Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: AM Design Hour
Freeway/Direction: Edward T Breathitt Pkwy From/To: Interstate 24 to Lovers Ln Jurisdiction: KYTC Analysis Year: 2013 Description: Interstate 69 Conversion ______Flow Inputs and Adjustments_____ 460 veh/h Volume, V Peak-hour factor, PHF 0.90 128 Peak 15-min volume, v15 V Trucks and buses 22 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.901 Driver population factor, fp 1.00 284 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 12.0 Right-side lateral clearance 6.0 ft 0.39 Total ramp density, TRD ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 0.0 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 1.5 mi/h Free-flow speed, FFS 73.9 mi/h _____LOS and Performance Measures_____ Flow rate, vp 284 pc/h/ln

73.9

75.0

3.8

2

mi/h

pc/mi/ln

mi/h

Free-flow speed, FFS

Level of service, LOS

Number of lanes, N

Density, D

Average passenger-car speed, S

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: PM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: US 62 to I 69 Jurisdiction: KYTC Analysis Year: 2040 Description: Interstate 69 Conversion ______Flow Inputs and Adjustments_____ veh/h Volume, V 770 Peak-hour factor, PHF 0.90 214 Peak 15-min volume, v15 V Trucks and buses 18 Recreational vehicles 0 Terrain type: Level Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.917 Driver population factor, fp 1.00 466 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 11.0 Right-side lateral clearance 6.0 ft Total ramp density, TRD 1.41 ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 1.9 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 4.3 mi/h Free-flow speed, FFS 69.2 mi/h _____LOS and Performance Measures_____ Flow rate, vp 466 pc/h/ln Free-flow speed, FFS 69.2 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2

6.7

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: PM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: US 62 to I 69 Jurisdiction: KYTC Analysis Year: 2040 Build Description: Interstate 69 Conversion _____Flow Inputs and Adjustments_____ veh/h Volume, V 770 Peak-hour factor, PHF 0.90 214 Peak 15-min volume, v15 V Trucks and buses 18 Recreational vehicles 0 Terrain type: Level Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.917 Driver population factor, fp 1.00 466 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 11.0 Right-side lateral clearance 6.0 ft Total ramp density, TRD 1.41 ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 1.9 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 4.3 mi/h Free-flow speed, FFS 69.2 mi/h _____LOS and Performance Measures_____ Flow rate, vp 466 pc/h/ln Free-flow speed, FFS 69.2 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2

6.7

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: AM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: US 62 to I 69 Jurisdiction: KYTC Analysis Year: 2040 Description: Interstate 69 Conversion _____Flow Inputs and Adjustments_____ veh/h Volume, V 780 Peak-hour factor, PHF 0.90 217 Peak 15-min volume, v15 V Trucks and buses 18 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.917 Driver population factor, fp 1.00 472 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 11.0 Right-side lateral clearance 6.0 ft Total ramp density, TRD 1.41 ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 1.9 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 4.3 mi/h Free-flow speed, FFS 69.2 mi/h _____LOS and Performance Measures_____ Flow rate, vp 472 pc/h/ln Free-flow speed, FFS 69.2 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2

6.7

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: AM Design Hour
Freeway/Direction: Edward T Breathitt Pkwy From/To: US 62 to I 69 Jurisdiction: KYTC Analysis Year: 2040 Build Description: Interstate 69 Conversion _____Flow Inputs and Adjustments_____ veh/h Volume, V 780 Peak-hour factor, PHF 0.90 217 Peak 15-min volume, v15 V Trucks and buses 18 Recreational vehicles 0 Terrain type: Level Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.917 Driver population factor, fp 1.00 472 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 11.0 Right-side lateral clearance 6.0 ft Total ramp density, TRD 1.41 ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 1.9 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 4.3 mi/h Free-flow speed, FFS 69.2 mi/h _____LOS and Performance Measures_____ Flow rate, vp 472 pc/h/ln Free-flow speed, FFS 69.2 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2 6.7 Density, D pc/mi/ln

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: PM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: US 62 to I 69 Jurisdiction: KYTC Analysis Year: 2013 Description: Interstate 69 Conversion ______Flow Inputs and Adjustments_____ veh/h Volume, V 610 Peak-hour factor, PHF 0.90 169 Peak 15-min volume, v15 V Trucks and buses 15 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.930 Driver population factor, fp 1.00 364 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 11.0 Right-side lateral clearance 6.0 ft Total ramp density, TRD 1.41 ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 1.9 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 4.3 mi/h Free-flow speed, FFS 69.2 mi/h _____LOS and Performance Measures_____ Flow rate, vp 364 pc/h/ln Free-flow speed, FFS 69.2 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2

5.2

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: PM Design Hour
Freeway/Direction: Edward T Breathitt Pkwy From/To: US 62 to I 69 KYTC Jurisdiction: Analysis Year: 2013 Build Description: Interstate 69 Conversion _____Flow Inputs and Adjustments_____ veh/h Volume, V 610 Peak-hour factor, PHF 0.90 169 Peak 15-min volume, v15 V Trucks and buses 15 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.930 Driver population factor, fp 1.00 364 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 11.0 Right-side lateral clearance 6.0 ft Total ramp density, TRD 1.41 ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 1.9 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 4.3 mi/h Free-flow speed, FFS 69.2 mi/h _____LOS and Performance Measures_____ Flow rate, vp 364 pc/h/ln Free-flow speed, FFS 69.2 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2 5.2 Density, D pc/mi/ln

Α

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: AM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: US 62 to I 69 Jurisdiction: KYTC Analysis Year: 2013 Description: Interstate 69 Conversion ______Flow Inputs and Adjustments_____ veh/h Volume, V 620 Peak-hour factor, PHF 0.90 172 Peak 15-min volume, v15 V Trucks and buses 15 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.930 Driver population factor, fp 1.00 370 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width 11.0 ft Right-side lateral clearance 6.0 ft Total ramp density, TRD 1.41 ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 1.9 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 4.3 mi/h Free-flow speed, FFS 69.2 mi/h _____LOS and Performance Measures_____ Flow rate, vp 370 pc/h/ln Free-flow speed, FFS 69.2 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2

5.3

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: AM Design Hour
Freeway/Direction: Edward T Breathitt Pkwy From/To: US 62 to I 69 KYTC Jurisdiction: Analysis Year: 2013 Build Description: Interstate 69 Conversion _____Flow Inputs and Adjustments_____ veh/h Volume, V 620 Peak-hour factor, PHF 0.90 172 Peak 15-min volume, v15 V Trucks and buses 15 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.930 Driver population factor, fp 1.00 370 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width 11.0 ft Right-side lateral clearance 6.0 ft Total ramp density, TRD 1.41 ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 1.9 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 4.3 mi/h Free-flow speed, FFS 69.2 mi/h _____LOS and Performance Measures_____ Flow rate, vp 370 pc/h/ln Free-flow speed, FFS 69.2 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2

5.3

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: PM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: US 41 to US 62 Jurisdiction: KYTC Analysis Year: 2040 Description: Interstate 69 Conversion ______Flow Inputs and Adjustments_____ veh/h Volume, V 610 Peak-hour factor, PHF 0.90 169 Peak 15-min volume, v15 V Trucks and buses 18 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.917 Driver population factor, fp 1.00 369 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 11.0 Right-side lateral clearance 6.0 ft Total ramp density, TRD 0.61 ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 1.9 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 2.1 mi/h Free-flow speed, FFS 71.4 mi/h _____LOS and Performance Measures_____ Flow rate, vp 369 pc/h/ln Free-flow speed, FFS 71.4 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2

5.3

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: PM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: US 41 to US 62 Jurisdiction: KYTC Analysis Year: 2013 Description: Interstate 69 Conversion ______Flow Inputs and Adjustments_____ 470 veh/h Volume, V Peak-hour factor, PHF 0.90 131 Peak 15-min volume, v15 V Trucks and buses 15 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.930 Driver population factor, fp 1.00 281 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 11.0 Right-side lateral clearance 6.0 ft 0.61 Total ramp density, TRD ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 1.9 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 2.1 mi/h Free-flow speed, FFS 71.4 mi/h _____LOS and Performance Measures_____ Flow rate, vp 281 pc/h/ln Free-flow speed, FFS 71.4 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2

4.0

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: PM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: US 41 to US 62 Jurisdiction: KYTC Analysis Year: 2040 Build Description: Interstate 69 Conversion _____Flow Inputs and Adjustments_____ veh/h Volume, V 610 Peak-hour factor, PHF 0.90 169 Peak 15-min volume, v15 V Trucks and buses 18 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.917 Driver population factor, fp 1.00 369 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 11.0 Right-side lateral clearance 6.0 ft 0.61 Total ramp density, TRD ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 1.9 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 2.1 mi/h Free-flow speed, FFS 71.4 mi/h _____LOS and Performance Measures_____ Flow rate, vp 369 pc/h/ln Free-flow speed, FFS 71.4 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2

5.3

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: PM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: US 41 to US 62 KYTC Jurisdiction: Analysis Year: 2013 Build Description: Interstate 69 Conversion _____Flow Inputs and Adjustments_____ 460 veh/h Volume, V Peak-hour factor, PHF 0.90 128 Peak 15-min volume, v15 V Trucks and buses 15 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.930 Driver population factor, fp 1.00 275 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 11.0 Right-side lateral clearance 6.0 ft 0.61 Total ramp density, TRD ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 1.9 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 2.1 mi/h Free-flow speed, FFS 71.4 mi/h _____LOS and Performance Measures_____ Flow rate, vp 275 pc/h/ln Free-flow speed, FFS 71.4 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2 Density, D 3.9 pc/mi/ln

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: AM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: US 41 to US 62 Jurisdiction: KYTC Analysis Year: 2040 Description: Interstate 69 Conversion ______Flow Inputs and Adjustments_____ 640 veh/h Volume, V Peak-hour factor, PHF 0.90 178 Peak 15-min volume, v15 V Trucks and buses 18 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.917 Driver population factor, fp 1.00 388 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 11.0 Right-side lateral clearance 6.0 ft 0.61 Total ramp density, TRD ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 1.9 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 2.1 mi/h Free-flow speed, FFS 71.4 mi/h _____LOS and Performance Measures_____ Flow rate, vp 388 pc/h/ln Free-flow speed, FFS 71.4 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2 5.5 Density, D pc/mi/ln

Α

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: AM Design Hour
Freeway/Direction: Edward T Breathitt Pkwy From/To: US 41 to US 62 Jurisdiction: KYTC Analysis Year: 2013 Description: Interstate 69 Conversion ______Flow Inputs and Adjustments_____ 490 veh/h Volume, V Peak-hour factor, PHF 0.90 136 Peak 15-min volume, v15 V Trucks and buses 15 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.930 Driver population factor, fp 1.00 293 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 11.0 Right-side lateral clearance 6.0 ft 0.61 Total ramp density, TRD ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 1.9 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 2.1 mi/h Free-flow speed, FFS 71.4 mi/h _____LOS and Performance Measures_____ Flow rate, vp 293 pc/h/ln Free-flow speed, FFS 71.4 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2

4.2

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: AM Design Hour
Freeway/Direction: Edward T Breathitt Pkwy From/To: US 41 to US 62 KYTC Jurisdiction: Analysis Year: 2040 Build Description: Interstate 69 Conversion _____Flow Inputs and Adjustments_____ 640 veh/h Volume, V Peak-hour factor, PHF 0.90 178 Peak 15-min volume, v15 V Trucks and buses 18 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.917 Driver population factor, fp 1.00 388 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 11.0 Right-side lateral clearance 6.0 ft 0.61 Total ramp density, TRD ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 1.9 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 2.1 mi/h Free-flow speed, FFS 71.4 mi/h _____LOS and Performance Measures_____ Flow rate, vp 388 pc/h/ln Free-flow speed, FFS 71.4 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2 5.5 Density, D pc/mi/ln

Α

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: AM Design Hour
Freeway/Direction: Edward T Breathitt Pkwy From/To: US 41 to US 62 KYTC Jurisdiction: Analysis Year: 2013 Build Description: Interstate 69 Conversion _____Flow Inputs and Adjustments_____ veh/h Volume, V 480 Peak-hour factor, PHF 0.90 133 Peak 15-min volume, v15 V Trucks and buses 15 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.930 Driver population factor, fp 1.00 287 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 11.0 Right-side lateral clearance 6.0 ft 0.61 Total ramp density, TRD ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 1.9 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 2.1 mi/h Free-flow speed, FFS 71.4 mi/h _____LOS and Performance Measures_____ Flow rate, vp 287 pc/h/ln Free-flow speed, FFS 71.4 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2 Density, D 4.1 pc/mi/ln

Α

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: PM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: KY 800 to US 41 Jurisdiction: KYTC Analysis Year: 2040 Description: Interstate 69 Conversion ______Flow Inputs and Adjustments_____ veh/h Volume, V 620 Peak-hour factor, PHF 0.90 172 Peak 15-min volume, v15 V Trucks and buses 18 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.917 Driver population factor, fp 1.00 375 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 11.0 Right-side lateral clearance 6.0 ft 0.29 Total ramp density, TRD ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 1.9 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 1.1 mi/h Free-flow speed, FFS 72.4 mi/h _____LOS and Performance Measures_____ Flow rate, vp 375 pc/h/ln Free-flow speed, FFS 72.4 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2

5.4

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: PM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: KY 800 to US 41 Jurisdiction: KYTC Analysis Year: 2013 Description: Interstate 69 Conversion _____Flow Inputs and Adjustments_____ 460 veh/h Volume, V Peak-hour factor, PHF 0.90 128 Peak 15-min volume, v15 V Trucks and buses 15 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.930 Driver population factor, fp 1.00 275 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 11.0 Right-side lateral clearance 6.0 ft 0.29 Total ramp density, TRD ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 1.9 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 1.1 mi/h Free-flow speed, FFS 72.4 mi/h _____LOS and Performance Measures_____ Flow rate, vp 275 pc/h/ln Free-flow speed, FFS 72.4 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2

3.9

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: PM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: KY 800 to US 41 Jurisdiction: KYTC Analysis Year: 2040 Build Description: Interstate 69 Conversion _____Flow Inputs and Adjustments_____ veh/h Volume, V 620 Peak-hour factor, PHF 0.90 172 Peak 15-min volume, v15 V Trucks and buses 18 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.917 Driver population factor, fp 1.00 375 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 11.0 Right-side lateral clearance 6.0 ft 0.29 Total ramp density, TRD ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 1.9 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 1.1 mi/h Free-flow speed, FFS 72.4 mi/h _____LOS and Performance Measures_____ Flow rate, vp 375 pc/h/ln Free-flow speed, FFS 72.4 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2

5.4

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: PM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: KY 800 to US 41 Jurisdiction: KYTC Analysis Year: 2013 Build Description: Interstate 69 Conversion _____Flow Inputs and Adjustments_____ 460 veh/h Volume, V Peak-hour factor, PHF 0.90 128 Peak 15-min volume, v15 V Trucks and buses 15 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.930 Driver population factor, fp 1.00 275 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 11.0 Right-side lateral clearance 6.0 ft 0.29 Total ramp density, TRD ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 1.9 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 1.1 mi/h Free-flow speed, FFS 72.4 mi/h _____LOS and Performance Measures_____ Flow rate, vp 275 pc/h/ln Free-flow speed, FFS 72.4 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2 Density, D 3.9 pc/mi/ln

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: AM Design Hour
Freeway/Direction: Edward T Breathitt Pkwy From/To: KY 800 to US 41 Jurisdiction: KYTC Analysis Year: 2040 Description: Interstate 69 Conversion ______Flow Inputs and Adjustments_____ 760 veh/h Volume, V Peak-hour factor, PHF 0.90 211 Peak 15-min volume, v15 V Trucks and buses 18 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.917 Driver population factor, fp 1.00 460 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 11.0 Right-side lateral clearance 6.0 ft 0.29 Total ramp density, TRD ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 1.9 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 1.1 mi/h Free-flow speed, FFS 72.4 mi/h _____LOS and Performance Measures_____ Flow rate, vp 460 pc/h/ln Free-flow speed, FFS 72.4 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2

6.6

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: AM Design Hour
Freeway/Direction: Edward T Breathitt Pkwy From/To: KY 800 to US 41 Jurisdiction: KYTC Analysis Year: 2013 Description: Interstate 69 Conversion ______Flow Inputs and Adjustments_____ veh/h Volume, V 550 Peak-hour factor, PHF 0.90 153 Peak 15-min volume, v15 V Trucks and buses 15 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.930 Driver population factor, fp 1.00 328 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 11.0 Right-side lateral clearance 6.0 ft 0.29 Total ramp density, TRD ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 1.9 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 1.1 mi/h Free-flow speed, FFS 72.4 mi/h _____LOS and Performance Measures_____ Flow rate, vp 328 pc/h/ln Free-flow speed, FFS 72.4 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2

4.7

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: AM Design Hour
Freeway/Direction: Edward T Breathitt Pkwy From/To: KY 800 to US 41 Jurisdiction: KYTC Analysis Year: 2040 Build Description: Interstate 69 Conversion _____Flow Inputs and Adjustments_____ 760 veh/h Volume, V Peak-hour factor, PHF 0.90 211 Peak 15-min volume, v15 V Trucks and buses 18 Recreational vehicles 0 Terrain type: Level Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.917 Driver population factor, fp 1.00 460 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 11.0 Right-side lateral clearance 6.0 ft 0.29 Total ramp density, TRD ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 1.9 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 1.1 mi/h Free-flow speed, FFS 72.4 mi/h _____LOS and Performance Measures_____ Flow rate, vp 460 pc/h/ln Free-flow speed, FFS 72.4 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2 Density, D 6.6 pc/mi/ln

Α

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: AM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: KY 800 to US 41 Jurisdiction: KYTC Analysis Year: 2013 Build Description: Interstate 69 Conversion _____Flow Inputs and Adjustments_____ veh/h Volume, V 550 Peak-hour factor, PHF 0.90 153 Peak 15-min volume, v15 V Trucks and buses 15 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.930 Driver population factor, fp 1.00 328 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 11.0 Right-side lateral clearance 6.0 ft 0.29 Total ramp density, TRD ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 1.9 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 1.1 mi/h Free-flow speed, FFS 72.4 mi/h _____LOS and Performance Measures_____ Flow rate, vp 328 pc/h/ln Free-flow speed, FFS 72.4 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2 4.7 Density, D pc/mi/ln

Α

Overall results are not computed when free-flow speed is less than 55 mph.

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: PM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: KY 1682 to KY 800 KYTC Jurisdiction: Analysis Year: 2040 Description: Interstate 69 Conversion _____Flow Inputs and Adjustments_____ veh/h Volume, V 530 Peak-hour factor, PHF 0.90 147 Peak 15-min volume, v15 V Trucks and buses 18 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.917 Driver population factor, fp 1.00 321 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 12.0 Right-side lateral clearance 6.0 ft 0.18 Total ramp density, TRD ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 0.0 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 0.8 mi/h Free-flow speed, FFS 74.6 mi/h _____LOS and Performance Measures_____ Flow rate, vp 321 pc/h/ln Free-flow speed, FFS 74.6 mi/h Average passenger-car speed, S 75.0 mi/h Number of lanes, N 2

4.3

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: PM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: KY 1682 to KY 800 KYTC Jurisdiction: Analysis Year: 2013 Description: Interstate 69 Conversion ______Flow Inputs and Adjustments_____ veh/h Volume, V 410 Peak-hour factor, PHF 0.90 114 Peak 15-min volume, v15 V Trucks and buses 15 Recreational vehicles 0 Terrain type: Level Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.930 Driver population factor, fp 1.00 245 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 12.0 Right-side lateral clearance 6.0 ft 0.18 Total ramp density, TRD ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 0.0 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 0.8 mi/h Free-flow speed, FFS 74.6 mi/h _____LOS and Performance Measures_____ Flow rate, vp 245 pc/h/ln Free-flow speed, FFS 74.6 mi/h Average passenger-car speed, S 75.0 mi/h Number of lanes, N 2

3.3

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: AM Design Hour
Freeway/Direction: Edward T Breathitt Pkwy From/To: KY 1682 to KY 800 KYTC Jurisdiction: Analysis Year: 2040 Description: Interstate 69 Conversion ______Flow Inputs and Adjustments_____ veh/h Volume, V 570 Peak-hour factor, PHF 0.90 158 Peak 15-min volume, v15 V Trucks and buses 18 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.917 Driver population factor, fp 1.00 345 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 12.0 Right-side lateral clearance 6.0 ft 0.18 Total ramp density, TRD ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 0.0 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 0.8 mi/h Free-flow speed, FFS 74.6 mi/h _____LOS and Performance Measures_____ Flow rate, vp 345 pc/h/ln Free-flow speed, FFS 74.6 mi/h Average passenger-car speed, S 75.0 mi/h Number of lanes, N 2

4.6

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: AM Design Hour
Freeway/Direction: Edward T Breathitt Pkwy From/To: KY 1682 to KY 800 KYTC Jurisdiction: Analysis Year: 2013 Description: Interstate 69 Conversion _____Flow Inputs and Adjustments_____ 450 veh/h Volume, V Peak-hour factor, PHF 0.90 125 Peak 15-min volume, v15 V Trucks and buses 15 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.930 Driver population factor, fp 1.00 269 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width 12.0 ft Right-side lateral clearance 6.0 ft 0.18 Total ramp density, TRD ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 0.0 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 0.8 mi/h Free-flow speed, FFS 74.6 mi/h _____LOS and Performance Measures_____ Flow rate, vp 269 pc/h/ln Free-flow speed, FFS 74.6 mi/h Average passenger-car speed, S 75.0 mi/h Number of lanes, N 2

3.6

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: PM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: US 68 to KY 1682 Jurisdiction: KYTC Analysis Year: 2040 Description: Interstate 69 Conversion ______Flow Inputs and Adjustments_____ veh/h Volume, V 1020 Peak-hour factor, PHF 0.90 283 Peak 15-min volume, v15 V Trucks and buses 18 Recreational vehicles 0 Terrain type: Level Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.917 Driver population factor, fp 1.00 618 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 12.0 Right-side lateral clearance 6.0 ft 0.85 Total ramp density, TRD ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 0.0 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 2.8 mi/h Free-flow speed, FFS 72.6 mi/h _____LOS and Performance Measures_____ Flow rate, vp 618 pc/h/ln Free-flow speed, FFS 72.6 mi/h Average passenger-car speed, S 75.0 mi/h Number of lanes, N 2

8.2

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: PM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: US 68 to KY 1682 Jurisdiction: KYTC Analysis Year: 2013 Description: Interstate 69 Conversion _____Flow Inputs and Adjustments_____ veh/h Volume, V 780 Peak-hour factor, PHF 0.90 217 Peak 15-min volume, v15 V Trucks and buses 15 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.930 Driver population factor, fp 1.00 466 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 12.0 Right-side lateral clearance 6.0 ft 0.85 Total ramp density, TRD ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 0.0 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 2.8 mi/h Free-flow speed, FFS 72.6 mi/h _____LOS and Performance Measures_____ Flow rate, vp 466 pc/h/ln Free-flow speed, FFS 72.6 mi/h Average passenger-car speed, S 75.0 mi/h Number of lanes, N 2

6.2

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: AM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: US 68 to KY 1682 Jurisdiction: KYTC Analysis Year: 2040 Description: Interstate 69 Conversion ______Flow Inputs and Adjustments_____ veh/h Volume, V 1050 Peak-hour factor, PHF 0.90 292 Peak 15-min volume, v15 V Trucks and buses 18 Recreational vehicles 0 Terrain type: Level Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.917 Driver population factor, fp 1.00 636 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 12.0 Right-side lateral clearance 6.0 ft 0.85 Total ramp density, TRD ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 0.0 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 2.8 mi/h Free-flow speed, FFS 72.6 mi/h _____LOS and Performance Measures_____ Flow rate, vp 636 pc/h/ln Free-flow speed, FFS 72.6 mi/h Average passenger-car speed, S 75.0 mi/h Number of lanes, N 2

8.5

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: AM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: US 68 to KY 1682 Jurisdiction: KYTC Analysis Year: 2013 Description: Interstate 69 Conversion ______Flow Inputs and Adjustments_____ veh/h Volume, V 810 Peak-hour factor, PHF 0.90 225 Peak 15-min volume, v15 V Trucks and buses 15 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.930 Driver population factor, fp 1.00 484 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 12.0 Right-side lateral clearance 6.0 ft 0.85 Total ramp density, TRD ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 0.0 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 2.8 mi/h Free-flow speed, FFS 72.6 mi/h _____LOS and Performance Measures_____ Flow rate, vp 484 pc/h/ln Free-flow speed, FFS 72.6 mi/h Average passenger-car speed, S 75.0 mi/h Number of lanes, N 2 Density, D 6.5 pc/mi/ln

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: PM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: US 41 to US 68 Jurisdiction: KYTC Analysis Year: 2040 Description: Interstate 69 Conversion ______Flow Inputs and Adjustments_____ veh/h Volume, V 1180 Peak-hour factor, PHF 0.90 328 Peak 15-min volume, v15 V Trucks and buses 18 Recreational vehicles 0 Terrain type: Level Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.917 Driver population factor, fp 1.00 715 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 12.0 Right-side lateral clearance 6.0 ft Total ramp density, TRD 1.40 ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 0.0 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 4.3 mi/h Free-flow speed, FFS 71.1 mi/h _____LOS and Performance Measures_____ Flow rate, vp 715 pc/h/ln Free-flow speed, FFS 71.1 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2

10.2

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: PM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: US 41 to US 68 Jurisdiction: KYTC Analysis Year: 2013 Description: Interstate 69 Conversion ______Flow Inputs and Adjustments_____ 890 veh/h Volume, V Peak-hour factor, PHF 0.90 247 Peak 15-min volume, v15 V Trucks and buses 15 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.930 Driver population factor, fp 1.00 532 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 12.0 Right-side lateral clearance 6.0 ft Total ramp density, TRD 1.40 ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 0.0 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 4.3 mi/h Free-flow speed, FFS 71.1 mi/h _____LOS and Performance Measures_____ Flow rate, vp 532 pc/h/ln Free-flow speed, FFS 71.1 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2

7.6

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: AM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: US 41 to US 68 Jurisdiction: KYTC Analysis Year: 2040 Description: Interstate 69 Conversion ______Flow Inputs and Adjustments_____ veh/h Volume, V 1160 Peak-hour factor, PHF 0.90 322 Peak 15-min volume, v15 V Trucks and buses 18 Recreational vehicles 0 Terrain type: Level Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.917 Driver population factor, fp 1.00 702 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 12.0 Right-side lateral clearance 6.0 ft Total ramp density, TRD 1.40 ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 0.0 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 4.3 mi/h Free-flow speed, FFS 71.1 mi/h _____LOS and Performance Measures_____ Flow rate, vp 702 pc/h/ln Free-flow speed, FFS 71.1 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2 10.0

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: AM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: US 41 to US 68 Jurisdiction: KYTC Analysis Year: 2013 Description: Interstate 69 Conversion _____Flow Inputs and Adjustments_____ 870 veh/h Volume, V Peak-hour factor, PHF 0.90 242 Peak 15-min volume, v15 V Trucks and buses 15 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.930 Driver population factor, fp 1.00 520 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width 12.0 ft Right-side lateral clearance 6.0 ft Total ramp density, TRD 1.40 ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 0.0 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 4.3 mi/h Free-flow speed, FFS 71.1 mi/h _____LOS and Performance Measures_____ Flow rate, vp 520 pc/h/ln Free-flow speed, FFS 71.1 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2

7.4

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: PM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: US 41A to US 41 Jurisdiction: KYTC Analysis Year: 2040 Description: Interstate 69 Conversion ______Flow Inputs and Adjustments_____ veh/h Volume, V 1060 Peak-hour factor, PHF 0.90 294 Peak 15-min volume, v15 V Trucks and buses 18 Recreational vehicles 0 Terrain type: Level Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.917 Driver population factor, fp 1.00 642 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 12.0 Right-side lateral clearance 6.0 ft Total ramp density, TRD 1.84 ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 0.0 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 5.4 mi/h Free-flow speed, FFS 70.0 mi/h _____LOS and Performance Measures_____ Flow rate, vp 642 pc/h/ln Free-flow speed, FFS 70.0 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2

9.2

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: PM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: US 41A to US 41 Jurisdiction: KYTC Analysis Year: 2013 Description: Interstate 69 Conversion ______Flow Inputs and Adjustments_____ 800 veh/h Volume, V Peak-hour factor, PHF 0.90 222 Peak 15-min volume, v15 V Trucks and buses 15 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.930 Driver population factor, fp 1.00 478 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 12.0 Right-side lateral clearance 6.0 ft Total ramp density, TRD 1.84 ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 0.0 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 5.4 mi/h Free-flow speed, FFS 70.0 mi/h _____LOS and Performance Measures_____ Flow rate, vp 478 pc/h/ln Free-flow speed, FFS 70.0 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2

6.8

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: AM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: US 41A to US 41 Jurisdiction: KYTC Analysis Year: 2040 Description: Interstate 69 Conversion ______Flow Inputs and Adjustments_____ 1040 veh/h Volume, V Peak-hour factor, PHF 0.90 289 Peak 15-min volume, v15 V Trucks and buses 18 Recreational vehicles 0 Terrain type: Level Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.917 Driver population factor, fp 1.00 630 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 12.0 Right-side lateral clearance 6.0 ft Total ramp density, TRD 1.84 ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 0.0 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 5.4 mi/h Free-flow speed, FFS 70.0 mi/h _____LOS and Performance Measures_____ Flow rate, vp 630 pc/h/ln Free-flow speed, FFS 70.0 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2

9.0

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: AM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: US 41A to US 41 Jurisdiction: KYTC Analysis Year: 2013 Description: Interstate 69 Conversion _____Flow Inputs and Adjustments_____ veh/h Volume, V 780 Peak-hour factor, PHF 0.90 217 Peak 15-min volume, v15 V Trucks and buses 15 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.930 Driver population factor, fp 1.00 466 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 12.0 Right-side lateral clearance 6.0 ft Total ramp density, TRD 1.84 ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 0.0 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 5.4 mi/h Free-flow speed, FFS 70.0 mi/h _____LOS and Performance Measures_____ Flow rate, vp 466 pc/h/ln Free-flow speed, FFS 70.0 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2

6.7

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: PM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: US 68B to US 41A Jurisdiction: KYTC Analysis Year: 2040 Description: Interstate 69 Conversion _____Flow Inputs and Adjustments_____ veh/h Volume, V 770 Peak-hour factor, PHF 0.90 214 Peak 15-min volume, v15 V Trucks and buses 20 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.909 Driver population factor, fp 1.00 471 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 12.0 Right-side lateral clearance 6.0 ft Total ramp density, TRD 1.87 ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 0.0 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 5.4 mi/h Free-flow speed, FFS 70.0 mi/h _____LOS and Performance Measures_____ 471 Flow rate, vp pc/h/ln Free-flow speed, FFS 70.0 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2

6.7

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: PM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: US 68B to US 41A Jurisdiction: KYTC Analysis Year: 2013 Description: Interstate 69 Conversion _____Flow Inputs and Adjustments_____ veh/h Volume, V 720 Peak-hour factor, PHF 0.90 200 Peak 15-min volume, v15 V Trucks and buses 16 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.926 Driver population factor, fp 1.00 432 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width 12.0 ft Right-side lateral clearance 6.0 ft Total ramp density, TRD 1.87 ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 0.0 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 5.4 mi/h Free-flow speed, FFS 70.0 mi/h _____LOS and Performance Measures_____ Flow rate, vp 432 pc/h/ln Free-flow speed, FFS 70.0 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2

6.2

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: AM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: US 68B to US 41A Jurisdiction: KYTC Analysis Year: 2040 Description: Interstate 69 Conversion _____Flow Inputs and Adjustments_____ veh/h Volume, V 770 Peak-hour factor, PHF 0.90 214 Peak 15-min volume, v15 V Trucks and buses 20 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.909 Driver population factor, fp 1.00 471 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 12.0 Right-side lateral clearance 6.0 ft Total ramp density, TRD 1.87 ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 0.0 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 5.4 mi/h Free-flow speed, FFS 70.0 mi/h _____LOS and Performance Measures_____ 471 Flow rate, vp pc/h/ln Free-flow speed, FFS 70.0 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2

6.7

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: AM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: US 68B to US 41A Jurisdiction: KYTC Analysis Year: 2013 Description: Interstate 69 Conversion _____Flow Inputs and Adjustments_____ veh/h Volume, V 720 Peak-hour factor, PHF 0.90 200 Peak 15-min volume, v15 V Trucks and buses 16 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.926 Driver population factor, fp 1.00 432 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width 12.0 ft Right-side lateral clearance 6.0 ft Total ramp density, TRD 1.87 ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 0.0 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 5.4 mi/h Free-flow speed, FFS 70.0 mi/h _____LOS and Performance Measures_____ Flow rate, vp 432 pc/h/ln Free-flow speed, FFS 70.0 mi/h Average passenger-car speed, S 70.0 mi/h Number of lanes, N 2

6.2

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: PM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: Lovers Ln to US 68B Jurisdiction: KYTC Analysis Year: 2040 Description: Interstate 69 Conversion ______Flow Inputs and Adjustments_____ veh/h Volume, V 610 Peak-hour factor, PHF 0.90 169 Peak 15-min volume, v15 V Trucks and buses 21 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.905 Driver population factor, fp 1.00 374 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 12.0 Right-side lateral clearance 6.0 ft Total ramp density, TRD 3.42 ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 0.0 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 9.0 mi/h Free-flow speed, FFS 66.4 mi/h _____LOS and Performance Measures_____ Flow rate, vp 374 pc/h/ln Free-flow speed, FFS 66.4 mi/h Average passenger-car speed, S 65.0 mi/h Number of lanes, N 2

5.8

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: PM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: Lovers Ln US 68B Jurisdiction: KYTC Analysis Year: 2013 Description: Interstate 69 Conversion ______Flow Inputs and Adjustments_____ veh/h Volume, V 520 Peak-hour factor, PHF 0.90 144 Peak 15-min volume, v15 V Trucks and buses 17 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.922 Driver population factor, fp 1.00 313 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 12.0 Right-side lateral clearance 6.0 ft Total ramp density, TRD 3.42 ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 0.0 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 9.0 mi/h Free-flow speed, FFS 66.4 mi/h _____LOS and Performance Measures_____ Flow rate, vp 313 pc/h/ln Free-flow speed, FFS 66.4 mi/h Average passenger-car speed, S 65.0 mi/h Number of lanes, N 2

4.8

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: AM Design Hour
Freeway/Direction: Edward T Breathitt Pkwy From/To: Lovers Ln to US 68B Jurisdiction: KYTC Analysis Year: 2040 Description: Interstate 69 Conversion _____Flow Inputs and Adjustments_____ 660 veh/h Volume, V Peak-hour factor, PHF 0.90 183 Peak 15-min volume, v15 V Trucks and buses 21 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.905 Driver population factor, fp 1.00 405 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 12.0 Right-side lateral clearance 6.0 ft Total ramp density, TRD 3.42 ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 0.0 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 9.0 mi/h Free-flow speed, FFS 66.4 mi/h _____LOS and Performance Measures_____ Flow rate, vp 405 pc/h/ln Free-flow speed, FFS 66.4 mi/h Average passenger-car speed, S 65.0 mi/h Number of lanes, N 2

6.2

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: AM Design Hour
Freeway/Direction: Edward T Breathitt Pkwy From/To: Lovers Ln US 68B Jurisdiction: KYTC Analysis Year: 2013 Description: Interstate 69 Conversion _____Flow Inputs and Adjustments_____ veh/h Volume, V 560 Peak-hour factor, PHF 0.90 156 Peak 15-min volume, v15 V Trucks and buses 17 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.922 Driver population factor, fp 1.00 338 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 12.0 Right-side lateral clearance 6.0 ft Total ramp density, TRD 3.42 ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 0.0 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 9.0 mi/h Free-flow speed, FFS 66.4 mi/h _____LOS and Performance Measures_____ Flow rate, vp 338 pc/h/ln Free-flow speed, FFS 66.4 mi/h Average passenger-car speed, S 65.0 mi/h Number of lanes, N 2

5.2

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: PM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: Interstate 24 to Lovers Ln Jurisdiction: KYTC Analysis Year: 2040 Description: Interstate 69 Conversion ______Flow Inputs and Adjustments_____ Volume, V veh/h 730 Peak-hour factor, PHF 0.90 203 Peak 15-min volume, v15 V Trucks and buses 25 Recreational vehicles 0 Terrain type: Level Grade % જ Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.889 Driver population factor, fp 1.00 456 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width 12.0 ft Right-side lateral clearance 6.0 ft Total ramp density, TRD 0.39 ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 0.0 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 1.5 mi/h Free-flow speed, FFS 73.9 mi/h _____LOS and Performance Measures______

Flow rate, vp	456	pc/h/ln
Free-flow speed, FFS	73.9	mi/h
Average passenger-car speed, S	75.0	mi/h
Number of lanes, N	2	
Density, D	6.1	pc/mi/ln
Level of service, LOS	A	

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: PM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: Interstate 24 to Lovers Ln Jurisdiction: KYTC Analysis Year: 2013 Description: Interstate 69 Conversion ______Flow Inputs and Adjustments_____ Volume, V 560 veh/h Peak-hour factor, PHF 0.90 156 Peak 15-min volume, v15 V Trucks and buses 22 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.901 Driver population factor, fp 1.00 345 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 12.0 Right-side lateral clearance 6.0 ft 0.39 Total ramp density, TRD ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 0.0 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 1.5 mi/h Free-flow speed, FFS 73.9 mi/h _____LOS and Performance Measures_____ Flow rate, vp 345 pc/h/ln Free-flow speed, FFS 73.9 mi/h Average passenger-car speed, S 75.0 mi/h Number of lanes, N 2

4.6

Α

pc/mi/ln

Density, D

Phone: Fax: E-mail: _____Operational Analysis_____ Analyst: Agency or Company: Qk4
Date Performed: 4/4 4/4/2014 Analysis Time Period: AM Design Hour Freeway/Direction: Edward T Breathitt Pkwy From/To: Interstate 24 to Lovers Ln Jurisdiction: KYTC Analysis Year: 2040 Description: Interstate 69 Conversion ______Flow Inputs and Adjustments_____ veh/h Volume, V 610 Peak-hour factor, PHF 0.90 169 Peak 15-min volume, v15 V Trucks and buses 25 Recreational vehicles 0 Terrain type: Level 왕 Grade Segment length mi Trucks and buses PCE, ET 1.5 Recreational vehicle PCE, ER 1.2 Heavy vehicle adjustment, fHV 0.889 Driver population factor, fp 1.00 381 Flow rate, vp pc/h/ln _____Speed Inputs and Adjustments_____ Lane width ft 12.0 Right-side lateral clearance 6.0 ft 0.39 Total ramp density, TRD ramps/mi Number of lanes, N Free-flow speed: Base FFS or BFFS 75.4 mi/h 0.0 Lane width adjustment, fLW mi/h mi/h Lateral clearance adjustment, fLC 0.0 TRD adjustment 1.5 mi/h Free-flow speed, FFS 73.9 mi/h _____LOS and Performance Measures_____ Flow rate, vp 381 pc/h/ln Free-flow speed, FFS 73.9 mi/h Average passenger-car speed, S 75.0 mi/h Number of lanes, N 2

5.1

Α

pc/mi/ln

Density, D

				2013 Existing							2040 Build							
					AM Peak Hour		PM Peak Hour				AM Peak Hour		PM Peak Hour					
					NB	SB	NB	SB			NB	SB	NB	SB				
From Route	MP	To Route	MP	DHV	DHV	DHV	DHV	DHV	Truck %	DHV	DHV	DHV	DHV	DHV	Truck %			
124	0	Lovers Ln	5.175	900	459	441	549	351	22%	1,200	612	588	732	468	25%			
Lovers Ln	5.175	US 68B	5.759	850	289	561	332	519	17%	1,000	340	660	390	610	21%			
US 68B	5.759	US 41A	6.826	1,300	715	585	585	715	16%	1,400	770	630	630	770	20%			
US 41A	6.826	US 41	7.915	1,500	720	780	795	705	15%	2,000	960	1,040	1,060	940	18%			
US 41	7.915	US 68	9.347	1,500	630	870	885	615	15%	2,000	840	1,160	1,180	820	18%			
US 68	9.347	KY 1682	11.697	1,300	494	806	780	520	15%	1,700	646	1,054	1,020	680	18%			
KY 1682	11.697	KY 800	22.641	780	335	445	413	367	15%	1,000	430	570	530	470	18%			
KY 800	22.641	US 41	29.568	880	326	554	458	422	15%	1,200	444	756	624	576	18%			
US 41	29.568	US 62	32.85	930	493	437	474	456	15%	1,200	636	564	612	588	18%			
US 62	32.85	169	34.271	1,100	616	484	495	605	15%	1,400	784	616	630	770	18%			

						2013	Existing			2040 Build						
	1		/		AM Pea	AM Peak Hour		PM Peak Hour			AM Peak Hour		PM Peak Hour			
					NB	SB	NB	SB			NB	SB	NB	SB		
From Route	MP	To Route	MP	DHV	DHV	DHV	DHV	DHV	Truck %	DHV	DHV	DHV	DHV	DHV	Truck %	
124	0	Lovers Ln	5.175	900	459	441	549	351	22%	1,200	612	588	732	468	25%	
Lovers Ln	5.175	US 68B	5.759	850	289	561	332	519	17%	1,000	340	660	390	610	21%	
US 68B	5.759	US 41A	6.826	1,300	715	585	585	715	16%	1,400	770	630	630	770	20%	
US 41A	6.826	US 41	7.915	1,500	720	780	795	705	15%	2,000	960	1,040	1,060	940	18%	
US 41	7.915	US 68	9.347	1,500	630	870	885	615	15%	2,000	840	1,160	1,180	820	18%	
US 68	9.347	KY 1682	11.697	1,300	494	806	780	520	15%	1,700	646	1,054	1,020	680	18%	
KY 1682	11.697	KY 800	22.641	780	335	445	413	367	15%	1,000	430	570	530	470	18%	
KY 800	22.641	US 41	29.568	880	326	554	458	422	15%	1,200	444	756	624	576	18%	
US 41	29.568	US 62	32.85	930	493	437	474	456	15%	1,200	636	564	612	588	18%	
US 62	32.85	169	34.271	1,100	616	484	495	605	15%	1,400	784	616	630	770	18%	