

LIST OF FIGURES

OVERVIEW OF EXISTING CONDITIONS

PROPOSED INTERSTATE 69 CORRIDOR FROM FULTON TO EDDYVILLE, KENTUCKY

Figure 1 - 1.	Study Area, Fulton to Eddyville, KY.....	1-2
Figure 1 - 2.	Interstate 69 Representative Corridor and Sections of Independent Utility.....	1-3
Figure 3 - 1.	Crash Segments - Fulton, Hickman, and Graves County.....	3-6
Figure 3 - 2.	Crash Segments - Graves County.....	3-7
Figure 3 - 3.	Crash Segments - Graves and Marshall County.....	3-8
Figure 3 - 4.	Crash Segments - Marshall and Livingston County.....	3-9
Figure 3 - 5.	Crash Segments - Livingston and Lyon County.....	3-10
Figure 3 - 6.	Traffic Forecast (Current, & 2040 Build/No Build) Fulton, Hickman and Graves County.....	3-19
Figure 3 - 7.	Traffic Forecast (Current, & 2040 Build/No Build) Graves County.....	3-20
Figure 3 - 8.	Traffic Forecast (Current, & 2040 Build/No Build) Graves and Marshall County.....	3-21
Figure 3 - 9.	Traffic Forecast (Current, & 2040 Build/No Build) Marshall and Livingston County.....	3-22
Figure 3 - 10.	Traffic Forecast (Current, & 2040 Build/No Build) Livingston and Lyon County.....	3-23
Figure 3 - 11.	I-24 and Purchase Parkway Interchange Ramp Volumes.....	3-24
Figure 4 - 1.	Existing Purchase Parkway Typical Section.....	4-2
Figure 4 - 2.	Shoulder Types.....	4-4
Figure 4 - 3.	Median Types.....	4-6
Figure 5 - 1.	Existing Bridge Condition Horizontal Clearances - Fulton and Graves County.....	5-4
Figure 5 - 2.	Existing Bridge Condition Horizontal Clearances - Graves County.....	5-5
Figure 5 - 3.	Existing Bridge Condition Horizontal Clearances - Graves and Marshall County.....	5-6
Figure 5 - 4.	Existing Bridge Condition Horizontal Clearances - Marshall and Livingston County.....	5-7
Figure 5 - 5.	Existing Bridge Condition Horizontal Clearances - Livingston and Lyon County.....	5-8
Figure 5 - 6.	Existing Bridge Condition Vertical Clearance - Fulton, Hickman and Graves County.....	5-11
Figure 5 - 7.	Existing Bridge Condition Vertical Clearance - Graves County.....	5-12
Figure 5 - 8.	Existing Bridge Condition Vertical Clearance - Graves and Marshall County.....	5-13
Figure 5 - 9.	Existing Bridge Condition Vertical Clearance - Marshall and Livingston County.....	5-14
Figure 5 - 10.	Existing Bridge Condition Vertical Clearance - Livingston and Lyon County.....	5-15
Figure 6 - 1.	Existing Interchange Conditions for Fulton and Graves County.....	6-2
Figure 6 - 2.	Existing Interchange Conditions for Graves County.....	6-3
Figure 6 - 3.	Existing Interchange Conditions for Graves and Marshall County.....	6-4
Figure 6 - 4.	Existing Interchange Conditions for Marshall and Livingston County.....	6-5
Figure 7 - 1.	Existing Deficiencies - Fulton, Hickman and Graves County.....	7-2
Figure 7 - 2.	Existing Deficiencies - Graves County.....	7-3
Figure 7 - 3.	Existing Deficiencies - Graves and Marshall County.....	7-4
Figure 7 - 4.	Existing Deficiencies - Marshall and Livingston County.....	7-5
Figure 7 - 5.	Existing Deficiencies - Livingston and Lyon County.....	7-6
Figure 8 - 1.	I-69 / I-24 Interchange (Upgrade Option).....	8-5
Figure 8 - 2.	I-69 / I-24 Interchange (Reconstruction).....	8-5
Figure 8 - 3.	I-69 / US 45 Interchange (Upgrade Option 1).....	8-7
Figure 8 - 4.	I-69 / US 45 Interchange (Upgrade Option 2).....	8-7
Figure 8 - 5.	I-69 / US 45 Interchange (Reconstruction).....	8-8

LIST OF TABLES

OVERVIEW OF EXISTING CONDITIONS

PROPOSED INTERSTATE 69 CORRIDOR

FROM FULTON TO EDDYVILLE, KENTUCKY

Table 1- 1	I-69 Corridor Mileage.....	1-4
Table 3- 1	Purchase Parkway Crash Analysis as a Parkway Facility.....	3-3
Table 3- 2	Crash Analysis as an Interstate Facility.....	3-5
Table 3- 3	Crash Types for High and Potentially High Crash Segments.....	3-12
Table 3- 4	Concerned Fatal Crash Segments.....	3-14
Table 3- 5	Cross-Over and Head-on Crashes.....	3-15
Table 3- 6	Current Traffic Characteristics (2010).....	3-16
Table 3- 7	Existing (2010) Directional Design Hourly Volumes.....	3-17
Table 3- 8	Future Traffic Volumes without I-69.....	3-17
Table 3- 9	Future Traffic Volumes with I-69.....	3-18
Table 4- 1	Summary of Inside and Outside Shoulder Widths.....	4-3
Table 4- 2	Summary of Median Types and Widths along Purchase Parkway.....	4-5
Table 5- 1	Summary of Structure Types for Purchase Parkway.....	5-1
Table 5- 2	Summary of Substandard Lateral Clearance.....	5-3
Table 5- 3	Summary of Substandard Vertical Clearances.....	5-10
Table 5- 4	Overhead Sign Vertical Clearance.....	5-16
Table 6- 1	Interchange Geometrics for I-69.....	6-6
Table 6- 2	Interchange Crash Data.....	6-10
Table 6- 3	Interchange Control of Access.....	6-11
Table 7- 1	AASHTO Minimum Guidelines.....	7-1
Table 7- 2	Deficiencies Summary for the Purchase Parkway.....	7-7
Table 7- 3	Deficiencies Summary of I-24.....	7-9
Table 7- 4	Vertical Curve Deficiency Crash Analysis.....	7-13
Table 7- 5	Narrow Bridge Crash Analysis.....	7-14
Table 7- 6	Superelevation Crash Analysis.....	7-15
Table 8- 1	Unit Costs - Necessary Upgrades and Spot Safety Improvements.....	8-2
Table 8- 2	Necessary Upgrades and Spot Safety Improvements Preliminary Cost Estimate.....	8-2
Table 8- 3	Unit Costs - Fully Compliant Reconstruction.....	8-3
Table 8- 4	Fully Compliant Reconstruction Preliminary Cost Estimate.....	8-4
Table 8- 5	Cost Comparison of Potential Alternatives.....	8-4
Table 9- 1	Design Exception and Variance Summary.....	9-5