0,2 0 0
	MOBILIZATION		@ 3%		\$	450,059
	DEMOBILIZATION		@ 1.5%		\$	225,030
	DEMODIFICATION		₩ 1.J/0		ψ	223,030
			Constr	<u> </u> uction-SubTotal	\$	15,677,061
				0 Engr & Contg	Ψ	1,567,706
				nstruction-Total	\$	17,244,767
				uction Cost/Mile		11,760,833
			Constit	CONTINUE	÷	11,700,033

Estimated by: D. Ford Lasted Edited: 12/1/2012
Checked by: Lasted Edited: Lasted Edited:

 Right-of-way
 \$250,232

 Utilities
 \$805,000

 Construction
 \$17,244,767

 Total Cost
 \$18,299,999

 Cost/Mile
 \$12,480,496

SecD2_20

Bureau of Highways

ESTIMATE SHEET

County of:	Breathitt	From STA:		1112+58.00		
UPN		To STA:		1190+00.00)	
Fed No.		Net Length, mile:		1.47		
nem no.		Net Length, mile: Type of Construction:	G	Grade, Drain & Su	rfaci	ing
Road Name:	KY 15 - Sec D Seg 2 (30ft Median)	Class of Road:		Rural Arteria	ıl	
Item#	Item	Quantity	Unit	Unit Price		Amount
	Roadway Exc (Mainline)	1,701,557	CU YD	\$ 2.50	\$	4,253,893
	Asph Surf CL3 (Mainline Driving Lanes)	2,719	TON	\$ 85.00	\$	231,115
	Asph Base CL3 (Mainline Driving Lanes)	21,870	TON	\$ 80.00	\$	1,749,600
	CS Base (Mainline Driving Lanes)	9,791	TON	\$ 16.00	\$	156,656
	Asph Surf CL2 (Mainline Shoulders)	1,246	TON	\$ 85.00	\$	105,910
	Asph Base CL2 (Mainline Shoulders)	3,240	TON	\$ 80.00	\$	259,200
	CS Base (Mainline Shoulders)	25,992	TON	\$ 16.00	\$	415,872
	Roadway Exc (Approaches/Entrances)	23,430	CU YD	\$ 2.50	\$	58,575
	Asph Surf CL2 (Approach Rd Driving Lanes)	287	TON	\$ 85.00	\$	24,395
	Asph Base CL2 (Approach Rd Driving Lanes)	1,868	TON	\$ 80.00	\$	149,440
	CS Base (Approach Rd Driving Lanes)	1,510	TON	\$ 16.00	\$	24,160
	Asph Surf (CL2 Approach Rd Shoulders)		TON	\$ 85.00	\$	
	Asph Base CL2 (Approach Rd Shoulders)		TON	\$ 80.00	\$	-
	CS Base (Approach Rd Shoulders)		TON	\$ 16.00	\$	
	MISC ITEMS (@ 25%)				\$	1,857,204
	Mainline Bridges (Sta. 1077+14)	23,790	SQ FT	\$ 200.00	\$	4,758,000
	MODII IZATION		@ 3%		\$	421 221
	MOBILIZATION DEMOBILIZATION		@ 1.5%		\$	421,321 210,660
	DEMODILIZATION		w 1.5%		Þ	210,000
			Constr	<u> </u> uction-SubTotal	¢	14,676,001
				0 Engr & Contg		1,467,600
				nstruction-Total		16,143,601
				uction Cost/Mile		11,009,844
Estimated by:	D. Ford	Lasted Edited:	12/1/2012	action Cost wille	Ψ	11,007,074
Checked by:	21.00	Lasted Edited:	12,1/2012	-		

 Right-of-way
 \$250,232

 Utilities
 \$805,000

 Construction
 \$16,143,601

 Total Cost
 \$17,198,833

 Cost/Mile
 \$11,729,506

SecD2_30

Bureau of Highways

ESTIMATE SHEET

	Breathitt	From STA:		1112+58.00			
UPN					0		
Fed No.		Net Length, mile:		1.47			
nem No.		Type of Construction:				ng	
Road Name:	KY 15 - Sec D Seg 2 (40ft Median)	Class of Road:		Rural Arter	al		
				_			
Item #	Item	Quantity	Unit	Unit Price		Amount	
	Roadway Exc (Mainline)	1,927,281	CU YD	\$ 2.50		4,818,203	
	Asph Surf CL3 (Mainline Driving Lanes)	2,719	TON	\$ 85.00		231,115	
	Asph Base CL3 (Mainline Driving Lanes)	21,870	TON	\$ 80.00		1,749,600	
	CS Base (Mainline Driving Lanes)	9,791	TON	\$ 16.00		156,656	
	Asph Surf CL2 (Mainline Shoulders)	1,586	TON	\$ 85.00		134,810	
	Asph Base CL2 (Mainline Shoulders)	4,124	TON	\$ 80.00	_	329,920	
	CS Base (Mainline Shoulders)	28,948	TON	\$ 16.00		463,168	
	Roadway Exc (Approaches/Entrances)	23,430	CU YD	\$ 2.50	_	58,575	
	Asph Surf CL2 (Approach Rd Driving Lanes)	287	TON	\$ 85.00		24,395	
	Asph Base CL2 (Approach Rd Driving Lanes)	1,868	TON	\$ 80.00	\$	149,440	
	CS Base (Approach Rd Driving Lanes)	1,510	TON	\$ 16.00	\$	24,160	
	Asph Surf (CL2 Approach Rd Shoulders)		TON	\$ 85.00	\$	-	
	Asph Base CL2 (Approach Rd Shoulders)		TON	\$ 80.00	\$	_	
	CS Base (Approach Rd Shoulders)		TON	\$ 16.00	\$	-	
					1		
	MISC ITEMS (@ 25%)				\$	2,035,011	
					十	, , , , , , , , , , , , , , , , , , , ,	
	Mainline Bridges (Sta. 1077+14)	25,620	SQ FT	\$ 200.00	\$	5,124,000	
	,	- 7			十		
					1		
					+		
					+		
					+		
					†		
					1		
					1		
				1	†		
				1	†		
				1	†		
				†	+		
	MOBILIZATION		@ 3%	†	\$	458,972	
	DEMOBILIZATION		@ 1.5%	†	\$	229,486	
	220312		C 1.5/0	 	Ψ	227,400	
			Constr	uction-SubTota	1 \$	15,987,510	
				0 Engr & Cont		1,598,751	
				nstruction-Tota		17,586,261	
				uction Cost/Mile		11,993,730	
Estimated by:	D. Ford	Lasted Edited:	12/1/2012		- T	11,775,750	
Estimated by.	212014	Lasted Laned.	12/1/2012	_			

Estimated by: D. Ford Lasted Edited: 12/1/2012

Checked by: Lasted Edited: Lasted

 Right-of-way
 \$251,565

 Utilities
 \$805,000

 Construction
 \$17,586,261

 Total Cost
 \$18,642,826

 Cost/Mile
 \$12,714,301

SecD2_40

SECTION D
EXISTING ALIGNMENT
SEGMENT 2
ESTIMATES
RIGHT-OF-WAY

KY 15 PLANNING STUDY - Ex. Alignment SECTION D (Segment 2)

STA. 1112+58 to 1190+00

			Approx. Ex.	KY15 R/W			Acreage	Resid	lential	Bus	iness	
	Approxim	ate Gross	Assume 8	0' Width	Approxin	nate Net	Cost @	Reloc.	Cost @	Reloc.	Cost @	TOTAL
Median	Propose	ed R/W	KY15 Length	7125	Prop. R/W	Purchased	\$500	#	\$75,000	#	\$75,000	R/W COST
Width	(SF)	(Acres)	(SF)	(Acres)	(SF)	(Acres)	(Dollar)	(each)	(Dollar)	(each)	(Dollar)	(Dollar)
40 ft	2,884,320	66.2	570,000	13.1	2,314,320	53.1	\$26,565	0	\$0	3	\$225,000	\$251,565
20 & 30ft	2,768,190	63.5	570,000	13.1	2,198,190	50.5	\$25,232	0	\$0	3	\$225,000	\$250,232

SECTION D

EXISTING ALIGNMENT

SEGMENT 3A

ESTIMATES

CONSTRUCTION

County of:	Breathitt	From STA:	: 1190+00.00			
		To STA:		1227+95.00		
Fed No.		Net Length, mile:		0.72		
Item No.	KY 15 - Section D Segment 3a	Type of Construction:	(ıg
Road Name:	KY 15 - Section D Segment 3a	Class of Road:		Rural Arteria	.1	
Item#	Item	Quantity	Unit	Unit Price		Amount
Teem "	5L Rural Construction (1190+00 to 1227+95)	3,795	FEET	\$ 1,100.00	\$	4,174,500
	(11) 0 (00 to 122 (1) 0)	5,775	1221	φ 1,100.00	Ψ	.,17.,000
	1104 : 00 - 51 - 41 DCDC		I D CI DA		ď	50,000
	1194+00 ~ 5' x 4' RCBC		LP SUM		\$	50,000
	MOBILIZATION		@ 3%		\$	126,735
	DEMOBILIZATION		@ 1.5%		\$	63,368
				uction-SubTotal	\$	4,414,603
				0 Engr & Contg		441,460
				nstruction-Total		4,856,063
				uction Cost/Mile	\$	6,756,261
Estimated by:		Lasted Edited:	12/1/2012	-		
Checked by:		Lasted Edited:				

Bureau of Highways

ESTIMATE SHEET

UPN	Breathitt	To STA:		1308+56.00)	
Fed No.		Net Length, mile: Type of Construction:		2.25		
Item No.	KY 15 - Section D Segment 3a	Type of Construction:	C	Grade, Drain & Su	rfaci	ng
Road Name:	KY 15 - Section D Segment 3a	Class of Road:		Rural Arteria	ıl	
Item #	Item	Quantity	Unit	Unit Price		Amount
	5L Rural Construction (1190+00 to 1227+95)	3,795	FEET	\$ 1,100.00	\$	4,174,500
	5L C-G Construction (1227+95 to 1308+56)	8,061	FEET	\$ 1,200.00	\$	9,673,200
	1194+00 ~ 5' x 4' RCBC		LP SUM		\$	50,000
	1233+50 ~ 8' x 6' RCBC		LP SUM		\$	100,000
					<u> </u>	
					<u> </u>	
					<u> </u>	
					<u> </u>	
	MOBILIZATION		@ 3%		\$	419,931
	DEMOBILIZATION		@ 1.5%		\$	209,966
					<u> </u>	
				uction-SubTotal		14,627,597
				0 Engr & Contg		1,462,760
				nstruction-Total		16,090,356
.	D. T			uction Cost/Mile	\$	7,165,746
Estimated by:		Lasted Edited:	12/1/2012	-		
Checked by:		Lasted Edited:		-		

 Right-of-way
 \$5,340,209

 Utilities
 \$965,000

 Construction
 \$16,090,356

 Total Cost
 \$22,395,565

 Cost/Mile
 \$9,973,733

Sec D3a

SECTION D
EXISTING ALIGNMENT
SEGMENT 3A
ESTIMATES
RIGHT-OF-WAY

KY 15 PLANNING STUDY - Ex. Alignment SECTION D (Segment 3a)

STA. 1190+00 to 1308+56

			Approx. Ex.	KY15 R/W			Acreage	Resid	lential	Bus	siness	
	Approxim	ate Gross	Assume 8	0' Width	Approxin	nate Net	Cost @	Reloc.	Cost @	Reloc.	Cost @	TOTAL
Median	Propose	ed R/W	KY15 Length	11856	Prop. R/W	Purchased	\$500	#	\$75,000	#	\$75,000	R/W COST
Width	(SF)	(Acres)	(SF)	(Acres)	(SF)	(Acres)	(Dollar)	(each)	(Dollar)	(each)	(Dollar)	(Dollar)
5Lane	2,273,473	52.2	948,480	21.8	1,324,993	30.4	\$15,209	41	\$3,075,000	30	\$2,250,000	\$5,340,209

SECTION D

WEST

ESTIMATES

CONSTRUCTION

Bureau of Highways

ESTIMATE SHEET

County of:	Breathitt	From STA:		838+50.00		
UPN	T	To STA:		1206+50.64		
Fed No.		Net Length, mile:		6.97		
Item No.		Type of Construction:	G	rade, Drain & Su	rfac	ing
Road Name:	KY 15 - West Section D (20ft Median)	Class of Road:				
		•				
Item #	Item	Quantity	Unit	Unit Price		Amount
	Roadway Exc (Mainline)	13,574,406	CU YD	\$ 2.50	\$	33,936,015
	Asph Surf CL3 (Mainline Driving Lanes)	13,655	TON	\$ 85.00	\$	1,160,675
	Asph Base CL3 (Mainline Driving Lanes)	109,667	TON	\$ 80.00	\$	8,773,360
	CS Base (Mainline Driving Lanes)	48,992	TON	\$ 16.00	\$	783,872
	Asph Surf CL2 (Mainline Shoulders)	9,979	TON	\$ 85.00	\$	848,215
	Asph Base CL2 (Mainline Shoulders)	25,945	TON	\$ 80.00	\$	2,075,600
	CS Base (Mainline Shoulders)	126,164	TON	\$ 16.00	\$	2,018,624
	Roadway Exc (Ramps)	50,474	CU YD	\$ 2.50	\$	126,185
	Asph Surf CL3 (Ramps)	181	TON	\$ 85.00	\$	15,385
	Asph Base CL3 (Ramps)	1,460	TON	\$ 80.00	\$	116,800
	CS Base (Ramps)	658	TON	\$ 16.00	\$	10,528
	Asph Surf CL2 (Ramp Shoulders)	66	TON	\$ 85.00	\$	5,610
	Asph Base CL2 (Ramp Shoulders)	170	TON	\$ 80.00	\$	13,600
	CS Base (Ramp Shoulders)	1,226	TON	\$ 16.00	\$	19,616
	Roadway Exc (Approaches/Entrances)	283,068	CU YD	\$ 2.50	\$	707,670
	Asph Surf CL2 (Approach Rd Driving Lanes)	910	TON	\$ 85.00	\$	77,350
	Asph Base CL2 (Approach Rd Driving Lanes)	4,159	TON	\$ 80.00	\$	332,720
	CS Base (Approach Rd Driving Lanes)	3,267	TON	\$ 16.00	\$	52,272
	Asph Surf (CL2 Approach Rd Shoulders)	35	TON	\$ 85.00	\$	2,975
	Asph Base CL2 (Approach Rd Shoulders)	84	TON	\$ 80.00	\$	6,720
	CS Base (Approach Rd Shoulders)	291	TON	\$ 16.00	\$	4,656
	Concrete Median Barrier	35,350	LF	\$ 55.00	\$	1,944,250
	Concrete Median Barrier	33,330	Li	Ψ 33.00	Ψ	1,744,230
	MISC ITEMS (@ 25%)				\$	13,258,175
	MISC TIEMS (@ 2570)				Ψ	13,236,173
	Mainline Bridges (Sta. 961+04)	55,660	SQ FT	\$ 175.00	\$	9,740,500
	Mainline Bridges (Sta. 101+04) Mainline Bridges (Sta. 1179+55)	15,180	SQ FT	\$ 175.00	\$	2,656,500
	Mainline Bridges (Sta. 1179+33) Mainline Bridges (Sta. 1190+02)	89,240	SQ FT	\$ 175.00	\$	15,617,000
	Ramp A	18,246	SQ FT	\$ 175.00		3,193,050
	Ramp D	25,400	SQ FT	\$ 175.00	\$	4,445,000
	868+35 ~ 5' x 4' RCBC	23,400	LP SUM	Ψ 173.00	\$	107,500
	878+80 ~ 10' x 6' RCBC		LP SUM		\$	355,000
	977+60 ~ 8' x 6' RCBC		LP SUM		\$	240,000
	1048+68 ~ 24' x 10' 3-Sided Arch Culvert		LP SUM		\$	1,200,000
	1082+59 ~ 12' x 10' RCBC		LP SUM		\$	1,035,000
	1119+74 ~ 6' x 4' RCBC		LP SUM		\$	95,000
	1119+74 ~ 0 X 4 RCBC 1155+20 ~ 6' X 5' RCBC		LP SUM		\$	225,000
	1133+20 ~ 0 X 3 KCBC		LF SUM		Ф	223,000
	MORILIZATION		@ 3%		¢	2 156 012
	MOBILIZATION DEMOBILIZATION		@ 1.5%		\$	3,156,013 1,578,006
	DEMODILIZATION		w 1.5%		ф	1,378,006
			Canat	<u> </u> uction-SubTotal	¢	109,934,442
				0 Engr & Contg nstruction-Total		10,993,444
						120,927,886
			Constri	uction Cost/Mile	Ф	17,350,221

Estimated by: D. Ford	Lasted Edited:	11/26/2012
Checked by:	Lasted Edited:	

 Right-of-way
 \$2,573,407

 Utilities
 \$860,000

 Construction
 \$120,927,886

 Total Cost
 \$124,361,293

 Cost/Mile
 \$17,842,832

Bureau of Highways

ESTIMATE SHEET

County of:					838+50.00		
UPN		To STA: _			1206+50.64		
Fed No.		Net Length, mile:			6.97		
Item No.		Type of Construction:	G	rade			ng
Road Name:	KY 15 - West Section D (30ft Median)	Class of Road:			Rural Arteria	1	
Item #	Item	Quantity	Unit	l i	Unit Price		Amount
π	Roadway Exc (Mainline)	13,175,670	CU YD	\$	2.50	\$	32,939,175
	Asph Surf CL3 (Mainline Driving Lanes)	13,655	TON	\$	85.00	\$	1,160,675
	Asph Base CL3 (Mainline Driving Lanes)	109,667	TON	\$	80.00	\$	8,773,360
	CS Base (Mainline Driving Lanes)	48,992	TON	\$	16.00	\$	783,872
	Asph Surf CL2 (Mainline Shoulders)	5,870	TON	\$	85.00	\$	498,950
	Asph Base CL2 (Mainline Shoulders)	15,263	TON	\$	80.00	\$	1,221,040
	CS Base (Mainline Shoulders)	122,163	TON	\$	16.00	\$	1,954,608
	Roadway Exc (Ramps)	50,474	CU YD	\$	2.50	\$	126,185
	Asph Surf CL3 (Ramps)	181	TON	\$	85.00	\$	15,385
	Asph Base CL3 (Ramps)	1,460	TON	\$	80.00	\$	116,800
	CS Base (Ramps)	658	TON	\$	16.00	\$	10,528
	Asph Surf CL2 (Ramp Shoulders)	66	TON	\$	85.00	\$	5,610
	Asph Base CL2 (Ramp Shoulders)	170	TON	\$	80.00	\$	13,600
	CS Base (Ramp Shoulders)	1,226	TON	\$	16.00	\$	19,616
	Roadway Exc (Approaches/Entrances)	283,068	CU YD	\$	2.50	\$	707,670
	Asph Surf CL2 (Approach Rd Driving Lanes)	910	TON	\$	85.00	\$	77,350
	Asph Base CL2 (Approach Rd Driving Lanes)	4,159	TON	\$	80.00	\$	332,720
	CS Base (Approach Rd Driving Lanes)	3,267	TON	\$	16.00	\$	52,272
	Asph Surf (CL2 Approach Rd Shoulders)	35	TON	\$	85.00	\$	2,975
	Asph Base CL2 (Approach Rd Shoulders)	84	TON	\$	80.00	\$	6,720
	CS Base (Approach Rd Shoulders)	291	TON	\$	16.00	\$	4,656
	es base (Approach Ru Shoulders)	291	TON	Ψ	10.00	Ψ	4,030
	MISC ITEMS (@ 25%)					\$	12,205,942
	Mainline Bridges (Sta. 961+04)	47,190	SQ FT	\$	200.00	\$	9,438,000
	Mainline Bridges (Sta. 1179+55)	12,870	SQ FT	\$	200.00	\$	2,574,000
	Mainline Bridges (Sta. 1190+02)	75,660	SQ FT	\$	200.00	\$	15,132,000
	Ramp A	15,469	SQ FT	\$	200.00	\$	3,093,800
	Ramp D	21,535	SQ FT	\$	200.00	\$	4,307,000
	868+35 ~ 5' x 4' RCBC		LP SUM			\$	110,000
	878+80 ~ 10' x 6' RCBC		LP SUM			\$	360,000
	977+60 ~ 8' x 6' RCBC		LP SUM			\$	245,000
	1048+68 ~ 24' x 10' 3-Sided Arch Culvert		LP SUM			\$	1,225,000
	1082+59 ~ 12' x 10' RCBC		LP SUM			\$	1,050,000
	1119+74 ~ 6' x 4' RCBC		LP SUM			\$	97,500
	1155+20 ~ 6' x 5' RCBC		LP SUM			\$	227,500
	MOBILIZATION		@ 3%			\$	2,966,685
	DEMOBILIZATION		@ 1.5%			\$	1,483,343

Estimated by: D. Ford	Lasted Edited:	11/26/2012
Checked by:	Lasted Edited:	

 Right-of-way
 \$2,573,407

 Utilities
 \$860,000

 Construction
 \$113,673,490

 Total Cost
 \$117,106,897

 Cost/Mile
 \$16,802,002

West SecD_30

103,339,537

10,333,954

113,673,490

16,309,391

Construction-SubTotal \$

Construction Cost/Mile

+10 Engr & Contg

Construction-Total \$

Bureau of Highways

ESTIMATE SHEET

County of:				1206+50.64			
UPN End No		Net Length, mile:					
rea No.				6.97 Grade, Drain & Surfacing			
Item No.	KY 15 - West Section D (40ft Median)	Class of Road:			Rural Arteria		ing
Road Name:	K i 13 - West Section D (401t Median)	Class of Road:			Rurai Arteria	l1	
Item#	Item	Quantity	Unit	Ţ	Unit Price		Amount
	Roadway Exc (Mainline)	14,740,272	CU YD	\$	2.50	\$	36,850,680
	Asph Surf CL3 (Mainline Driving Lanes)	13,655	TON	\$	85.00	\$	1,160,675
	Asph Base CL3 (Mainline Driving Lanes)	109,667	TON	\$	80.00	\$	8,773,360
	CS Base (Mainline Driving Lanes)	48,992	TON	\$	16.00	\$	783,872
	Asph Surf CL2 (Mainline Shoulders)	7,470	TON	\$	85.00	\$	634,950
	Asph Base CL2 (Mainline Shoulders)	19,422	TON	\$	80.00	\$	1,553,760
	CS Base (Mainline Shoulders)	136,077	TON	\$	16.00	\$	2,177,232
	Roadway Exc (Ramps)	50,474	CU YD	\$	2.50	\$	126,185
	Asph Surf CL3 (Ramps)	181	TON	\$	85.00	\$	15,385
	Asph Base CL3 (Ramps)	1,460	TON	\$	80.00	\$	116,800
	CS Base (Ramps)	658	TON	\$	16.00	\$	10,528
	Asph Surf CL2 (Ramp Shoulders)	66	TON	\$	85.00	\$	5,610
	Asph Base CL2 (Ramp Shoulders)	170	TON	\$	80.00	\$	13,600
	CS Base (Ramp Shoulders)	1,226	TON	\$	16.00	\$	19,616
	Roadway Exc (Approaches/Entrances)	283,068	CU YD	\$	2.50	\$	707,670
	Asph Surf CL2 (Approach Rd Driving Lanes)	910	TON	\$	85.00	\$	77,350
	Asph Base CL2 (Approach Rd Driving Lanes)	4,159	TON	\$	80.00	\$	332,720
	CS Base (Approach Rd Driving Lanes)	3,267	TON	\$	16.00	\$	52,272
	Asph Surf (CL2 Approach Rd Shoulders)	35	TON	\$	85.00	\$	2,975
	Asph Base CL2 (Approach Rd Shoulders)	84	TON	\$	80.00	\$	6,720
	CS Base (Approach Rd Shoulders)	291	TON	\$	16.00	\$	4,656
	MISC ITEMS (@ 25%)					\$	13,356,654
		70.05 0	~~~		• • • • • •	4	
	Mainline Bridges (Sta. 961+04)	50,820	SQ FT	\$	200.00	\$	10,164,000
	Mainline Bridges (Sta. 1179+55)	13,860	SQ FT	\$	200.00	\$	2,772,000
	Mainline Bridges (Sta. 1190+02)	81,480	SQ FT	\$	200.00	\$	16,296,000
	Ramp A	16,659	SQ FT	\$	200.00		3,331,800
	Ramp D	23,192	SQ FT	\$	200.00	\$	4,638,400
	868+35 ~ 5' x 4' RCBC		LP SUM	-		\$	112,500
	878+80 ~ 10' x 6' RCBC		LP SUM			\$	365,000
	977+60 ~ 8' x 6' RCBC		LP SUM			\$	250,000
	1048+68 ~ 24' x 10' 3-Sided Arch Culvert		LP SUM			\$	1,245,000
	1082+59 ~ 12' x 10' RCBC		LP SUM			\$	1,060,000
	1119+74 ~ 6' x 4' RCBC		LP SUM			\$	100,000
	1155+20 ~ 6' x 5' RCBC		LP SUM			\$	230,000
	MOBILIZATION		@ 3%	-		\$	3,220,439
	DEMOBILIZATION DEMOBILIZATION		@ 1.5%			\$	1.610.220
	1171 (1915 71211 /1775 1 15 71 8		W L. 170			LI)	1.010.440

Estimated by: D. Ford	Lasted Edited:	11/12/2012
Checked by:	Lasted Edited:	•

 Right-of-way
 \$2,804,787

 Utilities
 \$860,000

 Construction
 \$123,396,492

 Total Cost
 \$127,061,279

 Cost/Mile
 \$18,230,214

West SecD_40

Construction-SubTotal \$

+10 Engr & Contg

Construction-Total \$
Construction Cost/Mile \$

112,178,629

11,217,863 123,396,492

17,704,406

SECTION D

WEST

ESTIMATES

RIGHT-OF-WAY

KY 15 PLANNING STUDY - West SECTION D

STA. 838+50 **to** 1209+00

			Approx. Ex.	KY15 R/W			Acreage	Residential		Business		
	Approxim	ate Gross	Assume 8	0' Width	Approximate Net		Cost @	Reloc.	Cost @	Reloc.	Cost @	TOTAL
Median	Propose	d R/W	KY15 Length	0	Prop. R/W	Purchased	\$500	#	\$75,000	#	\$75,000	R/W COST
Width	(SF)	(Acres)	(SF)	(Acres)	(SF)	(Acres)	(Dollar)	(each)	(Dollar)	(each)	(Dollar)	(Dollar)
40 ft	15,663,005	359.6	0	0.0	15,663,005	359.6	\$179,787	26	\$1,950,000	9	\$675,000	\$2,804,787
20 & 30ft	15,107,255	346.8	0	0.0	15,107,255	346.8	\$173,407	24	\$1,800,000	8	\$600,000	\$2,573,407

SECTION D
WEST ALTERNATIVE 2
SEGMENT 1
ESTIMATES
CONSTRUCTION

Bureau of Highways

ESTIMATE SHEET

County of:	Breathitt	From STA:		838+50.00		
UPN		To STA:		938+50.00		
Fed No.		Net Length, mile:		1.89		
Item No.		Type of Construction:	C	Grade, Drain & Su	rfaci	ng
Road Name:	KY 15 - West Alt2 Sec D Seg 1 (20ft Median)	Class of Road:		Rural Arteria		
		-				
Item #	Item	Quantity	Unit	Unit Price		Amount
	Roadway Exc (Mainline)	819,977	CU YD	\$ 2.50	\$	2,049,943
	Asph Surf CL3 (Mainline Driving Lanes)	3,946	TON	\$ 85.00	\$	335,410
	Asph Base CL3 (Mainline Driving Lanes)	31,675	TON	\$ 80.00	\$	2,534,000
	CS Base (Mainline Driving Lanes)	14,139	TON	\$ 16.00	\$	226,224
	Asph Surf CL2 (Mainline Shoulders)	2,727	TON	\$ 85.00	\$	231,795
	Asph Base CL2 (Mainline Shoulders)	7,091	TON	\$ 80.00	\$	567,280
	CS Base (Mainline Shoulders)	34,595	TON	\$ 16.00	\$	553,520
	Roadway Exc (Approaches/Entrances)	35,000	CU YD	\$ 2.50	\$	87,500
	Asph Surf CL2 (Approach Rd Driving Lanes)	325	TON	\$ 85.00	\$	27,625
	Asph Base CL2 (Approach Rd Driving Lanes)	1,687	TON	\$ 80.00	\$	134,960
	CS Base (Approach Rd Driving Lanes)	1,180	TON	\$ 16.00	\$	18,880
	Asph Surf (CL2 Approach Rd Shoulders)	35	TON	\$ 85.00	\$	2,975
	Asph Base CL2 (Approach Rd Shoulders)	84	TON	\$ 80.00	\$	6,720
	CS Base (Approach Rd Shoulders)	291	TON	\$ 16.00	\$	4,656
	Concrete Median Barrier	10,000	LF	\$ 55.00	\$	550,000
	CONTROL HADDWIN DWIND	10,000		ψ 22.00	Ψ	220,000
	MISC ITEMS (@ 25%)				\$	1,832,872
	IMISC TILINIS (© 25%)				Ψ	1,032,072
					-	
					-	
					-	
	868+35 ~ 5' x 4' RCBC		LP SUM		\$	105,000
	878+80 ~ 10' x 6' RCBC		LP SUM		\$	355,000
	0/0+80 ~ 10 X 0 KCBC		LF SUM		Ф	333,000
					-	
	MOBILIZATION		@ 3%		\$	288,731
	DEMOBILIZATION		@ 1.5%		\$	144,365
	DEMODILIZATION		w 1.J%		φ	144,303
			Constr	l ruction_SubTotal	Φ	10,057,456
Construction-SubTotal +10 Engr & Contg						
Construction-Total						
Construction-10tal Construction Cost/Mile						11,063,202 5,841,371
Estimated by:	D. Ford	Lasted Edited:		ucuon Cosumile	ψ	5,041,5/1
-		Lasted Edited:	12/7/2012	-		
Checked by:		Lasted Edited:		-		

 Right-of-way
 \$1,232,325

 Utilities
 \$200,000

 Construction
 \$11,063,202

 Total Cost
 \$12,495,527

 Cost/Mile
 \$6,597,638

West Alt2 SecD1_20

Bureau of Highways

ESTIMATE SHEET

County of:	Breathitt	From STA:	A:838+50.00				
UPN		To STA:		938+50.00			
Fed No.		Net Length, mile:		1.89			
Item No.		Type of Construction:	G	rade, Drain & Su	rfaci	ng	
Road Name:	KY 15 - West Alt2 Sec D Seg 1 (30ft Median)	Class of Road:		Rural Arteria	ıl		
Item#	Item	Quantity	Unit	Unit Price		Amount	
	Roadway Exc (Mainline)	818,669	CU YD	\$ 2.50	\$	2,046,673	
	Asph Surf CL3 (Mainline Driving Lanes)	3,946	TON	\$ 85.00	\$	335,410	
	Asph Base CL3 (Mainline Driving Lanes)	31,675	TON	\$ 80.00	\$	2,534,000	
	CS Base (Mainline Driving Lanes)	14,139	TON	\$ 16.00	\$	226,224	
	Asph Surf CL2 (Mainline Shoulders)	1,616	TON	\$ 85.00	\$	137,360	
	Asph Base CL2 (Mainline Shoulders)	4,202	TON	\$ 80.00	\$	336,160	
	CS Base (Mainline Shoulders)	33,428	TON	\$ 16.00	\$	534,848	
	Roadway Exc (Approaches/Entrances)	35,000	CU YD	\$ 2.50	\$	87,500	
	Asph Surf CL2 (Approach Rd Driving Lanes)	325	TON	\$ 85.00	\$	27,625	
	Asph Base CL2 (Approach Rd Driving Lanes)	1,687	TON	\$ 80.00	\$	134,960	
	CS Base (Approach Rd Driving Lanes)	1,180	TON	\$ 16.00	\$	18,880	
	Asph Surf (CL2 Approach Rd Shoulders)	35	TON	\$ 85.00	\$	2,975	
	Asph Base CL2 (Approach Rd Shoulders)	84	TON	\$ 80.00	\$	6,720	
	CS Base (Approach Rd Shoulders)	291	TON	\$ 16.00	\$	4,656	
	MISC ITEMS (@ 25%)				\$	1,608,498	
	868+35 ~ 5' x 4' RCBC		LP SUM		\$	110,000	
	878+80 ~ 10' x 6' RCBC		LP SUM		\$	360,000	
	MOBILIZATION		@ 3%		\$	255,375	
	DEMOBILIZATION		@ 1.5%		\$	127,687	
					4	8,895,551	
Construction-SubTotal							
+10 Engr & Contg							
Construction-Total Construction Cost/Mile							
	B. F. J.	· - ··		uction Cost/Mile	\$	5,166,536	
Estimated by:	D. Ford	Lasted Edited:	12/7/2012				

Checked by: Lasted Edited:

 Right-of-way
 \$1,232,325

 Utilities
 \$200,000

 Construction
 \$9,785,106

 Total Cost
 \$11,217,431

 Cost/Mile
 \$5,922,803

West Alt2 SecD1_30

Bureau of Highways

ESTIMATE SHEET

	Breathitt	From STA:	A: 838+50.00				
UPN							
Fed No.		Net Length, mile:		1.89			
Item No.		Type of Construction:				ng	
Road Name:	KY 15 - West Alt2 Sec D Seg 1 (40ft Median)	Class of Road:		Rural Arteri	al		
Item #	Item	Quantity	Unit	Unit Price		Amount	
	Roadway Exc (Mainline)	1,037,435	CU YD	\$ 2.50	\$	2,593,588	
	Asph Surf CL3 (Mainline Driving Lanes)	3,946	TON	\$ 85.00	\$	335,410	
	Asph Base CL3 (Mainline Driving Lanes)	31,675	TON	\$ 80.00	\$	2,534,000	
	CS Base (Mainline Driving Lanes)	14,139	TON	\$ 16.00	\$	226,224	
	Asph Surf CL2 (Mainline Shoulders)	2,056	TON	\$ 85.00	\$	174,760	
	Asph Base CL2 (Mainline Shoulders)	5,345	TON	\$ 80.00	\$	427,600	
	CS Base (Mainline Shoulders)	37,250	TON	\$ 16.00	\$	596,000	
	Roadway Exc (Approaches/Entrances)	35,000	CU YD	\$ 2.50	\$	87,500	
	Asph Surf CL2 (Approach Rd Driving Lanes)	325	TON	\$ 85.00	\$	27,625	
	Asph Base CL2 (Approach Rd Driving Lanes)	1,687	TON	\$ 80.00	\$	134,960	
	CS Base (Approach Rd Driving Lanes)	1,180	TON	\$ 16.00	\$	18,880	
	Asph Surf (CL2 Approach Rd Shoulders)	35	TON	\$ 85.00	\$	2,975	
	Asph Base CL2 (Approach Rd Shoulders)	84	TON	\$ 80.00	\$	6,720	
	CS Base (Approach Rd Shoulders)	291	TON	\$ 16.00	\$	4,656	
	MISC ITEMS (@ 25%)				\$	1,792,725	
	868+35 ~ 5' x 4' RCBC		LP SUM		\$	112,500	
	878+80 ~ 10' x 6' RCBC		LP SUM		\$	365,000	
	MOBILIZATION		@ 3%		\$	283,234	
	DEMOBILIZATION		@ 1.5%		\$	141,617	
			Constr	uction-SubTotal	\$	9,865,973	
+10 Engr & Contg							
			Con	nstruction-Total	\$	10,852,570	
			Constru	uction Cost/Mile	\$	5,730,157	
Estimated by:	D. Ford	Lasted Edited:	12/7/2012				

Estimated by: D. Ford Lasted Edited: 12/1/2012

Checked by: Lasted Edited: 12/1/2012

 Right-of-way
 \$1,309,047

 Utilities
 \$200,000

 Construction
 \$10,852,570

 Total Cost
 \$12,361,617

 Cost/Mile
 \$6,526,934

West Alt2 SecD1_40

SECTION D
WEST ALTERNATIVE 2
SEGMENT 1
ESTIMATES
RIGHT-OF-WAY

KY 15 PLANNING STUDY - West Alternate 2 SECTION D (Segment 1)

STA. 838+50 **to** 938+50

			Approx. Ex.	Approx. Ex. KY15 R/W		Acreage	Residential		Bus			
	Approxim	ate Gross	Assume 8	0' Width	Approxir	nate Net	Cost @	Reloc.	Cost @	Reloc.	Cost @	TOTAL
Median	Propose	ed R/W	KY15 Length	10000	Prop. R/W	Purchased	\$500	#	\$75,000	#	\$75,000	R/W COST
Width	(SF)	(Acres)	(SF)	(Acres)	(SF)	(Acres)	(Dollar)	(each)	(Dollar)	(each)	(Dollar)	(Dollar)
40 ft	3,766,162	86.5	800,000	18.4	2,966,162	68.1	\$34,047	14	\$1,050,000	3	\$225,000	\$1,309,047
20 & 30ft	3,616,162	83.0	800,000	18.4	2,816,162	64.7	\$32,325	13	\$975,000	3	\$225,000	\$1,232,325

SECTION D
WEST ALTERNATIVE 2
SEGMENT 2
ESTIMATES
CONSTRUCTION

Bureau of Highways

ESTIMATE SHEET

County of:	Breathitt	From STA:	938+50.00
UPN		To STA:	1234+20.00
Fed No.		Net Length, mile:	5.60
Item No.		Type of Construction:	Grade, Drain & Surfacing
Road Name:	KY 15 - West Alt2 Sec D Seg 2 (20ft Median)	Class of Road:	Rural Arterial

Item #	Item	Quantity	Unit		nit Price		Amount
	Roadway Exc (Mainline)	12,463,272	CU YD	\$	2.50	\$	31,158,180
	Asph Surf CL3 (Mainline Driving Lanes)	9,709	TON	\$	85.00	\$	825,265
	Asph Base CL3 (Mainline Driving Lanes)	78,219	TON	\$	80.00	\$	6,257,520
	CS Base (Mainline Driving Lanes)	35,090	TON	\$	16.00	\$	561,440
	Asph Surf CL2 (Mainline Shoulders)	7,841	TON	\$	85.00	\$	666,485
	Asph Base CL2 (Mainline Shoulders)	20,386	TON	\$	80.00	\$	1,630,880
	CS Base (Mainline Shoulders)	99,164	TON	\$	16.00	\$	1,586,624
	Roadway Exc (Ramps)	50,474	CU YD	\$	2.50	\$	126,185
	Asph Surf CL3 (Ramps)	181	TON	\$	85.00	\$	15,385
	Asph Base CL3 (Ramps)	1,460	TON	\$	80.00	\$	116,800
	CS Base (Ramps)	658	TON	\$	16.00	\$	10,528
	Asph Surf CL2 (Ramp Shoulders)	66	TON	\$	85.00	\$	5,610
	Asph Base CL2 (Ramp Shoulders)	170	TON	\$	80.00	\$	13,600
	CS Base (Ramp Shoulders)	1,226	TON	\$	16.00	\$	19,616
	Roadway Exc (Approaches/Entrances)	60,210	CU YD	\$	2.50	\$	150,525
	Asph Surf CL2 (Approach Rd Driving Lanes)	584	TON	\$	85.00	\$	49,640
	Asph Base CL2 (Approach Rd Driving Lanes)	2,472	TON	\$	80.00	\$	197,760
	CS Base (Approach Rd Driving Lanes)	2,087	TON	\$	16.00	\$	33,392
	MISC ITEMS (@ 25%)					\$	10,856,359
	Mainline Bridges (Sta. 986+18)	53,360	SQ FT	\$	175.00	\$	9,338,000
	Mainline Bridges (Sta. 1204+75)	15,640	SQ FT	\$	175.00	\$	2,737,000
	Mainline Bridges (Sta. 1215+25)	89,240	SQ FT	\$	175.00	\$	15,617,000
	Ramp A	16,659	SQ FT	\$	175.00	\$	2,915,325
	Ramp D	23,192	SQ FT	\$	175.00	\$	4,058,600
	1000 05 01 51 000		T D CITY			Φ.	250,000
	1003+05 ~ 8' x 6' RCBC		LP SUM			\$	250,000
	1073+90 ~ 24' x 10' 3-Sided Arch Culvert		LP SUM			\$	1,245,000
	1107+80 ~ 12' x 10' RCBC		LP SUM			\$	985,000
	1144+95 ~ 6' x 4' RCBC		LP SUM			\$	75,000
	1180+40 ~ 6' x 5' RCBC		LP SUM			\$	200,000
	MOBILIZATION		@ 3%			\$	2,751,082
	DEMOBILIZATION		@ 1.5%			\$	1,375,541
						-	,- · - ,- · - 1
			Constr	uction	-SubTotal	\$	95,829,341
					r & Contg	_	9,582,934
Construction-Total							105,412,275
					Cost/Mile		18,822,347

Estimated by: D. Ford	Lasted Edited:	12/7/2012
Checked by:	Lasted Edited:	

 Right-of-way
 \$2,758,981

 Utilities
 \$450,000

 Construction
 \$105,412,275

 Total Cost
 \$108,621,256

 Cost/Mile
 \$19,395,341

West Alt2 SecD2_20

Bureau of Highways

ESTIMATE SHEET

County of:	Breathitt	From STA:		938+	-50.00			
UPN		To STA:		1234-	+20.00)		
Fed No.		Net Length, mile:	5.60					
Item No.		Type of Construction:	Grade, Drain & Surfacing					
Road Name:	KY 15 - West Alt2 Sec D Seg 2 (30ft Median)	Class of Road:	Rural Arterial					
Item #	Item	Quantity	Unit	Unit Pı	rice		Amount	
	Roadway Exc (Mainline)	12,661,000	CU YD	\$	2.50	\$	31,652,500	
	Asph Surf CL3 (Mainline Driving Lanes)	9,709	TON	\$	85.00	\$	825,265	
	Asph Base CL3 (Mainline Driving Lanes)	78,219	TON	\$	80.00	\$	6,257,520	

HeIII#	Itelli	Qualitity	Ullit	U.	IIII FIICE		Amount		
	Roadway Exc (Mainline)	12,661,000	CU YD	\$	2.50	\$	31,652,500		
	Asph Surf CL3 (Mainline Driving Lanes)	9,709	TON	\$	85.00	\$	825,265		
	Asph Base CL3 (Mainline Driving Lanes)	78,219	TON	\$	80.00	\$	6,257,520		
	CS Base (Mainline Driving Lanes)	35,090	TON	\$	16.00	\$	561,440		
	Asph Surf CL2 (Mainline Shoulders)	4,616	TON	\$	85.00	\$	392,360		
	Asph Base CL2 (Mainline Shoulders)	12,002	TON	\$	80.00	\$	960,160		
	CS Base (Mainline Shoulders)	95,998	TON	\$	16.00	\$	1,535,968		
	Roadway Exc (Ramps)	50,474	CU YD	\$	2.50	\$	126,185		
	Asph Surf CL3 (Ramps)	181	TON	\$	85.00	\$	15,385		
	Asph Base CL3 (Ramps)	1,460	TON	\$	80.00	\$	116,800		
	CS Base (Ramps)	658	TON	\$	16.00	\$	10,528		
	Asph Surf CL2 (Ramp Shoulders)	66	TON	\$	85.00	\$	5,610		
	Asph Base CL2 (Ramp Shoulders)	170	TON	\$	80.00	\$	13,600		
	CS Base (Ramp Shoulders)	1,226	TON	\$	16.00	\$	19,616		
	Roadway Exc (Approaches/Entrances)	60,210	CU YD	\$	2.50	\$	150,525		
	Asph Surf CL2 (Approach Rd Driving Lanes)	584	TON	\$	85.00	\$	49,640		
	Asph Base CL2 (Approach Rd Driving Lanes)	2,472	TON	\$	80.00	\$	197,760		
	CS Base (Approach Rd Driving Lanes)	2,087	TON	\$	16.00	\$	33,392		
	MISC ITEMS (@ 25%)					\$	10,731,064		
	Mainline Bridges (Sta. 986+18)	45,240	SQ FT	\$	200.00	\$	9,048,000		
	Mainline Bridges (Sta. 1204+75)	13,260	SQ FT	\$	200.00	\$	2,652,000		
	Mainline Bridges (Sta. 1215+25)	75,660	SQ FT	\$	200.00	\$	15,132,000		
	Ramp A	16,659	SQ FT	\$	200.00	\$	3,331,800		
	Ramp D	23,192	SQ FT	\$	200.00	\$	4,638,400		
	1003+05 ~ 8' x 6' RCBC		LP SUM			\$	245,000		
	1073+90 ~ 24' x 10' 3-Sided Arch Culvert		LP SUM			\$	1,220,000		
	1107+80 ~ 12' x 10' RCBC		LP SUM			\$	975,000		
	1144+95 ~ 6' x 4' RCBC		LP SUM			\$	72,500		
	1180+40 ~ 6' x 5' RCBC		LP SUM			\$	190,000		
	1100140 0 A3 Rebe		LI SCIVI			Ψ	170,000		
	MOBILIZATION		@ 3%			\$	2,734,801		
	DEMOBILIZATION		@ 1.5%			\$	1,367,400		
	Construction-SubTotal								
	+10 Engr & Contg Construction-Total								
	Construction Cost/Mile								

Estimated by: D. Ford	Lasted Edited:	12/7/2012
Checked by:	Lasted Edited:	

 Right-of-way
 \$2,758,981

 Utilities
 \$450,000

 Construction
 \$104,788,440

 Total Cost
 \$107,997,421

 Cost/Mile
 \$19,283,949

West Alt2 SecD2_30

Bureau of Highways

ESTIMATE SHEET

County of:	Breathitt	From STA:			938+50.00		
UPN		To STA:			1234+20.00		
Fed No.		Net Length, mile:			5.60		
Item No.		Type of Construction:	C	Grad	e, Drain & Su	rfac	ing
Road Name:	KY 15 - West Alt2 Sec D Seg 2 (40ft Median)	Class of Road:			Rural Arteria		
		_					
Item#	Item	Quantity	Unit		Unit Price		Amount
	Roadway Exc (Mainline)	13,486,633	CU YD	\$	2.50	\$	33,716,583
	Asph Surf CL3 (Mainline Driving Lanes)	9,709	TON	\$	85.00	\$	825,265
	Asph Base CL3 (Mainline Driving Lanes)	78,219	TON	\$	80.00	\$	6,257,520
	CS Base (Mainline Driving Lanes)	35,090	TON	\$	16.00	\$	561,440
	Asph Surf CL2 (Mainline Shoulders)	5,874	TON	\$	85.00	\$	499,290
	Asph Base CL2 (Mainline Shoulders)	15,271	TON	\$	80.00	\$	1,221,680
	CS Base (Mainline Shoulders)	106,937	TON	\$	16.00	\$	1,710,992
	Roadway Exc (Ramps)	50,474	CU YD	\$	2.50	\$	126,185
	Asph Surf CL3 (Ramps)	181	TON	\$	85.00	\$	15,385
	Asph Base CL3 (Ramps)	1,460	TON	\$	80.00	\$	116,800
	CS Base (Ramps)	658	TON	\$	16.00	\$	10,528
	Asph Surf CL2 (Ramp Shoulders)	66	TON	\$	85.00	\$	5,610
	Asph Base CL2 (Ramp Shoulders)	170	TON	\$	80.00	\$	13,600
	CS Base (Ramp Shoulders)	1,226	TON	\$	16.00	\$	19,616
	Roadway Exc (Approaches/Entrances)	60,210	CU YD	\$	2.50	\$	150,525
	Asph Surf CL2 (Approach Rd Driving Lanes)	584	TON	\$	85.00	\$	49,640
	Asph Base CL2 (Approach Rd Driving Lanes)	2,472	TON	\$	80.00	\$	197,760
	CS Base (Approach Rd Driving Lanes)	2,087	TON	\$	16.00	\$	33,392
		,					,
	MISC ITEMS (@ 25%)					\$	11,382,953
							, , ,
	Mainline Bridges (Sta. 986+18)	48,720	SQ FT	\$	200.00	\$	9,744,000
	Mainline Bridges (Sta. 1204+75)	14,280	SQ FT	\$	200.00	\$	2,856,000
	Mainline Bridges (Sta. 1215+25)	81,480	SQ FT	\$	200.00	\$	16,296,000
	Ramp A	16,659	SQ FT	\$	200.00		3,331,800
	Ramp D	23,192	SQ FT	\$	200.00	\$	4,638,400
		,-/ -	~ ~ ~ ~	<u> </u>		_	.,,
				l			
	1003+05 ~ 8' x 6' RCBC		LP SUM	1		\$	250,000
	1073+90 ~ 24' x 10' 3-Sided Arch Culvert		LP SUM	1		\$	1,245,000
	1107+80 ~ 12' x 10' RCBC		LP SUM			\$	985,000
			~ ~ ~	1		~	- 00,000

75,000

200,000

2,896,079

1,448,039

100,880,082

10,088,008

110,968,090

19,814,390

\$

\$

\$

\$

Construction-SubTotal \$ +10 Engr & Contg

Construction Cost/Mile

Construction-Total \$

LP SUM

LP SUM

@ 3%

@ 1.5%

Estimated by: D. Ford Lasted Edited: 12/7/2012

Checked by: Lasted Edited: Lasted

 Right-of-way
 \$2,989,072

 Utilities
 \$450,000

 Construction
 \$110,968,090

 Total Cost
 \$114,407,162

 Cost/Mile
 \$20,428,469

1144+95 ~ 6' x 4' RCBC

1180+40 ~ 6' x 5' RCBC

MOBILIZATION

DEMOBILIZATION

West Alt2 SecD2_40

SECTION D
WEST ALTERNATIVE 2
SEGMENT 2
ESTIMATES

RIGHT-OF-WAY

KY 15 PLANNING STUDY - West Alternate 2 SECTION D (Segment 2)

STA. 938+50 **to** 1234+20

			Approx. Ex. KY15 R/W		Acreage	Resid	dential	Bus	iness			
	Approxima	ate Gross	Assume 8	0' Width	Approxim	ate Net	Cost @	Reloc.	Cost @	Reloc.	Cost @	TOTAL
Median	Propose	d R/W	KY15 Length	0	Prop. R/W F	urchased	\$500	#	\$75,000	#	\$75,000	R/W COST
Width	(SF)	(Acres)	(SF)	(Acres)	(SF)	(Acres)	(Dollar)	(each)	(Dollar)	(each)	(Dollar)	(Dollar)
40 ft	12,115,995	278.1	0	0.0	12,115,995	278.1	\$139,072	32	\$2,400,000	6	\$450,000	\$2,989,072
20 & 30ft	11,672,445	268.0	0	0.0	11,672,445	268.0	\$133,981	30	\$2,250,000	5	\$375,000	\$2,758,981

SECTION E
ESTIMATES
CONSTRUCTION

Bureau of Highways

ESTIMATE SHEET

County of:	Breathitt	From STA:		717+50.00		
UPN		To STA:		838+50.00		
Fed No.		Net Length, mile:				
Item No.		Type of Construction:			ırfaci	ing
Road Name:		Class of Road:		Rural Arteria		
		-				
Item #	Item	Quantity	Unit	Unit Price		Amount
	Roadway Exc (Mainline)	656,260	CU YD	\$ 3.25	\$	2,132,845
	Asph Surf CL3 (Mainline Driving Lanes)	4,201	TON	\$ 85.00	_	357,085
	Asph Base CL3 (Mainline Driving Lanes)	33,764	TON	\$ 80.00	_	2,701,120
	CS Base (Mainline Driving Lanes)	15,098	TON	\$ 16.00		241,568
	Asph Surf CL2 (Mainline Shoulders)	3,159	TON	\$ 85.00	\$	268,515
	Asph Base CL2 (Mainline Shoulders)	8,214	TON	\$ 80.00	\$	657,120
	CS Base (Mainline Shoulders)	39,967	TON	\$ 16.00	_	639,472
	Roadway Exc (Approaches/Entrances)	166,735	CU YD	\$ 3.25	_	541,889
	Asph Surf CL2 (Approach Rd Driving Lanes)	913	TON	\$ 85.00	_	77,605
	Asph Base CL2 (Approach Rd Driving Lanes)	3,378	TON	\$ 80.00	_	270,240
	CS Base (Approach Rd Driving Lanes)	3,235	TON	\$ 16.00	\$	51,760
	Asph Surf (CL2 Approach Rd Shoulders)	3,233	TON	\$ 85.00	\$	31,700
	Asph Base CL2 (Approach Rd Shoulders)		TON	\$ 80.00	_	
	CS Base (Approach Rd Shoulders)		TON	\$ 16.00	\$	
	Concrete Median Barrier	11,150	LF	\$ 55.00	\$	613,250
	Concrete Median Barrier	11,130	LI	\$ 33.00	φ	013,230
	MISC ITEMS (@ 25%)				\$	2,138,117
	MISC TIEMS (@ 25%)				φ	2,136,117
	Mainline Bridges (Sta. 771+80)	25,300	SQ FT	\$ 175.00	\$	4,427,500
	Mainline Bridges (Sta. 771+80) Mainline Bridges (Sta. 782+53)	26,496	SQ FT	\$ 175.00	\$	4,636,800
	Mainline Bridges (Sta. 831+81)	23,000	SQ FT	\$ 175.00	\$	4,025,000
	Wallinges (Sta. 651+61)	23,000	SQTT	\$ 175.00	φ	4,023,000
	749+50 ~ 6' x 5' RCBC		LP SUM		\$	60,000
	761+76 ~ 6' x 5' RCBC		LP SUM		\$	65,000
	Appr 763+00 Rt. ~ 5' x 5' RCBC		LP SUM		\$	35,000
	801+40 ~ 6' x 5' RCBC		LP SUM		\$	65,000
	001+40 ~ 0 X 3 RCBC		LI SUM		Ψ	05,000
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	MOBILIZATION		@ 3%		\$	720,147
	DEMOBILIZATION		@ 1.5%		\$	360,073
	DEMODILIZATION		w 1.J%	 	Ψ	300,073
			Const	<u> </u> ruction-SubTotal	\$	25,085,106
				O Engr & Contg	_	2,5085,106
				nstruction-Total		27,593,617
				nstruction-1 otal uction Cost/Mile	-	12,040,851
Patimate 11	D. Ford	Logi-JEdic 1		uchon Cost/Mile	Φ	12,040,831
Estimated by:		Lasted Edited:	11/26/2012	-		
Checked by:		Lasted Edited:		_		

 Right-of-way
 \$1,078,739

 Utilities
 \$830,000

 Construction
 \$27,593,617

 Total Cost
 \$29,502,356

 Cost/Mile
 \$12,873,755

West SecE_20

Bureau of Highways

ESTIMATE SHEET

County of:		From STA:			717+50.00		
UPN		To STA: _			838+50.00		
Fed No.		Net Length, mile:			2.29		
Item No.		Type of Construction:	C	Grade			ng
Road Name:	KY 15 - West Section E (30ft Median)	Class of Road:			Rural Arteria	.1	
Item #	Item	Quantity	Unit		Unit Price		Amount
	Roadway Exc (Mainline)	666,400	CU YD	\$	3.25	\$	2,165,800
	Asph Surf CL3 (Mainline Driving Lanes)	4,201	TON	\$	85.00	\$	357,085
	Asph Base CL3 (Mainline Driving Lanes)	33,764	TON	\$	80.00	\$	2,701,120
	CS Base (Mainline Driving Lanes)	15,098	TON	\$	16.00	\$	241,568
	Asph Surf CL2 (Mainline Shoulders)	1,861	TON	\$	85.00	\$	158,185
	Asph Base CL2 (Mainline Shoulders)	4,839	TON	\$	80.00	\$	387,120
	CS Base (Mainline Shoulders)	38,683	TON	\$	16.00	\$	618,928
	Roadway Exc (Approaches/Entrances)	166,735	CU YD	\$	3.25	\$	541,889
	Asph Surf CL2 (Approach Rd Driving Lanes)	913	TON	\$	85.00	\$	77,605
	Asph Base CL2 (Approach Rd Driving Lanes)	3,378	TON	\$	80.00	\$	270,240
	CS Base (Approach Rd Driving Lanes)	3,235	TON	\$	16.00	\$	51,760
	Asph Surf (CL2 Approach Rd Shoulders)		TON	\$	85.00	\$	-
	Asph Base CL2 (Approach Rd Shoulders)		TON	\$	80.00	\$	-
	CS Base (Approach Rd Shoulders)		TON	\$	16.00	\$	-
	MISC ITEMS (@ 25%)					\$	1,892,825
	Mainline Bridges (Sta. 771+80)	21,450	SQ FT	\$	200.00	\$	4,290,000
	Mainline Bridges (Sta. 782+53)	22,464	SQ FT	\$	200.00	\$	4,492,800
	Mainline Bridges (Sta. 831+81)	19,500	SQ FT	\$	200.00	\$	3,900,000
	749+50 ~ 6' x 5' RCBC		LP SUM			\$	62,500
	761+76 ~ 6' x 5' RCBC		LP SUM			\$	67,500
	Appr 763+00 Rt. ~ 5' x 5' RCBC		LP SUM			\$	35,000
	801+40 ~ 6' x 5' RCBC		LP SUM			\$	67,500
	MOBILIZATION		@ 3%			\$	671,383
	DEMOBILIZATION		@ 1.5%			\$	335,691
			Constr	ucti	on-SubTotal	\$	23,386,499
					ngr & Contg		2,338,650
					uction-Total		25,725,149
			Constr	uctio	on Cost/Mile	\$	11,225,520

Estimated by: D. Ford Lasted Edited: 11/26/2012 Checked by: Lasted Edited:

Right-of-way \$1,078,739 Utilities \$830,000 Construction \$25,725,149 **Total Cost** \$27,633,888 Cost/Mile \$12,058,424

West SecE_30

Bureau of Highways

ESTIMATE SHEET

	Breathitt	From STA: _ To STA:		717+50.00 838+50.00		
Fed No.		Net Length, mile:		2.29		
Item No.		Type of Construction:	G	Grade, Drain & Su	rfaci	ng
Road Name:	KY 15 - West Section E (40ft Median)	Class of Road:		Rural Arteria		
Item #	Item	Quantity	Unit	Unit Price		Amount
	Roadway Exc (Mainline)	805,196	CU YD	\$ 3.25	\$	2,616,887
	Asph Surf CL3 (Mainline Driving Lanes)	4,201	TON	\$ 85.00	\$	357,085
	Asph Base CL3 (Mainline Driving Lanes)	33,764	TON	\$ 80.00	\$	2,701,120
	CS Base (Mainline Driving Lanes)	15,098	TON	\$ 16.00	\$	241,568
	Asph Surf CL2 (Mainline Shoulders)	2,368	TON	\$ 85.00	\$	201,280
	Asph Base CL2 (Mainline Shoulders)	6,157	TON	\$ 80.00	\$	492,560
	CS Base (Mainline Shoulders)	43,092	TON	\$ 16.00	\$	689,472
	Roadway Exc (Approaches/Entrances)	166,735	CU YD	\$ 3.25	\$	541,889
	Asph Surf CL2 (Approach Rd Driving Lanes)	913	TON	\$ 85.00		77,605
	Asph Base CL2 (Approach Rd Driving Lanes)	3,378	TON	\$ 80.00	\$	270,240
	CS Base (Approach Rd Driving Lanes)	3,235	TON	\$ 16.00	\$	51,760
	Asph Surf (CL2 Approach Rd Shoulders)		TON	\$ 85.00	\$	-
	Asph Base CL2 (Approach Rd Shoulders)		TON	\$ 80.00	\$	-
	CS Base (Approach Rd Shoulders)		TON	\$ 16.00	\$	-
	MISC ITEMS (@ 25%)				\$	2,060,367
	Mainline Bridges (Sta. 771+80)	23,100	SQ FT	\$ 200.00	\$	4,620,000
	Mainline Bridges (Sta. 782+53)	24,192	SQ FT	\$ 200.00	\$	4,838,400
	Mainline Bridges (Sta. 831+81)	21,000	SQ FT	\$ 200.00	\$	4,200,000
	749+50 ~ 6' x 5' RCBC		LP SUM		\$	65,000
	761+76 ~ 6' x 5' RCBC		LP SUM		\$	70,000
	Appr 763+00 Rt. ~ 5' x 5' RCBC		LP SUM		\$	35,000
	801+40 ~ 6' x 5' RCBC		LP SUM		\$	70,000
	MODII IZ ATION		@ 20/		Ф	726.007
	MOBILIZATION		@ 3%		\$	726,007
	DEMOBILIZATION		@ 1.5%		\$	363,003
			Constr	<u> </u> uction-SubTotal	\$	25,289,243
				0 Engr & Contg	_	2,528,924
				nstruction-Total		27,818,167
				uction Cost/Mile		12,138,837
			2 V2 (,,,

Estimated by: D. Ford
Lasted Edited: 11/12/2012
Checked by: Lasted Edited: Lasted Edited:

 Right-of-way
 \$1,455,822

 Utilities
 \$830,000

 Construction
 \$27,818,167

 Total Cost
 \$30,103,989

 Cost/Mile
 \$13,136,286

West SecE_40

SECTION E

ESTIMATES

RIGHT-OF-WAY

KY 15 PLANNING STUDY - West SECTION E

STA. 717+50 **to** 838+50

	Approx. Ex. KY15 R/W				Acreage	Resid	lential	Business				
	Approxim	ate Gross	Assume 8	0' Width	Approxim	nate Net	Cost @	Reloc.	Cost @	Reloc.	Cost @	TOTAL
Median	Propose	ed R/W	KY15 Length	12100	Prop. R/W	Purchased	\$500	#	\$75,000	#	\$75,000	R/W COST
Width	(SF)	(Acres)	(SF)	(Acres)	(SF)	(Acres)	(Dollar)	(each)	(Dollar)	(each)	(Dollar)	(Dollar)
40 ft	3,653,216	83.9	968,000	22.2	2,685,216	61.6	\$30,822	16	\$1,200,000	3	\$225,000	\$1,455,822
20 & 30ft	3,471,716	79.7	968,000	22.2	2,503,716	57.5	\$28,739	13	\$975,000	1	\$75,000	\$1,078,739

SECTION F

SEGMENT 1

ESTIMATES

CONSTRUCTION

Bureau of Highways

ESTIMATE SHEET

County of:	Perry	From STA:		228+50.00		
UPN		To STA:		378+00.00		
Fed No.		Net Length, mile:		2.83		
Item No.		Type of Construction:			rfaci	ing
	KY 15 - West Section F Segmet 1 (20ft Median)	Class of Road:		Rural Arteria		<u> </u>
rtoud I tullio.	111 15 West Section 1 Segment 1 (2011 Medium)	Class of Road.		Traini i ii toi i		
Item #	Item	Quantity	Unit	Unit Price		Amount
π	Roadway Exc (Mainline)	1,231,126	CU YD	\$ 2.50	\$	3,077,815
	Asph Surf CL3 (Mainline Driving Lanes)	5,619	TON	\$ 85.00	\$	477,615
	Asph Base CL3 (Mainline Driving Lanes)	45,166	TON	\$ 80.00	\$	3,613,280
	CS Base (Mainline Driving Lanes)	20,200	TON	\$ 16.00	\$	
					\$	323,200
	Asph Surf CL2 (Mainline Shoulders)	4,255	TON	\$ 85.00		361,675
	Asph Base CL2 (Mainline Shoulders)	11,063	TON	\$ 80.00	\$	885,040
	CS Base (Mainline Shoulders)	53,675	TON	\$ 16.00	\$	858,800
	Roadway Exc (Appr/Entrances/Ramps)	171,460	CU YD	\$ 2.50	\$	428,650
	Asph Surf CL2 (Approach Rd Driving Lanes)	1,059	TON	\$ 85.00	\$	90,015
	Asph Base CL2 (Approach Rd Driving Lanes)	4,349	TON	\$ 80.00	\$	347,920
	CS Base (Approach Rd Driving Lanes)	3,766	TON	\$ 16.00	\$	60,256
	Asph Surf (CL2 Approach Rd Shoulders)		TON	\$ 85.00	\$	_
	Asph Base CL2 (Approach Rd Shoulders)		TON	\$ 80.00	\$	_
	CS Base (Approach Rd Shoulders)		TON	\$ 16.00	\$	
	Concrete Median Barrier	14,950	LF	\$ 55.00	\$	822,250
		1 1,500		ψ 22.00	Ψ	022,200
					 	
					 	
	MIGG ITENAG (© 250/)				Φ.	2.026.620
	MISC ITEMS (@ 25%)				\$	2,836,629
					—	
					<u> </u>	
					Ь.	
	315+72 ~ 8' x 7' RCBC Extension		LP SUM		\$	45,000
	MOBILIZATION		@ 3%		\$	426,844
	DEMOBILIZATION	+			\$	
	DEMODILIZATION	1	@ 1.5%		Ф	213,422
	<u> </u>		O : 4		Φ	14.000.412
				uction-SubTotal		14,868,412
				0 Engr & Contg		1,486,841
				nstruction-Total		16,355,253
			Constru	uction Cost/Mile	\$	5,776,303

Estimated by: D. Ford	Lasted Edited:	11/21/2012
Checked by:	Lasted Edited:	

 Right-of-way
 \$1,387,473

 Utilities
 \$1,020,000

 Construction
 \$16,355,253

 Total Cost
 \$18,762,726

 Cost/Mile
 \$6,626,568

West SecF1_20

Bureau of Highways

ESTIMATE SHEET

County of:	Perry	From STA:		228+50.00		
UPN		To STA:		378+00.00		
Fed No.		Net Length, mile:		2.83		
Item No.		Type of Construction:			rfaci	ng
	KY 15 - West Section F Segmet 1 (30ft Median)	Class of Road:		Rural Arteria		
		-				
Item #	Item	Quantity	Unit	Unit Price		Amount
	Roadway Exc (Mainline)	1,239,358	CU YD	\$ 2.50	\$	3,098,395
	Asph Surf CL3 (Mainline Driving Lanes)	5,619	TON	\$ 85.00	\$	477,615
	Asph Base CL3 (Mainline Driving Lanes)	45,166	TON	\$ 80.00	\$	3,613,280
	CS Base (Mainline Driving Lanes)	20,200	TON	\$ 16.00	\$	323,200
	Asph Surf CL2 (Mainline Shoulders)	2,490	TON	\$ 85.00	\$	211,650
	Asph Base CL2 (Mainline Shoulders)	6,475	TON	\$ 80.00	\$	518,000
	CS Base (Mainline Shoulders)	52,049	TON	\$ 16.00	\$	832,784
	Roadway Exc (Appr/Entrances/Ramps)	171,460	CU YD	\$ 2.50	\$	428,650
	Asph Surf CL2 (Approach Rd Driving Lanes)	1,059	TON	\$ 85.00	\$	90,015
	Asph Base CL2 (Approach Rd Driving Lanes)	4,349	TON	\$ 80.00	\$	347,920
	CS Base (Approach Rd Driving Lanes)	3,766	TON	\$ 16.00	\$	60,256
	Asph Surf (CL2 Approach Rd Shoulders)	- 7	TON	\$ 85.00	\$	-
	Asph Base CL2 (Approach Rd Shoulders)		TON	\$ 80.00	\$	
	CS Base (Approach Rd Shoulders)		TON	\$ 16.00	\$	
	`					
	MISC ITEMS (@ 25%)				\$	2,500,441
	, ,					
	315+72 ~ 8' x 7' RCBC Extension		LP SUM		\$	45,000
	MOBILIZATION		@ 3%		\$	376,416
	DEMOBILIZATION		@ 1.5%		\$	188,208
				ruction-SubTotal		13,111,831
				0 Engr & Contg		1,311,183
				nstruction-Total		14,423,014
			Constr	uction Cost/Mile	\$	5,093,880
Estimated by:	D. Ford	Lasted Edited:	11/21/2012			

 Right-of-way
 \$1,387,473

 Utilities
 \$1,020,000

 Construction
 \$14,423,014

 Total Cost
 \$16,830,487

 Cost/Mile
 \$5,944,145

Checked by:

West SecF1_30

Lasted Edited:

Bureau of Highways

ESTIMATE SHEET

County of:	Perry	From STA:		228+50.00		
UPN		To STA:		378+00.00		
Fed No.		Net Length, mile:		2.83		
Item No.		Type of Construction:	(Grade, Drain & Su	rfaci	ng
	KY 15 - West Section F Segmet 1 (40ft Median)	Class of Road:		Rural Arteria		
		-				
Item #	Item	Quantity	Unit	Unit Price		Amount
	Roadway Exc (Mainline)	1,548,926	CU YD	\$ 2.50	\$	3,872,315
	Asph Surf CL3 (Mainline Driving Lanes)	5,619	TON	\$ 85.00	\$	477,615
	Asph Base CL3 (Mainline Driving Lanes)	45,166	TON	\$ 80.00	\$	3,613,280
	CS Base (Mainline Driving Lanes)	20,200	TON	\$ 16.00	\$	323,200
	Asph Surf CL2 (Mainline Shoulders)	3,170	TON	\$ 85.00	\$	269,450
	Asph Base CL2 (Mainline Shoulders)	8,242	TON	\$ 80.00	\$	659,360
	CS Base (Mainline Shoulders)	57,962	TON	\$ 16.00	\$	927,392
	Roadway Exc (Appr/Entrances/Ramps)	171,460	CU YD	\$ 2.50	\$	428,650
	Asph Surf CL2 (Approach Rd Driving Lanes)	1,059	TON	\$ 85.00	\$	90,015
	Asph Base CL2 (Approach Rd Driving Lanes)	4,349	TON	\$ 80.00	\$	347,920
	CS Base (Approach Rd Driving Lanes)	3,766	TON	\$ 16.00	\$	60,256
	Asph Surf (CL2 Approach Rd Shoulders)	2,	TON	\$ 85.00	\$	-
	Asph Base CL2 (Approach Rd Shoulders)		TON	\$ 80.00	\$	
	CS Base (Approach Rd Shoulders)		TON	\$ 16.00	\$	_
	(F)					
	MISC ITEMS (@ 25%)				\$	2,767,363
	(= = + + + + + + + + + + + + + + + + +				_	
	315+72 ~ 8' x 7' RCBC Extension		LP SUM		\$	50,000
	MOBILIZATION		@ 3%		\$	416,604
	DEMOBILIZATION		@ 1.5%		\$	208,302
						·
		•	Constr	ruction-SubTotal	\$	14,511,723
			+1	0 Engr & Contg		1,451,172
				nstruction-Total		15,962,895
			Constr	uction Cost/Mile	\$	5,637,732
Estimated by:	D. Ford	Lasted Edited:				·

 Right-of-way
 \$1,465,047

 Utilities
 \$1,020,000

 Construction
 \$15,962,895

 Total Cost
 \$18,447,942

 Cost/Mile
 \$6,515,394

Checked by:

West SecF1_40

Lasted Edited:

SECTION F

SEGMENT 1

ESTIMATES

RIGHT-OF-WAY

KY 15 PLANNING STUDY - West SECTION F (Segment 1)

STA. 228+50 to 378+00

			Approx. Ex. KY15 R/W					Resi	dential	Business		
	Approxim	ate Gross	Assume 8	0' Width	Approxin	nate Net	Cost @	Reloc.	Cost @	Reloc.	Cost @	TOTAL
Median	Propose	ed R/W	KY15 Length	14950	Prop. R/W	Purchased	\$500	#	\$75,000	#	\$125,000	R/W COST
Width	(SF)	(Acres)	(SF)	(Acres)	(SF)	(Acres)	(Dollar)	(each)	(Dollar)	(each)	(Dollar)	(Dollar)
40 ft	4,684,931	107.6	1,196,000	27.5	3,488,931	80.1	\$40,047	14	\$1,050,000	3	\$375,000	\$1,465,047
20 & 30ft	4,460,681	102.4	1,196,000	27.5	3,264,681	74.9	\$37,473	13	\$975,000	3	\$375,000	\$1,387,473

SECTION F

SEGMENT 2

ESTIMATES

CONSTRUCTION

Bureau of Highways

ESTIMATE SHEET

	LSTIMA	TE SHEET					
County of:	Perry, Breathitt	From STA:			378+00.00		
UPN		To STA:			586+00.00		
Fed No.		Net Length, mile:			3.94		
Item No.		Net Length, mile: Type of Construction:	C	rade	, Drain & Su	rfaci	ng
Road Name:	KY 15 - West Section F Segmet 2 (20ft Median)	Class of Road:			Rural Arteria	ıl	
		-					
Item #	Item	Quantity	Unit	Ţ	Unit Price		Amount
	Roadway Exc (Mainline)	2,152,131	CU YD	\$	2.50	\$	5,380,328
	Asph Surf CL3 (Mainline Driving Lanes)	7,900	TON	\$	85.00	\$	671,500
	Asph Base CL3 (Mainline Driving Lanes)	63,450	TON	\$	80.00	\$	5,076,000
	CS Base (Mainline Driving Lanes)	28,350	TON	\$	16.00	\$	453,600
	Asph Surf CL2 (Mainline Shoulders)	5,756	TON	\$	85.00	\$	489,260
	Asph Base CL2 (Mainline Shoulders)	14,967	TON	\$	80.00	\$	1,197,360
	CS Base (Mainline Shoulders)	72,444	TON	\$	16.00	\$	1,159,104
	Roadway Exc (Appr/Entrances/Ramps)	157,380	CU YD	\$	2.50	\$	393,450
	Asph Surf CL2 (Approach Rd Driving Lanes)	1,204	TON	\$	85.00	\$	102,340
	Asph Base CL2 (Approach Rd Driving Lanes)	4,643	TON	\$	80.00	\$	371,440
	CS Base (Approach Rd Driving Lanes)	4,255	TON	\$	16.00	\$	68,080
	Asph Surf (CL2 Approach Rd Shoulders)		TON	\$	85.00	\$	-
	Asph Base CL2 (Approach Rd Shoulders)		TON	\$	80.00	\$	-
	CS Base (Approach Rd Shoulders)		TON	\$	16.00	\$	-
	Concrete Barrier Median	20,500	LF	\$	55.00	\$	1,127,500
		ŕ					
				<u> </u>			
				<u> </u>			
	MISC ITEMS (@ 25%)			<u> </u>		\$	4,122,491
				<u> </u>			
	Mainline Bridges (Sta. 461+51)	26,312	SQ FT	\$	175.00	\$	4,804,800
		- 7-		Ħ			
	421+88 ~ 8' x 8' Dbl RCBC Extension		LP SUM			\$	210,000
	485+05 ~ 12' x 6' Triple RCBC Extension		LP SUM			\$	190,000
	508+20 ~ 12' x 6' RCBC Extension		LP SUM	1		\$	105,000
	508+20(Entr Right) ~ 12' x 6' RCBC		LP SUM	1		\$	35,000
	576+12 ~ 6' x 5' RCBC Extension		LP SUM	1		\$	60,000
	576112 6 N.S. REDE EMERSION		Er Sein	1		Ψ	00,000
				\vdash			
				 			
				 			

		Construction Cost/Mile	\$
Estimated by: D. Ford	Lasted Edited:	11/12/2012	-
Checked by:	Lasted Edited:		

 Right-of-way
 \$2,477,489

 Utilities
 \$1,315,000

 Construction
 \$29,906,832

 Total Cost
 \$33,699,321

 Cost/Mile
 \$8,554,443

MOBILIZATION

DEMOBILIZATION

West SecF2_30

@ 3%

@ 1.5%

Construction-SubTotal \$

+10 Engr & Contg

Construction-Total \$

780,518

390,259

27,188,029

2,718,803

29,906,832

7,591,734

Bureau of Highways

ESTIMATE SHEET

County of:	Perry, Breathitt	From STA:	378+00.00					
UPN		To STA:	586+00.00					
Fed No.		Net Length, mile:	3.94					
Item No.		Type of Construction:	Grade, Drain & Surfacing					
Road Name:	KY 15 - West Section F Segmet 2 (30ft Median)	Class of Road:	Rural Arterial					
Item #	Item	Ouantity	Unit	Unit Price	Amount			

Item#	Item	Quantity	Unit		nit Price		Amount
	Roadway Exc (Mainline)	2,152,131	CU YD	\$	2.50	\$	5,380,328
	Asph Surf CL3 (Mainline Driving Lanes)	7,900	TON	\$	85.00	\$	671,500
	Asph Base CL3 (Mainline Driving Lanes)	63,450	TON	\$	80.00	\$	5,076,000
	CS Base (Mainline Driving Lanes)	28,350	TON	\$	16.00	\$	453,60
	Asph Surf CL2 (Mainline Shoulders)	3,352	TON	\$	85.00	\$	284,920
	Asph Base CL2 (Mainline Shoulders)	8,714	TON	\$	80.00	\$	697,120
	CS Base (Mainline Shoulders)	70,356	TON	\$	16.00	\$	1,125,69
	Roadway Exc (Appr/Entrances/Ramps)	157,380	CU YD	\$	2.50	\$	393,45
	Asph Surf CL2 (Approach Rd Driving Lanes)	1,204	TON	\$	85.00	\$	102,34
	Asph Base CL2 (Approach Rd Driving Lanes)	4,643	TON	\$	80.00	\$	371,44
	CS Base (Approach Rd Driving Lanes)	4,255	TON	\$	16.00	\$	68,08
	Asph Surf (CL2 Approach Rd Shoulders)		TON	\$	85.00	\$	
	Asph Base CL2 (Approach Rd Shoulders)		TON	\$	80.00	\$	
	CS Base (Approach Rd Shoulders)		TON	\$	16.00	\$	
	MIGGITTING (@ 25%)					Φ.	2.656.11
	MISC ITEMS (@ 25%)					\$	3,656,11
	Mainline Bridges (Sta. 461+51)	24,024	SQ FT	\$	200.00	\$	4,804,80
	421+88 ~ 8' x 8' Dbl RCBC Extension		LP SUM	1		\$	220,00
	485+05 ~ 12' x 6' Triple RCBC Extension		LP SUM			\$	200,00
	508+20 ~ 12' x 6' RCBC Extension		LP SUM			\$	115,00
	508+20(Entr Right) ~ 12' x 6' RCBC		LP SUM			\$	35,00
	576+12 ~ 6' x 5' RCBC Extension		LP SUM			\$	65,00
	MOBILIZATION		@ 3%			\$	711,6
	DEMOBILIZATION		@ 1.5%			\$	355,8
			Comete		n CubTatal	¢	24 707 0
					n-SubTotal	\$	24,787,8
					gr & Contg ction-Total	ď	2,478,7
			Co	netru	ction_Total	- W	27,266,5

Estimated by: D. Ford	Lasted Edited:	11/21/2012
Checked by:	Lasted Edited:	

 Right-of-way
 \$2,477,489

 Utilities
 \$1,315,000

 Construction
 \$27,266,591

 Total Cost
 \$31,059,080

 Cost/Mile
 \$7,884,228

West SecF2_30

Bureau of Highways

ESTIMATE SHEET

County of:	Perry, Breathitt	From STA:	378+00.00						
UPN		To STA:		586+00.00					
Fed No.		Net Length, mile:		3.94					
Item No.		Type of Construction:	Grade, Drain & Surfacing						
Road Name:	KY 15 - West Section F Segmet 2 (40ft Median)	Class of Road:	: Rural Arterial						
Item #	Item	Quantity	Unit	J	Jnit Price		Amount		
	Roadway Exc (Mainline)	2,598,457	CU YD	\$	2.50	\$	6,496,143		
	Asph Surf CL3 (Mainline Driving Lanes)	7,900	TON	\$	85.00	\$	671,500		
	Asph Base CL3 (Mainline Driving Lanes)	63,450	TON	\$	80.00	\$	5,076,000		

Roadway Exc (Mainline)	2,598,457	CU YD	\$	2.50	\$ 6,496,143
Asph Surf CL3 (Mainline Driving Lanes)	7,900	TON	\$	85.00	\$ 671,500
Asph Base CL3 (Mainline Driving Lanes)	63,450	TON	\$	80.00	\$ 5,076,000
CS Base (Mainline Driving Lanes)	28,350	TON	\$	16.00	\$ 453,600
Asph Surf CL2 (Mainline Shoulders)	4,268	TON	\$	85.00	\$ 362,780
Asph Base CL2 (Mainline Shoulders)	11,096	TON	\$	80.00	\$ 887,680
CS Base (Mainline Shoulders)	78,326	TON	\$	16.00	\$ 1,253,216
Roadway Exc (Appr/Entrances/Ramps)	157,380	CU YD	\$	2.50	\$ 393,450
Asph Surf CL2 (Approach Rd Driving Lanes)	1,204	TON	\$	85.00	\$ 102,340
Asph Base CL2 (Approach Rd Driving Lanes)	4,643	TON	\$	80.00	\$ 371,440
CS Base (Approach Rd Driving Lanes)	4,255	TON	\$	16.00	\$ 68,080
Asph Surf (CL2 Approach Rd Shoulders)		TON	\$	85.00	\$ -
Asph Base CL2 (Approach Rd Shoulders)		TON	\$	80.00	\$ -
CS Base (Approach Rd Shoulders)		TON	\$	16.00	\$ -
MISC ITEMS (@ 25%)					\$ 4,034,057
Mainline Bridges (Sta. 461+51)	24,024	SQ FT	\$	200.00	\$ 4,804,800
421+88 ~ 8' x 8' Dbl RCBC Extension		LP SUM			\$ 225,000
485+05 ~ 12' x 6' Triple RCBC Extension		LP SUM			\$ 205,000
508+20 ~ 12' x 6' RCBC Extension		LP SUM			\$ 120,000
508+20(Entr Right) ~ 12' x 6' RCBC		LP SUM			\$ 35,000
576+12 ~ 6' x 5' RCBC Extension		LP SUM			\$ 65,000
			1		
MOBILIZATION		@ 3%			\$ 768,753
DEMOBILIZATION		@ 1.5%			\$ 384,376
				n-SubTotal	\$ 26,778,215
				gr & Contg	2,677,822
				ction-Total	29,456,037
	Losted Edited		uctior	n Cost/Mile	\$ 7,477,302

Estimated by: D. Ford	Lasted Edited:	11/12/2012
Checked by:	Lasted Edited:	

 Right-of-way
 \$2,681,070

 Utilities
 \$1,315,000

 Construction
 \$29,456,037

 Total Cost
 \$33,452,107

 Cost/Mile
 \$8,491,689

West SecF2_40

SECTION F

SEGMENT 2

ESTIMATES

RIGHT-OF-WAY

KY 15 PLANNING STUDY - West SECTION F (Segment 2)

STA. 378+00 to 586+00

			Approx. Ex.	KY15 R/W			Acreage	Residential		Bus		
	Approxim	ate Gross	Assume 8	0' Width	Approxin	nate Net	Cost @	Reloc.	Cost @	Reloc.	Cost @	TOTAL
Median	Propose	ed R/W	KY15 Length	20800	Prop. R/W	Purchased	\$500	#	\$75,000	#	\$125,000	R/W COST
Width	(SF)	(Acres)	(SF)	(Acres)	(SF)	(Acres)	(Dollar)	(each)	(Dollar)	(each)	(Dollar)	(Dollar)
40 ft	6,548,855	150.3	1,664,000	38.2	4,884,855	112.1	\$56,070	10	\$750,000	15	\$1,875,000	\$2,681,070
20 & 30ft	6,236,855	143.2	1,664,000	38.2	4,572,855	105.0	\$52,489	9	\$675,000	14	\$1,750,000	\$2,477,489

SECTION F

SEGMENT 3

ESTIMATES

CONSTRUCTION

Bureau of Highways

ESTIMATE SHEET

County of:	Breathitt	From STA:		586+00.00					
UPN		To STA:		717+50.00					
Fed No.		Net Length, mile:		2.49					
Item No.		Type of Construction:	Grade, Drain & Surfacing				ng		
Road Name:	KY 15 - West Section F Segmet 3 (20ft Median)	Class of Road:	Rural Arterial						
Item #	Item	Quantity	Unit	Į	Unit Price	Amount			
	Roadway Exc (Mainline)	1,872,857	CU YD	\$	2.50	\$	4,682,143		
	Asph Surf CL3 (Mainline Driving Lanes)	4,768	TON	\$	85.00	\$	405,280		

Item #	Item	Quantity	Unit	Unit P	rice	Amount
	Roadway Exc (Mainline)	1,872,857	CU YD	\$	2.50	\$ 4,682,143
	Asph Surf CL3 (Mainline Driving Lanes)	4,768	TON		85.00	\$ 405,280
	Asph Base CL3 (Mainline Driving Lanes)	38,328	TON		80.00	\$ 3,066,240
	CS Base (Mainline Driving Lanes)	17,145	TON	\$	16.00	\$ 274,320
	Asph Surf CL2 (Mainline Shoulders)	3,623	TON		85.00	\$ 307,955
	Asph Base CL2 (Mainline Shoulders)	9,421	TON		80.00	\$ 753,680
	CS Base (Mainline Shoulders)	45,694	TON		16.00	\$ 731,104
	Roadway Exc (Appr/Entrances/Ramps)	88,970	CU YD	\$	2.50	\$ 222,425
	Asph Surf CL2 (Approach Rd Driving Lanes)	608	TON		85.00	\$ 51,680
	Asph Base CL2 (Approach Rd Driving Lanes)	1,913	TON		80.00	\$ 153,040
	CS Base (Approach Rd Driving Lanes)	2,181	TON		16.00	\$ 34,896
	Asph Surf (CL2 Approach Rd Shoulders)		TON	\$	85.00	\$ -
	Asph Base CL2 (Approach Rd Shoulders)		TON	\$	80.00	\$ -
	CS Base (Approach Rd Shoulders)		TON	\$	16.00	\$ -
	Concrete Barrier Median	12,750	LF	\$	55.00	\$ 701,250
	MISC ITEMS (@ 25%)					\$ 2,846,003
	Mainline Bridges (Sta. 596+21)	16,100	SQ FT	\$ 1	75.00	\$ 3,192,000
	Mainline Bridges (Sta. 635+94)	20,424	SQ FT	\$ 1	75.00	\$ 3,712,800
	647+00 ~ 8' x 6' RCBC Extension		LP SUM			\$ 90,000
	664+62 ~ 10' x 4' RCBC Extension		LP SUM			\$ 50,000
	MOBILIZATION		@ 3%			\$ 638,244
	DEMOBILIZATION		@ 1.5%			\$ 319,122
			Constr	uction-Sul	Total	\$ 22,232,183
				0 Engr &		2,223,218
				nstruction		 24,455,401
			Constr	uction Cos	t/Mile	\$ 9,819,355

Estimated by: D. Ford	Lasted Edited:	11/21/2012
Checked by:	Lasted Edited:	

 Right-of-way
 \$1,385,112

 Utilities
 \$875,000

 Construction
 \$24,455,401

 Total Cost
 \$26,715,513

 Cost/Mile
 \$10,726,837

Bureau of Highways

	ESTIMA	ATE SHEET							
County of:	Breathitt	From STA:		586+00.00					
UPN		To STA:			717+50.00				
Fed No.		Net Length, mile:			2.49				
Item No.		Type of Construction:	C		e, Drain & Su		ing		
Road Name:	KY 15 - West Section F Segmet 3 (30ft Median)	Class of Road:			Rural Arteria	ıl			
Item#	Item	Quantity	Unit		Unit Price		Amount		
	Roadway Exc (Mainline)	1,912,025	CU YD	\$	2.50	\$	4,780,063		
	Asph Surf CL3 (Mainline Driving Lanes)	4,768	TON	\$	85.00	\$	405,280		
	Asph Base CL3 (Mainline Driving Lanes)	38,328	TON	\$	80.00	\$	3,066,240		
	CS Base (Mainline Driving Lanes)	17,145	TON	\$	16.00	\$	274,320		
	Asph Surf CL2 (Mainline Shoulders)	2,119	TON	\$	85.00	\$	180,115		
	Asph Base CL2 (Mainline Shoulders)	5,510	TON	\$	80.00	\$	440,800		
	CS Base (Mainline Shoulders)	44,318	TON	\$	16.00	\$	709,088		
	Roadway Exc (Appr/Entrances/Ramps)	88,970	CU YD	\$	2.50	\$	222,425		
	Asph Surf CL2 (Approach Rd Driving Lanes)	608	TON	\$	85.00	\$	51,680		
	Asph Base CL2 (Approach Rd Driving Lanes)	1,913	TON	\$	80.00	\$	153,040		
	CS Base (Approach Rd Driving Lanes)	2,181	TON	\$	16.00	\$	34,896		
	Asph Surf (CL2 Approach Rd Shoulders)		TON	\$	85.00	\$	-		
	Asph Base CL2 (Approach Rd Shoulders)		TON	\$	80.00	\$	-		
	CS Base (Approach Rd Shoulders)		TON	\$	16.00	\$	-		
	MISC ITEMS (@ 25%)					\$	2,579,487		
							,,,,,,,,		
	Mainline Bridges (Sta. 596+21)	13,650	SQ FT	\$	200.00	\$	3,192,000		
	Mainline Bridges (Sta. 635+94)	17,316	SQ FT	\$	200.00	\$	3,712,800		
	647+00 ~ 8' x 6' RCBC Extension		LP SUM			\$	95,000		

LP SUM

@ 3%

@ 1.5%

55,000

598,567

299,284

20,850,084

2,085,008

22,935,093

9,208,919

\$

\$

Construction-SubTotal \$
+10 Engr & Contg

Construction-Total

 Right-of-way
 \$1,385,112

 Utilities
 \$875,000

 Construction
 \$22,935,093

 Total Cost
 \$25,195,205

 Cost/Mile
 \$10,116,402

MOBILIZATION

DEMOBILIZATION

664+62 ~ 10' x 4' RCBC Extension

West SecF3_30

Bureau of Highways

ESTIMATE SHEET

	LS I IIVII	TE SHEET							
County of:	Breathitt	From STA:		586+00.00					
UPN		To STA:			717+50.00				
Fed No.		Net Length, mile:			2.49				
Item No.		Type of Construction:	Grade, Drain & Surfacing						
Road Name:	KY 15 - West Section F Segmet 3 (40ft Median)	Class of Road:		R	Rural Arteria	.1			
Item #	Item	Quantity	Unit	U	nit Price		Amount		
	Roadway Exc (Mainline)	2,175,431	CU YD	\$	2.50	\$	5,438,578		
	Asph Surf CL3 (Mainline Driving Lanes)	4,768	TON	\$	85.00	\$	405,280		
	Asph Base CL3 (Mainline Driving Lanes)	38,328	TON	\$	80.00	\$	3,066,240		
	CS Base (Mainline Driving Lanes)	17,145	TON	\$	16.00	\$	274,320		
	Asph Surf CL2 (Mainline Shoulders)	2,698	TON	\$	85.00	\$	229,330		

Asph Base CL3 (Mainline Driving Lanes)	38,328	TON	\$	80.00	\$	3,066,240
CS Base (Mainline Driving Lanes)	17,145	TON	\$	16.00	\$	274,320
Asph Surf CL2 (Mainline Shoulders)	2,698	TON	\$	85.00	\$	229,330
Asph Base CL2 (Mainline Shoulders)	7,015	TON	\$	80.00	\$	561,200
CS Base (Mainline Shoulders)	49,351	TON	\$	16.00	\$	789,616
Roadway Exc (Appr/Entrances/Ramps)	88,970	CU YD	\$	2.50	\$	222,425
Asph Surf CL2 (Approach Rd Driving Lanes)	608	TON	\$	85.00	\$	51,680
Asph Base CL2 (Approach Rd Driving Lanes)	1,913	TON	\$	80.00	\$	153,040
CS Base (Approach Rd Driving Lanes)	2,181	TON	\$	16.00	\$	34,896
Asph Surf (CL2 Approach Rd Shoulders)		TON	\$	85.00	\$	-
Asph Base CL2 (Approach Rd Shoulders)		TON	\$	80.00	\$	-
CS Base (Approach Rd Shoulders)		TON	\$	16.00	\$	-
MISC ITEMS (@ 25%)					\$	2,806,651
Mainline Bridges (Sta. 596+21)	14,700	SQ FT	\$	200.00	\$	3,192,000
Mainline Bridges (Sta. 635+94)	18,648	SQ FT	\$	200.00	\$	3,712,800
647+00 ~ 8' x 6' RCBC Extension		LP SUM			\$	95,000
664+62 ~ 10' x 4' RCBC Extension		LP SUM			\$	55,000
			1			
MOBILIZATION		@ 3%	1		\$	632,642
DEMOBILIZATION		@ 1.5%	1		\$	316,321
						,
•	Construction-SubTotal					22,037,019
+10 Engr & Contg					\$	2,203,702
Construction-Total						24,240,721
				Cost/Mile		9,733,156

Estimated by: D. Ford	Lasted Edited:	11/12/2012
Checked by:	Lasted Edited:	

 Right-of-way
 \$1,612,376

 Utilities
 \$875,000

 Construction
 \$24,240,721

 Total Cost
 \$26,728,097

 Cost/Mile
 \$10,731,890

West SecF3_40

SECTION F

SEGMENT 3

ESTIMATES

RIGHT-OF-WAY

KY 15 PLANNING STUDY - West SECTION F (Segment 3)

STA. 586+00 to 717+50

	Approx. Ex. KY15 R/W		KY15 R/W			Acreage	Resid	lential	Bus	iness		
	Approxim	ate Gross	Assume 8	0' Width	Approxin	nate Net	Cost @	Reloc.	Cost @	Reloc.	Cost @	TOTAL
Median	Propose	ed R/W	KY15 Length	10200	Prop. R/W	Purchased	\$500	#	\$75,000	#	\$125,000	R/W COST
Width	(SF)	(Acres)	(SF)	(Acres)	(SF)	(Acres)	(Dollar)	(each)	(Dollar)	(each)	(Dollar)	(Dollar)
40 ft	4,072,188	93.5	816,000	18.7	3,256,188	74.8	\$37,376	21	\$1,575,000	0	\$0	\$1,612,376
20 & 30ft	3,874,938	89.0	816,000	18.7	3,058,938	70.2	\$35,112	18	\$1,350,000	0	\$0	\$1,385,112

SECTION G
EXISTING ALIGNMENT
ESTIMATES
CONSTRUCTION

Bureau of Highways

ESTIMATE SHEET

County of:	Perry	From STA:			+.00		
UPN		To STA:			236+91.00		
Fed No.		Net Length, mile:			4.49		
Item No.	KY 15 - Section G 20' Median	Type of Construction:	C	3rade,	Drain & Su	rfaci	ng
Road Name:	KY 15 - Section G 20' Median	Class of Road:		Rura	al/Urban Art	erial	
Item #	Item	Quantity	Unit	+	Init Price		Amount
	4L-20' Median Const. (0+00 to 200+00)	20,000	FEET	\$	1,075.00	\$	21,500,000
	4L-20' Median Const. (200+00 to 236+91)	3,526	FEET	\$	1,940.00	\$	6,840,440
	D 1 E (D (MM20)	125 000	GUUD	Φ.	4.00	Φ	500.000
	Roadway Exc (Ramps/KY28)	125,000	CY YD	\$	4.00	\$	500,000
	Asph Surf CL3 (KY28)	222	TON	\$	85.00	\$	18,870
	Asph Base CL3 (KY28)	1,652	TON	\$	80.00	\$	132,160
	CS Base (KY28)	801	TON	\$	16.00	\$	12,816
	Asph Surf CL3 (Ramps)	585	TON		85.00	\$	49,725
	Asph Base CL3 (Ramps)	4,695	TON TON	\$ \$	80.00	\$	375,600
	CS Base (Ramps)	2,094	TON	Þ	16.00	\$	33,504
	MISC RAMP ITEMS (@ 25%)					Э	280,669
	Mainline Bridge (Sta. 217+05)	15,824	SQ FT	\$	175.00	\$	2,769,200
	Walling Bridge (Sta. 217+03)	13,624	5011	Ψ	175.00	ψ	2,709,200
	30+55 ~ 14' x 10'		LP SUM			\$	580,000
	45+90 ~ 8' x 4'		LP SUM			\$	90,000
	68+60 ~ 8' x 6'		LP SUM			\$	140,000
	163+45 ~ 12' x 10'		LP SUM			\$	340,000
	Lt. Sta. 201+00+/- ~ 14' x 10' RCBC		LP SUM			\$	280,000
	Et. Sta. 2011001/21114 X 10 RCDC		LI SUM			Ψ	200,000
	MOBILIZATION		@ 3%			\$	1,018,290
	DEMOBILIZATION		@ 1.5%			\$	509,145
							, -
		<u>.</u>	Constr	uctio	n-SubTotal	\$	35,470,418
					gr & Contg		3,547,042
					ction-Total	\$	39,017,460
					n Cost/Mile		8,695,800
Estimated by:	D. Ford	Lasted Edited:					
Checked by:		Lasted Edited:		<u>-</u> '			
•		-		-			

 Right-of-way
 \$5,810,501

 Utilities
 \$1,155,000

 Construction
 \$39,017,460

 Total Cost
 \$45,982,961

 Cost/Mile
 \$10,248,197

ExAlignment SecG_20

Bureau of Highways

ESTIMATE SHEET

County of:	Perry	From STA:		+.00		
UPN		To STA:		236+91.00		
Fed No.		Net Length, mile:		4.49		
Item No.		Type of Construction:	C	Grade, Drain & Su	rfaci	ng
Road Name:	KY 15 - Section G 30' Median	Class of Road:		Rural/Urban Art	erial	
Item #	Item	Quantity	Unit	Unit Price		Amount
	4L-30' Median Const. (0+00 to 200+00)	20,000	FEET	\$ 1,000.00	\$	20,000,000
	4L-30' Median Const. (200+00 to 236+91)	3,526	FEET	\$ 1,900.00	\$	6,699,400
	Roadway Exc (Ramps/KY28)	125,000	CY YD	\$ 4.00	\$	500,000
	Asph Surf CL3 (KY28)	222	TON	\$ 85.00	\$	18,870
	Asph Base CL3 (KY28)	1,652	TON	\$ 80.00	\$	132,160
	CS Base (KY28)	801	TON	\$ 16.00	\$	12,816
	Asph Surf CL3 (Ramps)	585	TON	\$ 85.00	\$	49,725
	Asph Base CL3 (Ramps)	4,695	TON	\$ 80.00	\$	375,600
	CS Base (Ramps)	2,094	TON	\$ 16.00	\$	33,504
	MISC RAMP ITEMS (@ 25%)			7	\$	280,669
					Ψ	200,000
		+				
		+				
	Mainline Bridge (Sta. 217+05)	13,416	SQ FT	\$ 200.00	\$	2,683,200
	Mainine Bridge (Sta. 217+03)	13,410	SQTT	\$ 200.00	φ	2,083,200
		+				
		+				
		+				
		+				
	20.55.141.101	+	I D CID (Φ.	610.000
	30+55 ~ 14' x 10'		LP SUM		\$	610,000
	45+90 ~ 8' x 4'		LP SUM		\$	95,000
	68+60 ~ 8' x 6'		LP SUM		\$	145,000
	163+45 ~ 12' x 10'	1	LP SUM		\$	355,000
	Lt. Sta. 201+00+/- ~ 14' x 10' RCBC	1	LP SUM		\$	295,000
	MOBILIZATION		@ 3%		\$	968,578
	DEMOBILIZATION		@ 1.5%		\$	484,289
			Constr	uction-SubTotal	\$	33,738,811
			+1	0 Engr & Contg		3,373,881
			Co	nstruction-Total	\$	37,112,692
			Constr	uction Cost/Mile	\$	8,271,285
Estimated by:	D. Ford	Lasted Edited:				
Checked by:		Lasted Edited:		=		
		_		=		

 Right-of-way
 \$5,810,501

 Utilities
 \$1,155,000

 Construction
 \$37,112,692

 Total Cost
 \$44,078,193

 Cost/Mile
 \$9,823,682

ExAlignment SecG_30

Bureau of Highways

ESTIMATE SHEET

County of:	Perry	From STA:			+.00		
UPN		To STA:			236+91.00		
Fed No.		Net Length, mile:			4.49		
Item No.	KY 15 - Section G 40' Median	Type of Construction:	G	irade,	Drain & Su		ng
Road Name:	KY 15 - Section G 40' Median	Class of Road:		Rura	al/Urban Arte	erial	
Item #	Item	Quantity	Unit	_	Init Price		Amount
	4L-40' Median Const. (0+00 to 200+00)	20,000	FEET	\$	1,100.00	\$	22,000,000
	4L-40' Median Const. (200+00 to 236+91)	3,526	FEET	\$	2,000.00	\$	7,052,000
	D 1 E (D (KYYAO)	127.000	CVVD	Φ	4.00	Ф	700.000
	Roadway Exc (Ramps/KY28)	125,000	CY YD	\$	4.00	\$	500,000
	Asph Surf CL3 (KY28)	222	TON	\$	85.00	\$	18,870
	Asph Base CL3 (KY28)	1,652	TON	\$	80.00	\$	132,160
	CS Base (KY28)	801	TON	\$	16.00	\$	12,816
	Asph Surf CL3 (Ramps)	585	TON	\$	85.00	\$	49,725
	Asph Base CL3 (Ramps)	4,695	TON	\$	80.00	\$	375,600
	CS Base (Ramps)	2,094	TON	\$	16.00	\$	33,504
	MISC RAMP ITEMS (@ 25%)					\$	280,669
						_	
	Mainline Bridge (Sta. 217+05)	14,448	SQ FT	\$	200.00	\$	2,889,600
	20.55 141 101		I D CI D A			Φ	C 10, 000
	30+55 ~ 14' x 10'		LP SUM			\$	640,000
	45+90 ~ 8' x 4'		LP SUM	<u> </u>		\$	100,000
	68+60 ~ 8' x 6'		LP SUM	<u> </u>		\$	150,000
	163+45 ~ 12' x 10'		LP SUM			\$	375,000
	Lt. Sta. 201+00+/- ~ 14' x 10' RCBC		LP SUM			\$	310,000
		+		1			
		+					
	MOBILIZATION	+	@ 3%			\$	1,047,598
	DEMOBILIZATION		@ 1.5%			\$	523,799
	2 22.10 BILLIA III OI I		C 1.5 /0			Ψ	525,177
		1	Constr	uctio	n-SubTotal	\$	36,491,341
					gr & Contg		3,649,134
					ction-Total	\$	40,140,475
					n Cost/Mile		8,946,085
Estimated by:	D. Ford	Lasted Edited:					
Checked by:		Lasted Edited:		_			
•		-		-			

 Right-of-way
 \$6,339,580

 Utilities
 \$1,155,000

 Construction
 \$40,140,475

 Total Cost
 \$47,635,055

 Cost/Mile
 \$10,616,398

ExAlignment SecG_40

SECTION G
EXISTING ALIGNMENT
ESTIMATES
RIGHT-OF-WAY

KY 15 PLANNING STUDY - Existing Alignment SECTION G

STA. + to 236+91

	Approx. Ex. KY15 R/W				Acreage	Residential		Business				
	Approxim	ate Gross	Assume 8	0' Width	Approxir	nate Net	Cost @	Reloc.	Cost @	Reloc.	Cost @	TOTAL
Median	Propose	ed R/W	KY15 Length	20890	Prop. R/W	Purchased	\$500	#	\$75,000	#	\$125,000	R/W COST
Width	(SF)	(Acres)	(SF)	(Acres)	(SF)	(Acres)	(Dollar)	(each)	(Dollar)	(each)	(Dollar)	(Dollar)
40 ft	7,297,411	167.5	1,671,200	38.4	5,626,211	129.2	\$64,580	22	\$1,650,000	37	\$4,625,000	\$6,339,580
20 & 30ft	6,942,046	159.4	1,671,200	38.4	5,270,846	121.0	\$60,501	20	\$1,500,000	34	\$4,250,000	\$5,810,501

SECTION G

WEST

ESTIMATES

CONSTRUCTION

Bureau of Highways

ESTIMATE SHEET

	LS I IIVIA	ALE SHEET				
County of:	Perry	From STA:		+.00		
UPN						
Fed No.		Net Length, mile:		4.33		
Item No.		Net Length, mile: Type of Construction:		Frade Drain & Su	rfac	ing
	KY 15 - West Section G (20ft Median)	Class of Road:		Rural Arteria	11ac)	5
Troug Trume.	Transition of (2011 Fredian)	Class of Road.		Tturur r irterit		
Item#	Item	Quantity	Unit	Unit Price		Amount
	Roadway Exc (Mainline)	5,705,598	CU YD	\$ 2.50	\$	14,263,995
	Asph Surf CL3 (Mainline Driving Lanes)	8,133	TON	\$ 85.00	\$	691,305
	Asph Base CL3 (Mainline Driving Lanes)	65,419	TON	\$ 80.00	\$	5,233,520
	CS Base (Mainline Driving Lanes)	29,285	TON	\$ 16.00	\$	468,560
	Asph Surf CL2 (Mainline Shoulders)	6,253	TON	\$ 85.00	\$	531,505
	Asph Base CL2 (Mainline Shoulders)	16,259	TON	\$ 80.00	\$	1,300,720
	CS Base (Mainline Shoulders)	78,963	TON	\$ 16.00	\$	1,263,408
	Roadway Exc (Appr/Entrances/Ramps)	192,235	CU YD	\$ 2.50	\$	480,588
	Asph Surf CL2 (Approach Rd Driving Lanes)	1,207	TON	\$ 85.00	\$	102,595
	Asph Base CL2 (Approach Rd Driving Lanes)	6,234	TON	\$ 80.00	\$	498,720
	CS Base (Approach Rd Driving Lanes)	4,305	TON	\$ 16.00	\$	68,880
	Asph Surf (CL2 Approach Rd Shoulders)	78	TON	\$ 85.00	\$	6,630
	Asph Base CL2 (Approach Rd Shoulders)	188	TON	\$ 80.00	\$	15,040
	CS Base (Approach Rd Shoulders)	655	TON	\$ 16.00	\$	10,480
	Asph Surf CL3 (Ramp Driving Lanes)	585	TON	\$ 85.00	\$	49,725
	Asph Base CL3 (Ramp Driving Lanes)	4,695	TON	\$ 80.00	\$	375,600
	CS Base (Ramp Driving Lanes)	2,094	TON	\$ 16.00	\$	33,504
	Asph Surf CL2 (Ramp Shoulders)	208	TON	\$ 85.00	\$	17,680
	Asph Base CL2 (Ramp Shoulders)	539	TON	\$ 80.00	\$	43,120
	CS Base (Ramp Shoulders)	4,281	TON	\$ 16.00	\$	68,496
	Concrete Median Barrier	22,850	LF	\$ 55.00	\$	1,256,750
		,		7 22.00	Ť	
	MISC ITEMS (@ 25%)				\$	6,695,205
						-,,
	Mainline Bridges (Sta. 195+62)	48,944	SQ FT	\$ 175.00	\$	8,565,200
	Mainline Bridges (Sta. 208+63)	16,468	SQ FT	\$ 175.00	\$	2,881,900
	<i>S</i> \	,				, ,
	30+55 ~ 14' x 10'		LP SUM		\$	570,000
	195+65 ~ 14' x 10' RCBC		LP SUM		\$	660,000
	220+08 ~ 10' x 6' RCBC		LP SUM		\$	300,000
						,
					T	
	MOBILIZATION		@ 3%		\$	1,393,594
	DEMOBILIZATION		@ 1.5%		\$	696,797
		-	Constr	ruction-SubTotal	\$	48,543,517

Estimated by: D. Ford	Lasted Edited:	11/21/2012
Checked by:	Lasted Edited:	

 Right-of-way
 \$2,571,883

 Utilities
 \$1,155,000

 Construction
 \$53,397,869

 Total Cost
 \$57,124,752

 Cost/Mile
 \$13,199,943

West SecG_20

4,854,352

53,397,869

12,338,764

+10 Engr & Contg

Construction-Total \$
Construction Cost/Mile \$

Bureau of Highways

	ESTIMA	ATE SHEET					
County of:	Perry	From STA:			+.00		
UPN	·	To STA:			228+50.00		
Fed No.		Net Length, mile:			4.33		
Item No.		Type of Construction:	(3rade,	Drain & Su	rfaci	ing
Road Name:	KY 15 - West Section G (30ft Median)	Class of Road:		F	Rural Arteria	ıl	
Item #	Item	Quantity	Unit	U	Init Price		Amount
	Roadway Exc (Mainline)	5,769,454	CU YD	\$	2.50	\$	14,423,635
	Asph Surf CL3 (Mainline Driving Lanes)	8,133	TON	\$	85.00	\$	691,305
	Asph Base CL3 (Mainline Driving Lanes)	65,419	TON	\$	80.00	\$	5,233,520
	CS Base (Mainline Driving Lanes)	29,285	TON	\$	16.00	\$	468,560
	Asph Surf CL2 (Mainline Shoulders)	3,669	TON	\$	85.00	\$	311,865
	Asph Base CL2 (Mainline Shoulders)	9,538	TON	\$	80.00	\$	763,040
	CS Base (Mainline Shoulders)	76,520	TON	\$	16.00	\$	1,224,320
	Roadway Exc (Appr/Entrances/Ramps)	192,235	CU YD	\$	2.50	\$	480,588
	Asph Surf CL2 (Approach Rd Driving Lanes)	1,207	TON	\$	85.00	\$	102,595
	Asph Base CL2 (Approach Rd Driving Lanes)	6,234	TON	\$	80.00	\$	498,720
	CS Base (Approach Rd Driving Lanes)	4,305	TON	\$	16.00	\$	68,880
	Asph Surf (CL2 Approach Rd Shoulders)	78	TON	\$	85.00	\$	6,630
	Asph Base CL2 (Approach Rd Shoulders)	188	TON	\$	80.00	\$	15,040
	CS Base (Approach Rd Shoulders)	655	TON	\$	16.00	\$	10,480
	Asph Surf CL3 (Ramp Driving Lanes)	585	TON	\$	85.00	\$	49,725
	Asph Base CL3 (Ramp Driving Lanes)	4,695	TON	\$	80.00	\$	375,600
	CS Base (Ramp Driving Lanes)	2,094	TON	\$	16.00	\$	33,504
	Asph Surf CL2 (Ramp Shoulders)	208	TON	\$	85.00	\$	17,680
	Asph Base CL2 (Ramp Shoulders)	539	TON	\$	80.00	\$	43,120
	CS Base (Ramp Shoulders)	4,281	TON	\$	16.00	\$	68,496
	MISC ITEMS (@ 25%)					\$	6,221,826
	Mainline Bridges (Sta. 195+62)	41,496	SQ FT	\$	200.00	\$	8,299,200
				1 .		1 .	

		, . , .	~ {	-		+	0,,
	Mainline Bridges (Sta. 208+63)	13,962	SQ FT	\$	200.00	\$	2,792,400
	30+55 ~ 14' x 10'		LP SUM			\$	585,000
	195+65 ~ 14' x 10' RCBC		LP SUM			\$	675,000
	220+08 ~ 10' x 6' RCBC		LP SUM			\$	310,000
	MOBILIZATION		@ 3%			\$	1,313,122
	DEMOBILIZATION		@ 1.5%			\$	656,56
			Constr	uction	n-SubTotal	\$	45,740,412
					r & Contg		4,574,04
					ction-Total		50,314,453
			Constr	uction	Cost/Mile	\$	11,626,272
Estimated	by: D. Ford	Lasted Edit	ted: 11/21/2012			-	
Checked	by:	Lasted Edit	ted:	_			

 Right-of-way
 \$2,571,883

 Utilities
 \$1,155,000

 Construction
 \$50,314,453

 Total Cost
 \$54,041,336

 Cost/Mile
 \$12,487,451

West SecG_30

Bureau of Highways

	ESTIMA	ATE SHEET					
County of:	Perry	From STA:			+1.00		
ÚPN		To STA:			228+50.00		
Fed No.		Net Length, mile:			4.33		
Item No.		Type of Construction:	(3rade	, Drain & Su	rfaci	ing
Road Name:		Class of Road:					
	· · · · · · · · · · · · · · · · · · ·	-					
Item #	Item	Quantity	Unit	J	Jnit Price		Amount
	Roadway Exc (Mainline)	6,280,931	CU YD	\$	2.50	\$	15,702,328
	Asph Surf CL3 (Mainline Driving Lanes)	8,133	TON	\$	85.00	\$	691,305
	Asph Base CL3 (Mainline Driving Lanes)	65,419	TON	\$	80.00	\$	5,233,520
	CS Base (Mainline Driving Lanes)	29,285	TON	\$	16.00	\$	468,560
	Asph Surf CL2 (Mainline Shoulders)	4,669	TON	\$	85.00	\$	396,865
	Asph Base CL2 (Mainline Shoulders)	12,139	TON	\$	80.00	\$	971,120
	CS Base (Mainline Shoulders)	85,223	TON	\$	16.00	\$	1,363,568
	Roadway Exc (Appr/Entrances/Ramps)	192,235	CU YD	\$	2.50	\$	480,588
	Asph Surf CL2 (Approach Rd Driving Lanes)	1,207	TON	\$	85.00	\$	102,595
	Asph Base CL2 (Approach Rd Driving Lanes)	6,234	TON	\$	80.00	\$	498,720
	CS Base (Approach Rd Driving Lanes)	4,305	TON	\$	16.00	\$	68,880
	Asph Surf (CL2 Approach Rd Shoulders)	78	TON	\$	85.00	\$	6,630
	Asph Base CL2 (Approach Rd Shoulders)	188	TON	\$	80.00	\$	15,040
	CS Base (Approach Rd Shoulders)	655	TON	\$	16.00	\$	10,480
	Asph Surf CL3 (Ramp Driving Lanes)	585	TON	\$	85.00	\$	49,725
	Asph Base CL3 (Ramp Driving Lanes)	4,695	TON	\$	80.00	\$	375,600
	CS Base (Ramp Driving Lanes)	2,094	TON	\$	16.00	\$	33,504
	Asph Surf CL2 (Ramp Shoulders)	208	TON	\$	85.00	\$	17,680
	Asph Base CL2 (Ramp Shoulders)	539	TON	\$	80.00	\$	43,120
	CS Base (Ramp Shoulders)	4,281	TON	\$	16.00	\$	68,496
						<u> </u>	
	MISC ITEMS (@ 25%)					\$	6,649,581
	Mainline Bridges (Sta. 195+62)	44,688	SQ FT	\$	200.00	\$	8,937,600
	Mainline Bridges (Sta. 195+62)	15 036	SO FT	\$	200.00		3,007,000

100	ION	\$ 80.00		13,040
655	TON	\$ 16.00	\$	10,480
585	TON		\$	49,725
4,695	TON	\$ 80.00		375,600
2,094	TON	'		33,504
208	TON	\$ 85.00	\$	17,680
539	TON	\$ 80.00	\$	43,120
4,281	TON	\$ 16.00	\$	68,496
			Φ.	C C 10 F 01
			\$	6,649,581
44,688	SQ FT	\$ 200.00) \$	8,937,600
15,036	SQ FT	\$ 200.00	\$	3,007,200
	LP SUM		\$	600,000
	LP SUM		\$	690,000
	LP SUM		\$	315,000
				1,403,931
	@ 1.5%		\$	701,966
	Constr	uction-SubTota	ıl \$	48,903,602
	+1	0 Engr & Cont	g	4,890,360
	Co	nstruction-Tota	1 \$	53,793,962
		nsti uction- i ota	Ψ	00,170,70
	655 585 4,695 2,094 208 539 4,281	655 TON 585 TON 4,695 TON 2,094 TON 208 TON 539 TON 4,281 TON 44,688 SQ FT 15,036 SQ FT LP SUM LP SUM LP SUM LP SUM Constr	655 TON \$ 16.00 585 TON \$ 85.00 4,695 TON \$ 80.00 2,094 TON \$ 16.00 208 TON \$ 85.00 539 TON \$ 80.00 4,281 TON \$ 16.00 44,688 SQ FT \$ 200.00 15,036 SQ FT \$ 200.00 LP SUM LP SUM LP SUM LP SUM LP SU	TON \$ 16.00 \$ 585 TON \$ 85.00 \$ 4,695 TON \$ 80.00 \$ 2,094 TON \$ 16.00 \$ 208 TON \$ 80.00 \$ 539 TON \$ 80.00 \$ 4,281 TON \$ 16.00 \$ \$ 44,688 SQ FT \$ 200.00 \$ 15,036 SQ FT \$ 200.00 \$ \$ LP SUM \$ LP SUM \$ LP SUM \$ LP SUM \$ \$ LP SUM \$ \$ \$ \$ \$ \$ \$ \$ \$

Estimated by: D. Ford	Lasted Edited:	11/12/2012
Checked by:	Lasted Edited:	

 Right-of-way
 \$2,800,817

 Utilities
 \$1,155,000

 Construction
 \$53,793,962

 Total Cost
 \$57,749,779

 Cost/Mile
 \$13,344,953

West SecG_40

SECTION G

WEST

ESTIMATES

RIGHT-OF-WAY

KY 15 PLANNING STUDY - West SECTION G

STA. + to 228+50

			Approx. Ex. KY15 R/W				Acreage	Residential		Business		
	Approximate Gross		Assume 80' Width		Approximate Net		Cost @	Reloc.	Cost @	Reloc.	Cost @	TOTAL
Median	Proposed R/W		KY15 Length	6085	Prop. R/W Purchased		\$500	#	\$75,000	#	\$75,000	R/W COST
Width	(SF)	(Acres)	(SF)	(Acres)	(SF)	(Acres)	(Dollar)	(each)	(Dollar)	(each)	(Dollar)	(Dollar)
40 ft	9,269,981	212.8	486,800	11.2	8,783,181	201.6	\$100,817	23	\$1,725,000	13	\$975,000	\$2,800,817
20 & 30ft	8,927,231	204.9	486,800	11.2	8,440,431	193.8	\$96,883	21	\$1,575,000	12	\$900,000	\$2,571,883