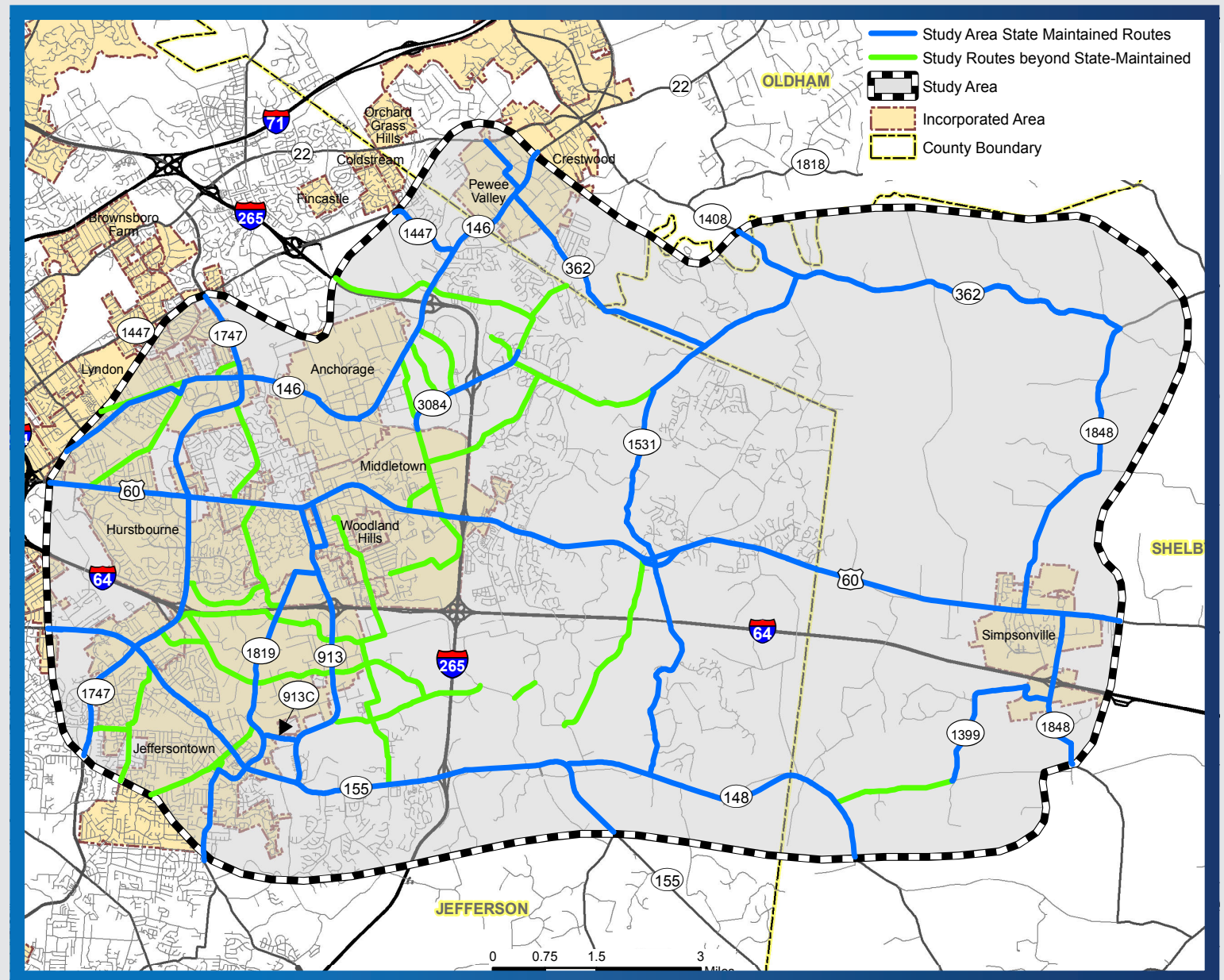


# MIDDLETOWN to SIMPSONVILLE

## NEEDS ANALYSIS STUDY

**EXECUTIVE  
SUMMARY**  
JULY 2019



In Partnership With



*Groundbreaking by Design.*



EXECUTIVE SUMMARY

The Kentucky Transportation Cabinet (KYTC) initiated a Needs Analysis Study for portions of Jefferson, Oldham, and Shelby counties. The study examined transportation needs related to safety and congestion on key routes in the study area to assist KYTC District 5 personnel and other elected public officials in the decision-making process as the 2020 Strategic Highway Investment Formula for Tomorrow (SHIFT) cycle began. SHIFT is the mechanism used to prioritize projects for Kentucky’s biennial highway plan; key steps in the process are illustrated in **Figure ES-1**.


The study began in October 2018, with the goal of producing information to feed into the 2020 SHIFT sponsorship phase, scheduled to occur January 2 through March 15, 2019. Therefore, the project team inventoried existing conditions (**Chapter 2**) on study routes, including state-maintained routes and a selection of city- and county-owned local roadways, representing nearly 140 centerline miles of highway. The team reviewed previous plans, projects, and studies (**Chapter 3**). KYTC District 5 provided a list of 40 projects for evaluation. Ten additional possible improvement concepts were developed after a gap analysis was completed (**Chapter 4**). A comprehensive project matrix was compiled (**Chapter 5**), summarizing up-to-date project descriptions, cost estimates, safety statistics, and congestion information.

**Table ES-1** contains the matrix; project locations are shown geographically in **Figure ES-3 (p. ES-6)**. In total, 26 projects within the matrix were selected for sponsorship in 2020 SHIFT, shown with an asterisk by their name on the map.


**Figure ES-2** contains a template for the matrix format, including a hypothetical project.

- The first portion of the matrix, noted with a red 1 and blue 2 in **Figure ES-2**, contain background information about the proposed project.
- The central portion, noted with a purple 3, describes year 2018 existing and year 2040 No-Build future traffic, highlighting any segments operating at Level of Service (LOS) E/F, having a volume to capacity (v/c) ratio ≥0.8, or demonstrating Medium High/High delay as red text to emphasize potential priorities.
- Noted with a green 4 and gray 5, the next portions describe crashes and high Critical Crash Rate Factor (CCRF) spots/segments, highlighting locations with more than one high CCRF spot/segment or high crash areas exceeding expected crashes (EEC) based on roadway type as red text.
- The results of the geometric data review are included in the next column, noted with a yellow 6.
- The final section, noted with an orange 7, describes the year 2040 Build condition traffic.


### How SHIFT Works




**The List:** KYTC starts with a list of projects previously identified by state and local transportation leaders (Area Development Districts, Metropolitan Planning Organizations and KYTC Districts). These leaders may add or subtract projects at this stage.




**Sponsorship:** To move forward, projects must either be sponsored by local transportation leaders or be committed projects—those listed in the previous State Highway Plan with funding beyond the design phase. Each ADD, MPO and District are allocated a number of sponsorships based on population, lane miles and number of counties served. After consulting with local elected officials, transportation leaders choose which projects to sponsor.




**Review and Scoring:** Each project is reviewed and scored on a scale of 0 to 100 with a formula that uses objective measures for five key attributes—safety, congestion, asset management, economic growth and benefit/cost. Projects of statewide significance—interstates, parkways and other major connecting routes—are scored first. The remaining projects, known as regional projects, are scored using a similar formula.




**Statewide Priorities:** KYTC identifies the top scoring statewide projects and about one-third are selected for priority funding. The remaining statewide projects are considered during the next phase.




**Local Boosting:** Local transportation leaders take the lead role in prioritizing regional priorities, which include highways and local roads as well as the remaining statewide projects. Using local insights, ADDs, MPOs and KYTC Districts may "boost" the scores for their top priority projects, adding 15 points to their base scores on the 0-to-100 point scale. Projects boosted by both the District and ADD/MPO receive an additional 30 points—a "turbo boost."



**Regional Priorities:** Kentucky is divided into four geographic regions—each containing three contiguous KYTC districts. Each region gets an equal allocation of funds. The top ranking projects in each region are the priorities considered in drafting the State Highway Plan.



**Recommended State Highway Plan:** KYTC combines the statewide and regional priorities to help develop the Governor's Recommended State Highway Plan, which is presented to the General Assembly.



**Enacted State Highway Plan:** During the legislative session, lawmakers fine-tune the plan based on additional information and funding availability. The result is the Enacted State Highway Plan, which includes two years of funded projects and spending priorities for the following four years.

Figure ES-1: Key Steps in the 2020 SHIFT Process

Guide to interpreting the Matrix:

1							2		3					4		5		6		7						
Project ID	Other IDs	County	Route	BMP	EMP	Description of Improvement	Conceptual Project for Modeling & Cost Estimate	Other Notes	Existing Conditions										7/15-6/18 Crashes (F/I/PDO)	High CRF Sites	EEC Seg Int	Substandard Geometry	Improvement Info			
									2018				2040 No Build													
ADT	% Trucks	LOS	V/C	Delay	ADT	LOS	V/C																			
CHAF IP20000000	Item 5-000 MTP # 001	Jefferson	KY 000	0.000	1.000	Widen KY 000 to five lanes from Begin Dr to End Rd	Major widening (five lanes)	Ranked 50th regionally in 2018 SHIFT.	10,000	5	D	0.2-0.3	ML-M	13,000	E	0.2-0.4	100 crashes (0/10/90)	0 segment 3 spots	0.2 mi 1 int	2 sharp curves	13,500 ADT LOS A-B   0.2 V/C	Design & ROW complete	\$5,000,000	No		

Figure ES-2: Guide to Data Headings in Stage 1 Matrix

Table ES-1: Stage 1 Matrix

Middletown to Simpsonville Needs Analysis Study

Project ID	Other IDs	County	Route	BMP	EMP	Description of Improvement	Conceptual Project for Modeling & Cost Estimate	Other Notes	Existing Conditions												Improvement Info			
									2018				Delay	2040 No Build			7/15-6/18 Crashes (F/I/PDO)	High CCRF Sites	EEC Seg Int	Substandard Geometry	2040 Build Summary	Project Development Status	Total Remaining Cost Estimate	Bike/Ped
									ADT	% Trucks	LOS	V/C		ADT	LOS	V/C								
Statewide Significance (Interstates & NHS Routes)																								
CHAF IP20160174	Item 5-537.00/01/02 MTP # 958	Jefferson	I-265	23.409	34.727	SIX LANE PRIORITY SECTION OF I-265 BETWEEN TAYLORSVILLE ROAD AND I-71.	Major Widening (six lanes)	Priority 1-2-4 in 2015 Programming Study. Ranked 1st statewide in 2018 SHIFT.	48,500-86,500	10-11			L-H MH 2.6 mi H 0.2 mi	56,000-95,000					2.6 mi 0 int	N/A	64,000-115,000 ADT -7,027 VHT   +11,242 VMT	Design ongoing	\$147,310,000	N/A
CHAF IP20150080	Item 5-558.00 MTP # 959	Jefferson	I-265	17.300	23.100	IMPROVE SAFETY AND REDUCE CONGESTION ON I-265 FROM US-31E (BARDSTOWN RD) TO KY-155 (TAYLORSVILLE RD).	Major Widening (six lanes)	Priority 5 of 5 in 2015 Programming Study. Ranked 29th statewide in 2018 SHIFT.	66,000-71,000	9-12			ML-M	77,000-83,000					2.6 mi 0 int	N/A	87,000-93,000 ADT -2,716 VHT   +6,774 VMT	Pre-design	\$85,730,000	N/A
CHAF IP20150184	Item 5-549.00/.01 MTP # 179	Jefferson	I-265	24.600	26.400	RECONSTRUCTION OF THE I-265/I-64 INTERCHANGE. (2016BOP)	Reconstruct I-265/I-64 Interchange	Priority in 2015 Programming Study. Ranked 33rd statewide (#5-549) and 22nd regionally (#5-21.2) in 2018 SHIFT.	48,500	10.6			L-H MH 0.7 mi H 0.3 mi	56,000-111,000					3.4 mi 0 int		57,000-111,000 -347 VHT   -3,001 VMT	Design ongoing	\$41,330,000	N/A
			I-64	18.600	19.200				60,000-95,000	9.5							N/A							
CHAF IP20080196	N/A	Jefferson	US 60	5.529	7.857	Improve safety and reduce congestion on US 60 from I-264 to KY 1747. Project design will evaluate one added travel lane in each drection and consider bicycle and pedestrian facilities.	Major Widening (six+ lanes)	CHAF notes dense development, regional attractions, growing UL Shelby campus. Not sponsored in 2018 SHIFT.	38,400-56,590	7.8	C-E	0.6-0.8	ML-MH	43,000-62,000	D-E	0.6-0.9	474 crashes (1/49/424)	2 segments 4 spots	0.8 mi 9 int	10-foot lanes 1 fair condition bridge	52,000-68,000 ADT LOS D   0.6-0.8 V/C	Pre-design	\$26,890,000	Yes
Concept L	N/A	Jefferson	KY 155	3.000	4.200	Improve safety and congestion on KY 155 (Taylorsville Lake Road) from KY 148 (Taylorsville Road) to KY 1531 (Routt Road). Project will evaluate the addition of one travel lane in each direction and the addition of bicycle and pedestrian facilities.	Major Widening (four lanes)	Covington by the Park development (800+ homes, retail) to add turn lanes. New project.	17,460	7.5	E	0.6	L	28,000	F	1.0	25 crashes (0/3/22)	0 segments 0 spot	1.2 mi 2 int	1 fair condition bridge	29,000 ADT LOS B   0.4 V/C	Pre-design	\$16,926,000	Yes
CHAF IP20080202	Item 5-8908.00 MTP #956	Jefferson	KY 155	4.400	5.750	IMPROVE SAFETY AND REDUCE CONGESTION ON KY 155 (TAYLORSVILLE ROAD) FROM I-265 TO KY 148 (TAYLORSVILLE ROAD). PROJECT WILL EVALUATE UP TO 5-LANE WIDENING WITH TWO-WAY CENTER TURN LANE AND CONSIDER BICYCLE AND PEDESTRIAN FACILITIES.	Minor Widening (add center turn lane)	\$19.8M in SPP funds in 2018-24 SYP. Ranked 7th regionally in 2018 SHIFT (MP 4.4-6.3).	20,310	7.5	A-E	0.2-0.5	L	25,000-29,000	A-E	0.3-0.8	87 crashes (1/29/57)	0 segments 2 spots	0.7 mi 3 int	N/A	28,000-29,000 ADT LOS A-E   0.3-0.7 V/C	Pre-design	\$19,840,000	Yes
CHAF IP20080218	Item 5-8953 MTP # 2384	Jefferson	KY 1747	13.400	13.600	IMPROVE THE HURSTBOURNE PARKWAY (KY 1747) AT SHELBYVILLE ROAD (US 60) INTERSECTION TO INCREASE CAPACITY, REDUCE DELAYS, AND IMPROVE SAFETY. (SEE 5-344.02)	Intersection Improvements	In 2016-22 SYP but not 2018-24. Ranked 126th regionally in 2018 SHIFT.	22,180-33,930	2-10	E	0.3-0.4	M	26,000-40,000	F	0.4-0.5	83 crashes (0/5/78)	2 segments 2 spots	0.4 mi 1 int	1 sharp curve	26,000-40,000 ADT LOS E-F for intersection	Design completed	\$4,390,000	No
			US 60	7.857	7.857				38,400	8-10		0.5-0.6		43,000		0.5-0.7	--	--	N/A	43,000 ADT				
CHAF IP20080197	MTP #479	Jefferson	US 60	7.857	11.093	Improve safety and reduce congestion on US 60 from KY 1747 to Old Shelbyville Road (CS3596). Project will evaluate the addition of one travel lane in each direction and will consider accommodations for bicyclists, pedestrians, and transit users.	Major Widening (six lanes)	CHAF notes dense development, regional attractions, growing area. Ranked 184th regionally in 2018 SHIFT.	30,500-45,600	2-10	C-D	0.4-0.7	ML-MH	35,000-60,000	C-E	0.5-1.0	753 crashes (1/97/655)	5 segments 14 spots	2.1 mi 19 int	1 steep grade 1 sharp curve	38,000-56,000 ADT LOS B-D   0.4-0.6 V/C	Pre-design	\$54,883,000	Yes
CHAF IP20180043	Item 5-80001.00	Jefferson	US 60	11.093	11.684	WIDEN US-60 TO 6 LANES FROM OLD SHELBYVILLE RD. TO NORTH ENGLISH STATION RD. (18CCN)	Major Widening (six lanes)	\$4.0M in SPP funds in 2018-24 SYP. Not sponsored in 2018 SHIFT.	32,430-35,620	9.6	C	0.6	MH	41,000-45,000	D	0.7-0.8	208 crashes (0/20/188)	1 segment 3 spots	0.5 mi 3 int	N/A	42,000-46,000 ADT LOS C   0.5 V/C	Pre-design	\$4,025,000	Yes
CHAF IP20080201	MTP # 1372	Jefferson	KY 155	6.300	9.350	Improve safety and reduce congestion on KY 155 from Watterson Trail to I-265. Project design will evaluate 3-lane widening with two-way center turn lane and consider bicycle and pedestrian facilities.	Major Widening (five lanes)	CHAF notes developing area plus commuter link for Shelby & Spencer Co. Ranked 108th regionally in 2018 SHIFT.	11,620-18,060	7-15	A-E	0.2-0.5	L-ML	17,000-23,000	A-E	0.3-0.7	241 crashes (2/30/209)	2 segments 4 spots	1.1 mi 5 int	N/A	24,000-32,000 ADT LOS A-B   0.3-0.4 V/C	Pre-design	\$24,300,000	Yes
CHAF IP20130147	Item 5-808.00 TIP #1507	Jefferson	KY 155	4.400	5.000	SAFETY PROJECT FOR RECONSTRUCTION OF TAYLORSVILLE ROAD AND SOUTH POPE LICK ROAD INTERSECTION AND BRIDGE OVER POPE LICK CREEK.(2016BOP)	Safety/Hazard Elimination (intersection/bridge)	\$2.1M in STP funds in 2018-24 SYP. Ranked 79th regionally in 2018 SHIFT.	20,310	7.5	E	0.5	ML	29,000	E	0.7	47 crashes (1/18/28)	0 segments 1 spot	0.3 mi 3 int	1 poor condition bridge	Minimal operational changes	Design ongoing	\$2,125,000	Yes
CHAF IP20080203	MTP # 469	Jefferson	KY 155	11.395	13.314	Improve safety and reduce congestion on KY 155 from Hikes Lane/Browns Lane to KY 1747 (Hursbourne Parkway). To include bicycle and pedestrian facilities.	Major Widening (six lanes)	CHAF notes developing area. Ranked 254th regionally in 2018 SHIFT.	30,850-42,020	7-8	B-D	0.3-.07	L-M	36,000-46,000	C-D	0.4-0.8	202 crashes (0/41/161)	0 segments 4 spots	0.9 mi 8 int	N/A	38,000-58,000 ADT LOS C-D   0.4-0.7 V/C	Pre-design	\$15,450,000	Yes

Project ID	Other IDs	County	Route	BMP	EMP	Description of Improvement	Conceptual Project for Modeling & Cost Estimate	Other Notes	Existing Conditions												Improvement Info				
									2018				Delay	2040 No Build			7/15-6/18 Crashes (F/I/PDO)	High CCRF Sites	EEC Seg Int	Substandard Geometry	2040 Build Summary	Project Development Status	Total Remaining Cost Estimate	Bike/Ped	
									ADT	% Trucks	LOS	V/C		ADT	LOS	V/C									
CHAF IP20130135	Item 5-555.00	Jefferson	KY 1747	10.500	11.995	REDUCE CONGESTION AND IMPROVE SAFETY ALONG KY-1747 (HURSTBOURNE PARKWAY) FROM STONY BROOK DRIVE TO I-64.	Congestion Management	\$250K NH planning funds in 2018-24 SYP. <b>Ranked 11th regionally in 2018 SHIFT.</b>	32,680-56,410	3-4	B-C	0.3-0.5	<b>ML-MH</b>	34,000-62,000	B-C	0.4-0.5	709 crashes (0/75/634)	<b>5 segments 9 spots</b>	<b>0.9 mi 10 int</b>	N/A	38,000-66,000 ADT LOS B-C   0.4-0.6	Pre-design	\$3,436,279	Yes	
Concept G CHAF IP20080217	N/A	Jefferson	KY 1747	7.489	11.033	Improve safety and mobility on KY 1747 (South Hurstbourne Parkway) from US 31E (Bardstown Road) to KY 155 (Taylorsville Road). Project will evaluate operational improvements and signal optimization.	Safety Improvements	MTP #386 (1999) showed 6 lane widening with improved access to Christian Academy. New project.	24,300-32,680	4.3	B-C	0.3-0.5	L-M	34,000	B-C	0.4-0.5	304 crashes (0/36/268)	<b>1 segment 6 spots</b>	<b>1.7 mi 4 int</b>	1 sharp curve	Minimal operational changes	Pre-design	\$2,106,000	Yes	
CHAF IP20150185	Item 5-41.10	Jefferson	I-265	26.500	27.100	SNYDER FREEWAY; RECONSTRUCT I-265/US-60 INTERCHANGE AS A SINGLE POINT URBAN INTERCHANGE AND CONSTRUCT NEEDED IMPROVEMENTS TO CONNECT WITH THE I-265/I-64 INTERCHANGE (2006BOPC)	Reconstruct I-265/US 60 Interchange as SPUI with C/D to I-64 Interchange	Ranked 185th regionally in 2018 SHIFT.	86,500	10.0			<b>L-MH MH 1.0 MI</b>	83,000-95,000					<b>0.3 mi 8 int</b>	N/A	83,000-95,000 -180 VHT   -1,289 VMT	Pre-design	\$64,410,000	N/A	
			US 60	11.800	12.300				34,500	2.0							N/A								
CHAF IP20150293	Item 5-344.01 MTP # 359	Jefferson	KY 1747	12.289	13.362	WIDEN SOUTHBOUND HURSTBOURNE LANE TO 3 LANES FROM LINN STATION RD (CS-1004H) TO EDEN AVE (CS-1660H). (06CCR)(03KYD)(2006BOPP)(SEE 5-344.02 FOR KYD C PHASE)(14CCR)	Reconstruction (add 3rd SB thru lane)	In 2016-22 SYP but not 2018-24. <b>Ranked 36th statewide and 32nd regionally in 2018 SHIFT.</b>	33,930	2	B-C	0.3-0.4	ML-M	26,000-40,000	B	0.4	205 crashes (0/33/172)	0 segment 2 spots	1.0 mi 3 int	N/A	39,000-43,000 ADT LOS C   0.4-0.7 V/C	Utilities cleared	\$5,810,000	No	
Concept O	N/A	Jefferson	I-265	22.700	23.400	Improve safety and reduce congestion on the I-265/KY 155 (Taylorsville Road) interchange. Project will evaluate reconstruction of the interchange.	Reconstruct I-265/KY 155 Interchange	Identified in 2015 Programming Study (moderate/low priority). New project.	71,000	12.4			L-M	56,000-83,000					0.5 mi 3 int	N/A	56,000-83,000 -75 VHT   +160 VMT	Pre-design	\$32,366,000	N/A	
			KY 155	6.058	6.058				20,000	6.7							N/A								
Concept O2	N/A	Jefferson	KY 155	6.058	6.058	Improve safety and mobility at the I-265/KY 155 (Taylorsville Road) interchange. Project will evaluate the addition of a second eastbound left turn lane on KY 155 to northbound I-265 with consideration of bicycle and pedestrian facilities.	Add second eastbound left	Short term option versus Concept O. Also identified in 2015 Programming Study.	20,000	6.7			L				12 crashes (0/2/10)	<b>1 segment 1 spot</b>	0 mi 1 int	N/A	Minimal operational changes	Pre-design	\$4,790,000	Yes	
CHAF IP20080192	MTP #1514	Jefferson	I-265	24.000	24.600	Provide connectivity and improved mobility on I-265 at Rehl Road. The Rehl Road portion would include enhanced safety for bicyclists and pedestrians.	New Interchange at I-265/Rehl Road	Identified in 2015 Programming Study (moderate/low priority).	48,500	10.6			M	56,000					0.6 mi 0 int	N/A	57,000 ADT +508 VHT   -6,500 VMT	Pre-design	\$36,580,000	N/A	
CHAF IP20150139	Item 5-80002.00 Item 5-80000.00 Item 5-8200.1 MTP # 390	Jefferson	I-64	21.000	22.000	NEW INTERCHANGE ON I-64E EAST OF THE GENE SNYDER FREEWAY. EASTWOOD FISHERVILLE CONNECTOR TO I-64. (18CCN)	New Eastwood/Fisherville Interchange with connection between US 60 and KY 148	Ranked 186th regionally in 2018 SHIFT.	60,000	9.5			L-ML	75,000					0 mi 0 int	N/A	78,000 ADT +59 VHT   -1,970 VMT	Pre-design	\$74,240,000	N/A	
CHAF IP20160184	Item 5-8905.00 MTP # 2383	Jefferson	KY 1747	9.483	9.583	EXTEND THE LEFT TURN LANE ON HURSTBOURNE LANE AT INTERSECTION WITH SIX MILE LANE.	Safety/Hazard Elimination (extend left turn lane)	In 2016-22 SYP but not 2018-24. Ranked 156th regionally in 2018 SHIFT.	24,300	4.3	B	0.3	ML	34,000	B	0.4	29 crashes (0/3/26)	0 segment 1 spot	0.1 mi 0 int	N/A	Minimal operational changes. Queue storage ratio improves (<1).	Pre-design	\$200,000	No	
			Six Mile Ln	2.868	2.868				7,130	--	--	--		10,160	--	--	--	1 sharp curve							
Other Regional & Local Routes																									
CHAF IP20080200	MTP # 443	Jefferson	KY 146	6.964	8.251	Improve safety and reduce congestion on KY 146 from Nelson Miller Parkway (CR1019C) to Reamers Road (CR1004D). To include consideration for bicycle and pedestrian facilities. Project will consider improvements to the I-265/KY 146 Interchange and the addition of one travel lane in each direction.	Major Widening (five lanes)	CHAF notes regional attractions, anticipated growth, adjacent rail line. Ranked 118th regionally in 2018 SHIFT (MP 7.5-8.3).	11,070-18,680	3-6	<b>A-E</b>	0.2-0.6	L-ML	14,000-23,000	<b>A-E</b>	<b>0.2-0.8</b>	224 crashes (0/23/201)	<b>2 segments 4 spots</b>	<b>0.7 mi 6 int</b>	N/A	15,000-33,000 ADT LOS B-C   0.3-0.5 V/C	Pre-design	\$14,500,000	Yes	
CHAF IP20150319	Item 5-373 MTP # 233	Jefferson	KY 1819	10.795	12.811	RECONSTRUCT AND WIDEN WATTERSON TRAIL FROM PLANTSIDE DRIVE TO BLANKENBAKER ROAD. (98CCR)	Major Widening	Ranked 100th regionally in 2018 SHIFT.	5,840-10,880	8-9	<b>E</b>	0.2-0.3	L-ML	8,00-13,000	<b>E</b>	0.2-0.4	79 crashes (0/11/68)	<b>0 segment 3 spots</b>	<b>0.9 mi 2 int</b>	6 sharp curves	9,300-13,000 ADT LOS A-B   0.2 V/C	ROW complete	\$15,280,000	No	
CHAF IP20170032	Item 5-353.00 MTP # 188	Jefferson	N English Stn CR-1006C	0.457	1.232	WIDEN ENGLISH STATION ROAD FROM 2 TO 3 LANES (3RD LANE WILL BE A CENTER LANE) FROM AIKEN ROAD TO AVOCA ROAD. (FUNDING SUBJECT TO FISCAL CONSTRAINT PENDING MPO TIP).	Minor Widening (add center turn lane)	\$6.5M SLO const funds in 2018-24 SYP. <b>Ranked 32nd regionally in 2018 SHIFT.</b>	17,400	8.6	<b>E</b>	0.6	ML-M	16,000-22,000	<b>E</b>	<b>0.6-0.8</b>	0 crashes	--	0.5 mi 0 int	10-foot lanes	18,000-23,000 ADT LOS D-E   0.4-0.5 V/C	Design & ROW ongoing	\$6,410,000	Yes	



Project ID	Other IDs	County	Route	BMP	EMP	Description of Improvement	Conceptual Project for Modeling & Cost Estimate	Other Notes	Existing Conditions											Improvement Info				
									2018				Delay	2040 No Build			7/15-6/18 Crashes (F/I/PDO)	High CCRF Sites	EEC Seg Int	Substandard Geometry	2040 Build Summary	Project Development Status	Total Remaining Cost Estimate	Bike/Ped
									ADT	% Trucks	LOS	V/C		ADT	LOS	V/C								
CHAF IP20080214	Overlaps MTP # 484	Jefferson	KY 1447	7.500	9.240	Improve safety and reduce congestion on KY 1447 (Westport Road) from Murphy Lane to KY 146. Project design will evaluate 3-lane widening with two-way center turn lane and consider bicycle and pedestrian facilities.	Minor Widening (add center turn lane)	CHAF notes ongoing growth, Ford plant freight and employee flows. Not sponsored in 2018 SHIFT.	7,540	18.3	E	0.2	L	11,000	E	0.4	54 crashes (0/8/46)	0 segment 1 spot	0.6 mi 5 int	5 sharp curves 10-foot lanes	11,000 ADT LOS E   0.4 V/C	Pre-design	\$5,470,000	Yes
Concept R	N/A	Jefferson	KY 146	2.740	2.740	Improve safety at the KY 146 (LaGrange Road)/Whipps Mill (CR-1005C) intersection. Project will evaluate adding a two-way center turn lane and other capacity improvements including consideration of bicycle and pedestrian facilities.	Intersection Improvements	New project	9,710	5.5	D-E	0.3	L-ML	13,000	D-F	0.4	2 crashes (0/0/2)	0 segment 1 spot	0 mi 1 int	sharp curve	13,000 ADT LOS D-E for intersection	Pre-design	\$2,880,000	Yes
			Whipps Mill	2.740	2.740				8,100	--		--		--	--	--	--							
CHAF IP20160185	Item 5-8203.00 MTP # 1819	Jefferson	KY 1819	6.900	8.100	RECONSTRUCT BILLTOWN ROAD FROM NORTH OF COLONNADES PLACE TO SOUTH OF EASUM ROAD.(04CCN)(06CCN)(08CCR)(10CCR)(12CCR)	Reconstruction of three intersections	\$2.7M SPP const funds in 2018-24 STP. Ranked 17th regionally in 2018 SHIFT.	13,770-13,900	4-7	E	0.5	L	18,000	E	0.6-0.7	39 crashes (0/4/35)	0 segment 0 spot	0.3 mi 7 int	3 sharp curves 10-foot lanes	18,000 ADT LOS E   0.6-0.7 V/C	ROW complete	\$2,700,000	No
CHAF IP20080219	MTP # 257	Jefferson	KY 1819	5.300	8.900	Improve safety, mobility for all modes, and address geometric deficiencies along KY 1819 (Billtown Road) from I-265 (Gene Snyder Freeway) to Ruckriegel Parkway/Billtown Road (in and near Jeffersontown). Project will evaluate 3-lane widening and consider accommodations for bicyclists and pedestrians	Minor Widening	Ultimate solution beyond IP20160185. CHAF notes ongoing growth. Not sponsored in 2018 SHIFT.	13,770-13,900	4-7	E	0.5	L	18,000	E	0.5-0.7	94 crashes (0/12/82)	0 segment 0 spot	1.3 mi 12 int	3 sharp curves 10-foot lanes	16,000-18,000 ADT LOS E   0.5-0.7 V/C	Pre-design	\$27,120,000	Yes
Concept C CHAF IP20080198	Overlaps MTP # 953	Jefferson	US 60	15.114	17.375	Improve safety and reduce congestion on US 60 from Rockcrest Way (CS-3157) to Notting Hill Blvd (CS-1224J) at the Jefferson/Shelby County line. Project design will evaluate 3-lane widening with a continuous two-way center turn lane and other low impact alternatives. Design will also consider accommodations for bicyclists, pedestrians, and future transit users.	Minor Widening (add center turn lane)	New project.	13,570-19,330	6.6	B-E	0.3-0.5	L	19,000-26,000	B-E	0.4-0.7	33 crashes (0/5/28)	0 segment 0 spot	0 mi 3 int	1 poor condition bridge	20,000-26,000 ADT LOS B-E   0.4-0.7 V/C	Pre-design	\$9,953,750	Yes
CHAF IP20080252	MTP # 412	Oldham	KY 146	0.000	2.021	Reduce congestion, improve access, and provide better mobility for all modes along KY 146 from the Oldham/Jefferson County line to Pryor Avenue in Crestwood. Project design will consider reconstructing KY 146 as a 2 lane road (no additional lanes) from Jefferson/Oldham County line to Pryor Avenue in Oldham County with consideration for turn lanes at Ash Avenue, Houston Avenue, Maple Avenue, and Central Avenue.	Reconstruction	CHAF notes regional attractions, anticipated growth, adjacent rail line. Not sponsored in 2018 SHIFT.	9,920-19,130	5.8	A-E	0.2-0.4	L	12,000-24,000	E	0.5	59 crashes (1/10/48)	0 segment 1 spot	0.7 mi 5 int	10-foot lanes	16,000 ADT LOS E   0.5-0.6 V/C	Pre-design	\$14,750,000	Yes
CHAF IP20080234	MTP # 472	Jefferson	Tucker Stn CR-1001H	1.079	3.538	Reconstruct Tucker Station Road from Rehl Road to Ellingsworth Lane. Project design will evaluate 2 lane road (no added lanes) and consider intersection improvements (S. Pope Lick, Rehl Road, & Ellingsworth Lane) and bicycle and pedestrian facilities.	Reconstruction (no additional lanes)	CHAF notes ongoing growth, few I-64 crossings. Not sponsored in 2018 SHIFT.	4,220	6.9	C-D	0.3	L	6,300-7,800	D-E	0.4-0.5	--	--	0.2 mi 0 int	5 sharp curves 10-foot lanes	6,300-7,800 ADT LOS D-E   0.4-0.5 V/C	Pre-design	\$11,880,000	Yes
CHAF IP20160176	Item 5-8952.00 Overlaps MTP # 953	Jefferson	US 60	14.718	15.114	WIDEN US-60 TO THREE LANES FROM EASTWOOD CUTOFF (MP 14.7) TO ROCKCREST WAY (MP 15.1). (16CCN)	Minor Widening and Intersection Improvements	\$1.9M in SPP funds in 2018-24 SYP. Ranked 80th regionally in 2018 SHIFT.	19,330	6.6	B	0.3	L	26,000	B	0.4	32 crashes (1/3/28)	0 segment 1 spot	0.1 mi 2 int	4 sharp curves	25,000 ADT LOS B   0.4 V/C	Pre-design	\$2,075,000	No

Project ID	Other IDs	County	Route	BMP	EMP	Description of Improvement	Conceptual Project for Modeling & Cost Estimate	Other Notes	Existing Conditions											Improvement Info				
									2018				Delay	2040 No Build			7/15-6/18 Crashes (F/I/PDO)	High CCRF Sites	EEC Seg Int	Substandard Geometry	2040 Build Summary	Project Development Status	Total Remaining Cost Estimate	Bike/Ped
									ADT	% Trucks	LOS	V/C		ADT	LOS	V/C								
CHAF IP20130132	N/A	Oldham	KY 362	0.975	3.039	Improve safety, access, and address geometric deficiencies along KY 362 from the Oldham/Shelby County Line to KY 146 (in and south of Pewee Valley). Includes consideration of a 3 lane widening with a two-way left turn lane and bike/ped accommodations.	Safety/Hazard Elimination	CHAF notes future connection to Old Henry Rd (IP20110079). Not sponsored in 2018 SHIFT.	1,590-4,290	5	B-D	0.1-0.2	L	3,100-6,900	C-D	0.1-0.3	16 crashes (0/2/14)	0 segments 1 spot	0 mi 4 int	2 sharp curves 1 poor condition bridge 1 fair condition bridge 9-foot lanes	2,200-7,700 ADT LOS C-D   0.1-0.3 V/C	Pre-design	\$10,385,000	Yes
Concept N	N/A	Oldham	KY 362	0.000	0.000	Improve safety at the KY 22/KY 362 intersection. Project will evaluate adding a northbound right turn lane on KY 362 (Central Avenue) to KY 22 (Ballardsville Road) and add a westbound left turn lane and an eastbound right turn lane on KY 22 at KY 362.	Intersection Improvements	Moderate short-term in KY 22 Scoping study (2005). New project.	1,940	5	A	0.1	L	4,400	B	0.1	2 crashes (0/0/2)	0 segment 0 spot	0.1 mi 0 int	skewed intersection 9-foot lanes on KY 362	Minimal operational changes	Pre-design	\$3,780,000	No
			KY 22	1.825	1.825				9,100	--	--	--		--	--	--								
CHAF IP20080215	MTP # 411	Jefferson	KY 1531	9.100	11.900	Relocate & reconstruct KY 1531 (Johnson Road) as a 2 lane road (no additional lanes) with improved geometry from US 60 (Shelbyville Road) to Aiken Road. Project will consider bicycle and pedestrian facilities.	Reconstruction (no additional lanes)	CHAF notes ongoing growth, outlet for US 60 congestion. Not sponsored in 2018 SHIFT.	940-2,420	7-11	B	0.1	L	2,600-4,300	C	0.1-0.2	9 crashes (0/1/8)	0 segment 0 spot	0 mi 2 int	16 sharp curves 1 fair condition bridge 9-foot lanes	3,500-4,300 ADT LOS C   0.1-0.2 V/C	Pre-design	\$11,830,000	Yes
Concept D	Comp Plan #29	Shelby	KY 1848	6.418	7.005	Improve connectivity to KY 1848 (Todds Point Road) from Grand Central Drive to approximately 3,100 feet north of Grand Central Drive. Project will consider roadway widening with no additional thru lanes and bicycle and pedestrian facilities.	Minor Widening	New project.	2,690	8.2	C	0.1	L	5,200	C	0.2	3 crashes (0/0/3)	0 segment 0 spot	0.1 mi 0 int	2 sharp curves 9-foot lanes	5,200 ADT LOS C   0.2 V/C	Pre-design	\$3,340,750	Yes
Concept A	MTP #1323	Jefferson	Flat Rock CR-1002D	0.000	3.848	Improve safety on Flat Rock Road (CR-1002D) from Shelbyville Road (US 60) to Aiken Road (KY 1531). Project will evaluate widening with no additional thru lanes and consider bicycle and pedestrian facilities. Bicycle and pedestrian facilities would be proposed due to parks etc. in area.	Minor Widening	KIPDA MTP project. US 60 intersection already improved. New project.	4,800	--	--	--	L	--	--	--	--	--	--	sharp curves 10-foot lanes	6,700 ADT LOS D   0.3 V/C	Pre-design	\$75,237,000	No
CHAF IP20110077	MTP # 277	Jefferson	S English Stn CR-1002J	2.950	3.900	Reconstruct South English Station Road (CR1002J) from Poplar Lane to Christian Academy. Project design will evaluate 2 lane road (no added lanes) and consider bicycle and pedestrian facilities.	Reconstruction (no additional lanes)	Not sponsored in 2018 SHIFT.	1,700	--	--	--	L	--	--	--	--	--	0.4 mi 0 int	N/A	1,700 ADT LOS C   0.2 V/C	Pre-design	\$2,060,000	Yes
CHAF IP20080232	MTP # 462	Jefferson	Rehl CR-1006H	0.000	2.255	Reconstruct Rehl Road from KY 913 (Blankenbaker Parkway) to S. Pope Lick Road. Project design will evaluate 2 lane road (no added lanes) and consider bicycle and pedestrian facilities.	Reconstruction (no additional lanes)	CHAF notes proposed growth from new interchange (IP20080192). Not sponsored in 2018 SHIFT.	750	2	B	0.1	L	3,000	C	0.3	±7 crashes	--	0.1 mi 1 int	3 sharp curves 9- to 10-foot lanes	3,000 ADT LOS C   0.3 V/C	Pre-design	\$12,060,000	Yes
Concept M	MTP #1325	Jefferson	Old Heady CR-1008H	0.000	1.376	Improve safety and mobility on Old Heady Road (CR-1008H) from KY 155 (Taylorsville Road) to Chenoweth Run Road (CR-1003H). Project will evaluate adding a two-way center turn lane and bicycle and pedestrian facilities.	Widening with Center Turn Lane	MTP (2004) shows adding TWLTL. New project.	4,350	--	--	--	L	--	--	--	--	--	0 mi 1 int	10-foot lanes sharp curves	5,400 ADT LOS C   0.2 V/C	Pre-design	\$52,087,000	Yes
CHAF IP20080227	MTP # 277	Jefferson	Ellingsworth CS-1030H	0.000	0.607	Extend & widen Ellingsworth Lane from KY 913 (Blankenbaker Parkway) to Urton Lane. Project design will evaluate 3 lane road with two-way center turn lane and consider bicycle and pedestrian facilities.	Extend/widen Ellingsworth Lane (add center turn lane)	CHAF notes dense development, proposed link to Urton (IP20120002). Not sponsored in 2018 SHIFT.	7,000	--	--	--	N/A	3,700	--	--	--	--	0.1 mi 0 int	N/A	-18 VHT   +105 VMT	Pre-design	\$4,420,000	Yes

Project ID	Other IDs	County	Route	BMP	EMP	Description of Improvement	Conceptual Project for Modeling & Cost Estimate	Other Notes	Existing Conditions											Improvement Info				
									2018				Delay	2040 No Build			7/15-6/18 Crashes (F/I/PDO)	High CCRF Sites	EEC Seg Int	Substandard Geometry	2040 Build Summary	Project Development Status	Total Remaining Cost Estimate	Bike/Ped
									ADT	% Trucks	LOS	V/C		ADT	LOS	V/C								
CHAF IP20080242	MTP # 258	Jefferson	Blowing Tree CS-1163H	0.000	0.459	Extend & reconstruct Blowing Tree Boulevard from KY 155 (Taylorsville Road) to Bunsen Parkway. Project design will evaluate 3 lane road with two-way center turn lane and consider bicycle and pedestrian facilities.	Extend/widen Blowing Tree Blvd (three lanes)	CHAF notes dense development, outlet for KY 155 and KY 1747 congestion. Ranked 329th regionally in 2018 SHIFT.	1,900	--	--	--	N/A	--	--	--	--	--	--	Narrow lanes	-435 VHT   -4,971 VMT*	Pre-design	\$4,530,000	Yes
CHAF IP20110073	MTP # 265	Jefferson	New	N/A		Improve Safety & Connectivity and Reduce Congestion along Shelbyville Road (US60), Hurstbourne Lane (KY 1747), Interstate I-64 and Taylorsville Road (KY 155) in the vicinity of Oxmoor Farms. Project will consider a Bunsen Boulevard/Christian Way connector as a 5 lane (5th lane will be a center turn lane) divided highway with consideration of bicycle and pedestrian facilities.	Bunsen Blvd/Christian Way Connector (five lanes)	CHAF notes proposed growth (Bullitt Farm), poor connectivity, US 60 & KY 1747 congestion. Ranked 167th regionally in 2018 SHIFT.	--	--	--	--	N/A	--	--	--	--	--	--	N/A	-623 VHT   -8,965 VMT*	Pre-design	\$23,440,000	Yes
CHAF IP20110074	MTP # 260	Jefferson	New	N/A		Improve Safety and Connectivity and Reduce Congestion along Shelbyville Road (US60), Hurstbourne Lane (KY 1747), Interstate I 64 and Taylorsville Road (KY 155) in the vicinity of Oxmoor Farms. Project will consider a Bowling Boulevard/Chrisitian Way connector as a 5 lane (5th lane will be a center turn lane) divided highway with consideration of bicycle and pedestrian facilities.	Bowling Blvd/Christian Way Connector (five lanes)	CHAF notes proposed growth (Bullitt Farm), poor connectivity, US 60 & KY 1747 congestion. Ranked 157th regionally in 2018 SHIFT.	--	--	--	--	N/A	--	--	--	--	--	--	N/A	-1,173 VHT   -367 VMT*	Pre-design	\$23,750,000	Yes
CHAF IP20110079	Item 5-376.00 MTP # 198	Oldham	New	N/A		New Route Between KY 362 (Ash Avenue) in Pewee Valley and KY 22 (Ballardsville Road)/KY 329B (KY 329 Bypass) In Crestwood. Project is Section 2 of the 5-367.00 Crestwood Bypass Parent Project. Section 1, KY 3084 (Old Henry Road) From I-265 (Gene Snyder Freeway) To KY 362 (Ash Avenue), being constructed under 5-367.20. Project design will evaluate 3-lane roadway section with Two-Way Center Turn Lane and will consider accommodations for bicyclists and pedestrians.	Connector (four lanes), Old Henry Rd Interchange to KY 22	CHAF notes proposed connection replacing KY 146. Not sponsored in 2018 SHIFT.	--	--	--	--	N/A	--	--	--	--	--	--	N/A	-4,482 VHT   -6,321 VMT	Pre-design	\$47,330,000	Yes
CHAF IP20120002	MTP # 474	Jefferson	New	N/A		Extend Urton Lane from north of I-64 to Seatonville Road. Includes consideration of facilities for all modes (pedestrian, bicycle, SOV, and transit).	Extend Urton Lane (three lanes), north of I-64 to Seatonville Rd	CHAF notes planned growth, development potential, outlet for I-265. Not sponsored in 2018 SHIFT.	2,400-6,500	--	--	--	N/A	--	--	--	--	--	--	N/A	-1,594 VHT   -2,721 VMT	Pre-design	\$61,500,000	Yes
CHAF IP20160276	Item 5-367.20/.21	Oldham	New	N/A		EXTENSION OF OLD HENRY ROAD EAST TO ASH AVENUE (KY362). (12CCR)(18CCN)	Extend Old Henry Rd to KY 362 Ash Ave	CHAF notes traffic uses residential Village Green Blvd to access Old Henry Rd today. Ranked 129th regionally in 2018 SHIFT.	--	--	--	--	N/A	--	--	--	--	--	--	N/A	-1,393 VHT   -1,364 VMT	Utilities ongoing	\$18,180,000	Yes
CHAF IP20170096	Item 5-80003.00 MTP # 458	Jefferson	New	N/A		EXTEND PLANTSIDE DRIVE FROM REHL ROAD TO TAYLORSVILLE ROAD (18CCN)	Extend Plantside Drive, Rehl Rd to KY 155	\$750k SPP design funds in 2018-24 SYP. Not sponsored in 2018 SHIFT.	--	--	--	--	N/A	--	--	--	--	--	--	N/A	-495 VHT   -1621 VMT	Pre-design	\$23,663,000	No
* Not available within statewide model; results included from KIPDA model are not directly comparable to other build scenarios but included to provide scale of reference.																								







KYTC's bridge data shows 42 bridges along study routes, with conditions rated as Good, Fair, or Poor. There are four Poor condition bridges on study routes: KY 155 at Pope Lick Creek, US 60 at Long Run Creek, KY 362 at Floyds Fork, and KY 1408 at Floyds Fork.

As a second stage of the study, existing traffic information at four select interchanges were assembled to highlight existing congestion and safety needs (**Chapter 6**), enabling District 5 to prioritize improvements at specific locations.

- I-64 at KY 913 (Blankenbaker Parkway) is the highest priority of the four interchanges; widening the westbound off-ramp to two lanes with dual lefts would provide relatively low-cost benefits.
- I-265 at KY 146 (LaGrange Road) is next; the District receives regular complaints about the interchange. Operations are likely to worsen as the Ford plant expands, increasing traffic volumes in the area.
- I-265 at US 60 (Shelbyville Road) is third: the primary capacity issue is the southbound on-ramp. Heavy movements to the south are an issue as motorists are trying to reach I-64.
- I-265 at KY 155 (Taylorsville Road) is the lowest priority as delay/safety trends at the interchange are controlled by the capacity limitations along the two-lane portion of the corridor to the east. Improving the interchange will have minimal effect until KY 155 is widened.



*Representative project area views*