

July 2021



I. PRELIMINARY PROJECT INFORMATION

County:	<u>Larue</u>	Item No.:	<u>4-80154</u>
Route Number(s):*	<u>KY210</u>	Road Name:	<u>Campbellsville Rd/Hodgenville Rd</u>
Program No.:	<u>13559</u>	UPN:	<u>FD04</u> <u>Varies</u> <u>210</u> <u>Varies</u>
Federal Project No.:	<u>STP 9031023</u>	Type of Work:	<u>Safety</u>

2020 Highway Plan Project Description:

Address safety by improving existing alignment in spots and add passing lanes along KY210 from Campbellsville to Hodgenville. Taylor MP0-14.148, Green MP0-0.750, Larue MP6.994-16.613

Beginning MP:	<u>see above</u>	Ending MP:	<u>see above</u>	Project Length:	<u>24.52</u>
In TIP:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Use PDP/CHAF to Verify Project Data			
State Class.:	<input checked="" type="checkbox"/> Primary <input type="checkbox"/> Secondary	Route is on:	<input type="checkbox"/> NHS <input checked="" type="checkbox"/> NN <input type="checkbox"/> Ext Wt		
Functional Class.:	<input type="checkbox"/> Urban <input type="checkbox"/> Rural <u>Arterial</u>	Truck Class.:	<u>AAA</u>	% Trucks:	<u>15.178</u>
MPO Area:	<u>Not Applicable</u>	Terrain:	<u>Rolling</u>		
ADT (current):	<u>4012-6163</u> (Year) 2018-2020				
Access Control:	<input type="checkbox"/> None <input checked="" type="checkbox"/> Permit <input type="checkbox"/> Fully Controlled <input type="checkbox"/> Partial	Spacing:	<u></u>		
Median Type:	<input checked="" type="checkbox"/> Undivided <input type="checkbox"/> Divided (Type): <u></u>				
Existing Bike Accommodations:	<u>Shared Lane</u>	Ped:	<input type="checkbox"/> Sidewalk		
Posted Speed:	<input type="checkbox"/> 35 mph <input type="checkbox"/> 45 mph <input checked="" type="checkbox"/> 55 mph <input type="checkbox"/> Other (Specify): <u></u>				
KYTC Guidelines Preliminarily Based on :		50 MPH Proposed Design Speed			

COMMON GEOMETRIC

Roadway Data:	EXISTING	PRACTICES**	
No. of Lanes	<u>2</u>	<u>3</u>	Existing Rdwy. Plans available?
Lane Width	<u>10'-12'</u>	<u>12'</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Shoulder Width	<u>6'-10'</u>	<u>8' Usable</u>	Year of Plans: <u>2001</u>
Max. Superelevation***	<u>5.79%</u>	<u>8%</u>	<input checked="" type="checkbox"/> Traffic Forecast Requested
Minimum Radius***	<u>1312'</u>	<u>758'</u>	Date Requested: <u>6/7/2021</u>
Maximum Grade	<u>4.85%</u>	<u>5%</u>	<input type="checkbox"/> Mapping/Survey Requested
Minimum Sight Dist.	<u>520'</u>	<u>425'</u>	Date Requested: <u></u>
Sidewalk Width(urban)	<u>N/A</u>	<u>N/A</u>	Type: <u></u>
Clear-zone [†]	<u>30'</u>	<u>30'</u>	
Project Notes/Design Exceptions?			

Bridge No.:	<u>109B00057N</u>	<u>109B00054N</u>	
Sufficiency Rating	<u>88.5</u>	<u>65.9</u>	
Total Length	<u>118.1'</u>	<u>186'</u>	Existing Geotech Data Available?
Width, curb to curb	<u>47.2'</u>	<u>27.9'</u>	<input type="checkbox"/> Yes <input type="checkbox"/> No
Span Lengths	<u>115.2'</u>	<u>50'-80'-50'</u>	
Year Built	<u>2000</u>	<u>1987</u>	
Posted Weight Limit	<u>Open, no restriction</u>	<u>Open, no restriction</u>	Detour Length(s): <u>~33 mi</u>
Structurally Deficient?	<u>No</u>	<u>No</u>	
Functionally Obsolete?	<u>No</u>	<u>No</u>	
Existing Bridge Type	<u>PSC I-beams</u>	<u>Simple PCIB</u>	

*If more than one road is included in the project, include additional sheets.

**Based on proposed Design Speed

***AASHTO's A Policy on Geometric Design of Highways and Streets

+AASHTO's Roadside Design Guide

†If more than two bridges are located on the project, include additional sheets.

Bridge No.: [‡]	<u>109B00055N</u>	<u>109B00053N</u>		
Sufficiency Rating	<u>83.4</u>	<u>74.7</u>		
Total Length	<u>74'</u>	<u>212.9'</u>	Existing Geotech Data Available?	
Width, curb to curb	<u>32.6</u>	<u>27.9'</u>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Span Lengths	<u>15.5'-15.5'</u>	<u>75'-75'-60'</u>		
Year Built	<u>1987</u>	<u>1987</u>		
Posted Weight Limit	<u>Open, no restriction</u>	<u>Open, no restriction</u>	Detour Length(s): <u>33 mi; 14 mi</u>	
Structurally Deficient?	<u>No</u>	<u>No</u>		
Functionally Obsolete?	<u>No</u>	<u>No</u>		
Existing Bridge Type	<u>2-span Conc. Culvert</u>	<u>PCIB simple spans</u>		
<p>*If more than one road is included in the project, include additional sheets. **Based on proposed Design Speed ***AASHTO's A Policy on Geometric Design of Highways and Streets +AASHTO's Roadside Design Guide ‡If more than two bridges are located on the project, include additional sheets.</p>				
II. PROJECT PURPOSE AND NEED				
A. Legislation				
This project has the support of local officials and legislators. It was added to the 2020 Enacted Highway Plan with SPP Design Funds in FY 2022 and FED funds for remaining phases.	<i>Funding</i>	<i>Phase</i>	<i>Year</i>	<i>Amount</i>
	FED	D	2022	\$2,000,000
	FED	R	2023	\$500,000
	FED	U	2023	\$2,500,000
	FED	C	2025	\$32,000,000
B. Project Status				
Currently, Design funds were authorized on 7/2/2021 by TC-10-1 Project Authorization 13559-0. This authorization is to begin Preliminary Engineering and Environmental Activities. This project is currently going through the 2022 SHIFT process to be included in the Governor's Recommended Plan for 2022				
C. System Linkage				
KY210 is part of the Kentucky State Primary System and its Federal Functional Classification is a Minor Arterial. This is a significant corridor connecting Campbellsville to Hodgenville, and is ultimately a link to Interstate 65, which is approximately 11 miles from Hodgenville. The route includes 9 intersections with other state routes.				
D. Modal Interrelationships				
Along this section of KY210, there is little intermodal interaction. There is no active railways, city bus service, or water ports.				

E. Social Demands & Economic Development

Campbellsville is designated a Work Ready Community and is home to a thriving industrial and commercial industry, including an Amazon Fulfillment Center. This improved connection would provide better access to I65.

II. PROJECT PURPOSE AND NEED (cont.)**F. Transportation Demand**

The 2020 traffic count between KY1618 and KY470 is 4860 ADT (a 1.5% decrease from 2017) with 15.178% trucks. The 2018 traffic count near the intersection of KY1192 is 4356 ADT (a 1.2% increase from 2015). The 2019 traffic count just west of KY462 is 4071 ADT (a 4.7% increase from 2016) with 14.415% trucks. The 2020 traffic count just west of KY569 is 4012 ADT (a 15.08% decrease from 2017). The 2018 count just west of KY744 is 5435 ADT (a 10.26% increase from 2015). The 2019 count just west of KY883 is 6163 ADT (a 7.4% increase from 2016).

G. Capacity

While there are no capacity issues along this corridor with the most current traffic counts showing between 4012 and 6163 vehicles per day, there is still a considerable amount of congestion due to limited passing opportunities. With increasing ADT and truck percentages as high as 15%, there is a need to widen the road and provide passing opportunities in order to decrease congestion, reduce travel time, and improve safety.

H. Safety

There were 234 collisions reported in the project area during the 4 year period of 1/1/2016 through 12/31/2020. Of these 234 collisions, 45 resulted in injuries and there were 12 fatalities. 63% of the collisions were single vehicle. 10% were angle collisions. 6% were head-on collisions. 12% were rear-end collisions. 9% were sideswipe collisions. See Tables and Exhibits for additional collision data.

I. Roadway Deficiencies

This corridor currently has 2-lanes with no truck climbing lanes and limited opportunities to pass. There are 9 intersections with state routes, none of which have left-turn lanes. There are dozens of intersections with county roads, none of which have left-turn lanes. There are some sight distance issues related to horizontal curves.

III. PRELIMINARY ENVIRONMENTAL OVERVIEW	
A. Air Quality Project is in: <input checked="" type="checkbox"/> Attainment area <input type="checkbox"/> Nonattainment or Maintenance Area <input type="checkbox"/> PM 2.5 County STIP Pg.#: _____ TIP Pg.#: _____ Project must be added to STIP; no TIP because it is not in an MPO	
B. Archeology/Historic Resources <input checked="" type="checkbox"/> Known Archeological or Historic Resources are present Phase 1 archaeological surveys were completed for 4-121 (KY 1618 to just east of Morning Star Rd in Larue County) and 4-267 (just east of Corinth Rd to just west of Harding Rd in Taylor County) which were both FONSI. ROW areas are cleared of significant sites. Areas outside ROW may need new survey due to changing standards. NR Listed Historic resources are located outside the existing ROW, numerous homes meet the 50 yr old criteria.	
C. Threatened and Endangered Species There are three listed bat species (Gray, Indiana and Northern Long-Eared) and seven listed mussel species within the project corridor. There is a high likelihood of encountering summer roosting and foraging habitat in this work for bat species. A portal survey will be required for winter habitat. The KY 210 corridor crosses sufficiently sized perennial streams which will require a formal Habitat Assessment to determine presence of mussel habitat.	
D. Hazardous Materials <input checked="" type="checkbox"/> Potentially Contaminated Sites are present <input type="checkbox"/> Potential Bridge or Structure Demolition There are existing and former gas stations along the KY 210 corridor a Phase I ESA should be conducted to determine locations and status of known UST sites as well as identify potential sites which might need additional work.	
E. Permitting Check all that may apply: <input type="checkbox"/> Waters of the US <input type="checkbox"/> MS4 area <input checked="" type="checkbox"/> Floodplain Impacts <input checked="" type="checkbox"/> Navigable Waters of the US Impacts Are 401/404 Permits likely to be required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Impacts to: <input checked="" type="checkbox"/> Wetlands <input type="checkbox"/> Stream/Lake/Pond <input type="checkbox"/> ACE LON <input checked="" type="checkbox"/> ACE NW <input checked="" type="checkbox"/> ACE IP <input type="checkbox"/> DOW IWQC <input checked="" type="checkbox"/> Special Use Waters KY 210 crosses multiple perennial streams with mapped floodplains. West Fork Otter Creek in Larue Co is an OSRW in the Salt River Basin	
F. Noise Are existing or planned noise sensitive receptors adjacent to the proposed project? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is this considered a "Type I Project" according to KYTC Noise Analysis and Abatement Policy? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No This project may add additional driving lanes and will require noise analysis.	
G. Socioeconomic Check all that may apply: <input type="checkbox"/> Low Income/Minority Populations <input type="checkbox"/> Relocations <input type="checkbox"/> Local Land Use Plan available Socioeconomic data are limited at this stage of the project. It is not expected to have a significant impact on the project scope or development.	
H. Section 4(f) or 6(f) Resources The following are present on the project: <input checked="" type="checkbox"/> Section 4(f) Resources <input checked="" type="checkbox"/> Section 6(f) Resources There is at least 1 NR listed property adjacent to KY 210, additionally there are park resources near Campbellsville. <u>Anticipated Environmental Document:</u> CE Level 3 ▼	

IV. PROJECT NEED, PURPOSE & SCOPE**A. Need:**

This section of KY210 is functionally classified as a Rural Minor Arterial connecting Campbellsville and Hodgenville. There is a high truck percentage and limited passing opportunities, which results in reduced travel time and has contributed to a significant number of collisions. There were 235 collisions reported in the project area during the 4 year period of 1/1/2016 through 12/31/2020. Of these 234 collisions, 45 resulted in injuries and there were 12 fatalities.

B. Purpose:

The purpose of this project is to explore and provide feasible solutions to decrease congestion, reduce travel time, and improve safety along KY210 from KY883 in Campbellsville to KY1618 in Hodgenville.

C. Scope:

KY210 provides connection between Campbellsville and Hodgenville, and is ultimately part of a connection to I65 as well as the Heartland Parkway. To make necessary improvements to KY210 from Campbellsville to Hodgenville, including widening to increase capacity and tie-in to upgraded sections just east of Hodgenville and just west of Campbellsville. These improvements will address capacity and increase passing opportunities, along with upgrading intersections of both state and county roads. Improvements may also include improvement of sight lines in curves.

V. PROJECT ESTIMATE & METHODOLOGY

Estimate Methodology:	Current Estimate	
Same as the 2020 Highway Estimate	<u>Phase</u>	<u>Estimate</u>
	Planning	
	Design	\$2,000,000
	R/W	\$500,000
	Utilities	\$2,500,000
	Const	\$32,000,000
	Total	\$37,000,000

VI. UTILITIES POTENTIALLY AFFECTED - CONTACT INFORMATION

Company Name -	LG&E Gas
Contact -	Caroline Justice
Address -	820 West Broadway, Louisville, KY 40202
Phone No. -	502-627-3708
Company Name -	Atmos Energy Gas
Contact -	Silas Bohlen
Address -	3275 Highland Pointe Drive, Owensboro, KY 42303
Phone No. -	270-685-8020
Company Name -	South Central Rural Telephone Company
Contact -	Daniel Glass
Address -	1399 Happy Valley Rd. PO Box 159, Glasgow, KY 42142
Phone No. -	270-678-8473
Company Name -	Comcast
Contact -	Steve Gaddie
Address -	2919 Ring Road, Elizabethtown, KY 42701
Phone No. -	270-401-1543
Company Name -	Nolin RECC
Contact -	Jeremy Jones
Address -	411 Ring Road, Elizabethtown, KY 42701
Phone No. -	270-765-6153
Company Name -	Taylor RECC
Contact -	Mike Skaggs
Address -	625 West Main St., PO Box 100, Campbellsville, KY 42719
Phone No. -	270-465-4101

VI. UTILITIES POTENTIALLY AFFECTED - CONTACT INFORMATION (cont.)

Company Name - Green Taylor Water
 Contact - Andrew Tucker
 Address - 250 Industrial Park Rd., Greensburg, KY 42743
 Phone No. - 270-308-5268

Company Name - Campbellsville Water/Sewer
 Contact - Josh Pedigo
 Address - 110 S. Columbia Ave., Suite B, Campbellsville, KY 42718
 Phone No. - 270-789-3133

Company Name - Hodgenville Water/Sewer
 Contact - Ed Lane
 Address - 200 S. Lincoln Blvd., Hodgenville, KY 42748
 Phone No. - 270-268-9064

Company Name - Windstream
 Contact - Steve Johnson
 Address - 130 W New Circle Rd., Lexington, KY 40515
 Phone No. - 859-357-6209

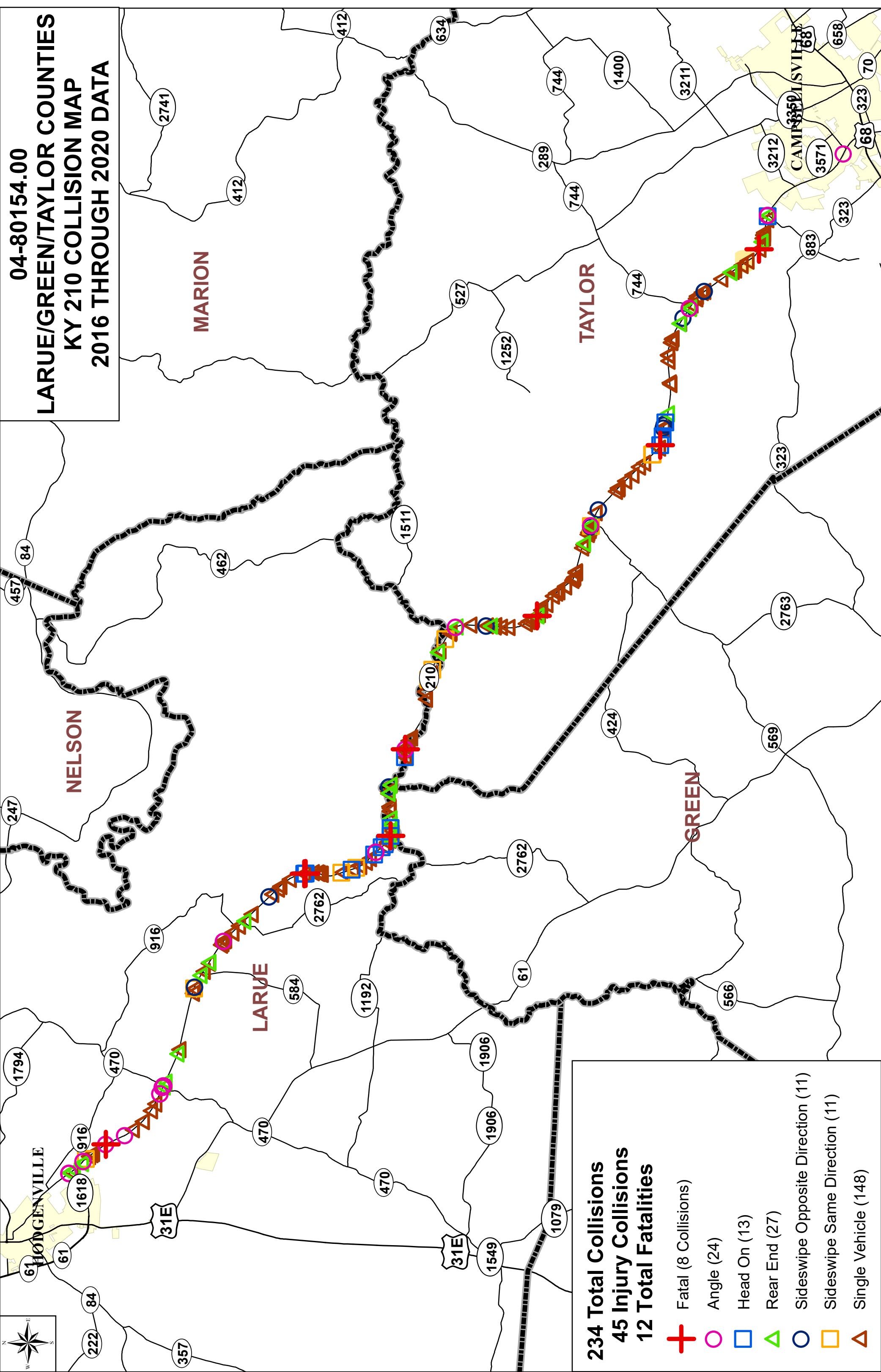
VII. TABLES AND EXHIBITS

LATEST TRAFFIC COUNTS IN PROJECT AREA					
COUNTY	STATION ID	ADT	YEAR	FROM	TO
LARUE	62294	4860	2020	KY 1618	KY 584
LARUE/GREEN	44752	4356	2018	KY 584	TAYLOR COUNTY LINE
TAYLOR	109782	4071	2019	GREEN Co LINE	KY 462
TAYLOR	109812	4012	2020	KY 462	KY 569
TAYLOR	109811	5435	2018	KY 569	KY 744
TAYLOR	109763	6163	2019	KY 744	KY 3212



04-80154.00

LARUE/GREEN/TAYLOR COUNTIES
KY 210 COLLISION MAP
2016 THROUGH 2020 DATA



234 Total Collisions
45 Injury Collisions
12 Total Fatalities

- Fatal (8 Collisions)
- Angle (24)
- Head On (13)
- Rear End (27)
- Sideswipe Opposite Direction (11)
- Sideswipe Same Direction (11)
- Single Vehicle (148)

