

KENTUCKY

STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM (STIP) For FY 2021-2024

ADMINISTRATIVE MODIFICATION #2021.275

I. Proposed Action:

Modify the KYTC's FY 2021-2024 Statewide Transportation Improvement Program (STIP) to include the Bowling Green-Warren County MPO's Administrative Modification #4 to the FY 2024-2028 Transportation Improvement Program (TIP).

Location:

Bowling Green-Warren County MPO Area

Scope of Activity:

See the attachments for detail information.

II. Additional Remarks:

This modification to the STIP will become part of the 2021 STIP end of Federal Fiscal Year 2024 "fiscal constraint" recalculations.

III. Administrative Modification Approval:

Modification Recommended for Approval:

JILL LAMB for Ron Rigney 3/7/2024

Kentucky Transportation Cabinet Date

Ronald B. Rigney, Director

Division of Program Management

**Bowling Green – Warren County
Metropolitan Planning Organization**

**FY 2024-28 Transportation Improvement Program (TIP)
Modification #04**

ACTION:

The Bowling Green-Warren County Metropolitan Planning Organization (MPO) hereby modifies the FY 2024-2028 Transportation Improvement Program (TIP). This modification the addition of several safety hazard elimination projects using HSIP funds through the Grouped Projects listing.

ITEM #: 3-938.00

DESCRIPTION: Convert intersection at US-68 at KY-101 to a roundabout (MP 22.100 – 22.400 and MP 7.200 – 7.350).

SCOPE OF WORK: Safety-Hazard Elimination (P)

ROUTE: US-68 / KY-101

LENGTH: 0.300 mi / 0.150 mi

PHASE: C

TYPE OF FUND: HSIP

FY: 2024

AMOUNT: \$1,100,000

ITEM #: 3-939.00

DESCRIPTION: Convert intersection at US-68 at KY-242 to an RCUT and study corridor for additional RCUTS (MP 2.800 – 3.600).

SCOPE OF WORK: Safety-Hazard Elimination (P)

ROUTE: US-68

LENGTH: 0.800

PHASE: C

TYPE OF FUND: HSIP

FY: 2024

AMOUNT: \$1,500,000 (90/10 – federal/local)

ITEM #: 3-940.00

DESCRIPTION: Convert intersection at US-231 at I-165 to a Diverging Diamond Interchange (MP 14.500 – 15.200).

SCOPE OF WORK: Safety-Hazard Elimination (P)

ROUTE: US-231

LENGTH: 0.700 mi

PHASE: C

TYPE OF FUND: HSIP

FY: 2024

AMOUNT: \$2,000,000 (90/10 – federal/state)

Other Information: This TIP Modification adds specific funding levels for Highway Safety Improvement projects (HSIP) funds listed in *Table 2 (Summary of Funding)*, adds the projects to *Table 4 (Federally Funded Projects)*, and adds the projects to *Table 9 (Projects Contributing to the Achievement of Highway Performance Targets)* of the FY 2024-2028 TIP. HSIP projects are a project type identified in the Grouped Projects Table of the TIP; therefore, a TIP Amendment is not necessary. A listing of Grouped Projects has been included in the TIP allowing planning process stakeholders and the general public to be informed of the types of potential projects that may be added to the TIP and Metropolitan Transportation Plan (MTP) by Administrative Modification. This modification references *Table 6.4 – Grouped Projects* – in the MTP. TIP actions for these projects will not require additional public review. This action

involves a commitment of funding for the project by the project sponsor (Kentucky Transportation Cabinet). This funding maintains financial constraint of the TIP and MTP documents, and no additional financial constraint analysis by the MPO is needed.

The amended FY2024-2028 TIP tables are included on the following pages.

Approved

A handwritten signature in cursive script that reads "Karissa Lemon". The signature is written in black ink and is positioned above a solid horizontal line.

Karissa Lemon
MPO Coordinator
Bowling Green-Warren County MPO

3/7/2024
Date

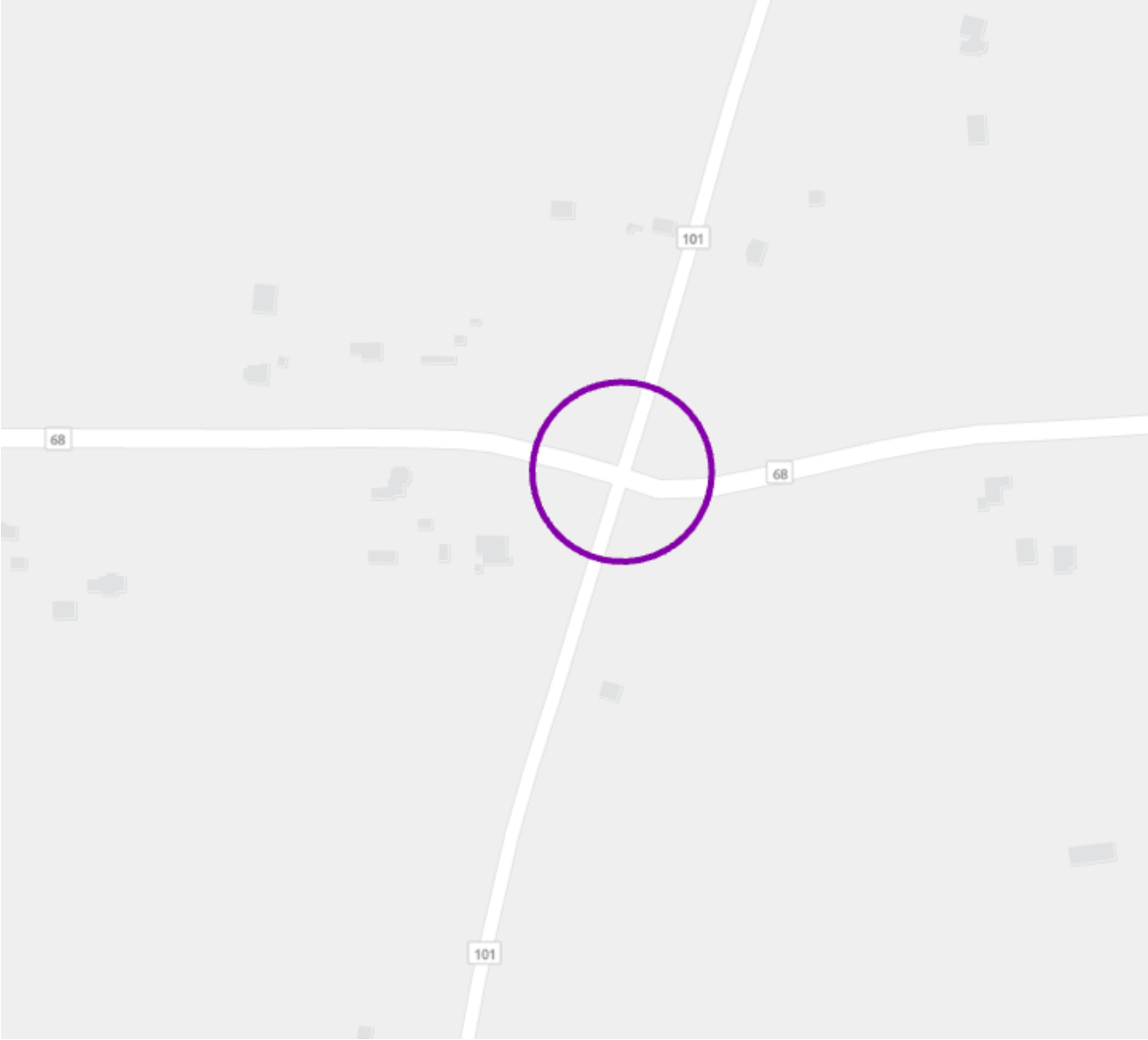
TABLE 2 | SUMMARY OF HIGHWAY FUNDING TYPES

		FUNDING TYPE										
FISCAL YEAR		NH	STP	HSIP	TAP	GR	BRO	BRX	BRZ	CRP	FLAP	TOTAL
2024	Est. Cost	\$ 22,640,000	\$ 15,860,000	\$ 5,866,000	\$ 929,720	\$ 25,000	\$ -	\$ -	\$ -	\$ 196,066	\$ 562,500	\$ 46,079,286
	Revenue	\$ 22,640,000	\$ 15,860,000	\$ 5,866,000	\$ 929,720	\$ 25,000	\$ -	\$ -	\$ -	\$ 196,066	\$ 562,500	\$ 46,079,286
2025	Est. Cost	\$ 33,520,000	\$ 435,000	\$ -	\$ -	\$ -	\$ 4,158,000	\$ 7,425,000	\$ -	\$ 111,732		\$ 45,649,732
	Revenue	\$ 33,520,000	\$ 435,000	\$ -	\$ -	\$ -	\$ 4,158,000	\$ 7,425,000	\$ -	\$ 111,732		\$ 45,649,732
2026	Est. Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 506,000	\$ 1,138,300		\$ 1,644,300
	Revenue	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 506,000	\$ 1,138,300		\$ 1,644,300
2027	Est. Cost	\$ -	\$ 4,665,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		\$ 4,665,000
	Revenue	\$ -	\$ 4,665,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		\$ 4,665,000
2028	Est. Cost	\$ 5,517,600	\$ -	\$ -	\$ -	\$ -	\$ 19,272,000	\$ -	\$ -	\$ -		\$ 24,789,600
	Revenue	\$ 5,517,600	\$ -	\$ -	\$ -	\$ -	\$ 19,272,000	\$ -	\$ -	\$ -		\$ 24,789,600
TOTAL	Est. Cost	\$ 61,677,600	\$ 20,960,000	\$ 5,866,000	\$ 929,720	\$ 25,000	\$ 23,430,000	\$ 7,425,000	\$ 506,000	\$ 1,446,098	\$ 562,500	\$ 122,827,918
	Revenue	\$ 61,677,600	\$ 20,960,000	\$ 5,866,000	\$ 929,720	\$ 25,000	\$ 23,430,000	\$ 7,425,000	\$ 506,000	\$ 1,446,098	\$ 562,500	\$ 122,827,918

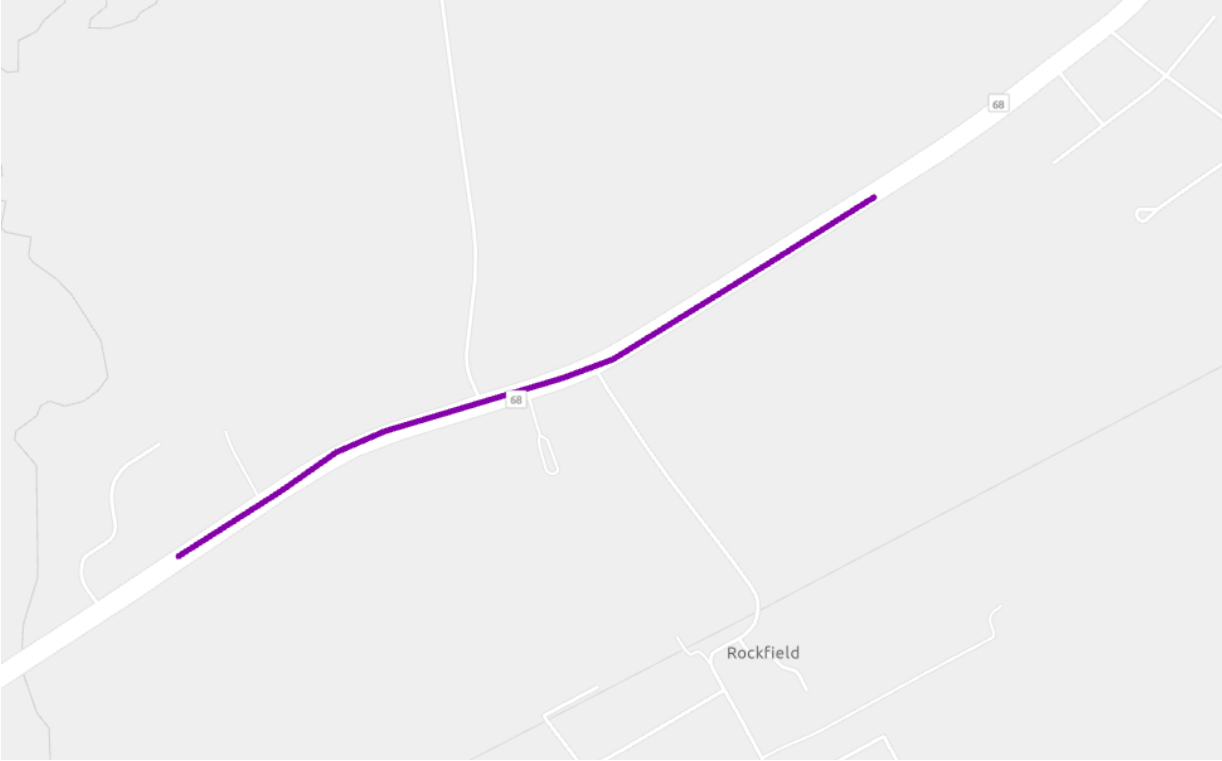
TABLE 4 | FEDERALLY FUNDED TRANSPORTATION PROJECTS

KYTC ID	ROUTE	LENGTH	PROJECT DESCRIPTION	FUND TYPE	YEAR	PHASE	TOTAL PHASE COST (\$)
3-110.3	KY-185	1.81	Improve KY-185 from 0.24 miles south of Pruitt Rd to 0.16 miles south of KY 1320. MP 6.540 to 8.350	STP	2024	C	8,500,000
3-110.4	KY-185	1.54	Improve KY-185 from 0.32 miles south of Austin Raymer Road to 0.08 miles south of the bridge over Ivy Creek.	STP	2025	U	435,000
	STP			2027	C	4,665,000	
3-166.00	US-68	0.45	Construct left and right turn lanes from US 68/KY 80 onto Fred Madison Road at approximately the 17.1 milepoint.	STP	2024	C	1,600,000
3-933.00	US-31W	0.38	Installation of an Intersection Conflict Warning System and minor access management improvements at the intersection of US 31W (Nashville Rd) and KY 240 (Woodburn Allen Springs Rd / Petros Rd).	HSIP	2024	C	140,000
3-934.00	US-68	4.52	Replacement of targeted Guardrail End Treatments on various routes in District 3.	HSIP	2024	C	222,000
3-938.00	US-68 / KY-101	0.30	Convert intersection at US-68 at KY-101 to a roundabout (MP 22.100 – 22.400 and MP 7.200 – 7.350).	HSIP	2024	C	1,100,000
3-939.00	US-68	0.80	Convert intersection at US-68 at KY-242 to an RCUT and study corridor for additional RCUTS (MP 2.800 – 3.600).	HSIP	2024	C	1,500,000
3-940.00	US-231	0.70	Convert intersection at US-231 at I-165 to a Diverging Diamond Interchange (MP 14.500 – 15.200).	HSIP	2024	C	2,000,000
3-3026.00	US-31W	-	Installation of pedestrian islands at intersections on Riverview Drive at College Street and Center Street.	TAP	2024	D	7,570
				TAP	2024	C	80,747
3-3206.00	GW	2.38	Construct 10' bike/ped trail from Roland Bland Park to Hobson Grove Park to close the gap between Downtown Bowling Green and the West End in Bowling Green.	TAP	2024	C	841,403
3-4307.0	KY-234	0.11	Install guardrail on KY-234 (Cemetery Rd).	GR	2024	C	25,000
03-8707	I-165	0.60	Construct a new interchange on I-165 (Natcher Parkway) at Elrod Road in Bowling Green. MP 3.4 - MP 4.0	NH	2024	D	980,000
				NH	2024	R	9,700,000
				NH	2024	U	8,960,000
				NH	2025	C	30,520,000
3-8905.00	US-31W	1.59	Major widening to improve mobility and reduce congestion on US-31W from US-68 to Mizpah Road. MP 20.904 to 22.490	STP	2024	C	5,760,000
3-9024.00	KY-185	1.8	Perform low-cost safety improvements on KY-185 from MP 8.250 to MP 10.050 in Warren County.	HSIP	2024	U	10,000
					2024	C	894,000
3-10049.00	KY-185	0.11	Bridge project in Warren County on KY-185 at Barren River.	BRX	2025	D	675,000
					2025	C	6,750,000
					2025	D	378,000
3-10051.00	KY-880/ US-68	0.04	Bridge project in Warren County on KY-880/US-68 at Jennings Creek.	BRO	2025	C	3,780,000
					2028	D	1,752,000
3-10052.00	I-65	0.12	Bridge project in Warren County on I-65 at Barren River.	BRO	2028	C	17,520,000
					2026	D	46,000
3-10053.00	CR-1388	0.01	Bridge project in Warren County on Greencastle Road at Taylor Branch.	BRZ	2026	C	460,000
					2028	D	501,600
3-22132.00	I-165	6.60	Address condition of I-165 from milepoint 0.521 to milepoint 7.121.	NHP	2028	C	5,016,000
					2024	R	2,000,000
3-80203.00	US-31W	0.75	Improve mobility and reduce congestion on US-31W (Louisville Road) from Mizpah Road to Freeport Road.	NH	2024	U	1,000,000
					2025	C	3,000,000
					2024	D	196,066
N/A	US-231	0.22	Construct shared use path on US-231 (Scottsville Road) from KY-884 (Three Springs Road) to US-231X (Campbell Ln).	CRP	2025	R	111,732
					2026	C	1,138,300
					2024	P	562,500
KY FLAP 19	N/A	-	Planning study for Bowling Green-Mammoth Cave National Park Shared Use Path	FLAP	2024	P	562,500
TOTAL FUNDING FOR ALL TIP PROJECTS							122,827,918

Federally Funded Transportation Projects								
KYTC ID	Route	Length	Project Description					
3-938.00	US-68 / KY-101	0.3	Convert intersection at US-68 at KY-101 to a roundabout (MP 22.100 – 22.400 and MP 7.200 – 7.350).					
Fund Type	Phase	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Future	Total Funding
HSIP	C	\$ 1,100,000						\$ 1,100,000
TOTAL								\$ 1,100,000



Federally Funded Transportation Projects								
KYTC ID	Route	Length	Project Description					
3-939.00	US-68	0.8	Convert intersection at US-68 at KY-242 to an RCUT and study corridor for additional RCUTS (MP 2.800–3.600).					
Fund Type	Phase	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Future	Total Funding
HSIP	C	\$ 1,500,000						\$ 1,500,000
TOTAL								\$ 1,500,000



Federally Funded Transportation Projects								
KYTC ID	Route	Length	Project Description					
3-940.00	US-231	0.7	Convert intersection at US-231 at I-165 to a Diverging Diamond Interchange (MP 14.500–15.200).					
Fund Type	Phase	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Future	Total Funding
HSIP	C	\$ 2,000,000						\$ 2,000,000
TOTAL								\$ 2,000,000

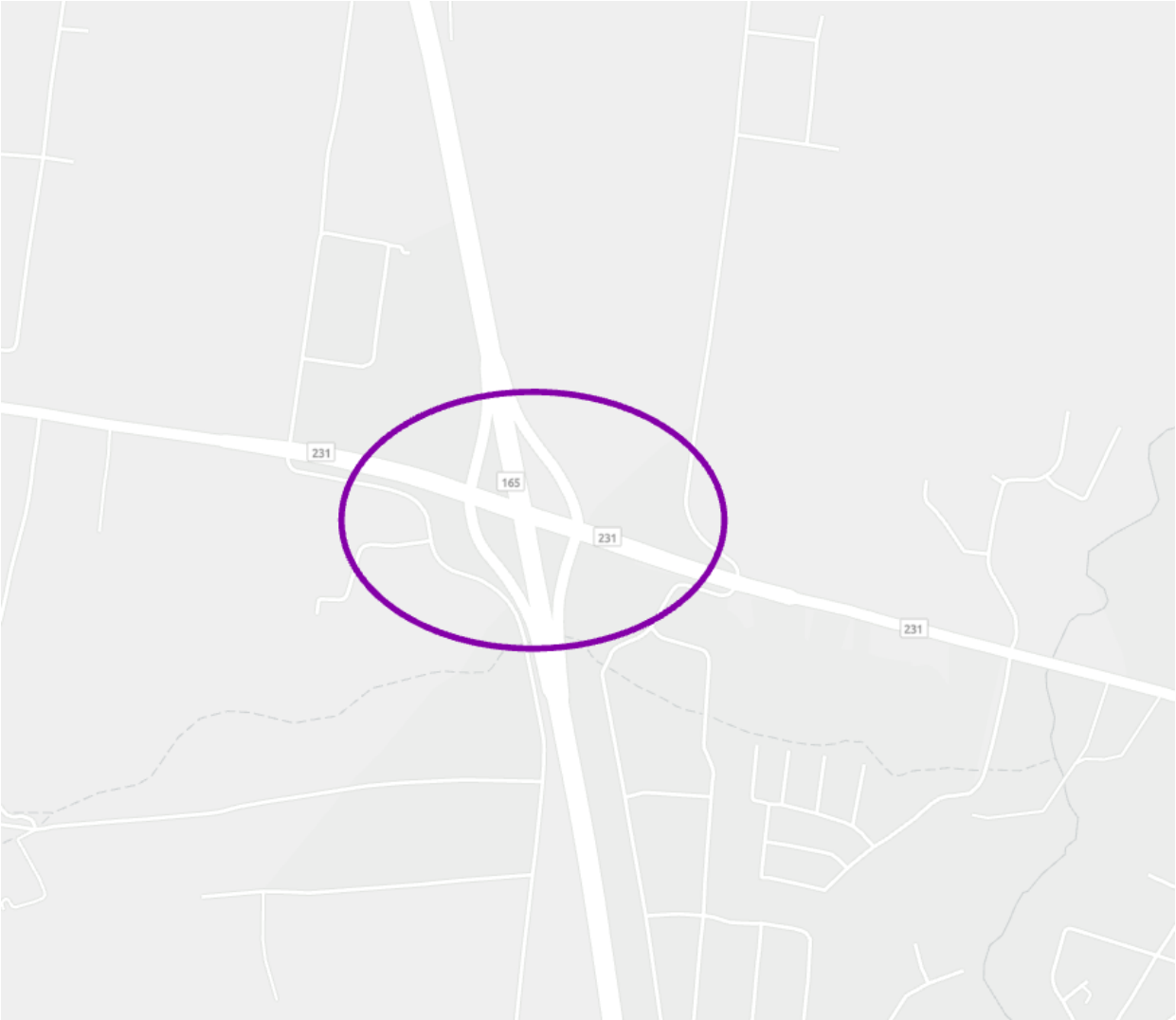


TABLE 9 | PROJECTS CONTRIBUTING TO THE ACHIEVEMENT OF HIGHWAY PERFORMANCE TARGETS

KYTC ID	ROUTE	PROJECT DESCRIPTION	TOTAL PHASE COST (\$)	Performance Measure
3-110.3	KY-185	Improve KY-185 from 0.24 miles south of Pruitt Rd to 0.16 miles south of KY 1320. MP 6,540 to 8.350	8,500,000	Safety
3-110.4	KY-185	Improve KY-185 from 0.32 miles south of Austin Raymer Road to 0.08 miles south of the bridge over Ivy Creek.	5,100,000	Safety
3-166.00	US-68	Construct left and right turn lanes from US 68/KY 80 onto Fred Madison Road at approximately the 17.1 milepoint.	1,600,000	Safety
3-933.00	US-31W	Installation of an Intersection Conflict Warning System and minor access management improvements at the intersection of US 31W (Nashville Rd) and KY 240 (Woodburn Allen Springs Rd / Petros Rd).	140,000	Safety
3-934.00	US-68	Replacement of targeted Guardrail End Treatments on various routes in District 3.	222,000	Safety
3-938.00	US-68 / KY-101	Convert intersection at US-68 at KY-101 to a roundabout (MP 22.100 – 22.400 and MP 7.200 – 7.350).	1,100,000	Safety
3-939.00	US-68	Convert intersection at US-68 at KY-242 to an RCUT and study corridor for additional RCUTS (MP 2.800 – 3.600).	1,500,000	Safety
3-940.00	US-231	Convert intersection at US-231 at I-165 to a Diverging Diamond Interchange (MP 14.500 – 15.200).	2,000,000	Safety
3-3026.00	US-31W	Installation of pedestrian islands at intersections on Riverview Drive at College Street and Center Street.	88,317	Safety
3-3206.00	GW	Construct 10' bike/ped trail from Roland Bland Park to Hobson Grove Park to close the gap between Downtown Bowling Green and the West End in Bowling Green.	841,403	Safety
3-4307.0	KY-234	Install guardrail on KY-234 (Cemetery Rd).	25,000	Safety
03-8707	I-165	Construct a new interchange on I-165 (Natcher Parkway) at Elrod Road in Bowling Green. MP 3.4 - MP 4.0	50,160,000	System Reliability
3-8905.00	US-31W	Major widening to improve mobility and reduce congestion on US-31W from US-68 to Mizpah Road. MP 20.904 to 22.490	5,760,000	System Reliability
3-9024.00	KY-185	Perform low-cost safety improvements on KY-185 from MP 8.250 to MP 10.050 in Warren County.	904,000	Safety
3-10049.00	KY-185	Bridge project in Warren County on KY-185 at Barren River.	7,425,000	Asset Management - Bridge Condition
3-10051.00	KY-880/ US-68	Bridge project in Warren County on KY-880/US-68 at Jennings Creek.	4,158,000	Asset Management - Bridge Condition
3-10052.00	I-65	Bridge project in Warren County on I-65 at Barren River.	19,272,000	Asset Management - Bridge Condition
3-10053.00	CR-1388	Bridge project in Warren County on Greencastle Road at Taylor Branch.	506,000	Asset Management - Bridge Condition
3-22132.00	I-165	Address condition of I-165 from milepoint 0.521 to milepoint 7.121.	5,517,600	Asset Management - Pavement Condition
3-80203.00	US-31W	Improve mobility and reduce congestion on US-31W (Louisville Road) from Mizpah Road to Freeport Road.	6,000,000	Safety
N/A	US-231	Construct shared use path on US-231 (Scottsville Road) from KY-884 (Three Springs Road) to US-231X (Campbell Ln).	1,446,098	Safety / Greenhouse Gas Emissions
TOTAL TIP FUNDING			122,265,418	
Total Safety			29,466,818	
Total Pavement Condition			5,517,600	
Total System Reliability			55,920,000	
Total Bridge Condition			31,361,000	
Total Greenhouse Gas Emissions Reduction			1,446,098	