

# Screening of Identified Alternates

## KY 645 Regional Corridor Study

### LEVEL 1 SCREENING

	Alternate									Methodology
	1	2	3	4	5	6	7	8	9	
<b>Constructability</b>										
Corridor Length (miles)	50.1	48.2	46.9	45	43.8	41	30.4	35.8	36.5	Length of the corridor as estimated in ArcView.
Number of Major Intersections	7-8	7	10	9	8	8	10	5-8	6-7	Number of possible crossings with other major roads.
Constructable in Independent Sections	7	6	9	8	7	8	9	4-7	5-6	Number of independent sections the road could possibly be constructed in.
<b>Traffic Considerations</b>										
2030 Volume at Southern Terminus (vpd)*	11440	14000	8600	8800	8600	8600	7400	8600	8600	Volume as estimated by KYSTM.
2030 Volume at Northern Terminus (vpd)*	7580	10320	2760	3060	1800	2600	3200	4300	16680	Volume as estimated by KYSTM.
2030 Average Volume along Corridor (vpd)	7670	10826	3360	3530	2600	2500	2140	5780	8000	Volume as estimated by KYSTM.
<b>Potential Benefits/Impacts</b>										
Diverts traffic from US 23 (vpd)	0	0	0	0	0	0	0	1110	2360	Vehicles per day diverted from US 23 as estimated by KYSTM.
Provides improved access to key tourist destinations, including:										
<i>Yatesville Lake State Park/Yatesville Lake/WMA</i>	1	1	1	1	1	1	1	3	3	Estimated using the following scale: 0 - Does Not Improve Access To 1 - Slightly Improves Access To 2 - Improves Access To 3 - Greatly Improves Access To
<i>Grayson Lake State Park/Grayson Lake/WMA</i>	1	1	1	1	1	2	3	2	1	
<i>Carter Caves State Resort Park/Tygarts State Forest</i>	0	0	0	0	2	3	1	1	0	
<i>Daniel Boone National Forest</i>	3	3	2	2	1	1	1	0	0	
<i>Eagle Trace Golf Course, Morehead</i>	3	3	2	2	1	1	1	0	0	
<i>Carter Caves State Resort Park New Golf Course (Carter County)</i>	0	0	0	0	2	3	1	1	0	
<b>SUM</b>	8	8	6	6	8	11	8	7	4	
Provides access to existing employment centers, including:										
<i>Carter County Employment (All Industries)</i>	0	0	2	2	3	3	3	3	2	Estimated using the following scale: 0 - Does Not Serve 1 - Slightly Improves Service 2 - Improves Service 3 - Greatly Improves
<i>Elliot County Employment (All Industries)</i>	3	3	3	3	3	3	3	0	0	
<i>Lawrence County Employment (All Industries)</i>	2	2	2	2	2	2	2	3	3	
<i>Rowan County Employment (All Industries)</i>	3	3	2	2	1	1	1	0	0	
<i>Martin County Employment (All Industries)</i>	1	1	1	1	1	1	1	1	1	
<b>SUM</b>	9	9	10	10	10	10	10	7	6	
Gives consideration to areas with high unemployment	3	3	2	2	2	2	2	2	2	Number of high-unemployment counties that each alternative serves.
Gives consideration to areas with low-income populations	3	3	2	2	2	2	2	2	2	Number of low-income counties that each alternative serves.
Expands access to social services such as education and health care, including:										
<i>Morehead State University</i>	3	3	2	2	1	1	1	0	0	Estimated using the following scale: 0 - Does Not Improve Access To 1 - Slightly Improves Access To 2 - Improves Access To 3 - Greatly Improves Access To
<i>Rowan Technical College (KCTCS)</i>	3	3	2	2	1	1	1	0	0	
<i>Ashland Community &amp; Technical College, East Campus (Grayson)</i>	0	1	0	1	1	1	3	3	3	
<i>Kentucky Christian College (Grayson)</i>	0	1	0	1	1	1	3	3	3	
<i>Carter County Vocational School (Olive Hill)</i>	1	1	1	1	3	3	1	0	0	
<i>Martin County ATC (Inez)</i>	1	1	1	1	1	1	1	1	1	
<i>St. Claire Medical Center, Morehead</i>	3	3	2	2	1	1	1	0	0	
<i>Carter Nursing Home and Rehab Center (Grayson)</i>	0	0	0	0	0	0	3	3	3	
<i>Elliott Nursing and Rehab Center (Sandy Hook)</i>	3	3	3	3	3	3	3	0	0	
<i>JJ Jordan Geriatric Center (Louisa)</i>	1	1	1	1	1	1	1	1	1	
<i>Life Care Center of Morehead (Morehead)</i>	3	3	2	2	1	1	1	0	0	
<i>Martin County Health Care Facility (Inez)</i>	1	1	1	1	1	1	1	1	1	
<b>SUM</b>	19	21	15	17	15	15	20	12	12	
Improves access to isolated communities and populations	9	7	10	8	8	8	6	7	8	
Avoids or minimizes impacts to environmentally sensitive areas, including:										
<i>Yatesville Lake Wildlife Management Area</i>	0	0	0	0	0	0	0	1	1	Estimated using the following scale: 0 - No Impact 1 - Very Little Impact Possible 2 - Impact Possible 3 - Impact Unavoidable
<i>Yatesville Lake</i>	0	0	0	0	0	0	0	0	0	
<i>Grayson Lake Wildlife Management Area</i>	0	0	0	0	0	0	2	0	0	
<i>Grayson Lake</i>	0	0	0	0	0	0	2	0	0	
<i>Laurel Creek</i>	3	1	3	1	1	1	0	0	0	
<i>Big Caney Creek</i>	1	1	3	3	3	3	0	0	0	
<i>Daniel Boone National Forest</i>	3	3	1	1	0	0	0	0	0	
<i>Little Sandy River/Little Fork</i>	3	3	3	3	3	3	3	3	0	
<b>SUM</b>	10	8	10	8	7	7	7	4	1	
<b>Public Opinion</b>										
Public Opinion	42%	42%	8%	8%	28%	13%	6%	6%	4%	Percentage of 531 public survey respondents in favor of project terminus proposed by each alternative.
Citizen's Advisory Team Input	17%	30%	15%	15%	19%	9%	0%	11%	0%	Percentage of 47 CAT votes for each alternative as presented at the August 28, 2003 CAT meeting.
<b>How well does the Corridor meet the Project Goals and Objectives?</b>										
Develop a new or improved highway that provides an improved connection to I-64	1	2	1	2	2	2	3	3	2	Estimate of how well each corridor meets the project goals and objectives, based on items listed above.
Develop a highway corridor that will serve the most traffic	2	1	3	3	3	2	3	1	1	
Develop a corridor that considers all study area interests, including socioeconomic, education, tourism, and the environment	1	1	2	2	2	1	2	3	3	

\* Volumes shown in original Screening 1 were directional and have been doubled to represent bidirectional traffic.