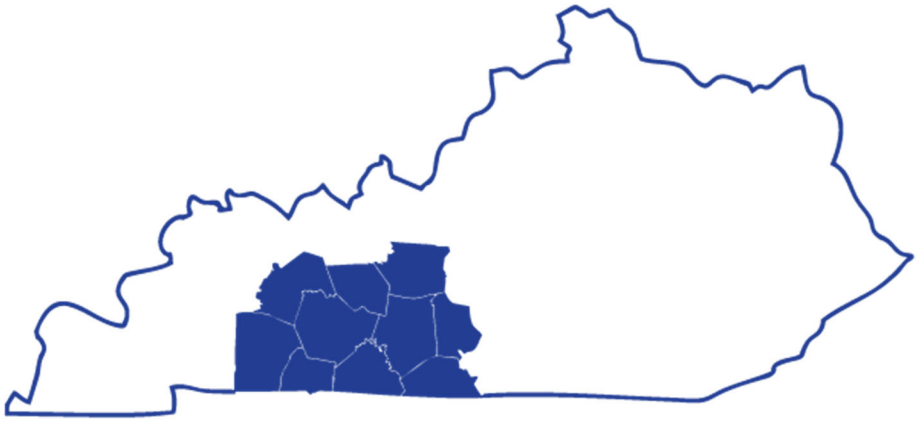
SAFETY ACTION PLAN

BARREN RIVER



AREA DEVELOPMENT DISTRICT



College of Engineering
Kentucky Transportation Center

TECHNOLOGY TRANSFER PROGRAM

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INTRODUCTION

This Safety Action Plan, funded by the USDOT Safe Streets and Roads for All (SS4A) discretionary grant program and the Kentucky Transportation Cabinet (KYTC) Division of Program Management, summarizes the background, methodology and recommendations of crash analyses conducted for the development of a Safety Action Plan for the Barren River Area Development District(BRADD), which includes Allen, Barren, Butler, Edmonson, Hart, Logan, Metcalfe, Monroe, Simpson, and Warren counties in Kentucky. This study evaluated crash data on county roads from 2020-2024 to determine overrepresented crash types and identify high crash areas on the roadway network.

Recommendations for safety-related improvements to the local transportation network focus on low-cost systemic improvements that may be completed by county forces one road at a time, or through larger capital projects to implement county-wide or regional improvements.

This report provides a region wide analysis of crash patterns within BRADD and an overview of data sources and methodologies used in identifying high crash roadways, public involvement input, and an overview of crash countermeasures recommended within the region. The Appendices to this report, evaluate each individual county within BRADD and present crash analysis, Road Safety Assessments (RSAs) summaries and recommended improvements for all reviewed roadways within the region.

OVERVIEW OF SS4A PROGRAM

The Bipartisan Infrastructure Law (BIL) established the Safe Streets and Roads for All (SS4A) discretionary program with $5 billion in appropriated funds over 5 years between 2022-2026. The SS4A program funds regional, local, and Tribal initiatives through grants to prevent roadway deaths and serious injuries in support of the U.S. Department of Transportation's (USDOT) National Roadway Safety Strategy goal of zero roadway deaths using a Safe System Approach. BRADD was awarded an Action Plan Grant in FY 22 to develop a Safety Action Plan for its 8 county region.

A Safety Action Plan is a strategic document aimed at identifying and addressing safety issues related to transportation infrastructure. Based on SS4A criteria a Safety Action Plan must include items 1, 2 and 3 below and at least four of items 4 through 9.

1. **Safety Analysis.** Collecting and analyzing crash data to pinpoint high-risk areas and crash types.
2. **Strategy and Process Selections.** Developing specific interventions, such as roadway improvements, policy changes, and educational initiatives, to enhance safety.

3. **Action Plan Date.** Be completed using data compiled during the last 5 years.
4. ***Leadership Commitment and Goals Setting.*** *An official commitment by the governing body to an eventual goal of zero roadway fatalities and serious injuries.*
5. ***Planning Structure.*** *A task force charged with oversight of the Action Plan development, implementation, and monitoring.*
6. ***Engagement and Collaboration.*** *Involving local stakeholders, including residents, advocacy groups, and underserved communities to gather insights and prioritize concerns.*
7. ***Equity Considerations.*** *Underserved communities are identified through data and other analyses in collaboration with appropriate partners including both population characteristics and impact assessments of the proposed projects and strategies on equity.*
8. ***Policy and Process Changes.*** *Assessment of current policies, plans, guidelines, and/or standards to identify opportunities to improve how processes prioritize transportation safety.*
9. ***Implementation and Evaluation Metrics.*** *Setting up methods to implement and assess the effectiveness of the actions taken.*

The goal of the Safety Action Plan is to create safer streets and reduce fatalities and serious injuries for all road users, including pedestrians, cyclists, and motorists by providing a strategic plan that an agency can follow towards reaching the goal of zero deaths and serious injuries.

SAP TASK FORCE

This Safety Action Plan is cooperative effort between the Barren River Area Development District, ADD member counties, the Kentucky Transportation Cabinet and the Technology Transfer Program at the University of Kentucky, Kentucky Transportation Center. Direction, focus and review of plan documents and efforts has been provided by the standing BRADD Regional Transportation Committee (RTC). The RTC plays a critical role in developing the Regional Transportation Program for the BRADD area. As new projects are developed and existing ones evaluated and prioritized using criteria of regional significance. The Regional Transportation Committee is composed of interested stakeholders in the region who meet quarterly at the Barren River ADD office. In addition to its prioritization and evaluation duties, the Committee is a forum to work together in solving regional transportation problems, act as an advocacy body on transportation issues, provide input for the Statewide Transportation Plan, Six Year Road Plan and Unscheduled Needs List, as well as provide assistance to the ADD in its Annual Work Program. Direction provided by the RTC will allow the projects identified within the Safety Action Plan to be directly integrated into the regional transportation planning process.

STUDY AREA

This Safety Action Plan covers the Barren River ADD region which includes Campbell, Knott, Lee, Leslie, Letcher, Owsley, Perry, and Wolfe counties. The plan focused on county roadways to provide direction and resources to county road departments to address local road crashes. Exhibit 1 shows the study area.

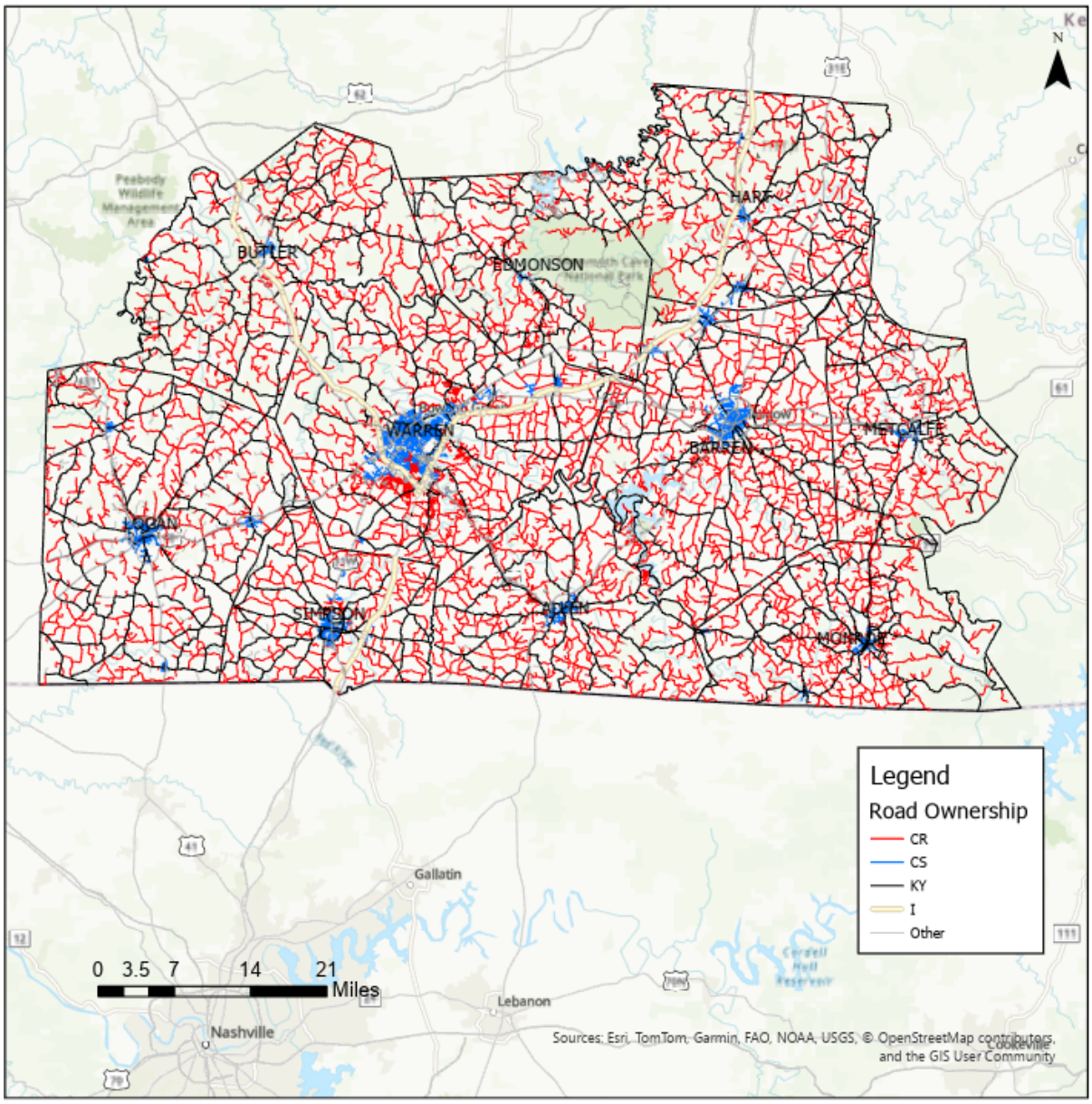


Exhibit 1: Study Area

CRASH ANALYSIS

A crash analysis was conducted to identify common crash types and identify priority locations within the city limits. Crash data for the study area was obtained from the Kentucky State Police Crash database available at crashinformationky.gov. Data was obtained for the five-year period of January 1, 2020 to December 31, 2024. During this period 3,487 crashes were recorded, resulting in 32 fatalities and 593 injuries. Exhibit 2 shows all crashes recorded in the study area during the 5-year period.

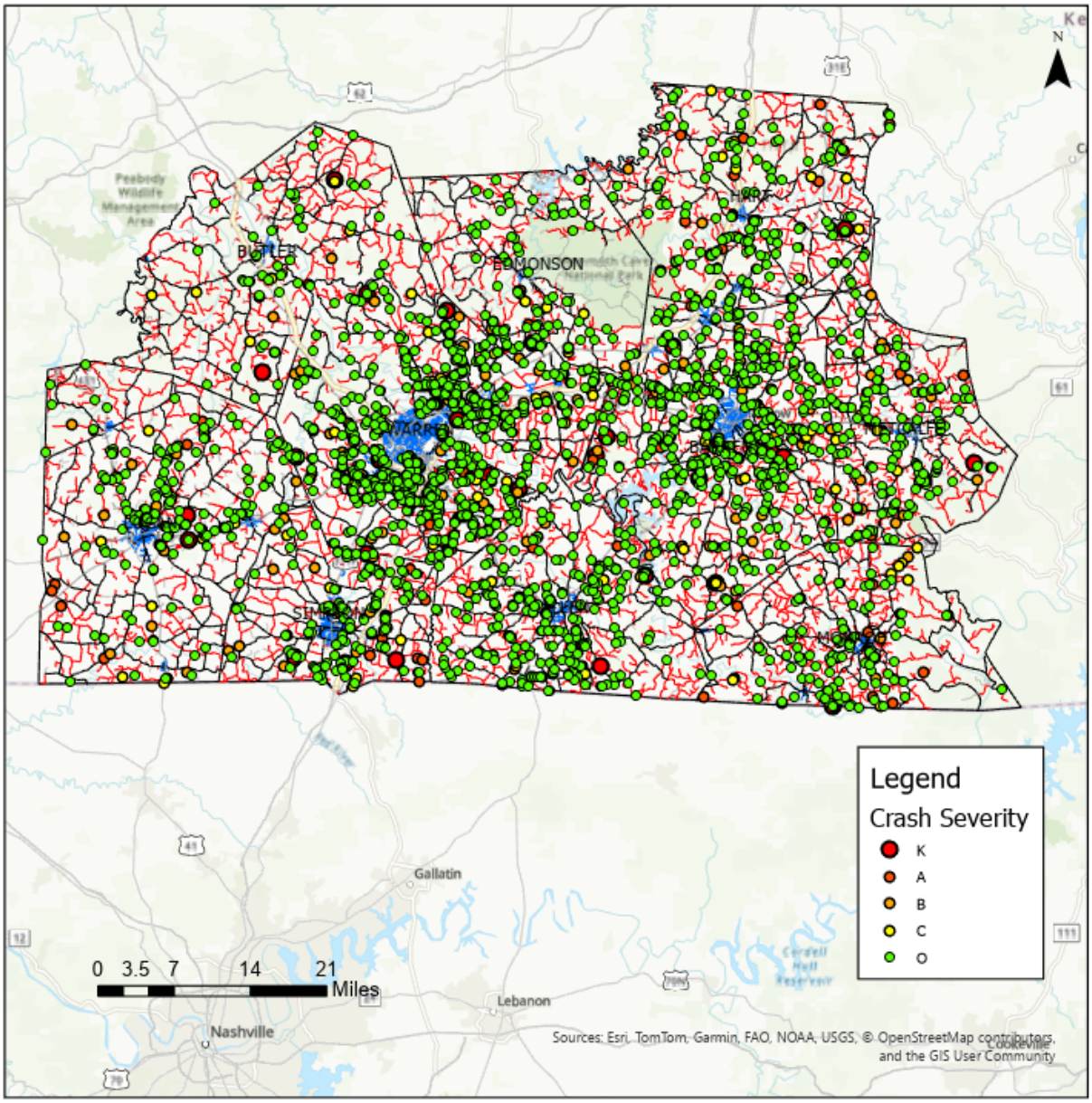
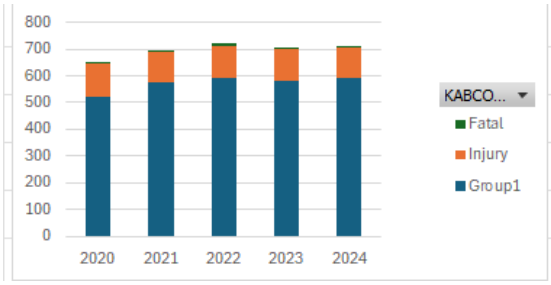


Exhibit 2: Crash Distribution

Crash data was provided in a database format with latitude and longitude provided for each crash, and crash characteristics such as crash severity, manner of collision, and human,

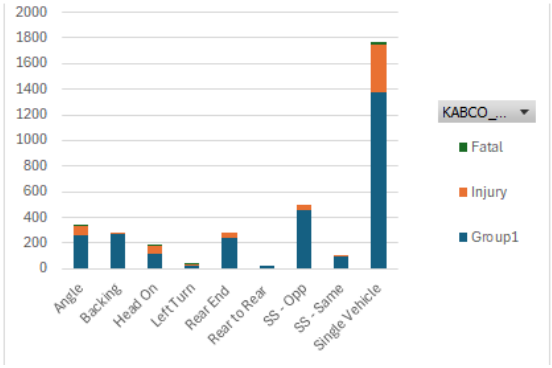
vehicular and environmental contributing factors. Crash data was spatially joined to the city roadway network available from the Kentucky Transportation Cabinet (KYTC) website (transportation.ky.gov). Crashes were assigned to the nearest roadway in order to determine if the crash occurred on a city or state roadway.

Prior to the identification of high crash locations, area wide crash analyses were completed to determine emphasis areas within the city roadways that may be the focus of safety efforts.



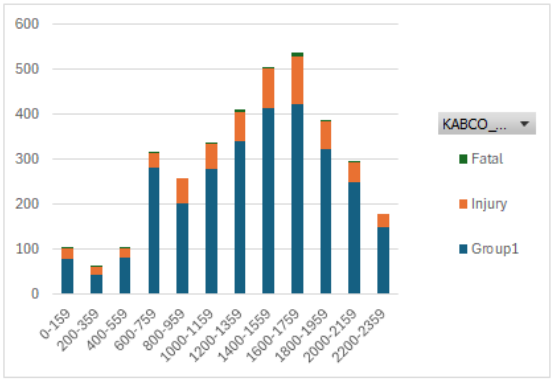
Year	Property Damage Only	Injury	Fatal	Total
2020	521	128	2	**651**
2021	578	112	7	**697**
2022	591	122	9	**722**
2023	580	119	6	**705**
2024	592	112	8	**712**

Exhibit 3: Crash Severity by Year



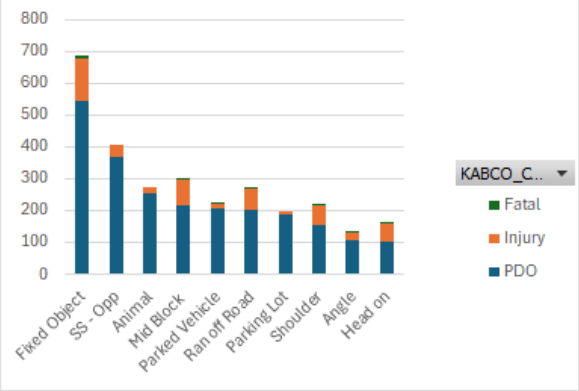
Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	263	66	3	**332**
BACKING	266	6	0	**272**
HEAD ON	118	62	2	**182**
OPPOSING LEFT TURN	26	4	2	**32**
REAR END	244	37	0	**281**
REAR TO REAR	21	0	0	**21**
SIDESWIPE-OPPOSITE	455	44	0	**499**
SIDESWIPE-SAME DIR	91	2	0	**93**
SINGLE VEHICLE	1373	372	25	**1770**

Exhibit 4: Crash Type by Severity



Time of Day	Property Damage Only	Injury	Fatal	Total
0-159	79	21	2	**102**
200-359	44	16	1	**61**
400-559	81	19	3	**103**
600-759	281	32	2	**315**
800-959	202	55	0	**257**
1000-1159	277	58	1	**336**
1200-1359	340	64	5	**409**
1400-1559	413	88	5	**506**
1600-1759	423	106	8	**537**
1800-1959	323	61	3	**387**
2000-2159	250	43	2	**295**
2200-2359	148	30	0	**178**

Exhibit 5: Crashes by Time of Day



Time of Day	PDO	Injury	Fatal
Fixed Object	545	132	10
SS - Opp	368	36	0
Animal	255	18	0
Mid Block	218	77	8
Parked Vehicle	207	15	1
Ran off Road	200	66	4
Parking Lot	187	8	0
Shoulder	154	64	4
Angle	106	24	1
Head on	101	57	2

Exhibit 6: Directional Analysis (Top 10 Injury/Fatal Crash Types)

FOCUS ROADWAYS

While the goal of the Safety Action Plan is to improve safety on all roadways, for all users, the primary focus is to reduce fatal and injury crashes. A systemic analysis approach was taken to identify roadways which have the highest probability of future injury or fatal crashes. These roadways, designated "Focus Roadways" are identified based on

- Injury and fatal crashes
- Role in the county road network.

Roadways were ranked based on the previous crash history and severity, as well as anticipated roadway use. Additionally, the Task Force assembled for this Action Plan reviewed the initial focus roadway list and provided community input to identify community- sensitive areas, such as schools and other service areas that required increased attention to traffic and safety.

Crash History Score was based on three factors listed below:

1. *Equivalent Property Damage Only (EPDO) crashes*. A weighted rating technique based on crash severity. The EPDO formula used in this analysis assigned a weight of 10 to crashes resulting in a fatality or incapacitating injury, 5 for crashes resulting in a minor or possible injury (B or C Injury), and 1 to crashes resulting in property damage only (PDO).
2. *Total Fatal and Injury Crashes*. The frequency of all injury and fatal crashes.
3. *Vulnerable Road User (VRU) Crashes*. The frequency of pedestrian, bicyclist or other non- motorized crashes with a motorized vehicle.

Network, or Use, Score was based on two factors:

1. *HERE Traffic Analytics*. This location and technology company provides a record of traffic volume and speed observations on roads from GPS probe data points. The

number of observations recorded on each road segment was used as a surrogate for roadway use in the absence of Average Daily Traffic volumes.

2. *Road Network Connectivity Analysis*. Spatial analysis was conducted in ArcGIS to quantify the role each road segment plays in the roadway network. Connectivity analysis identifies the percentage of times a roadway segment is part of the shortest path between any two origin-destination points within the state-wide roadway network.

All of the evaluation factors were normalized on a scale of 1-10, with 1 representing the minimum value observed within each county and 10 representing the highest value in county. All other values were rated proportionally between the highest and lowest values. A total Crash Score was then developed as the sum of the EPDO, Injury and Fatal Crashes, and VRU data and a Use Score was developed based on HERE Data and Connectivity Scores. A final score was determined based on the sum of the Crash and Use scores. Roadways were then ranked by total score. Focus Roadways for each county were identified as the top ranked roadways which accounted for 95 percent of all injury and fatal crashes in a county. These roadways represent the top 23 percent of roadways with injury and fatal crashes in the ADD and RANGE from 14 to 36 percent of each county's total mileage as shown in Exhibit 7. The top five ranked focus roadways in each county that have collected data are shown in Exhibit 8 and listed in Exhibit 9. The full list of focus roadways is provided in the Appendix for each county.

County	Total Mileage	Focus Rd Mileage	Focus Rd Percent
Allen County	449	98	22%
Barren County	614	154	25%
Butler County	404	67	17%
Edmonson County	250	39	16%
Hart County	416	71	17%
Logan County	503	72	14%
Metcalfe County	358	71	20%
Monroe County	387	64	17%
Simpson County	282	91	32%
Warren County	711	259	36%

Exhibit 7: Focus Road Mileage

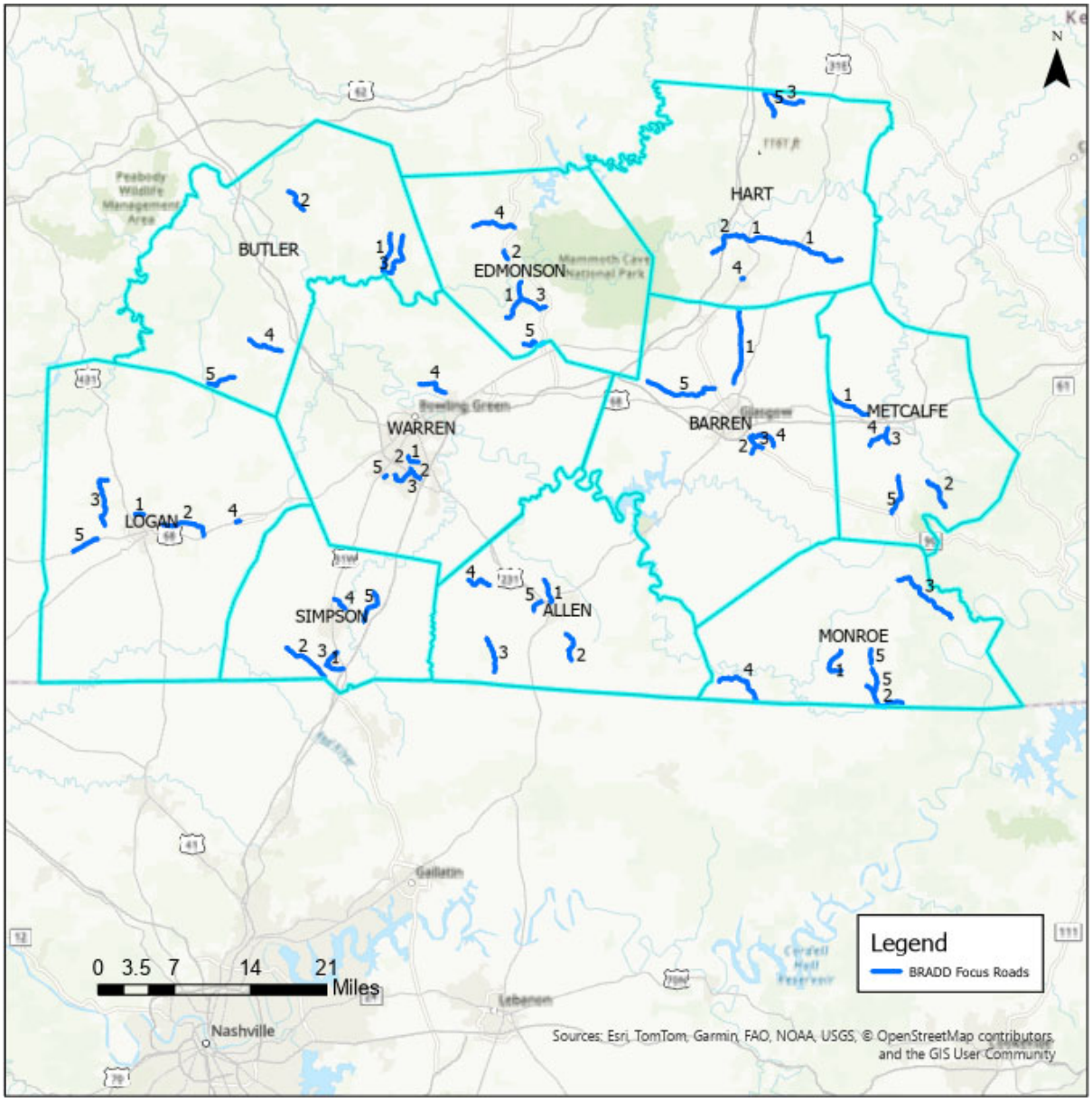


Exhibit 8: Top 5 Focus Roads by County

RT_UNIQUE	Length	County	Road Name	Injury Crashes	Fatal Crashes	PDO	Crash Score	Use Score	Score	RankF
Allen										
002-CR-1302 -000	2.36	Allen	BURNLEY RD	1	1	13	2.50	0.76	1.93	1
002-CR-1161 -000	3.10	Allen	DOVER CHURCH RD	1	0	13	1.90	1.60	1.80	2
002-CR-1229 -000	3.54	Allen	WALKERS CHAPEL RD	2	0	2	2.38	0.49	1.76	3
002-CR-1319 -000	2.78	Allen	TRAMMEL RD	1	1	4	1.96	0.82	1.59	4
002-CR-1305 -000	1.33	Allen	LAMBERT RD	0	0	8	0.48	3.48	1.47	5
Barren										
005-CR-1069 -000	7.20	Barren	OLD MUNFORDVILLE RD	5	2	29	3.33	0.37	2.36	1
005-CR-1103 -000	0.80	Barren	SILOAM RD	1	1	9	0.87	3.12	1.61	2
005-CR-1474 -000	1.71	Barren	GREEN VALLEY RD	0	0	7	1.82	0.35	1.34	3
005-CR-1001 -000	3.10	Barren	HOLLOW RD	1	4	8	1.53	0.21	1.09	4
005-CR-1374 -000	7.17	Barren	DRIPPING SPRINGS RD	1	2	26	1.48	0.17	1.05	5
Butler										
016-CR-1026 -000	3.78	Butler	THRELKEL RD	1	0	0	3.65	1.16	2.83	1
016-CR-1106 -000	2.61	Butler	MCKENDREE CHAPEL RD	1	0	2	2.12	3.90	2.70	2
016-CR-1031 -000	5.39	Butler	REGION RD	1	1	1	2.69	1.55	2.32	3
016-CR-1182 -000	3.45	Butler	DIMPLE RD	0	2	6	1.67	2.90	2.07	4
016-CR-1271 -000	3.48	Butler	CANEY FORK RD	0	2	0	1.28	1.49	1.35	5
Edmonson										
031-CR-1205 -000	4.29	Edmonson	OAK HILL RD	2	0	4	2.68	1.30	2.23	1
031-CR-1300 -000	1.02	Edmonson	SANDY FLAT RD	0	2	3	1.67	3.26	2.19	2
031-CR-1143 -000	2.77	Edmonson	MOHAWK RD	1	1	1	1.99	1.49	1.83	3
031-CR-1308 -000	4.42	Edmonson	BLACKGOLD RD	0	2	3	1.67	0.96	1.43	4
031-CR-1137 -000	2.45	Edmonson	NOAH BLEDSOE RD	0	0	1	0.07	3.33	1.15	5
Hart										
050-CR-1181 -000	9.85	Hart	BUNNELL CROSSING RD	2	1	7	3.33	0.42	2.37	1
050-CR-1238 -000	4.69	Hart	ROWLETTS CAVE SPRINGS RD	1	1	9	2.31	0.68	1.78	2
050-CR-1057 -000	4.09	Hart	LATON TURNER RD	1	0	1	1.20	0.31	0.91	3
050-CR-1253 -000	0.34	Hart	GUTHRIE ST	0	1	4	0.86	0.07	0.60	4
050-CR-1058 -000	2.83	Hart	WABASH RD	0	1	0	0.62	0.17	0.47	5
Logan										
071-CR-1334 -000	0.89	Logan	CATES BY PASS RD	1	1	2	2.07	3.66	2.59	1
071-CR-1118 -000	4.80	Logan	STEVENSON MILL RD	2	0	13	3.33	0.71	2.47	2
071-CR-1429 -000	5.93	Logan	BUENA VISTA RD	2	0	1	2.46	0.33	1.76	3
071-CR-1011 -000	0.47	Logan	PETERSON AVE	2	0	0	2.39	0.17	1.66	4
071-CR-1713 -000	2.61	Logan	STEPHANIE RD	1	0	2	1.34	0.22	0.97	5
Metcalfe										
085-CR-1393 -000	4.58	Metcalfe	NEW LIBERTY BIG MEADOW RD	1	0	11	2.83	0.63	2.10	1
085-CR-1142 -000	3.44	Metcalfe	GLEN SHAW RD	1	0	2	2.17	1.66	2.00	2
085-CR-1278 -000	1.65	Metcalfe	SPRADLIN RD	1	0	2	2.17	0.26	1.54	3
085-CR-1274 -000	2.13	Metcalfe	COOMER RD	1	0	1	2.10	0.08	1.44	4
085-CR-1211 -000	4.03	Metcalfe	GOODLUCK BEAUMONT RD	0	2	3	1.67	0.30	1.22	5
Monroe										
086-CR-1215 -000	3.60	Monroe	EBENEZER RD	1	1	0	2.50	0.58	1.86	1
086-CR-1142 -000	4.75	Monroe	BEECH GROVE BOLES RD	1	0	2	2.06	0.60	1.57	2
086-CR-1023 -000	7.41	Monroe	OLD TEMPLE HILL RD	1	0	0	1.94	0.56	1.49	3
086-CR-1250 -000	5.44	Monroe	BUGTUSSLE RD	0	3	0	1.67	0.80	1.38	4
086-CR-1150 -000	3.92	Monroe	MILL CREEK RD	0	2	5	1.39	1.20	1.33	5
Simpson										
107-CR-1148 -000	1.75	Simpson	STEELE RD	1	2	10	2.50	3.09	2.69	1
107-CR-1207 -000	4.69	Simpson	KUMMER RD	1	0	8	1.45	2.63	1.84	2
107-CR-1149 -000	1.72	Simpson	LAKE SPRING RD	1	2	2	2.12	1.16	1.80	2
107-CR-1054 -000	1.53	Simpson	BROADWAY AVE	0	1	7	0.81	3.10	1.57	2
107-CR-1006 -000	3.65	Simpson	ROARK RD	0	1	8	0.86	2.84	1.51	2
Warren										
114-CR-1704X -000	0.88	Warren	CAVE MILL RD	11	16	111	3.33	5.00	3.88	1
114-CR-1235 -000	1.81	Warren	SMALLHOUSE RD	9	11	77	4.22	1.80	3.42	1
114-CR-1240 -000	2.46	Warren	ELROD RD	9	7	57	3.91	1.99	3.28	1
114-CR-1091 -000	3.20	Warren	DETOUR RD	7	5	39	3.36	1.25	2.66	1
114-CR-1748 -000	0.36	Warren	MALLARD ST	1	0	0	1.84	0.21	1.30	1

Exhibit 9: List of Top 5 Focus Roads by County

Note: Initial focus road lists were determined from 2018-2023 data available at the beginning of data collection. This list was updated based on 2020-2024 data which resulted in minor shifting of roadway rankings. Additionally, some roadways initially identified as focus roads were removed after local review.

Mapping and a listing of all identified Focus Roads is provided in the Appendices of this report which provides detailed recommendations for each county within the BRADD region.

DATA COLLECTION

Road Safety Assessments (RSAs) were conducted on the Focus Roadways by BRADD Staff. The purpose of this review was to collect basic roadway information such as road width, pavement condition and roadside conditions, as well as identify potential hazards along the roadway. The review focused on hazards related to single vehicle and lane departure crashes, as these represented the highest injury and fatality rates within the region based on the crash analysis presented above. The roadway review included the following items.

- General Roadway Information such as condition and width
- Road Signs
- Fixed Objects within 5 feet of the roadway
- Curve Hazards
- Intersection Hazards
- Guardrail
- Bridge / Culvert locations
- Edge Drop Offs
- Other hazards

This data was collected through a Survey123 mobile application and custom survey to capture hazard information, location and associated photos.

In addition to the hazard information, ball bank data was collected on each roadway using the “Ballbank” app developed for the Apple app store by Christopher Dry. This data was used to determine preliminary advisory speeds for all curves on reviewed roadways.

Appendix A contains a guide detailing all data collected on the roadways. Exhibit 10 shows all 2,006 collected data points within the region, and Exhibit 11 provides of breakdown of the type of roadway hazards identified in each county.

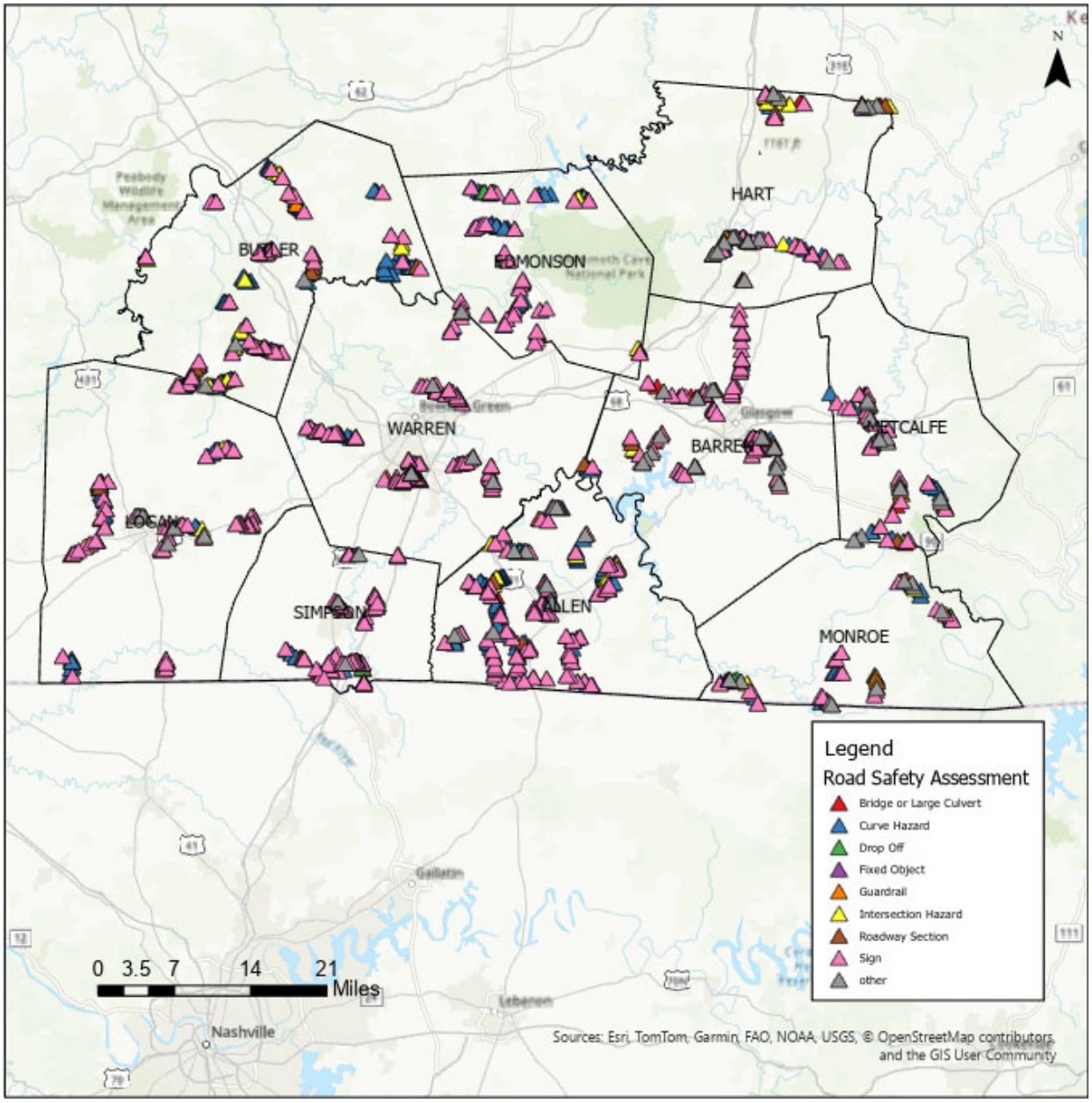


Exhibit 10: Road Safety Assessment Data Points

County	Bridge or Culvert	Curve Hazard	Drop Off	Fixed Object	Guardrail	Int. Hazard	Other	Roadway Section	Sign	Total
Allen	12	193	2	5	5	57	16	6	124	420
Barren	12	18	1	0	13	25	18	12	123	222
Butler	10	155	2	1	5	46	3	13	51	286
Edmonson	8	80	7	1	0	6	0	1	58	161
Hart	14	39	2	3	4	19	19	3	39	142
Logan	7	71	3	1	1	34	5	4	78	204
Metcalfe	11	32	2	3	1	19	13	5	30	116
Monroe	7	16	5	2	4	16	9	6	31	96
Simpson	13	23	2	0	2	1	5	0	95	141
Warren	4	28	0	4	4	9	9	9	151	218
Total	**98**	**655**	**26**	**20**	**39**	**232**	**97**	**59**	**780**	**2006**

Exhibit 11: Road Safety Assessment Data by Type and County

One of the items collected in the review was the roadway width on county roads. Based on the American Association of State Highway Officials Guidelines for Geometric Design of Low Volume Roads, the recommended minimum roadway width for new construction is 18 feet. Reviewing roadway width data collected on the Focus Roads, 30 percent are 10 or less feet in width with only 27 percent of roadways equal to or greater than 18 feet. Seventy-two (72%) percent of roadways are under 15 feet, the minimum width requirements to accommodate two seven-oot wide passenger vehicles. AASHTO Guidance states that existing roads “need not be modified except in those cases where there is evidence of a site specific crash pattern.” These narrow widths are consistent with the high degree of run off the road, head-on and opposite direction sideswipe crashes identified in the crash review.

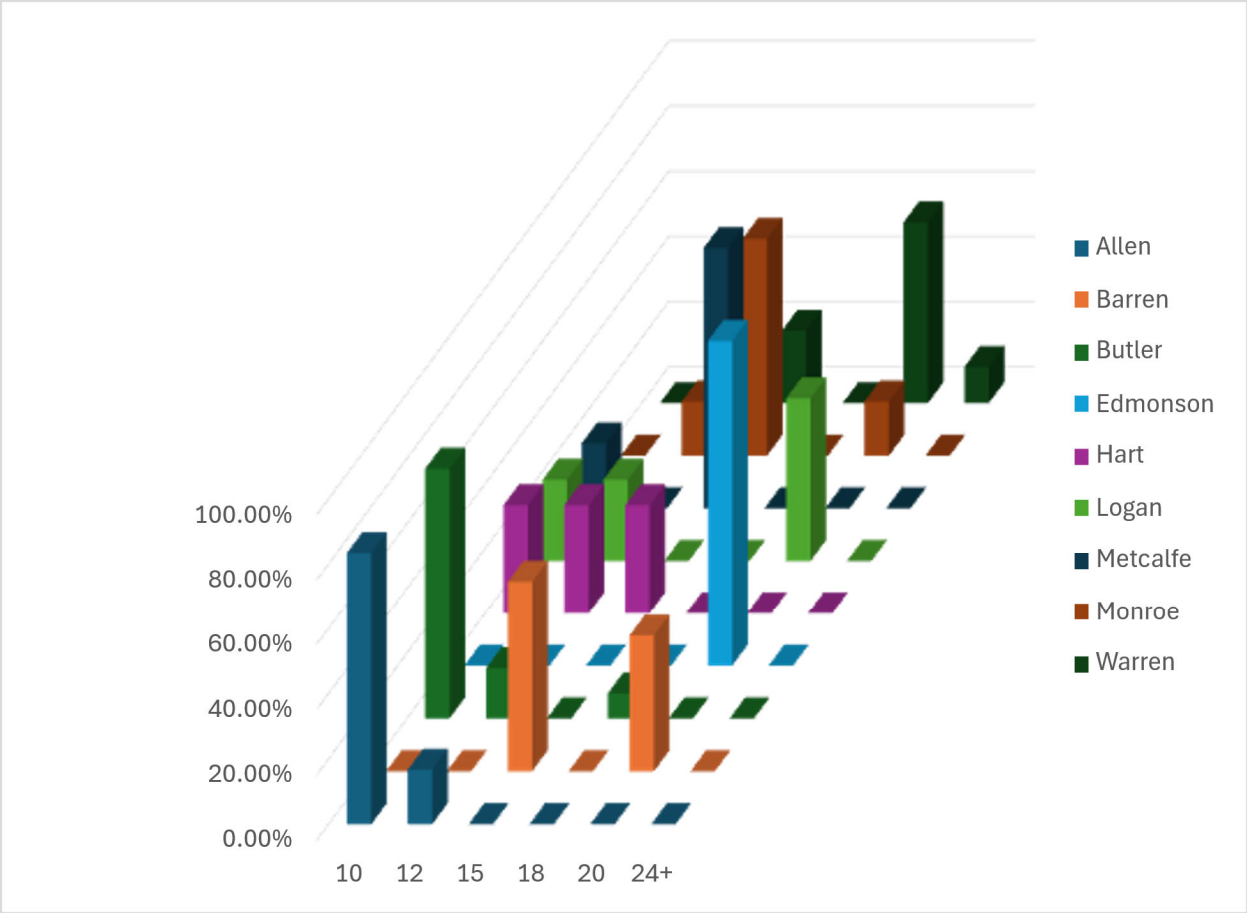


Exhibit 12: Roadway Width by County

County	Pavement Servicibaility Rating				
	1	2	3	4	5
Allen	0%	17%	50%	33%	0%
Barren	0%	0%	8%	83%	8%
Butler	8%	31%	31%	31%	0%
Edmonson	0%	0%	0%	100%	0%
Hart	0%	67%	33%	0%	0%
Logan	0%	0%	25%	25%	50%
Metcalfe	0%	0%	60%	40%	0%
Monroe	0%	0%	17%	83%	0%
Warren	0%	0%	0%	100%	0%
Total	**2%**	**12%**	**24%**	**58%**	**5%**

Exhibit 13: Roadway Condition by County

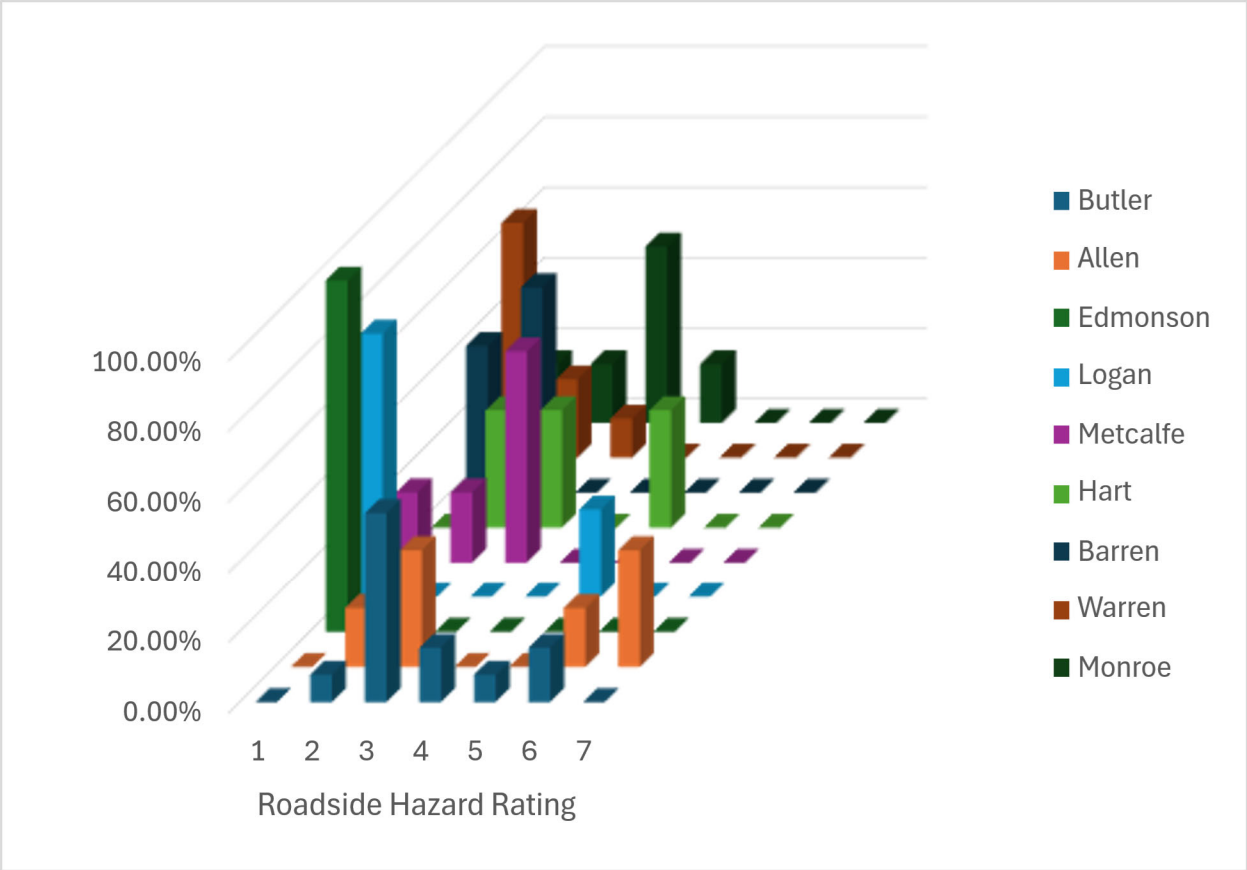


Exhibit 14: Roadside Hazard Rating by County

Evaluating the crash analysis presented above which shows that single vehicle-ixed object crashes are the most frequent type of crash involving fatalities or injuries, the roadways were reviewed for both pavement width and roadside hazard rating as shown in Exhibits 12 and 14. This demonstrates that the majority of roadways, with the exception of Edmonson County, have relatively narrow roads (<15 feet) and poor Roadside Hazard Ratings with the average RHR being 5 and 6, indicating minimum clear zone and the prevalence of fixed objects.

PUBLIC INVOLVEMENT

As part of the Safety Action Plan, a public survey was conducted to understand how the traveling public perceived roadway safety within BRADD. The survey asked general demographic questions as well as what were the major concerns an priority issues of the public . Finally, an interactive map was provided to allow respondents to identify specific concerns or issues within their area. 15 unique responses were collected for the survey. The results of this survey are summarized below and Appendix C contains the full survey questionnaire.

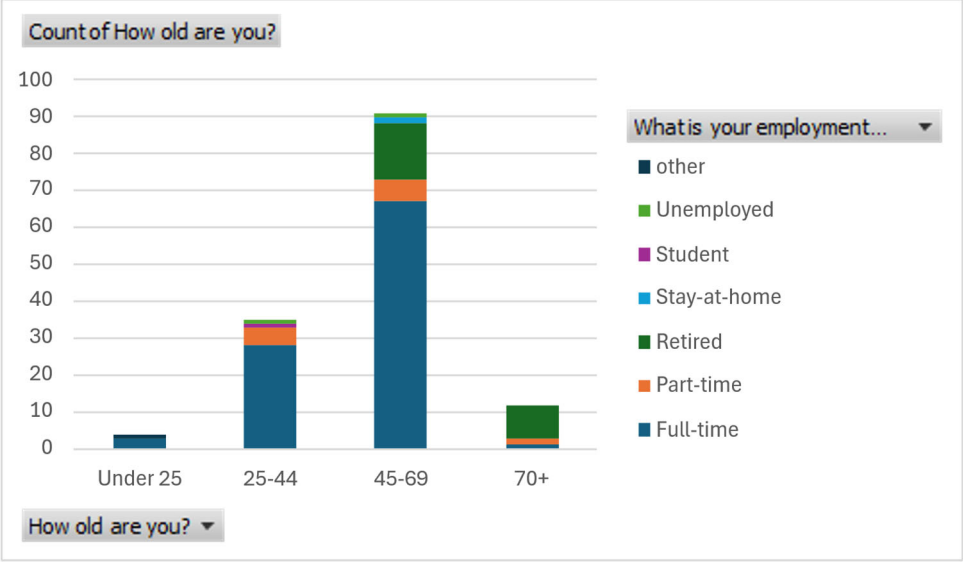


Exhibit 15: Public Survey Demographic Information

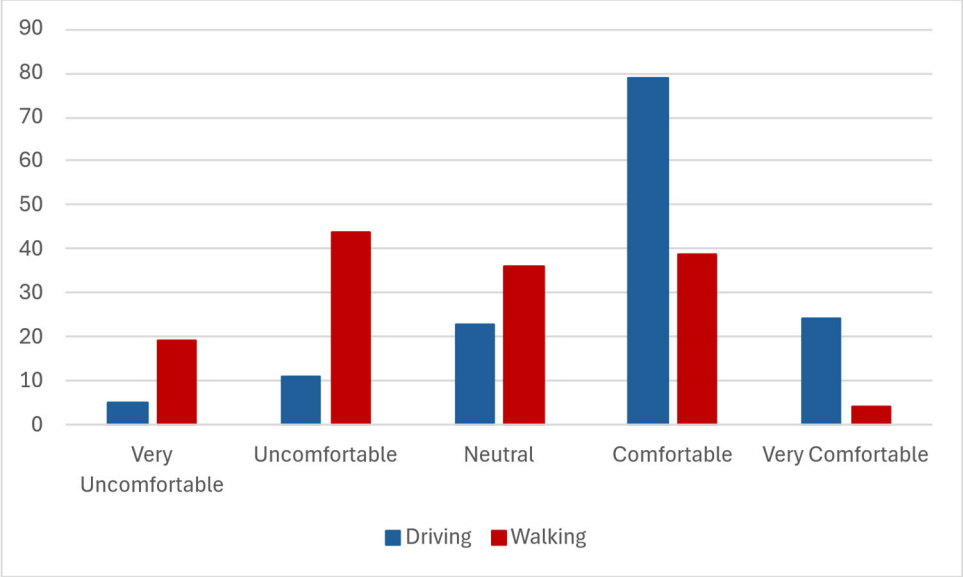


Exhibit 16: Public Survey Driving/Walking Comfort Level

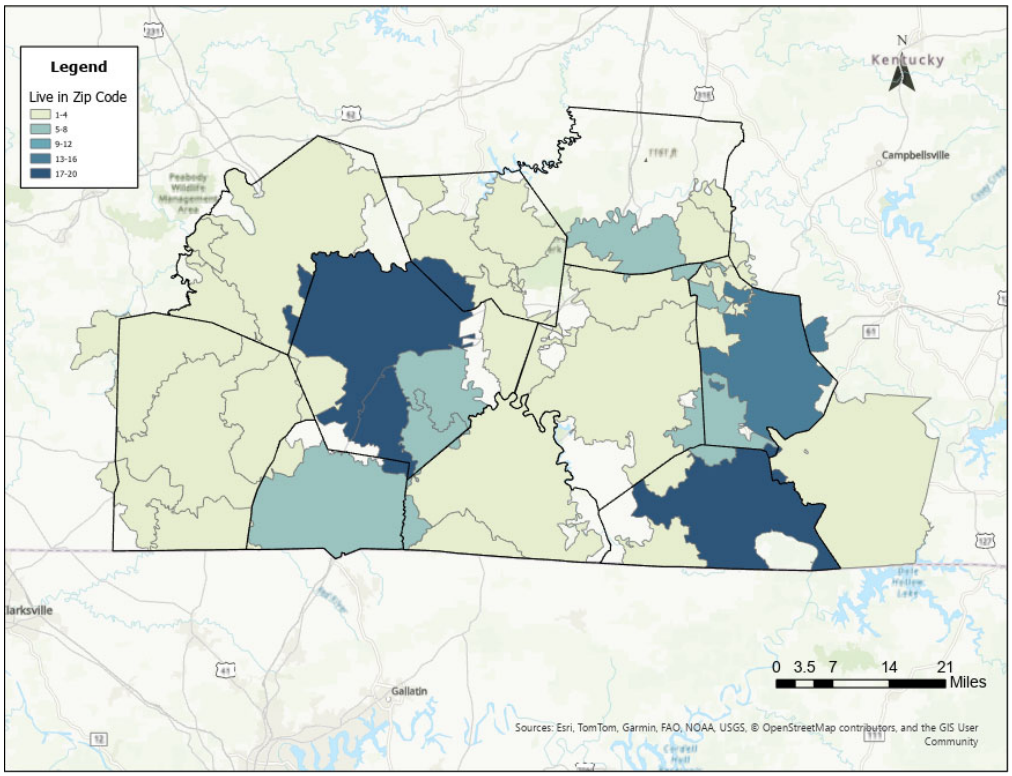


Exhibit 17: Public Survey Residency by Zip Code (Percent)

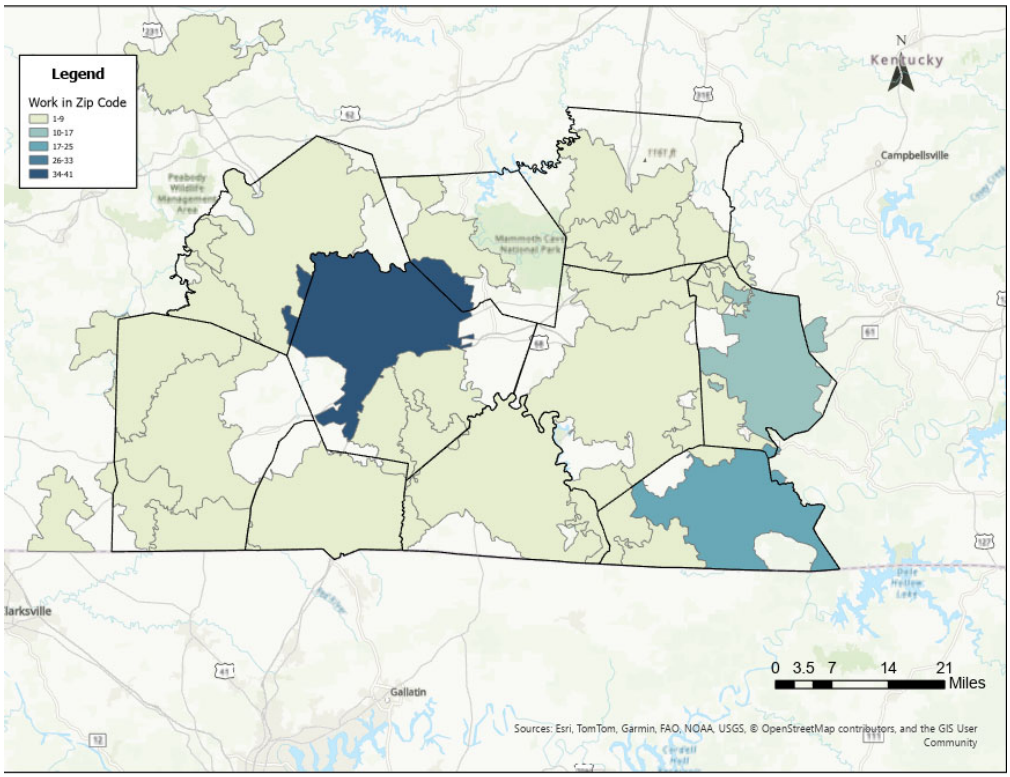


Exhibit 18: Public Survey Work Location by Zip Code (Percent)

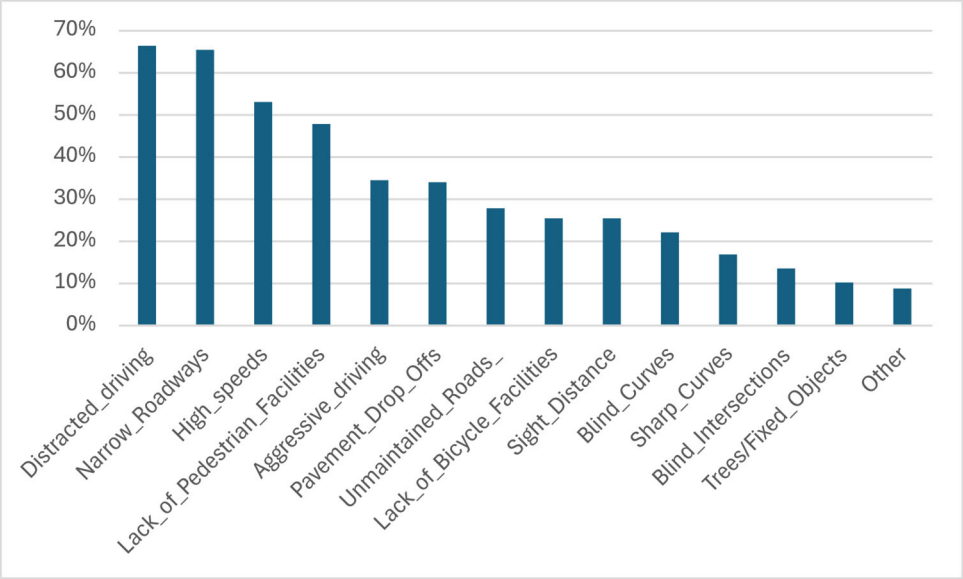


Exhibit 19: Public Survey Top Safety Issues

It is noted that human factors are the top 3 safety concerns for the region, with Distracted Driving, High Speeds, and Aggressive Driving being the most frequently cited concerns. Lack of Pedestrian Facilities was the 4th most frequent concerns and is consistent with comfort ratings which indicated that NO respondents indicated that the majority of respondents do not feel comfortable walking in the region.

103 Comments were received to answer the question “"What is something that you would like this plan to focus on to make roadways safer in your area?" Survey responses reflect concern about the condition, width, and overall safety of existing roadways, particularly on rural and county roads. Many respondents described narrow travel lanes, limited or non-existent shoulders, steep pavement drop-offs, blind curves, and aging pavement in need of resurfacing or repair. There is also significant interest in improving safety for pedestrians and bicyclists through sidewalks, protected bike facilities, and safer crossings—especially near schools, downtown areas, parks, and along key corridors. Speeding, distracted driving, and limited enforcement were frequently cited behavioral concerns, alongside calls for clearer signage, better pavement markings, improved lighting, and safer intersection designs (including roundabouts). Overall, comments emphasize maintaining and upgrading the roads and bridges we have, addressing drainage and shoulder deficiencies, and designing corridors that better accommodate all users.

Top 5 Most Frequent Requests:

- Widening roads, shoulders, and bridges – particularly busy two-lane rural and county roads to better accommodate opposing traffic, trucks, and agricultural equipment.

- Improved road maintenance and resurfacing – including pothole repair, repaving deteriorated blacktop, fixing pavement drop-offs, maintaining ditches and drainage, and increasing funding for upkeep of existing infrastructure.
- Expanded pedestrian infrastructure – adding and connecting sidewalks, improving crosswalks, and enhancing pedestrian access near schools, downtown areas, parks, and residential neighborhoods.
- Enhanced bike facilities and separation from traffic – including protected bike lanes, greenways, multi-use paths, and wider shoulders to safely accommodate cyclists.
- Speed management and enforcement improvements – better signage, pavement striping and reflectivity, improved lighting, intersection upgrades (including roundabouts and signal timing), and increased enforcement to address speeding and distracted driving.

A complete list of individual comments is provided in the Appendix C.

Six issues within the study area were identified in the survey interactive mapping. These comments are summarized below and general locations shown in Exhibit 20.

1. Roadside Drop Off located near Raleigh Lane and KY 16. Comment: Wolf Road, Decoursey Pike
2. Pedestrian issue located at Taylor Mill Elementary. Comment: The schools needs a crosswalk that can activate a traffic light.
3. Narrow Road located along Wayman Branch Road. Comment: Wayman Branch Rd is too narrow and curvy
4. Intersection located at Taylor Creek Drive and Pride Parkway. Comment: A traffic light is needed at this intersection. The parkway is 45 MPH and there are subdivisions worth of people trying to make left turns. It's dangerous.
5. Intersection located at Taylor Mill Road and Pride Parkway. Comment: Vehicles do not stay in lanes turning left Southbound and Northbound traffic doesn't through intersection because of curvature. Stay in lanes
6. Other Comment located near Taylor Mill Road and Pride Parkway. Comment: This intersection lacks lighting. It is difficult to see the lanes at night especially when the pavement is wet.
7. Other Comment located near Burlington Pike and Zig Zag Road. Comment: Frequent running of the red light, drivers coming off of zig zag road must wait longer than expected and look both ways before pulling onto Burlington Pike because other drivers run this red light almost every time.

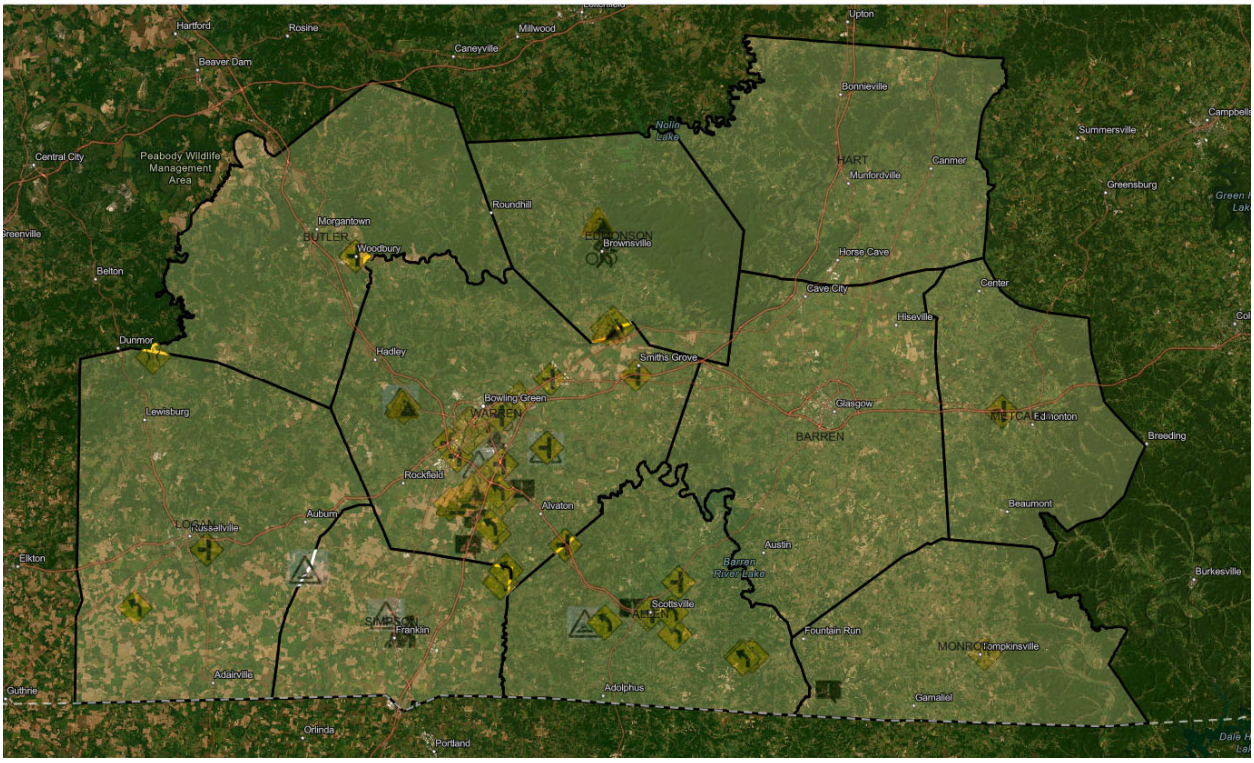


Exhibit 20: Public Survey Identified Site Specific Issues

County	Bicycle	Curve	ntersectior	Maintenanc	Narrow	Other	Pedestrian	Speeding	Total
ALLEN		6	5	1		3			15
BUTLER			1					1	2
EDMONSON	1	2			1		1		5
LOGAN		1	1	2	1				5
METCALFE			1						1
MONROE			1		1	1			3
SIMPSON		3		1		2	4	1	11
WARREN	2	2	15	3	6	8	6	4	46
Total	**3**	**14**	**24**	**7**	**9**	**14**	**11**	**6**	**88**

RECOMMENDED IMPROVEMENTS

Recommended countermeasures to address identify potential hazards were developed from state specific and national guidance including the Federal Highway Administration provide Safety Countermeasures, https://highways.dot.gov/safety/proven-safety-countermeasures, Crash Modification Factor (CMF) Clearinghouse, and common low cost safety measures implemented by the Kentucky Safety Circuit Rider Program. Typical with rural crash patterns, most crashes are scattered throughout the roadway network, with no definitive high crash "hot spot." Therefore, low-cost measures that could be widely applied in a systemic manner were the focus of safety improvements for this Safety Action Plan. These improvements may be implemented through county forces one project or road at a time, or through larger capital projects to implement county-wide or region wide improvements. Potential improvements include:

- Edgeline Striping
- Shouldering / Shoulder Improvements
- Horizontal Alignment Signing
- Object Markers
- Advanced Intersection Warning Signs
- Wet Weather Countermeasures
- Vegetation Management
- Fixed Objects
- Guardrail

It is noted that much guidance for low volume rural roads do not specify guidance or recommend such as roadway width, clear zone width, pavement striping etc. However, the focus roads which represent 12 percent of the total county road mileage within BRADD, may require an increased level of maintenance and mitigation to minimize injury and fatal crashes on local roadways. Therefore the following guidance was used in determining countermeasures to recommend.

Edgeline Striping. Edgeline striping has been shown to have a 15-22 percent crash reduction factor for single vehicle and head-on crashes, due to the ability to provide additional guidance during low visibility. Edgleine striping is recommended on all paved roadways, in which the pavement condition is sufficient to support striping (Present Servicability Rating (PSR) of 4-5. Roadways with a PSR of 3 should be manually reviewed to determine is shoulder conditions can support striping, while pavement poor and very poor conditions (PSR 1 or 2) should not be striped until the roadway is resurfaced.

Horizontal Alignment Signing is recommended on all Focus Roadways, due to the cost effectiveness and project crash reduction of 13-29 percent. Preliminary advisory speeds are provided for all reviewed roadways.

Roadside Design. It is desirable to maintain an appropriate width clear zone on all roadways. Clear zone are the portion of the roadside that is free of obstructions and sufficiently flat to allow errant vehicles to recover control. The desirable clear zone for low volume rural roads is 6 ft, though AASHTO Guidance recognizes rural roadway constraints make this impractical and indicates that designs with zero (0) ft clear zones may be used. The following guidance was used in establishing clear zone on Focus Roadways.

- Remove Fixed objects if practical within 2 ft of the roadway on tangent roadway sections and within 5 ft of roadway on the outside of curves, due to the increased probability of vehicle running off the roadway. If multiple fixed objects, such as a tree line or fence line, are within this distance, only objects closer than the object line should be cleared.
- Install object markers on hazards that cannot be removed, (i.e. utility poles, drop offs etc.) within 5 feet of the road edge, unless the hazards are consistent and typical of the continuous roadside, then object markers are not recommended.
- Provide shouldering where practical to minimize pavement edge drop-off on narrow roads.
- Guardrail has been shown to not be generally cost effective on low volume roadways and serves as an additional fixed object on roadways.
    - Where guardrail appears warranted and currently exists and is in acceptable condition, maintain existing guardrail.
    - Improve existing guardrail that appears to be warranted through the installation of appropriate end treatments and/or object markers.
    - Remove poor condition guardrail and unwarranted guardrail installations.

Bridges and Culverts should be maintained in accordance with state and national best practices and guidance. All structures over 20 feet are inspected every two years as part of the National Bridge Inspection Report and condition/load ratings an provided to local agencies. Bridges should have guardrail installations with appropriate end treatments to protect errant vehicles. In the absence of guardrail, object markers should be installed. A critical safety component of bridges is that they should provide the same width as the approaching roadway. If bridges are more narrow than the roadway approach, consideration should be given to widening the structure during replacement.

Additional guidance for improvements is provided in Appendix B, which contains one-page "TAP-It" sheets for improvements developed by T2. These sheets provide general guidance and identify additional resources for each of the countermeasures.

Recommended improvements have been identified for each focus road reviewed and each issue identified within the RSA. These improvements are listed and identified in the Appendices D-J for each county. RSA and recommendation information is also available in digital format and can be accessed at https://kyt2.uky.edu/BRADDSAP.

POLICY RECOMMENDATIONS

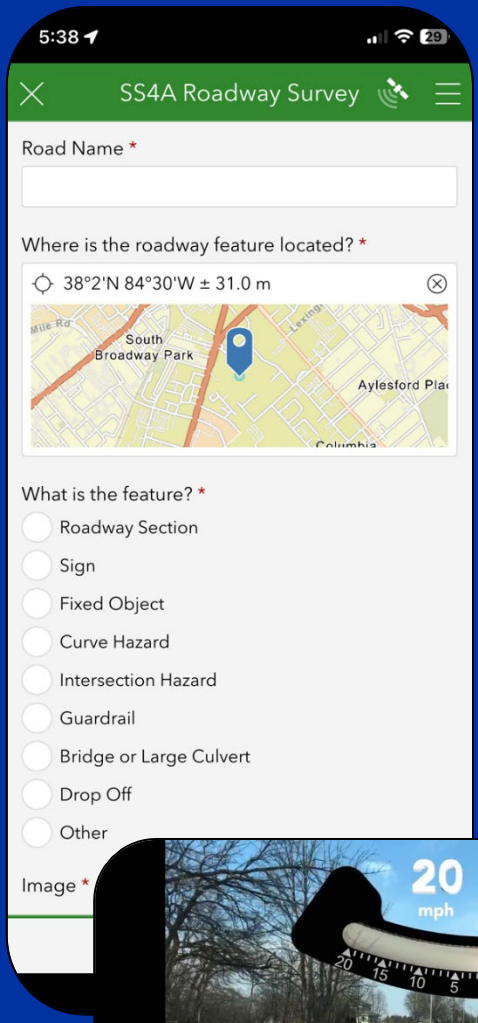
The following policy recommendations are made to assist agencies in addressing roadways safety on local roadways based on the Crash Analysis, Road Safety Assessments and Public outreach activities outlined above.

1. Adopt and Implement Safety Action Plan. Local agencies should adopt and maintain a comprehensive Safety Action Plan that is regularly updated to reflect evolving roadway conditions and crash trends. The plan should serve as a strategic guidance tool for counties and cities to prioritize and implement roadway safety improvements, ensuring resources are directed where they will have the greatest impact. To maintain its effectiveness, the plan should be reviewed annually with updates to recommended improvements, while a full crash analysis and roadway review should be conducted at least every three years to identify changing crash patterns and emerging safety concerns. This ongoing process will allow local agencies to make data-driven decisions, improve roadway safety outcomes, and advance toward long-term safety goals.
2. Vision Zero Statement. As part of this plan, it is recommended that each community adopt a Vision Zero Statement with a goal to eliminating fatalities and severe injuries on agency roadways. Adopting a Vision Zero statement shows an agency's clear commitment to prioritizing the safety of all roadway users and reducing serious injuries and fatalities to zero. By adopting Vision Zero, local governments demonstrate leadership, accountability, and a proactive approach to creating safer, healthier, and more livable communities. An sample vision zero statement that was adopted by the Barren River Area Development Districtis provided in Appendix K.
3. Minimum Road Standards. As identified in the roadway reviews, a majority of county roadways provide minimum width and present roadside hazards. While these roadways perform with minimal crashes, it is primarily due to the low volume and familiar local traffic which uses these roadways. As urbanization reaches into increasingly rural areas, it is recommended that Local agencies consider adopt minimum roadway standards to ensure rural roads can safely accommodate future

traffic demands associated with development. These standards should establish baseline roadway width and sight distance standards that support safe two-way travel, and adequate space for emergency vehicles, while accounting for surrounding land use. When evaluating development proposals, agencies should look to require roadway widening or other improvements if existing conditions fall below the minimum standard, ensuring safety is not compromised by increased traffic volumes. In doing so, local agencies can guide responsible growth, reduce crash risk, and maintain the long-term safety and functionality of rural roadways.

4. Right of Way Encroachment. It is recommended that agencies consider a ROW encroachment policy to ensure that all new driveway access points to public roadways be designed and constructed in accordance with established safety and drainage standards. The policy should ensure that driveway culverts and drainage features are properly sized and installed to prevent roadway flooding or erosion, and that no fixed objects such as brick mailboxes, stone walls, or decorative structures are placed within the clear zone where they could pose a hazard to motorists. Driveway permits should be reviewed and approved by the agency prior to construction, with inspections conducted to verify compliance. This policy will help protect roadway integrity, maintain proper drainage, and enhance safety for all roadway users.
5. Public Education Campaigns. Consider partnering with the Kentucky Office of Highway Safety and the National Highway Traffic Safety Administration (NHTSA) to implement public education campaigns to address concerns over aggressive and distriacted driving. NHTSA campaigns such as *"U Drive. U Text. U Pay."* and *"Drive Sober or Get Pulled Over"* raise awareness and change driver behavior through media outreach and enforcement partnerships. NHTSA also provides grant funding opportunities under Section 402 and Section 405 programs that support state and local initiatives for distracted driving prevention, speed management, and high-visibility enforcement campaigns. The High-ive Rural Safety Program led by KOHS through NHTSA pairs enforcement, education and engineering improvements to address driver behavior and reduce crashes. By leveraging these programs, local agencies can enhance enforcement, promote safer driving behaviors, and reduce crashes linked to distraction and aggression on their roadways.

APPENDIX A:ROAD SAFETY ASSESSMENT DATA COLLECTION GUIDE





KY Area Development District

SS4A Data Collection Procedures

Pigman College of Engineering
Kentucky Transportation Center
TECHNOLOGY TRANSFER PROGRAM
www.ktp2.com

GUIDE OVERVIEW

The purpose of this guide to provide direction and supplemental reference materials for the data collection procedures in support of the development of a Safety Action Plan for locally maintained roadways. This guide is intended to be used in combination with a mobile device and the Ballbank and ArcGIS Survey123 data collections apps from the Apple App Store.



ArcGIS Survey123



Ballbank

If you have any questions regarding the data collection procedures you may contact your Area Development District (ADD) Transportation Planner at the information on the back of this document.

For each of the focus roadways you will need to

1. Drive the roadway in each direction using the Ballbank app to record horizontal curves, and:
2. Drive the roadway a second time to log potential roadway hazards, and key roadway information using the Survey123 app.

IOS MOBILE DEVICE SETUP

Follow these steps to set up your device.

1. Turn on and log into the iPad.
2. Ensure Wi-Fi is connected.
3. Download the **ArcGIS Survey123** app and **Ballbank** app from the Apple App Store. (You will need the **appleID** and **password** associated with your mobile device to download the apps).

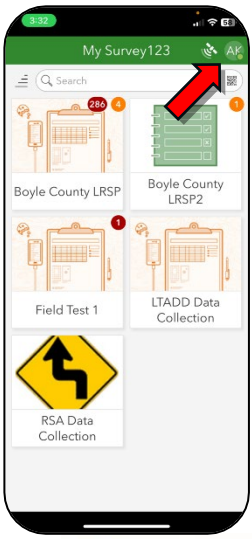


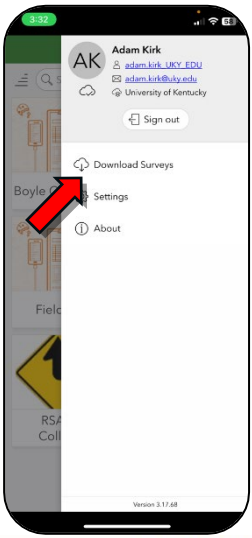
4. Open and Sign into the ArcGIS Survey123 app. Survey123 licenses are managed by the ADD. If there are issues signing in please contact your local ADD for further assistance.



5. Click your user initials in the upper right corner of the screen and select download surveys from the dropdown. Locate the survey titled "*XXADD Data Collection*" and click the cloud with a down arrow to download the survey to your device.
6. Hit the back button in the upper left corner to return to the main screen.





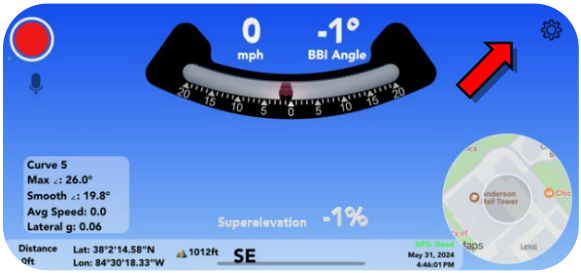


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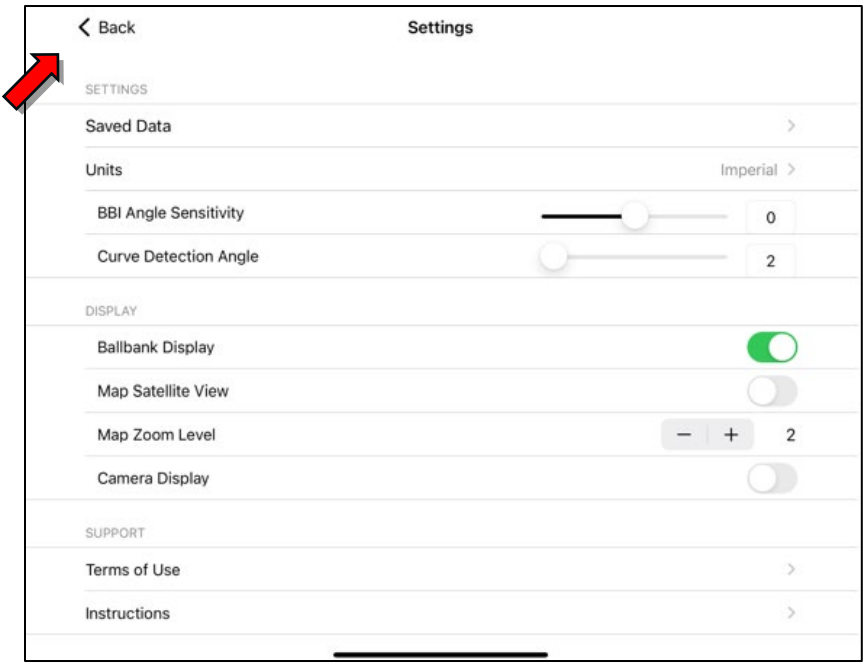
BALLBANK APP

The Ballbank app is used to assist in determining where horizontal alignment (curve) signs are needed and to set advisory speeds at horizontal curves.

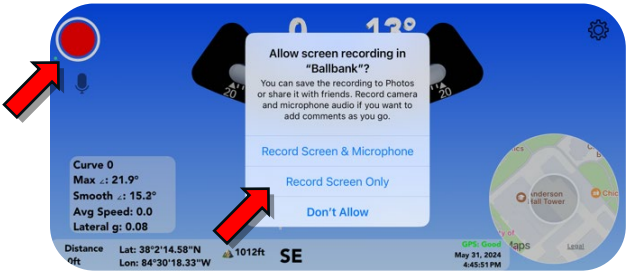
1. To set up the app click on the settings (gear) button in the top right of the screen.



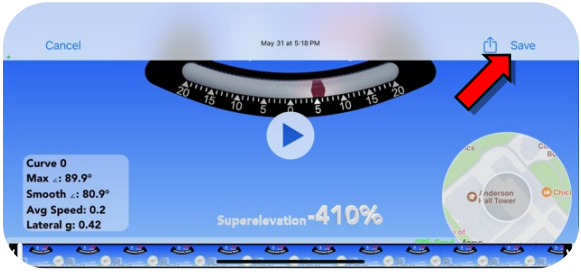
2. Configure the settings to match those shown in the figure below. Once completed, hit the back button.



3. The mobile device should be mounted horizontally in the vehicle, **level with the vehicles chassis**. Check level by placing the device with the ballbank app running on a level surface in the vehicle, such as the dashboard. The BBI Angle displayed should match the BBI Angle when mounted.
4. Drive to safe spot near the beginning of the roadway where you can stop the vehicle and begin recording. To begin data collection hit the “Record” button in the top left corner of the app. Then select “Record Screen Only.”



5. Drive the roadway in **BOTH DIRECTIONS** at a comfortable speed, maintaining your lane as much as possible, i.e., do not straighten out the curves or cross a centerline.
6. Once completed hit the "Stop Recording”  button in the top left corner of the screen.
7. When presented with the option, hit “Save.”

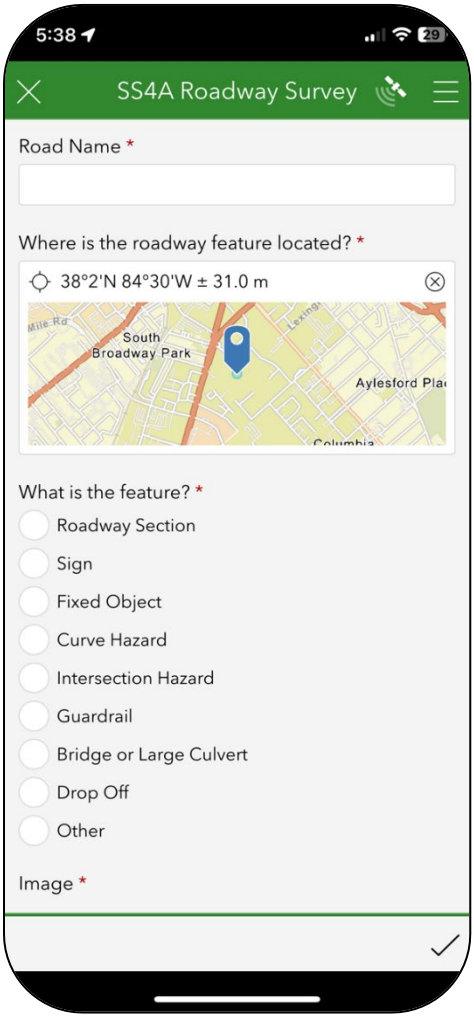


8. Curve data for this roadway has been completed and you can move to the next data collection element or roadway.

SURVEY123

Data Collection

The Survey123 app is used to collect general roadway information as well as potential safety hazards along the roadway. Data collection items are summarized below.

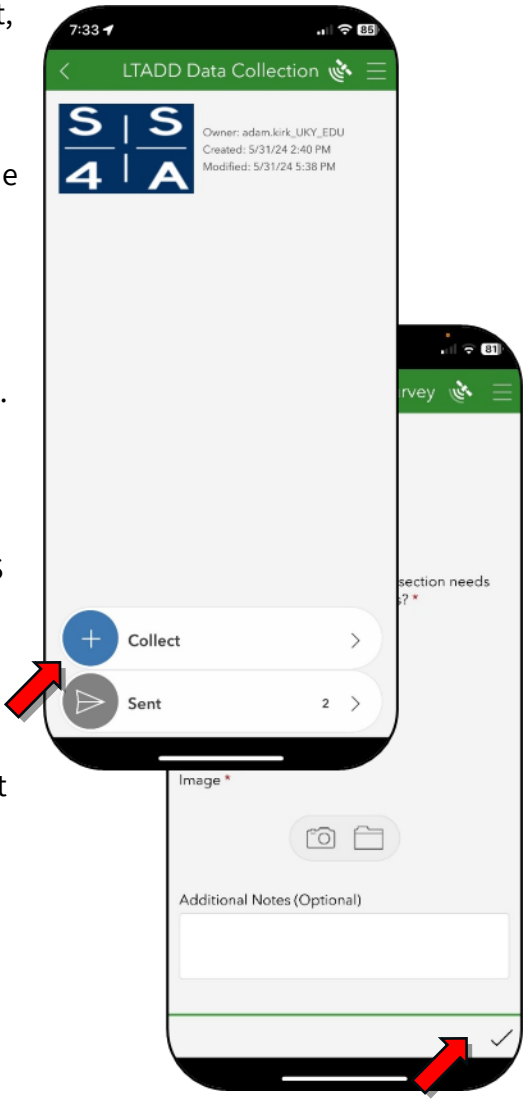


1. General Roadway Information such as condition and width
2. Road Signs
3. Fixed Objects within 5 feet of the roadway
4. Curve Hazards
5. Intersection Hazards
6. Guardrail
7. Bridge / Culvert locations
8. Edge Drop Offs
9. Other hazards noted by the survey team.

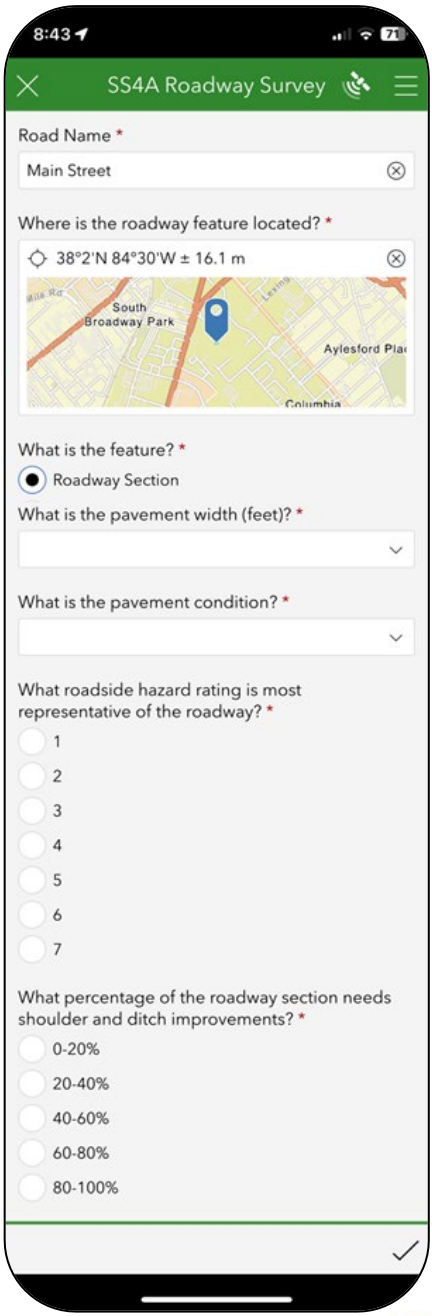
Additional information on each survey item can be found in their respective sections in this guide.

SURVEY123

1. Once the Survey is downloaded, it should display on your Survey 123 home screen. Select the survey to begin data collection.
2. To collect a data point, select “Collect” at the bottom of the screen. The survey page will appear as shown to the left.
3. Log the information about the feature based on guidance in the following sections.
4. Note that “feature location” information is automatically updated from the GPS of the mobile device.
5. Once completed, hit the checkmark in the lower right corner of the screen, then select save in outbox.



SURVEY123-Roadway



Roadway Section features collect general roadway characteristic information including 1) pavement condition, 2) pavement width, 3) Roadside condition and 4) shoulder condition. Roadway section data should be recorded periodically along the roadway whenever there is a significant change in one of these elements.

Pavement Width should be measured with a measuring wheel and recorded to the nearest foot.

The following sections provide detailed information on the remaining roadway section data information.

Once finished, take a picture showing the entire roadway cross section including pavement, shoulders and roadside.

SURVEY123-Roadway

Pavement Condition is rated based on the AASHTO Present Serviceability Rating Scale (PSR) based on rideability and visual inspection of the pavement.

Verbal	Description	PSR
Very Good	Only new, superior (or nearly new) pavements are likely to be smooth enough and distress free (sufficiently free of cracks and patches) to qualify for this category. Most pavements constructed or resurfaced during the data year would normally be rated very good.	5.0 4.0
Good	Pavements in this category, although not quite as smooth as those described above, give a first class ride and exhibit few, if any, visible signs of surface deterioration. Flexible pavements may be beginning to show evidence of rutting and fine random cracks. Rigid pavements may be beginning to show evidence of slight surface deterioration, such as minor cracks and spalding.	3.9 3.0
Fair	The riding qualities of pavements in this category are noticeably inferior to those of new pavements, and may be barely tolerable for high speed traffic. Surface defects of flexible pavements may include rutting, map cracking and extensive patching. Rigid pavements in this group may have a few joint failures, faulting and cracking, and some pumping.	2.9 2.0
Poor	Pavements in this category have deteriorated to such an extent that they affect the speed of free-flow traffic. Flexible pavement may have large potholes and deep cracks. Distress includes raveling, cracking, rutting, and occurs over 50 percent, or more, of the surface. Rigid pavement distress includes joint spalling, faulting, patching, cracking, scaling, and may include pumping and faulting.	1.9 1.0
Very Poor	Pavements in this category are in an extremely deteriorated condition. The facility is passable only at reduced speeds, and with considerable ride discomfort. Large potholes and deep cracks exist. Distress occurs over 75 percent or more of the surface.	0.9 0.0

SURVEY123-Roadway

Roadside Hazard Rating. Roadside Rating evaluates the presence of fixed objects such as trees and embankments near the roadway and the steepness of the roadside slope. Roadside hazards are rated on a scale from 1 being the best and 7 being unrecoverable.



RHR = 1 & 2

– Clear zone > 20 ft
– Sideslope ≥ 4:1.
– Recoverable.

RHR = 3

– Clear zone ~10 ft
– Sideslope 3:1 to 4:1.
– Rough roadside surface.
– Marginally recoverable.



RHR = 4

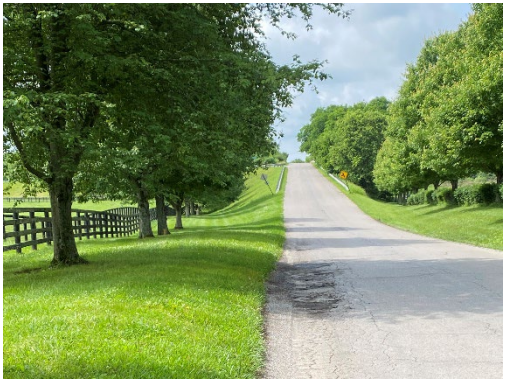
– Clear zone 5 to 10 ft
– Sideslope 3:1 to 4:1.
– May have guardrail (5 to 6.5 ft from road).
– Exposed trees, poles, or other objects (~10 ft from road).
– Marginally forgiving, but increased chance of a roadside collision.



SURVEY123-Roadway

RHR = 5

– Clear zone 5 to 10 ft
– Sideslope 3:1
– May have guardrail (0 to 5 ft from pavement edgeline).
– Fixed Objects within 6.5 to 10 ft of road
– Virtually non-recoverable.



RHR = 6

– Clear zone <5 ft
– Sideslope 2:1
– No Guardrail
– Fixed Object 0 to 5 ft
– Non-recoverable.



RHR = 7

– Clear zone <5 ft
– Sideslope 2:1 or steeper
– No Guardrail
– Fixed Object 0 to 5 ft
– Non-recoverable. High Likelihood of injuries or rollover



SURVEY123-Roadway

Shoulder and Ditch Improvements. For the roadway section being evaluating, indicate how much of the section needing improvements.

Proper shoulders and ditches should be have the following characteristics.

1. Edge drop off from pavement surface to roadside less than 3 inches.
2. Slope flatter than a 3:1 slope from road edge to ditch.
3. Adequate ditch width and depth to carry surface water. Not significantly impeded by debris and/or sediment.

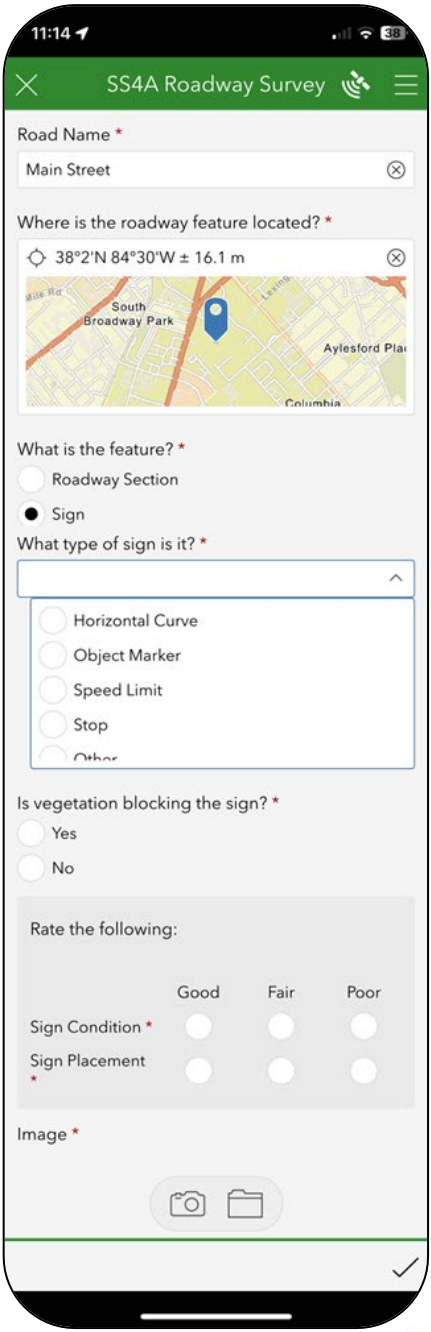




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SURVEY123-Signs



Log all highway signs along the roadway being surveyed. Any non-highway signs should be excluded.

Note: Object markers at bridges and large culverts should be logged with the bridge/culvert feature.

What type of sign is it?
Select the type of sign from the drop-down menu. If the type is not shown on the drop-down list, select other and describe in the notes section.

Rate the Sign Placement
Good. Near edge of sign is at least 2 feet from the edge of the roadway, plumb, and easy visible from the roadway.

Fair. Sign may be leaning, or 1-2 feet from pavement edge. Some minor vegetation may limit visibility of the sign.

Poor. Sign is less than 1 foot from edge or road, blocked by vegetation, or post is leaning and not secure in the ground and/or not oriented towards traffic limited visibility.

SURVEY123-Signs

Rate the sign condition

Good. Appear to be in new or like new condition and show little, if any, signs of deterioration and easy to read.



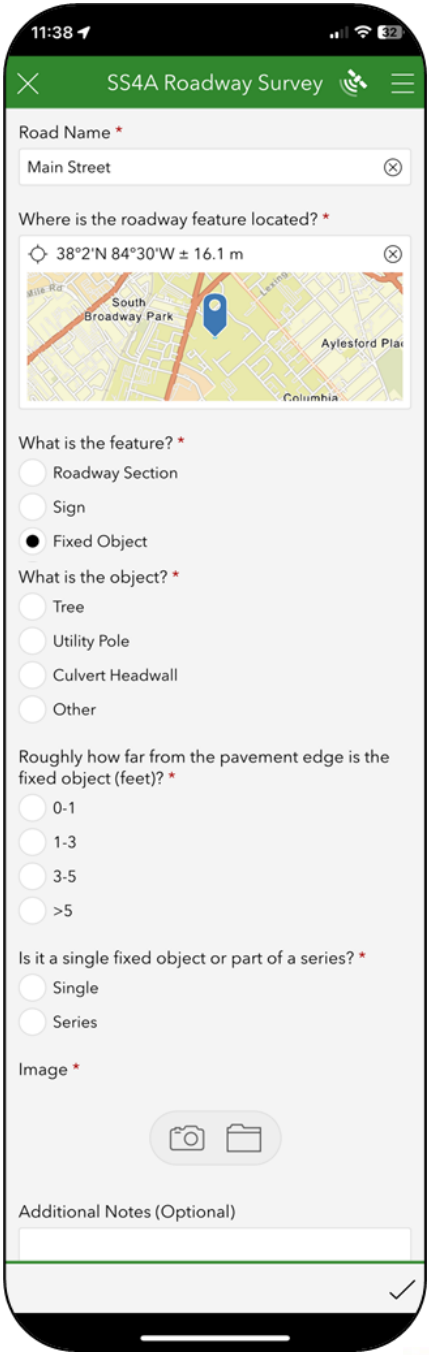
Fair. Some visible deterioration, not impacting legibility of the sign. Some common forms of sign deterioration are minor bending, cracking, fading, peeling, rusting, or vandalism.



Poor. Showing significant deterioration or sign is non-standard. The deterioration is impacting the legibility of the sign. Signs in this category need to be replaced.



SURVEY123-Fixed Objects



Log fixed objects that meet one or more of the following criteria:

- On straight sections, within 3 ft. of the pavement edge or within the ditch line.
- On the outside of curves, within 5 ft. of the pavement edge.
- Doesn't meet the above criteria but appears to be a significant hazard.

What is the object?

Select the type of fixed object from the list. If the object is not listed select other and describe in the notes.

Roughly how far from the pavement edge is the fixed object in feet?

Estimate the distance from the pavement edge to the nearest edge of the fixed object.

SURVEY123-Fixed Objects

Is it a single fixed object or part of a series?



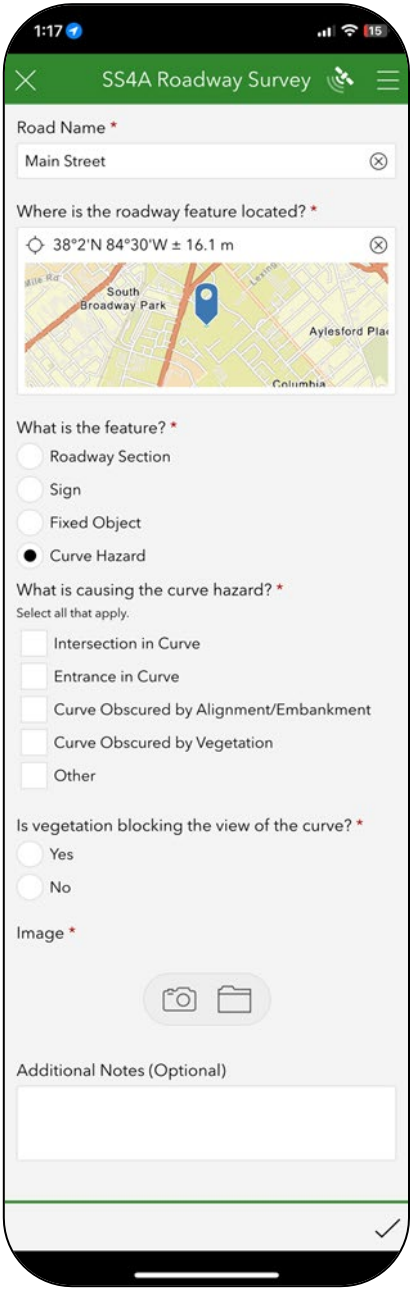
If there is just one object on the side of the road you are evaluating, select single. If there are a series of the same fixed object, select series. For example: A row of trees within 2 ft. of the pavement edge would be a series, a single tree within 2 ft. of the pavement edge would be a single fixed object.

Note: If a roadway has the same fixed object hazard for a significant portion of its length, log the object once and estimate the percentage of the roadway length which the hazard is present. Then, enter that estimate into the additional notes section. An example of this would be if a roadway has trees within 2 ft. of the pavement edge for approximately 15% of its length.





SURVEY123-Curve Hazards



Identify hazards at all significant horizontal curves. Hazards include sight distance restrictions, intersections and/or entrances within the curve or other hazards identified during the review. A sharp turn and/or curve itself is not considered a hazard and will be identified during the advisory speed runs.

SURVEY123-Curve Hazards

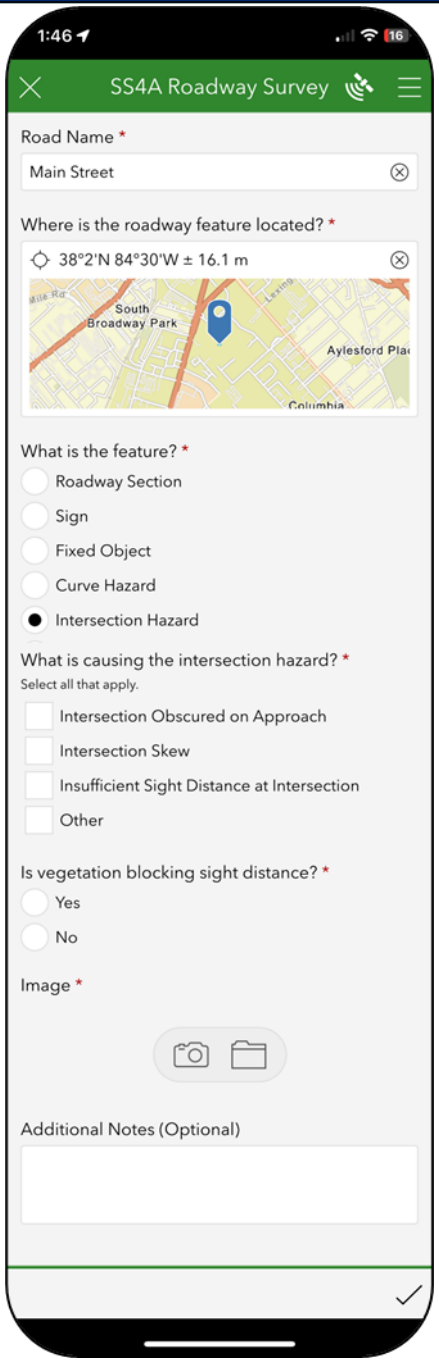


Intersection in Curve



Curve Obscured by Embankment

SURVEY123-Intersections



Log all significant intersections. Intersections where traffic on the focus roadway must stop or yield are considered significant.

Is there any intersection hazards?

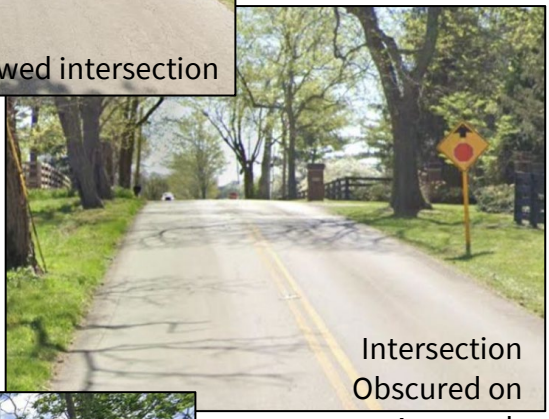
Log any hazards identified on the next page. If there is something about the intersection that appears hazardous but not listed, log it as other and provide a description of the issue.

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SURVEY123-Intersections



Skewed intersection



Intersection Obscured on Approach



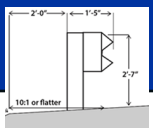
Restricted Sight Distance



Restricted Sight Distance

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SURVEY123-Guardrail



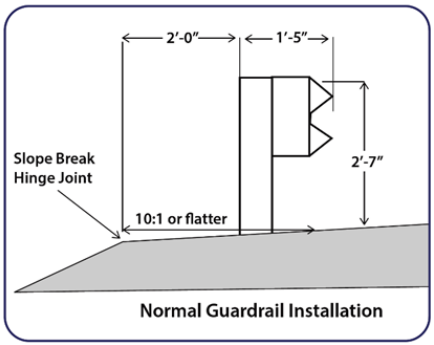


Log each guardrail segment along the roadway.

Note: Guardrail at bridges and large culverts should be logged with the bridge/culvert feature.

Condition Rating

Visually rate the guardrail to determine if it is in good repair and properly installed per the figure below.

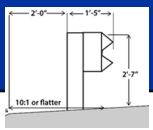


Good. Meets height requirements and no noticeable damage.

Fair. Minor visible damage, may or may not meet height requirements, but still serves as effective barrier.

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SURVEY123-Guardrail



Poor. Significant damage, does not meet height requirements, limiting utility.



Guardrail Warrants

Guardrail is typically warranted when the drop is greater than 10 feet and the backslope is steeper than 3:1. If you are unable to determine if a section meets warrants but it appears as if it may, indicate “maybe.”



End Treatments

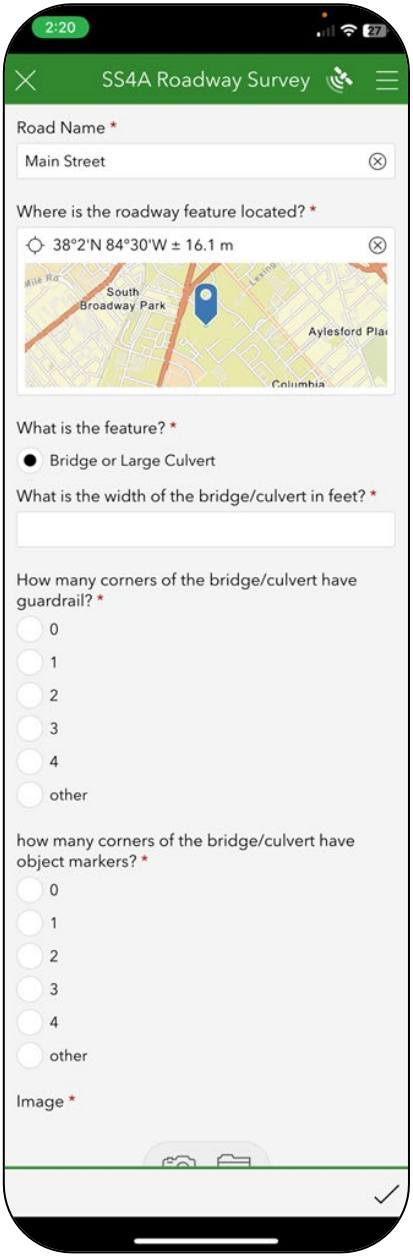
Indicate whether all, some, or none of the end treatments meet current guidelines. The three types of end treatments that meet current guidelines from the AASHTO Manual for Assessing Safety Hardware are shown below.


Type 3: Anchored in Backslope


Type 2A: Terminal Section out of Clear Zone


Type 1: Energy Absorbing

SURVEY123-Bridges



Log all bridges and large culverts along the roadway being surveyed. Large culverts are sometimes indistinguishable from a bridge from the roadway, they are generally made of concrete, square, and have openings that are 5+ feet diagonally. Figure X shows an example of a large culvert that would need to be logged.

What is the width of the bridge/culvert in feet?
Estimate the width between the inside face of both sides of the bridge/culvert. The yellow line on figure X shows an example measurement.

How many corners of the bridge/culvert have guardrail / Object Markers
Indicate how many corners of the bridge or culvert guardrail is attached to or protecting and/or marked with Object Markers.

SURVEY123-Bridges

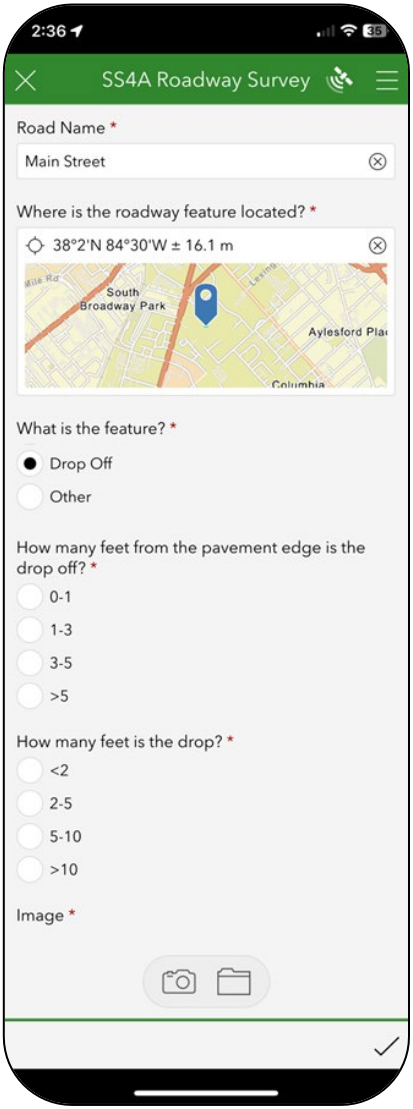


Large Box Culvert



Bridge Width Measurement

SURVEY123-Drop Offs



Log all significant drop offs along the roadway. Significant drop-offs are those that may injure a motorist if their vehicle departs the roadway where the drop off is located.

How many feet from the pavement edge is the drop off?

Estimate the offset from the nearest edge of the pavement to the beginning of the drop off.

How many feet is the drop?

Estimate the depth of the drop off from the pavement surface to its deepest point.

SURVEY123-Drop Offs

Drop Off Examples



Significant edge drop off due to driveway culvert/creek. Depth and offset measurements shown in y ellow.

Significant edge drop off due to steep slope. Creek at bottom of slope is greater than 10 ft. below road surface.





Insignificant edge drop off due to small culvert pipe. Do not log.

Contact Information

If you have any questions regarding the data collection or hazards found in reviewing the roadway, you may contact your Area Development District Transportation Planner at the information below.

ADD Name	Contact	Email
Barren River	Austin Sims	austin.sims@bradd.org
Gateway	Jocelyn Gross	jocelynr.gross@ky.gov
Bufallo Trace	Melissa Hardy	mhardy@btadd.com
Green River	Jennifer Alvey	jenniferalvey@gradd.com
Kentucky River	Scott Melton	scott@kradd.org
Lake Cumberland	Ian Cole	ian@lcadd.org
Lincoln Trail	Jake Zimmerer	jake@ltadd.org
Northern Kentucky	Jeff Thelen	jeff.thelen@nkadd.org
Pennyrile	Angela Herndon	angelas.herndon@ky.gov
Purchase	Jim LeFevre	jim.lefevre@purchaseadd.org

Should you need further assistance, please contact Adam Kirk at the University of Kentucky Transportation center at adam.kirk@uky.edu.

APPENDIX B: ROADWAY IMPROVEMENT GUIDES

Low-Cost Safety Measures

Both urban and rural areas are challenged with high crash rates. However, they face unique challenges when trying to resolve roadway issues. Often, rural areas struggle with funding, availability of engineering staff, and available resources. These limitations adversely affect rural roads.

The Federal Highway Administration (FHWA) recommends a few actions to mitigate this problem. Deemed Low-Cost Safety Enhancements[1] and Proven Safety Countermeasures,[2] these established methods lead to a 15-50% reduction in crashes. Low-cost and high-crash-reduction measures provide a significant benefit-to-cost ratio. Utilizing low-cost safety measures to reduce roadway departures helps to resolve a rampant problem without overrunning the budget.

The two main collision types on rural roads are collisions with other motor vehicles and collisions with fixed objects. Keeping a vehicle in its lane significantly reduces the risk of collision. There are many methods to ensure that a vehicle does not depart from the roadway. Striping, rumble strips, center line, edgeline, and signage are a few ways to minimize lane departure. Vegetation control can also play an important factor in preventing collisions and roadway departures.

# of curves	Less than or equal to 30 mph	Greater than 30 mph
1	 W 1-1	 W 1-2
2	 W 1-3	 W 1-4
3 or more	 W 1-5	 W 1-5

Curve Signing

Inadequate or improper signage is the leading reason for payouts related to collision or departure claims. Curve signing is used to advise motorists of changes in the roadway alignment. Advance warning signs, guidance through curves, and advisory speed plaques make up curve signing. For more information on curve signing and how to set appropriate advisory speeds for curves, see the TapIT! Sheets on Horizontal Alignment Signing and Setting Curve Advisory Speeds.

Roadway Width	Edgelines	Centerlines
<16 ft	Permitted	Prohibited
≥ 16 ft < 20 ft	Either EL or CL NOT both	
≥ 20ft	Required ADT > 1000	Required

Pavement Markings

Pavement markings are also effective in providing guidance for vehicles to negotiate a roadway. Even on narrow roadways, edgelines have proven to be effective in reducing both single vehicle and head-on crashes by providing demarcation of the road edge for drivers at night. Edgeline only striping is recommended for roadways with crash potential or experience for roadways under 16 feet and may be used on roadways between 16-20 ft in width. For low-volume roads under 400 vpd, edgeline striping may be more beneficial than centerline striping due to the low exposure for multi-vehicle crashes.

Clear Zones

Maintain an unobstructed, relatively flat area beyond the edge of the traveled way that allows drivers to stop safely or regain control of a vehicle that leaves the traveled way. Factors include roadway design speed, traffic volume, and embankment slope. As a general rule, get as much clear zone as you can, and keep what you get.

Recoverable Slope	Non-Recoverable Slope	Critical Slope
A slope on which a motorist may retain or regain control of the vehicle	A slope that is considered traversable but on which the bottom errant vehicle will continue to the bottom	A slope on which the vehicle is likely to overturn
Slopes 4:1 and flatter	Slopes between 3:1 and 4:1	Slopes steeper than 3:1

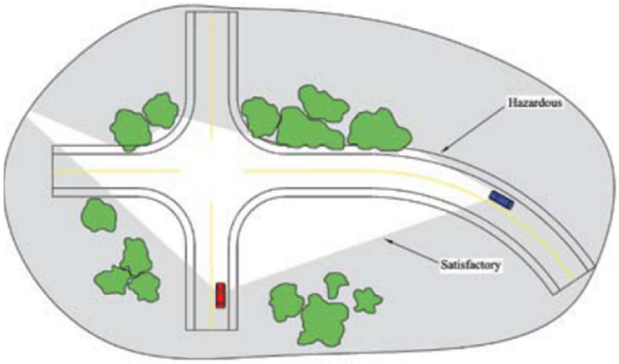
Fixed objects in the clear zone include trees, utility poles, headwalls, signs, guardrails, etc. These fixed objects often result in fatal crashes.

To address clear zone impediments, the following priority of mitigation measures should be followed:

Remove obstacle → Relocate obstacle → Make traversable → Reduce impact severity → Shield obstacle → Delineate obstacle

Vegetation Management

Clearing vegetation around signs and intersections is one of the most cost-effective safety measures you can take. It will also help with snow and ice removal by allowing more sunlight to reach the roads. Consider sight triangles as guidance as to how much vegetation should be cleared.



Roadway Maintenance

Consider drainage, pavement edge dropoff/shouldering, and superelevation as additional low-cost safety measures. Drive your roads during poor weather conditions to look for potential hazards. Use the Safety Edge or other dropoff countermeasures to ensure recoverability.

1. Low-Cost Safety Enhancements for Stop-Controlled and Signalized Intersections, Federal Highway Administration. 2020. https://safety.fhwa.dot.gov/provencountermeasures/syst_stop_control.cfm
2. Proven Safety Countermeasures, Federal Highway Administration. https://highways.dot.gov/safety/proven-safety-countermeasures

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Horizontal Alignment Signing

Horizontal Alignment Signing

Implementing low-cost safety measures for rural roads is vital to reduce roadway crashes and deaths. One of the largest proven countermeasures for reducing fatal crashes is to address single vehicle crashes near horizontal curves. Twenty percent of all crashes occur at curves, and these crashes account for 40 percent of all fatal crashes. Furthermore, inadequate or improper signage is the leading reason for payouts related to collision or departure claims.

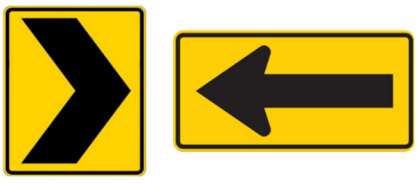
Horizontal alignment signing is used to advise motorists of changes in the roadway alignment consisting of advance warning signs, guidance through curve, and advisory speed plaques.

# of curves	Less than or equal to 30 mph	Greater than 30 mph
1	 W 1-1	 W 1-2
2	 W 1-3	 W 1-4
3 or more	 W 1-5	 W 1-5

MUTCD Chapter 2C provides guidance on the use of Horizontal Alignment signing and establishes standards for roadways having an Average Daily Traffic (ADT) of over 1,000 vehicles. While not required on roadways with lesser traffic volumes, improved signing can address high crash locations or be used to proactively reduce crashes on horizontal curves. MUTCD guidance is summarized below.

Advanced warning signs, such as the W1-1, W1-3 and W1-5, and advisory speed plaques (W13-1) are recommended on curves where the posted or 85th percentile speed is 5 mph or greater than the advisory speed and required when 10 mph or greater than the advisory speed. The specific type of advanced warning sign to be used is shown in the figure to the right. Advanced warning signs should be placed far enough in advance of the hazard to allow the sign to be seen and for a driver to decelerate to the appropriate speed. The table summarizes how far in advance signs should be placed before a horizontal curve based on the approach speed and advisory speed.

Speed	Advisory Speed (mph)				
	10	20	30	40	50
20 mph	100 ft	—	—	—	—
25 mph	100 ft	100 ft	—	—	—
30 mph	100 ft	100 ft	—	—	—
35 mph	100 ft	100 ft	100 ft	—	—
40 mph	100 ft	100 ft	100 ft	—	—
45 mph	125 ft	100 ft	100 ft	100 ft	—
50 mph	200 ft	175 ft	125 ft	100 ft	—
55 mph	275 ft	225 ft	200 ft	125 ft	100 ft
60 mph	350 ft	325 ft	275 ft	200 ft	100 ft
65 mph	450 ft	400 ft	350 ft	275 ft	200 ft
70 mph	525 ft	500 ft	450 ft	375 ft	275 ft
75 mph	625 ft	600 ft	550 ft	475 ft	375 ft



Guidance signing, including chevrons (W1-8) and/or One-Direction Large Arrows (W1-6), are recommended when the posted speed limit is 10 mph or greater than the advisory speed and required when 15 mph or greater. Guide signs should be oriented toward approaching traffic and spaced consistently so that two or more chevrons can be seen at one time. The table on the next page provides a summary of chevron spacing requirements, based on the posted advisory speed.

Advisory Speed	Chevron Spacing
15 mph or less	40 feet
20 to 30 mph	80 feet
35 to 45 mph	120 feet
50 to 60 mph	160 feet
More than 60 mph	200 feet

The first figure below shows a standard signing layout for a roadway with a posted speed of 55 mph and a curve advisory speed of 35 mph. In this example, advanced warning signs (W1-2) are placed 200 feet in advance of the horizontal curve. Chevrons are then used to provide additional guidance through the curve and are placed with a spacing of 120 feet apart. The second figure shows enhanced signing, which provides dual mounted advanced warning signs and adds dual-mounted supplemented signs at the point of curvature. Note that the supplemental signs (W1-2a) which show alignment and posted advisory speed can only be used at the point of curvature and NOT as an advanced warning sign.





For more information on setting advisory speeds for horizontal curves, see the "Setting Advisory Speeds" TapIT! Sheet.

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Setting Curve Advisory Speeds

Setting Advisory Speeds



When a roadway has a curve and/or turn that requires motorists to slow down to safely negotiate it, advanced warning signs are used to identify the hazard to the roadway users. Central to proper signing is identifying the "safe" speed that a driver can negotiate the curve. This is called the "advisory speed." When the posted or 85th percentile speed of the roadway is greater than 10 mph over the advisory speed, the MUTCD requires that an Advisory Speed Plaque is installed with the advanced warning sign. Several methods exist to set advisory speeds including 1) accelerometer, 2) design speed equations, and 3) a traditional ball-bank indicator. The ball bank indicator is the most common and quickest method to determine advisory speeds for a small number of curves.

Ball Bank Indicator

The ball bank indicator (BBI), shown to the right, measures the horizontal forces as a vehicle maneuvers through a curve. These forces are dependent upon the speed of the vehicle and the superelevation (or bank) of the roadway. Measurements are expressed in terms of degree of deflection with which the "ball" travels through the curve. Manual BBIs have been replaced by the digital Ball Bank Indicator which provide measurement based on the same principal.



Using a Ball Bank Indicator:

1. Mount the ball bank indicator in the vehicle when the vehicle is stopped on a level surface so that the BBI reads 0.
2. Drive through the curve at a consistent speed (e.g. 35, 30, 25, 20 mph). Perform test in each direction, and in each lane, multiple times, due to variations in path, pavement condition, etc.

Speed (mph)	Degrees of Bank
≤20 mph	16°
25 - 30 mph	14°
≥35 mph	12°

Tests should be performed at 5 mph decreasing increments starting at the posted speed until the ball bank deflection remains within limits set in the table at left. When a run can be successfully completed without exceeding these values, this speed is chosen as the advisory speed.

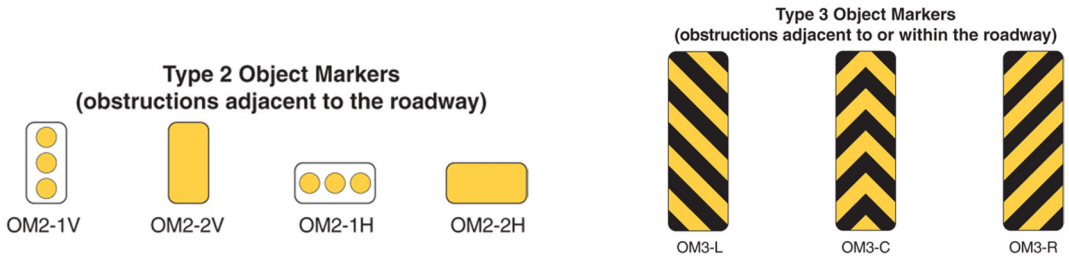
Learn more in the Horizontal Alignment TapIT! Sheet.

Object Markers

On low-volume roadways, it may not be cost effective to remove or relocate fixed objects within the clear zone due to their prevalence and the lower speeds associated with the local road system. In those cases, object markers are recommended by the MUTCD to demarcate roadside obstacles.

The MUTCD provides standards for Type 2 and Type 3 markers as shown in Figure 1. It is recommended that Type 3 object markers be used to mark significant obstacles directly adjacent to the roadside, such as culvert headwalls, while Type 2 markers may be used to delineate frequent occurrences such as utility pole locations.[1]

Figure 1: MUTCD Object Marker



The recommended minimum height for object markers is lower than standard signing, with a minimum height of 4 ft above the edge of the roadway. This lowered height allows for the object markers to be within the direct eye line of the driver and indicate the obstacle position relative to the vehicle. Additionally, when placing Type 2 and Type 3 object markers, the near edge of the object marker should be placed in-line with the near edge of the obstacle to provide further guidance to the driver. Figure 2 delineates the application of object markers on a roadway.

Figure 2: Object Marker Application





1. Manual on Uniform Traffic Control Devices, Federal Highway Administration. 2009. https://mutcd.fhwa.dot.gov/

Guardrail

Guardrail may be used to protect against critical slopes and/or fixed objects. Guardrail is in and of itself a fixed object, so it should be placed with consideration. Guardrail should meet crashworthy standards in all placements. Guardrail should be considered on slopes steeper than 3:1 with a fill height over 10 feet. To give vehicles sufficient opportunity to recover without impacting an obstacle, guardrail should be placed as far away from the traveled way as is practical. Additional guidance on guardrail should be sought from the AASHTO Roadside Design Guide.

Barrier Installation

To protect against rollover crashes, guardrail should be 31" (±1") above the road surface and should have a minimum of 2' soil backing at a slope of 10:1 or flatter. If placing 2' of fill material behind the barrier is not practical, longer post lengths may be used.

Barrier End Treatments

If the end of the barrier system/guardrail is located within the clear zone, it must be anchored and shielded with end treatments. Guardrail end treatments are frequently used to minimize the severity of impacts with fixed objects by gradually decelerating an impacting vehicle to a stop or redirecting it around the object of concern. Barrier end treatments should comply with MASH guidelines.

The preferred end treatment for guardrail sections is to anchor the guardrail in a backslope terminal, known as a Type 3 end treatment, at appropriate height. If the guardrail can be anchored out of the clear zone, an anchored end treatment Type 2A may be used, which installs a terminal Section No. 1. When these types of end treatments are not feasible, a Type 1 (Energy Absorbing Straight-Line Terminal) is preferred.







A Type 7, commonly known as a turn down end treatment, does not meet MASH crash guidelines and is only permitted on low speed / low volume roadways. These should be used only when adequate recovery zones are unavailable for other preferred end treatment types.

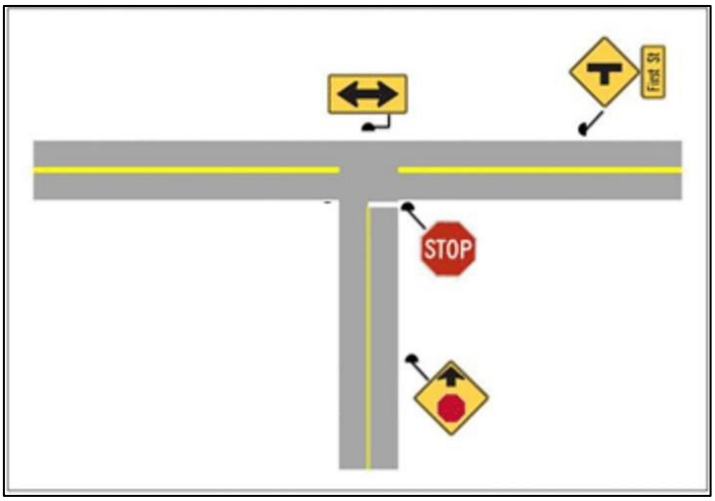
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Stop-Controlled Intersections

Stop-Controlled Intersections

Stop-controlled intersections are the most prevalent form of intersection traffic control on Kentucky's roadway. Additionally, common intersection crash types, such as angle and left turn crashes, have a high severity rate due to the speeds involved in the crash. Often, stop-controlled intersections have minimally-placed traffic control, particularly at 'T' intersections.



At 'T' intersections, especially in unlit areas, the presence of the intersection may be even more difficult to discern for some drivers. In addition to the risk associated with entering the intersection, fixed object crashes if a driver proceeds through a 'T' intersection are common. A Two Direction Large Arrow sign (W1-7) is a low-cost method to reinforce stop control at 'T' intersections.[1]

In cases where vegetation partially or fully blocks existing signs, vegetation should be trimmed back. In cases whether other sight distance limitations exist, such as horizontal or vertical curves, advance traffic control signs like stop ahead signing (W3-1) should be used. For intersections with persistent crash history or demonstrated high frequency/high severity of crashes, dual mounted signing may be utilized.

Pavement Markings

In addition to signing, pavement markings, specifically painted stop bars, can be effective in delineating the intended stopping point of vehicles at intersections and indicating the presence of the intersection. While pavement markings can present additional maintenance requirements, they are recommended for installation at:

1) Wide or skewed access points and intersections with curves which increase driver uncertainty as to the intended stop location
2) Intersections or on corridors with a documented intersection crash history
3) Intersections with high exposure for severe crashes, such as high volume/high speed uncontrolled cross streets (e.g., state highways or low-volume county roadways)

1. Manual on Uniform Traffic Control Devices (MUTCD), Federal Highway Administration. 2009. https://mutcd.fhwa.dot.gov/

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Wet Weather Crashes

Wet Weather Crashes



Wet or icy pavement conditions are a frequent contributing factor to crashes in Kentucky. When wet conditions are shown to contribute to a high incidence of crashes (wet pavement in over 50 percent of crashes) mitigation measures are often warranted. Determining the incidence rate of wet weather crashes can be done by examining crash data statistics for your area. Potential treatments for wet weather crashes include the following:

Improved Drainage

Improving drainage may impact roadway conditions during wet weather events. Clogged or absent drainage culverts and/or vegetation growth preventing water from reaching the ditch can both impact roadway conditions. Superelevation and rutting may also impact roadway conditions during heavy rain.

High Friction Surface Treatment (HFST)

Installing High Friction Surface Treatment (HFST) can increase surface friction during wet weather events, where worn or polished pavement has been identified as being a significant contributor to the crash.[1]

Areas identified as having a higher concentration of wet weather crashes should be observed during significant rain events to identify areas of ponding and/or excessive sheet flow. If no drainage issues are identified, friction testing is recommended to determine if HFST would be a suitable mitigation measure.



At left, superelevation on the roadway and rutting on the shoulder contribute significantly to ponding water on the inside of the curve.

1. High Friction Surface Treatments (HFST), Federal Highway Administration. 2022. https://safety.fhwa.dot.gov/roadway_dept/pavement_friction/high_friction/

APPENDIX C: PUBLIC SURVEY

Barren River Area Development District

The Barren River ADD is currently developing a Safety Action Plan for Allen, Barren, Butler, Edmonson, Hart, Logan, Metcalfe, Monroe, Simpson, and Warren counties. This survey will be combined with crash analysis and local agency review of roadways to identify potential safety issues on county roadways. Once identified, the ADD and local counties will work to identify countermeasures to improve safety. The Safety Action Plan will then be used to direct local forces and funds and pursue additional funding available from the Kentucky Transportation Cabinet and USDOT.

BARREN RIVER
AREA DEVELOPMENT DISTRICT

SAFETY SURVEY

This survey collects general demographic information and seeks information about overall safety trends within your area. Please answer the questions below and click SUBMIT at the end of the survey. In the next section, you will be able to identify specific areas of concern on the roadway system.

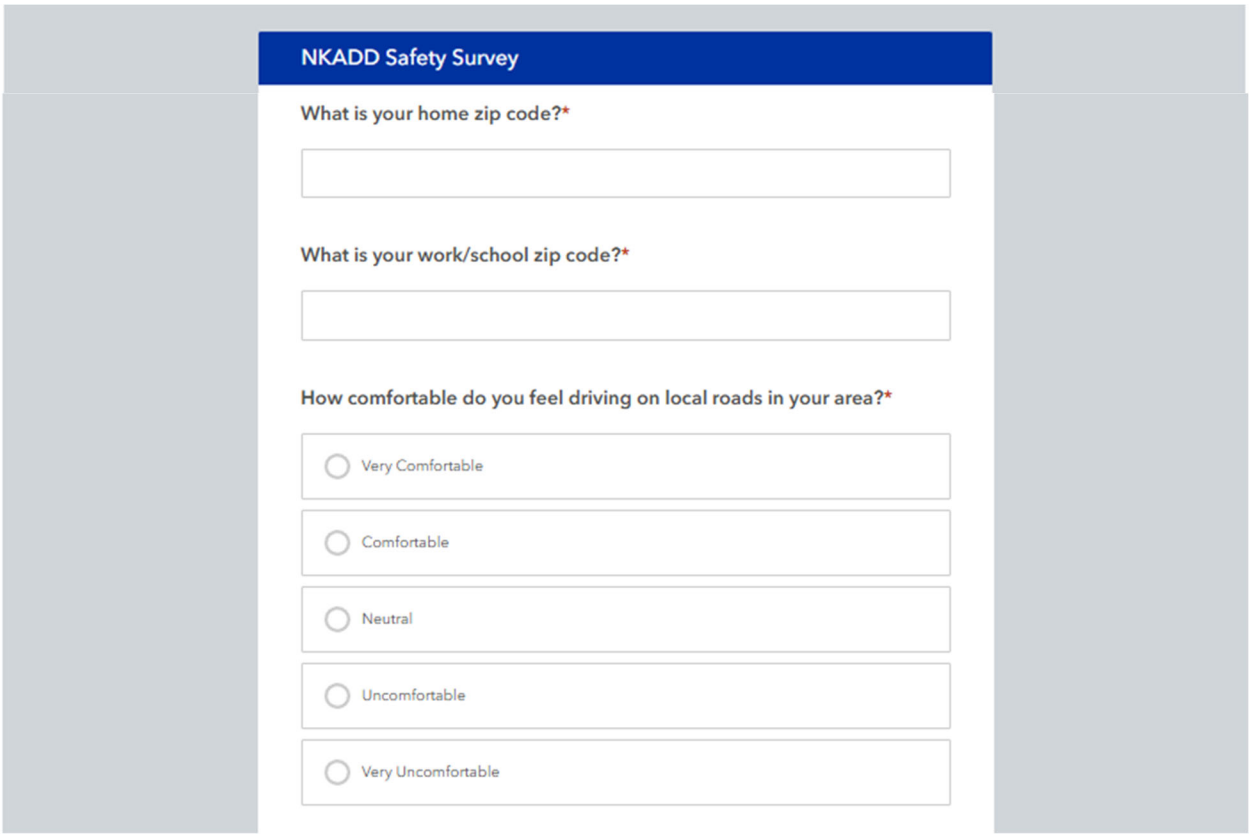
BRADD Safety Survey

How old are you?

- ○ Under 25
- ◉ 25-44
- ○ 45-69
- ○ 70+

What is your employment status?*

- ○ Full-time
- ○ Part-time
- ○ Student
- ○ Stay-at-home
- ○ Retired
- ○ Unemployed
- ○ Other



NKADD Safety Survey

What is your home zip code?*

What is your work/school zip code?*

How comfortable do you feel driving on local roads in your area?*

- Very Comfortable
- Comfortable
- Neutral
- Uncomfortable
- Very Uncomfortable

BRADD Safety Survey

What are your top five safety concerns in your area.*

- [ ] Distracted driving
- [ ] Aggressive driving
- [ ] High speeds
- [ ] Limited Sight Distance
- [ ] Unmaintained Roads
- [ ] Narrow Roadways
- [ ] Roadside Objects (Trees)
- [ ] Blind Curves
- [ ] Sharp Curves
- [ ] Blind Intersections
- [ ] Pavement Drop Offs
- [ ] Lack of Pedestrian Facilities (Sidewalks)
- [ ] Lack of Bicycle Facilities (Bike Lanes)
- [ ] Other

What is something that you would like this plan to focus on to make roadways safer in your area?

255

Submit

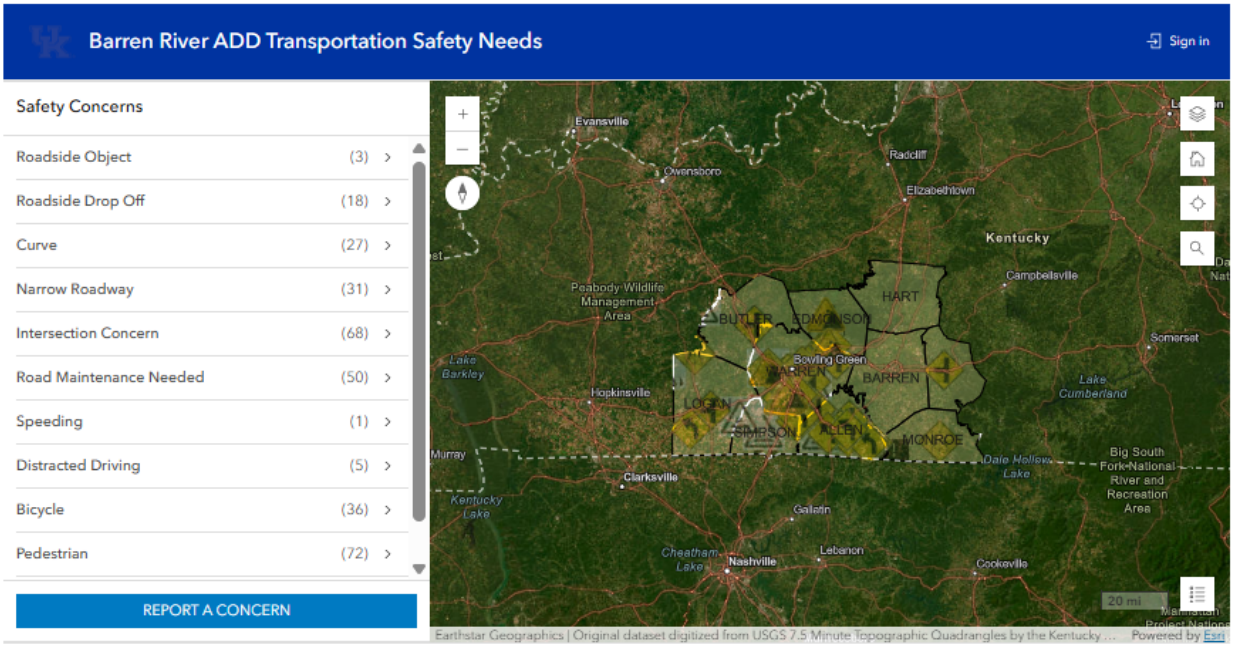
Powered by ArcGIS Survey123

IDENTIFY A SAFETY CONCERN

On the map below you can identify areas of concern or propose solutions for areas viewed as safety hazards on local roadways. This project is primarily looking for issues on county and/or city maintained roadways; however, concerns on other agency roads will be shared with those agencies. Follow the steps below to report a safety concern:

1. Click "Report a Concern" at the bottom of the map,
2. Select the type of concern (Speeding, Roadside Drop off, etc.)
3. Zoom into the map and locate the roadway / concern.
4. Click on the map where you suspect the issue to be.

To watch an instructional video on how to use the interactive map, click here.



Barren River Area Development District Public Survey

What is something that you would like this plan to focus on to make roadways safer in your area?
Making roadways, especially busy two-lane roads, wider.
Maintenance of County subdivision streets -- no maintenance in over 10 years to my neighborhood streets (outside of City limits). Improved walkability and bike lanes. Improvements in stormwater management in County. Street crossing signals in downtown.
More signs needed and more gravel or asphalt put in drop off and curves
The main street through Franklin has become very congested and problems with lots of tractor trailer trucks using main street instead of the intended bypass of 1008
Clearing overhanging trees and large branches
Better access during flood periods
Widening of county roads. More invasive patrolling by law enforcement to slow down drivers. Limiting the number of large commercial trucks coming down Main Street in the downtown area.
Money to Blacktop county roads. Maintain the the roads we got. Chip Seal is not the way to go. Rather have good gravel. Plus all roads need that white lines near the shoulder.
Grading edge of county roads to divert water
speed management and safer intersections
Keeping large semi-trucks off certain roadways.
Mandate handsfree driving
Sidewalks
Widen roadways, and work on the blind curves.
There are certain areas that need pedestrian access in the city of Tompkinsville. Areas that come to mind are from the city to the Tompkinsville Housing Authority, Monroe Co Middle and High Schools, and the local Community Access Shelter.
SIDEWALKS in the city limits!!!!!
roundabout intersections to increase flow and eliminate distraction normally enabled at traffic signals
enforcement of speed limits/road signs
State and County does not install gravel shoulders on roads anymore. Both exit ramps at exit 38 are too short. At peak times motorists are setting in the slow lane of I-65 trying to exit off to go to Buc'ees.. A major accident waiting to happen.
Pavement striping and reflectivity. Improve street lighting. Crosswalk painting standards are too low. We need better signage approaching intersections and ramps. Signal timing and traffic light technology improvements.
Increase separate bike/ped multiuse paths Improve pavement markings, crosswalks On road bike lanes w/ delineators, curb, reflectors Bike lane barrier Improve pavement markings More roundabouts Reduce congestion, alternative avenues Public engagement
Improved road maintenance
Widen some of the roads to make it easier to meet and pass oncoming traffic.
Limited funding limits proper and timely maintenance of roads. I would like to see a focus on increasing funding for maintenance of County owned roadways, especially for our poorer counties.
More traffic lights where needed. Enforced speed limit. Fix existing roads for pot holes and other surface problems
Wider roads in agriculture sensitive areas.

Barren River Area Development District Public Survey

What is something that you would like this plan to focus on to make roadways safer in your area?
Bicycle lanes marked and accessible to cyclist. New and upgraded sidewalks are also needed.
STRAIGHTEN THE CURVES ON WATERMELON ROAD BETWEEN JB SHACKLEFORD RD AND OLMSTEAD ROAD
Better sidewalks and speed limits enforced
sink hole/ bad water damage at bottom of health department driveway
More sidewalks on State roads
Sidewalks from to our homeless shelter to town. Sidewalks on roads on both sides from middle and high school to town and to apartments off of MO Lane.
Mandatory Driver's Ed during permit driving Guardrails on roadways with little to no shoulder
Bridge in front of the nursing home
We need wider roadways and bridges
Better lighting
I'd like to see the downtown road markings painted more frequently. I would like to see a caution light at the fairgrounds intersection.
Pedestrian downtown BG need to learn how the crosswalks work, they don't use the buttons & cross whenever they want to. Bike lanes next to cars, not a good idea, daily I follow people who drive in the bike lanes. Cellphones are one of the biggest issues!
Narrow Roadways
Cellphone usage stopped, keeping roads in better condition throughout the city and county.
Lighting at night in some road ways and intersections.
Lighting at Bypass intersection
We have no shoulders on most of our roads in Monroe County - including the notorious Highway 63 "Rollercoaster." Instead, we have a 2-3 in drop from the pavement. Scotty's has made a real mess of the edges, including coming into people's driveways.
There are blind intersections where the bank or guardrail could be moved back. The road is not flat like the asphalt (or type) is not thick enough, there are issues with banking around curves like it wants to throw you around and the drainage for water.
Work to eliminate blind entrances due to vertical/horizontal curves on KY 100 East in Allen County. Add another I-65 interchange in the Plano/Woodburn area. Add a Natcher interchange at Elrod Rd. Replace as many 4-way stops with roundabouts as you can.
Side and backroads need attention.
Incorporation of bike lanes, greenways, and better maintained surfaces.
Sidewalks
I think that any help on roadways would be appreciated. There are little to no sidewalks. Some roads are in terrible shape. Hope you come to Monroe Co.
From Gamaliel to Glasgow on 249 the bridges need to be made wider. There are six from the time you leave Gamaliel and get to Barren County High.
Wider roads & less curves.
Maintain roads by having ditches so water runs down the ditch instead of the middle of the road. A few more years we will all need a 4x4 if they don't do something.
Fixing shoulders of the roads
widening of roads to allow for the actual volume of traffic would be extremely helpful
Slow down

Barren River Area Development District Public Survey

What is something that you would like this plan to focus on to make roadways safer in your area?
Rods are well maintained but I think there should be protection on the sides of the road to avoid going over the side and down a steep incline.
Widen some of the rural roads that are not really wide enough for 2 way traffic. Pain the white line on the ditch side of all roads for better driving at night.
Areas that need gaurdrails
Require rubber shoes on Amish horses
Our country has done a very good job clearing trees and brush from the sides of roads. It needs to continue.
Highway 90 in Summer Shade needs traffic diverted. It is very dangerous crossing the road as people are usually driving over the35 mph speed limit.
One concern in Edmonton is the intersection off Main st near Gallagher's auto and Family Dollar. Difficult visibility due to angle of cars entering main st and difficult turn for semis. This is their truck route. At reservoir it is narrow and bad bend
Fixing blind spots where ending and pulling out of side roads fixing bad roads
Sidewalks and bike lanes increase shoulder space on roads
More funding to maintain the roads we have, e.g. Stop building so many new ones, rehab existing ones and widen or improve locations.
Clarence O Dell Rd needs better shoulders. There are several pavement drop offs. Gale Stiles road needs repaving. The pavement has severe alligator cracking as well as ruts from heavy farm equipment and trash collection trucks.
Within the city limits. We are in great need of more pedestrian sidewalks. There are many residents of our town that are walking on the side of the road, thus causing a very dangerous situation for not only those that are walking but also driving.
"Share The Road" signs are only clutter, and TARGETS. At very least, roads should have enough shoulder for a bicycle to still BE ON the pavement when being passed in both directions. MOTORIZED bicycles, even electric, should require driving tests.
Too many folks are driving while preoccupied with their phones. Road infrastructure must be implemented to force drivers to pay attention. More trees, narrowing of roads, street art - whatever it takes to get these people to stay off the tech!
Law enforcement to give out more tickets for aggressive driving.
Additional bike/ped facilities, including on main arterial roads. There has been an increase in bike/ped fatalities in Warren County in recent times and this is a huge concern.
Dedicated crews for ditching and shouldering County wide. Repave roads and fix horizontal and vertical curves. Remove stoplights and add roundabouts where applicable. Abandon bike lanes. No one uses them and they should be on greenways.
More tickets for going through Red lights. It is a terrible habit in town and as most people never get a ticket everyone else feels more comfortable getting away with it. Especially on Nashville road at the 165 bridge/ exit and Cave Mill road lights.
I would like sidewalks in all residential areas starting with the Briarwood/Indian Hills neighborhoods.
New striping on roadways 3000-4000 block of smallhouse rd in Bowling Green
too much traffic for roads not designed for the number of cars
greenways
repairing potholes and having more overlay projects on rural roads widening shoulders on rural roads adding reflective striping on rural roads for rainy conditions
The traffic light system needs to be redone. Lights are mis-timed and it creates flow issues which leads to tempers and careless driving.

Barren River Area Development District Public Survey

What is something that you would like this plan to focus on to make roadways safer in your area?
keep building in the county but county roads are not designed or built for the number of homes.
widen roads, marking of the roads, keeping roadsides mowed
More sidewalks, especially on Elrod Road, and more cops watching for distracted driving... too many people are looking at their phone while they drive.
Make some of the Warren County roads wider; a great example is Hwy 526/Mt. Olivet Rd. Also eliminating some of the dangerous curves.
Wider shoulders on the roads
Some roads and bridges in our area are very narrow. These could be widened.
I'd love to see this plan prioritize protected bike lanes that give cyclists safe, confident access in and around BG—ideally connecting into nearby counties. It's a step that could benefit individuals and the community as a whole.
Put some reflectors on the roadways so we can see the lines on the pavement. Can't tell if I'm driving on the sidewalk or into oncoming traffic if it rains at night. I know it's not just me because I've heard others commenting about the poor markings.
Separate bicycles from vehicle traffic, please. This can be accomplished by: 1) adding paths for bikes parallel to existing roads; and 2) prohibiting bikes from using dangerous, narrow, and very, very busy roads.
We need speed zones better marked with more signage. So many roads don't have speed limit signs posted or with several miles in between speed signs. People don't know how fast or slow to drive in many areas...especially in the county.
Police enforcing the actual traffic laws. So few citations since COVID
It's mostly a people problem that has occurred over time that you cannot fix. Improving infrastructure for pedestrians and cyclists would be huge.
People cut through neighborhoods to avoid main road traffic - make main thoroughfares more efficient!
Right of Ways width and drainage of ditches.
Intersections = roundabouts and other new ideas
Expanding roadways & new purchases. We live off a very narrow road on an even more narrow dead end road. We pay a lot in property taxes but don't see improvements on our road. The other road has had 5 new sales/builds in the past year but no road changes.
Improve pedestrian crossings on Scottsville Rd. between hotels/apartments/dwellings and amenities. Also enforce 65 mph and 55 mph zones on Scottsville Road coming into BG from Allen County.
sidewalks
Our school kids need proper crosswalks near the school for them to safely cross the roads to get to home, work, or their after-school hangouts. It is so dangerous to watch them dodge cars on the curvy road to scurry across (Main Street in Bownsville, KY).
Ways to reduce speeders coming into the downtown area on 31W. Ways to add sidewalks from hwy 31W to Jim Roberts Community Park. There are a lot of walkers on this road from the resident homes in the area walking to town or to the park.
I think shoulders for roads need to be bigger and better maintained in our area. There are steep drop offs in some areas and I have fallen off due to large truck traffic. Many road patches are not smooth and be installed more level/smooth.
More protected infrastructure for bike/peds and campaign and/or enforcement against distracted driving.
The intersection on the new bypass concerns me. There are blind spots and it's very concerning.
Build the Four-Lane between Logan Aluminum and Central City. 431N is a death-trap as seen repeatedly over & over. All other roadways have been given funding to fix the roads, but you cannot drive on 431N without meeting highspeed heavy-haul Semi-Trucks
Fix blacktop roads. 1). McDonald Rd Adolphus, KY. 42120. 12yrs+ & not fixed. Needs repaving!fixed. A blind curve, section of rd fell apart/hazard! Everyone takes opposite side of rd 2miss the broken sections, there has almost been head on collisions.

Barren River Area Development District Public Survey

What is something that you would like this plan to focus on to make roadways safer in your area?
Not safe to walk or drive on my rd. Blind curve. Road has n/ been maintained or fixed in over 15yrs. Blacktop really needs repaved. School buses & drivers on rd always in danger in blind curve/broken blacktop. Please fix. McDonald Rd. Adolphus, KY.
Walking lanes and/or signs to watch for pedestrians would be extremely useful, especially in areas without sidewalks. I would also love to see a project that works to connect existing sidewalks which are often separated by awkward gaps.

APPENDIX D: ALLEN COUNTY SAFETY ACTION PLAN

Allen County Overview

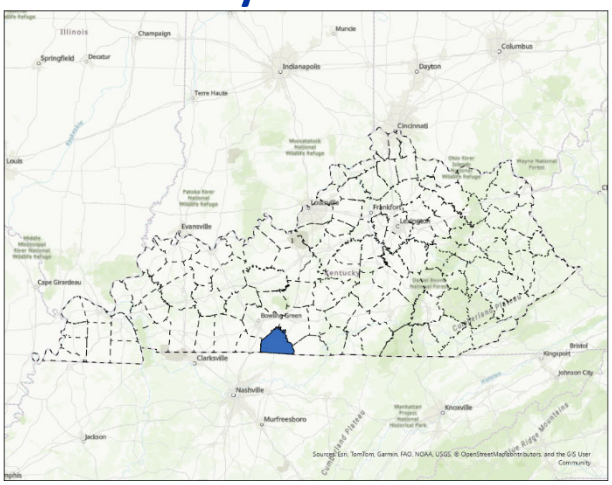


Exhibit Allen-1: Location Maps

Key Information Table Allen County	
Population	21,788
Population in Persistent Poverty	20%
Underserved Community	**No**
Fatalities (All Roads)	26
Fatalities (County Roads)	2
Fatality Rate per 100,000 persons	**119.33**
County Road Mileage	446.2
State Road Mileage	206.8
Total Mileage	**653.0**

Exhibit Allen-2: Key Information

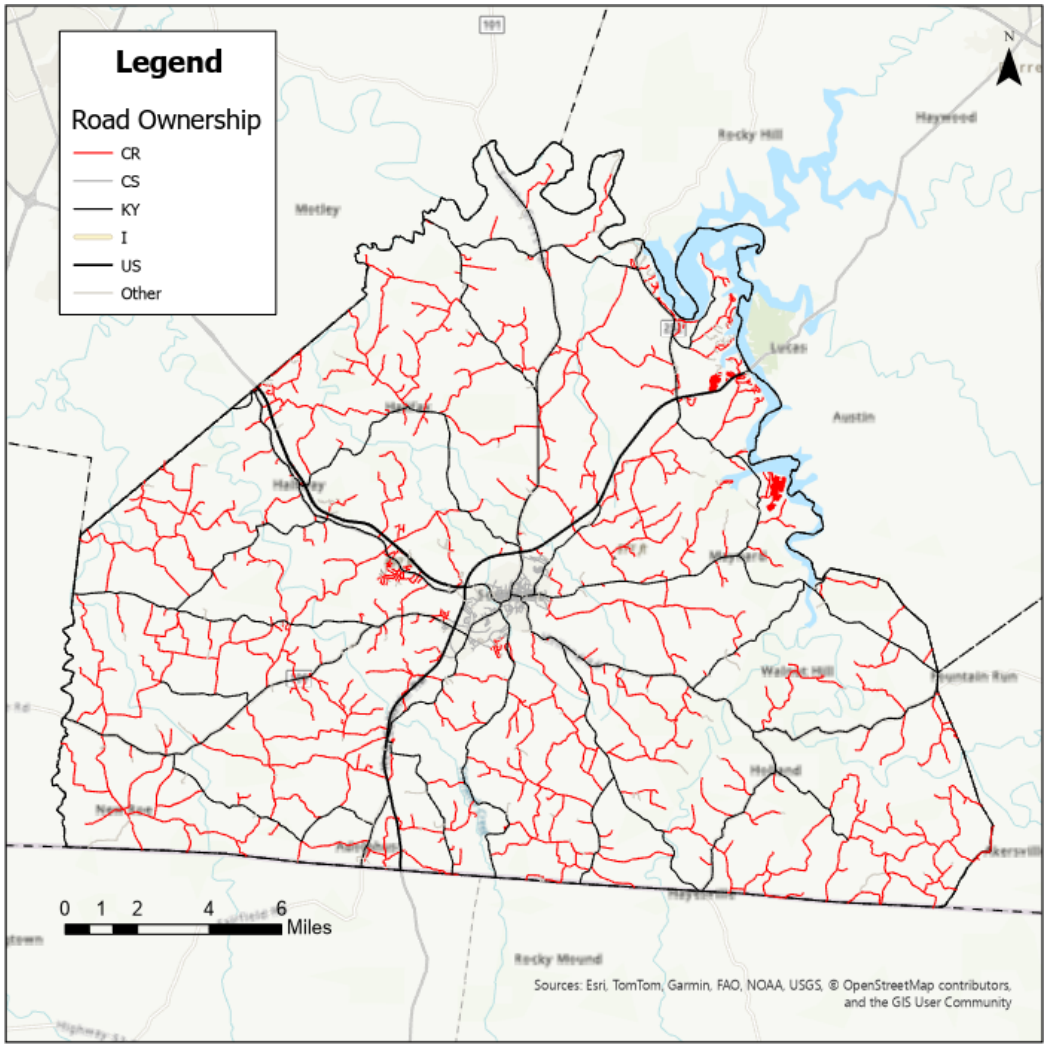


Exhibit Allen-3: Map of County Roadways

Crash Analysis

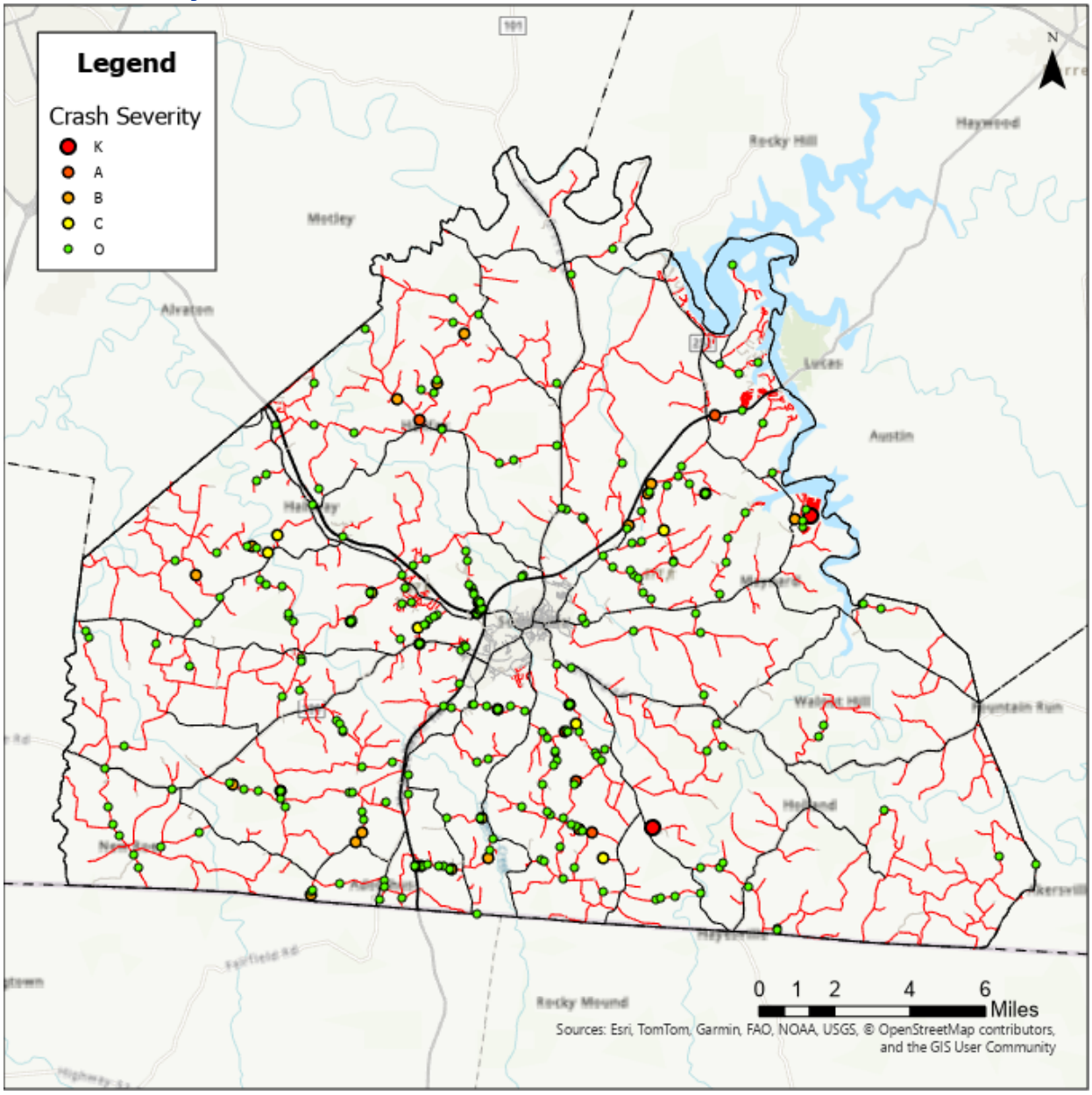
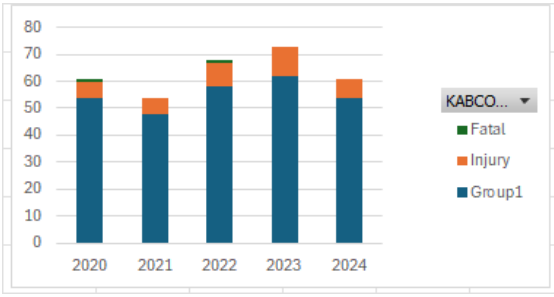
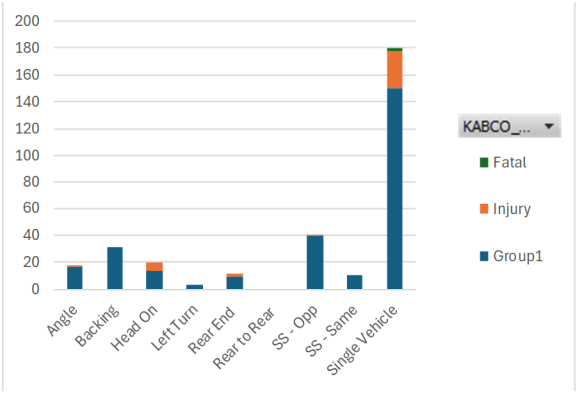


Exhibit Allen-4: Map of County Road Crashes



Year	Prop. Damage Only	Injury	Fatal	Total
2020	54	6	1	**61**
2021	48	6	0	**54**
2022	58	9	1	**68**
2023	62	11	0	**73**
2024	54	7	0	**61**

Exhibit Allen-5: Crash Distribution by Year



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	17	1	0	**18**
BACKING	31	0	0	**31**
HEAD ON	14	6	0	**20**
OPPOSING LEFT TURN	3	0	0	**3**
REAR END	10	2	0	**12**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	39	2	0	**41**
SIDESWIPE-SAME DIR	11	0	0	**11**
SINGLE VEHICLE	150	28	2	**180**

Exhibit Allen-6: Crash Frequency and Severity by Manner of Collision

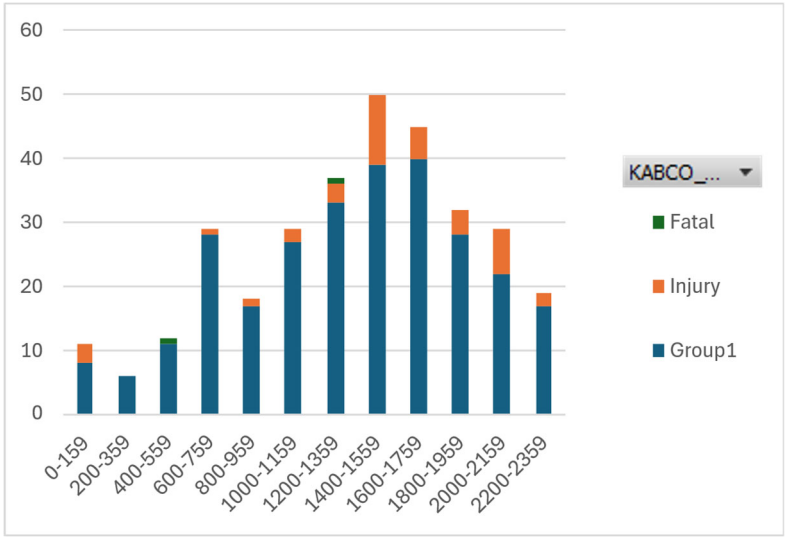


Exhibit Allen-7: Crashes and Severity by Time of Day

Focus Roadways

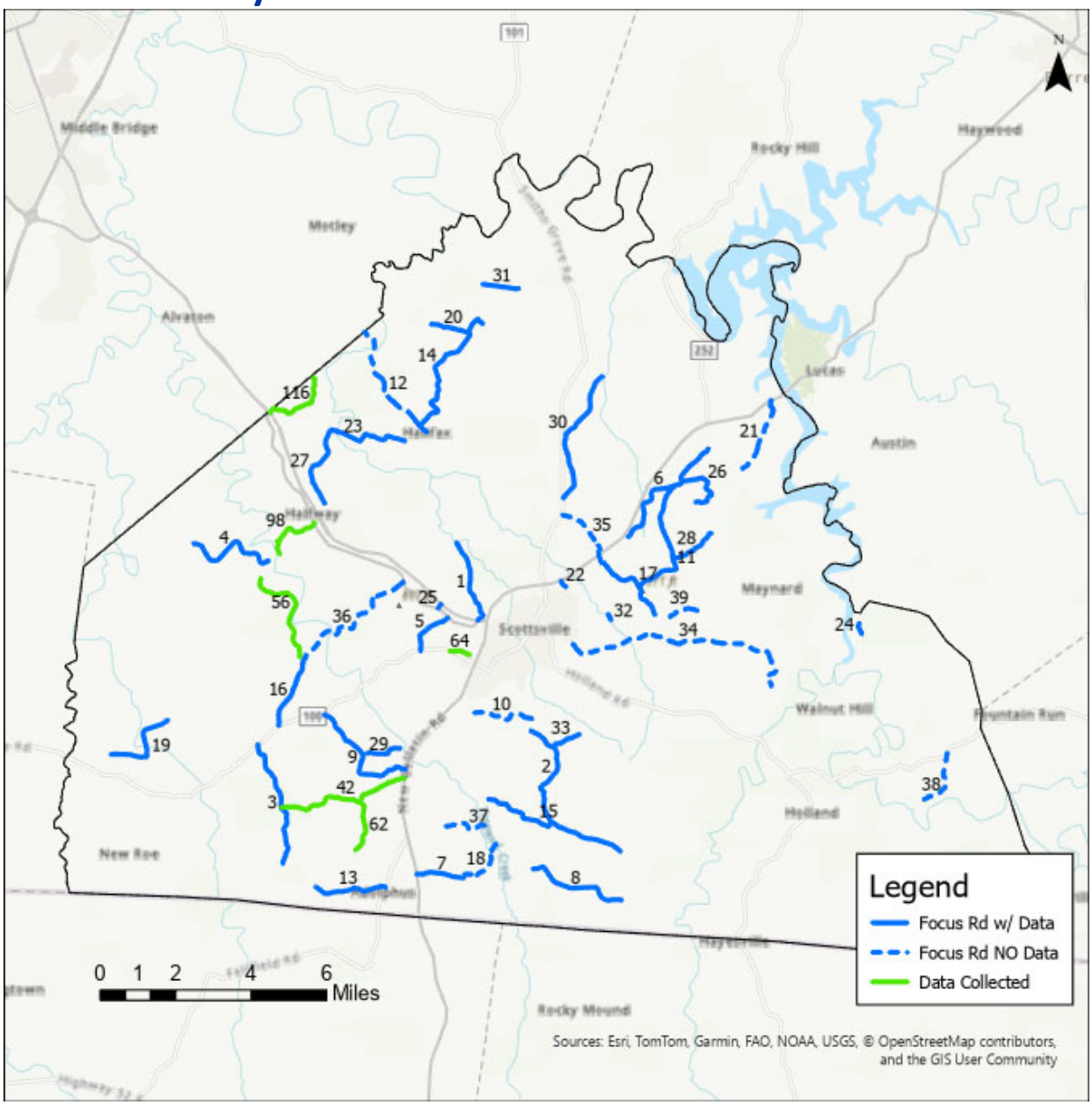


Exhibit Allen-8: Focus Roads

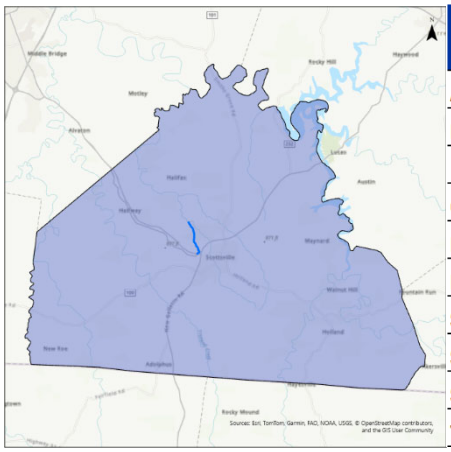
RT_UNIQUE	Length	County	Road Name	Injury Crash	Fatal Crash	PDO	Crash Score	Use Score	Rank	Focus Rd	Data
Allen											
002-CR-1302 -000	2.36	Allen	BURNLEY RD	1	1	13	2.50	0.76	1	1	1
002-CR-1161 -000	3.10	Allen	DOVER CHURCH RD	1	0	13	1.90	1.60	2	1	1
002-CR-1229 -000	3.54	Allen	WALKERS CHAPEL RD	2	0	2	2.38	0.49	3	1	1
002-CR-1319 -000	2.78	Allen	TRAMMEL RD	1	1	4	1.96	0.82	4	1	1
002-CR-1305 -000	1.33	Allen	LAMBERT RD	0	0	8	0.48	3.48	5	1	1
002-CR-1055 -000	3.62	Allen	OLD GLASGOW RD	1	0	10	1.73	0.92	6	1	1
002-CR-1217 -000	1.30	Allen	CARTER CHURCH RD	1	0	5	1.43	1.51	7	1	1
002-CR-1152 -000	2.80	Allen	MAPLE GROVE CHURCH RD	1	1	2	1.85	0.55	8	1	1
002-CR-1256 -000	3.37	Allen	NEW BUCK CREEK RD	1	0	5	1.43	1.32	9	1	1
002-CR-1203 -000	1.72	Allen	STOVALL RD	1	0	9	1.67	0.78	10	1	0
002-CR-1048 -000	3.55	Allen	WHITNEY RD	0	2	4	1.43	0.52	11	1	1
002-CR-1335 -000	3.49	Allen	HALIFAX-BAILEY RD	1	0	1	1.19	0.90	12	1	0
002-CR-1226 -000	1.99	Allen	STAFFORD HOLLOW RD	1	0	3	1.31	0.63	13	1	1
002-CR-1339 -000	4.07	Allen	HALIFAX-SETTLE RD	1	0	4	1.37	0.37	14	1	1
002-CR-1160 -000	4.06	Allen	UNION CHAPEL RD	1	0	3	1.31	0.45	15	1	1
002-CR-1253 -000	1.94	Allen	RED HILL RD	0	2	1	1.25	0.45	16	1	1
002-CR-1052 -000	2.21	Allen	DURHAM SPRINGS RD	0	0	9	0.54	1.88	17	1	1
002-CR-1208 -000	1.38	Allen	BLANKENSHIP RD	1	0	2	1.25	0.41	18	1	0
002-CR-1241 -000	2.39	Allen	PERRYTOWN RD	1	0	1	1.19	0.51	19	1	1
002-CR-1340 -000	1.06	Allen	OAKLEY WEAVER RD	1	0	3	1.31	0.21	20	1	1
002-CR-1018 -000	2.11	Allen	STEENBERGEN RD	0	0	3	0.18	2.47	21	1	0
002-CR-1520 -000	0.22	Allen	MAXWELL DR	0	0	1	0.06	2.61	22	1	0
002-CR-1328 -000	2.44	Allen	MITCHELL WEAVER RD	1	0	1	1.19	0.27	23	1	1
002-CR-1067 -000	0.45	Allen	OLD BROWNSFORD RD	0	0	0	0.00	2.55	24	1	0
002-CR-1442 -000	0.15	Allen	BRITNI CONNECTOR	0	0	0	0.00	2.50	25	1	0
002-CR-1020 -000	1.75	Allen	J W YORK RD	1	0	0	1.13	0.18	26	1	1
002-CR-1352 -000	2.17	Allen	HILEY SPENCER RD	1	0	0	1.13	0.16	27	1	1
002-CR-1050 -000	1.34	Allen	C W JONES RD	1	0	0	1.13	0.13	28	1	1
002-CR-1245 -000	0.99	Allen	JOE SHELTON RD	1	0	0	1.13	0.12	29	1	1
002-CR-1041 -000	3.78	Allen	OLD GAINESVILLE RD	1	0	0	1.13	0.10	30	1	1
002-CR-1342 -000	0.98	Allen	FRIENDSHIP CHURCH RD	1	0	0	1.13	0.09	31	1	1
002-CR-1542 -000	0.19	Allen	EMILY FOSTER LN	1	0	0	1.13	0.07	32	1	0
002-CR-1163 -000	0.81	Allen	PARDUE RD	0	1	3	0.77	0.73	33	1	1
002-CR-1101 -000	6.69	Allen	MAYSVILLE RD	0	1	4	0.83	0.44	34	1	0
002-CR-1046 -000	1.86	Allen	HARRISON SCHOOL RD	0	0	0	0.00	2.08	35	1	0
002-CR-1372 -000	3.96	Allen	W OLD STATE RD	0	1	3	0.77	0.47	36	1	0
002-CR-1206 -000	1.20	Allen	CONCORD CHURCH RD	0	1	2	0.71	0.33	37	1	0
002-CR-1113 -000	1.83	Allen	CELSOR RD	0	0	0	0.00	1.62	38	1	0
002-CR-1441 -000	0.81	Allen	DURHAM SPRINGS CHURCH RD	0	1	0	0.60	0.37	39	1	0
002-CR-1239 -000	3.68	Allen	OLD BUCK CREEK RD	0	0	7	0.42	0.48	42	0	1
002-CR-1311 -000	2.98	Allen	SQUIRE LYLES RD	0	0	2	0.12	0.63	56	0	1
002-CR-1224 -000	1.47	Allen	S OAK FOREST CHURCH RD	0	0	3	0.18	0.36	62	0	1
002-CR-1266 -000	0.56	Allen	OLIVER ST	0	0	3	0.18	0.34	64	0	1
002-CR-1326 -000	1.75	Allen	HALFWAY RD	0	0	2	0.12	0.20	98	0	1
002-CR-1331 -000	2.02	Allen	ALLEN SPRINGS RD	0	0	1	0.06	0.21	116	0	1

Exhibit Allen-9: List of Focus Roadways

Recommended Improvements (Top 5 Roads)

BURNLEY RD(002-CR-1302 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	3	0	0	**3**
BACKING	18	0	0	**18**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	1	0	0	**1**
REAR END	3	1	0	**4**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	1	0	0	**1**
SIDESWIPE-SAME DIR	7	0	0	**7**
SINGLE VEHICLE	6	1	0	**7**
Total	**39**	**2**	**0**	**41**

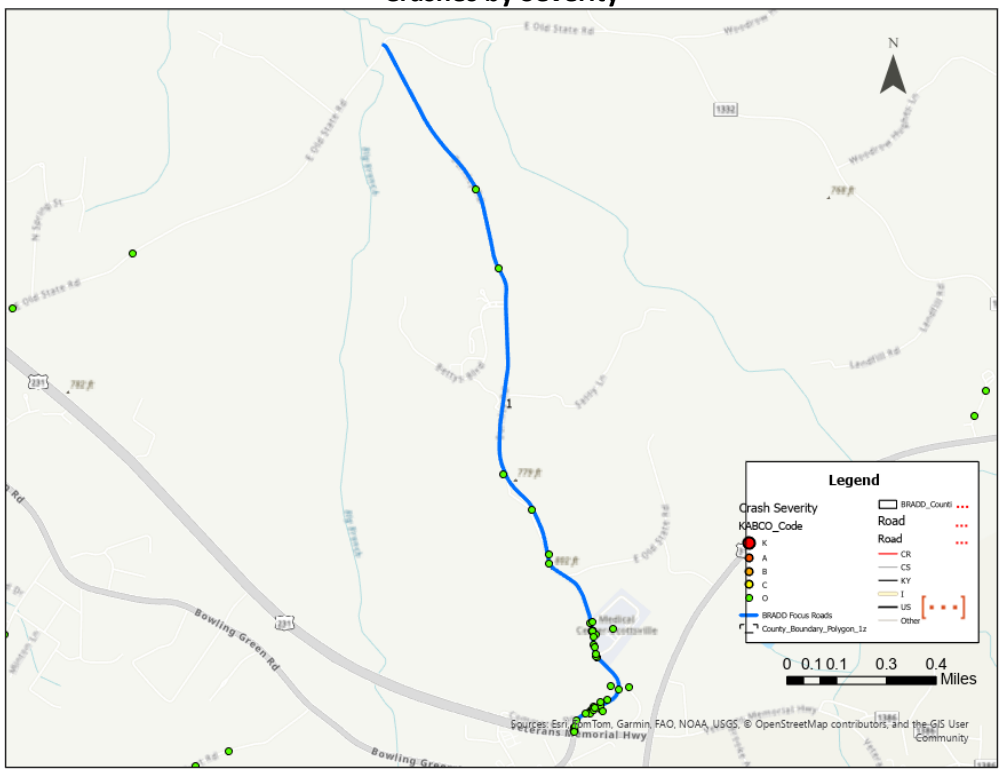
General Roadway Conditions

Roadway Section Data Not Collected

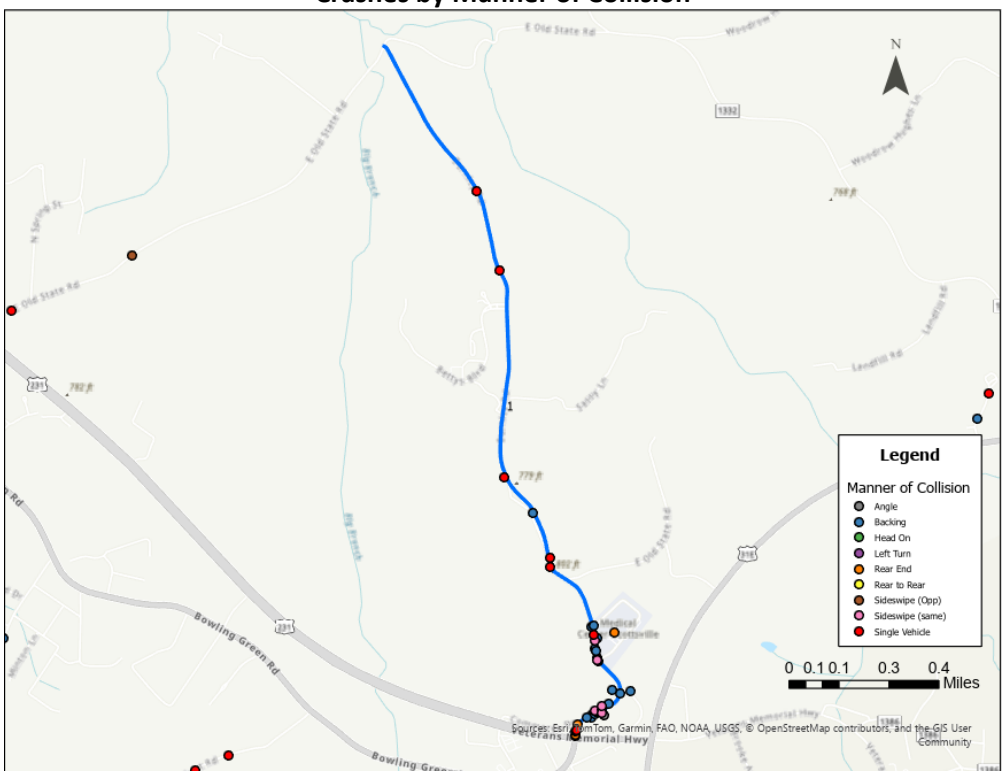
Roadway Typical Section



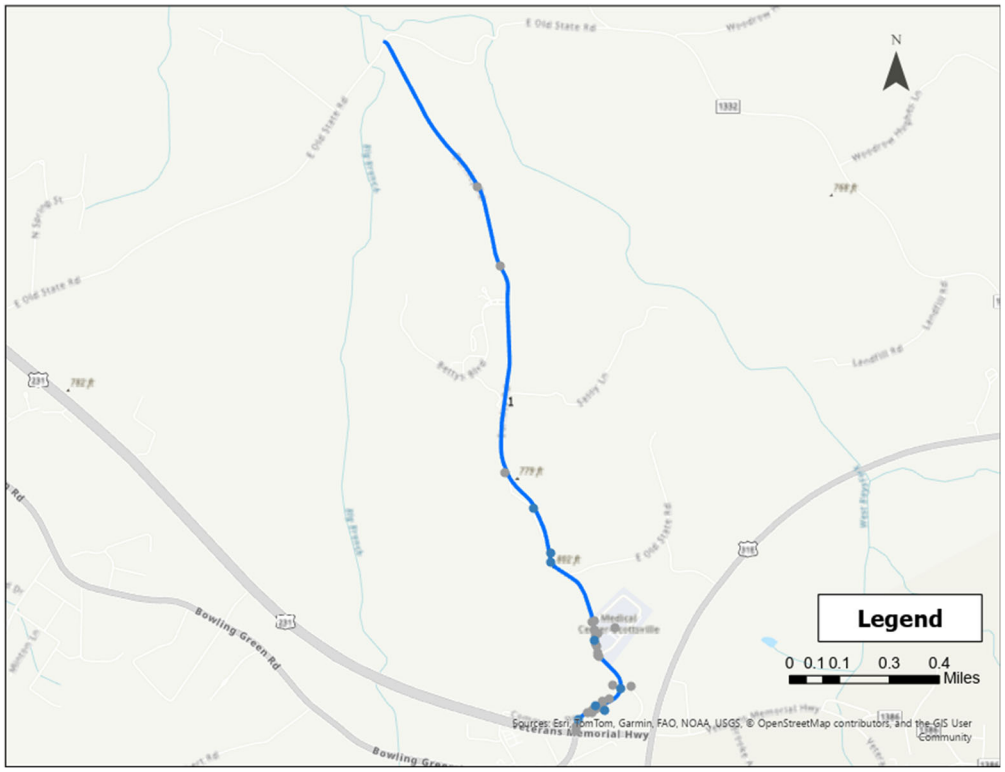
Crashes by Severity



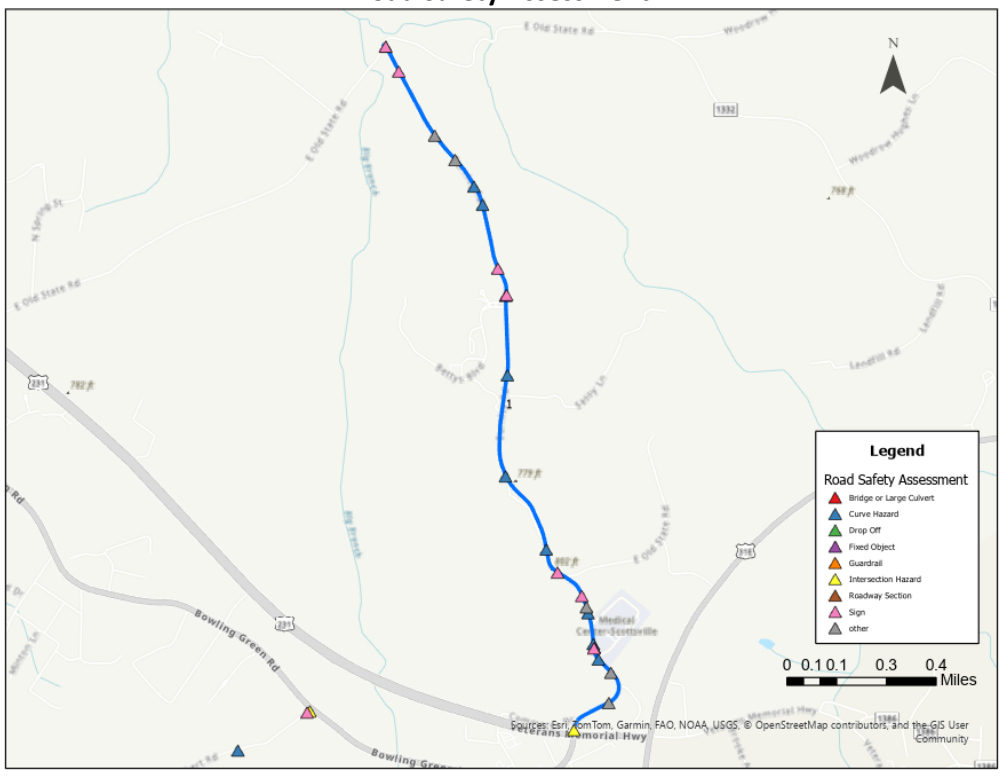
Crashes by Manner of Collision



Road Condition



Road Safety Assessment

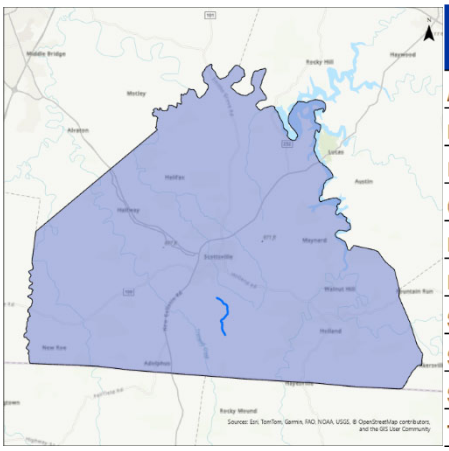


General Recommendations

Point ID	RT_UNIQUE	Road Name	Issue Type	Object	Single / Series	Offset	Recommendation
4885	002-CR-1302 -000	BURNLEY RD	Fixed Object	other; Fence	Series	>5	--
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**--**	**Recommendation**	
4878	002-CR-1302 -000	BURNLEY RD	Intersection	No	0	Intersection_Obscured_on_Approa	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
4893	002-CR-1302 -000	BURNLEY RD	Intersection	No	0	other; Ends at busy highway	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**0**	**Comments**	**Recommendation**
4870	002-CR-1302 -000	BURNLEY RD	Curve Hazard	No	0	Intersection_in_Curve,Curve_Obscured	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection; Clear vegetation
4874	002-CR-1302 -000	BURNLEY RD	Curve Hazard	No	0	Curve_Obscured	Install advance curve signing and chevrons
4876	002-CR-1302 -000	BURNLEY RD	Curve Hazard	Yes	0	vegetation,Curve_Obscured	Install advance curve signing and chevrons; Remove Vegetation
4883	002-CR-1302 -000	BURNLEY RD	Curve Hazard	Yes	0	Curve_Obscured,vegetation	Install advance curve signing and chevrons; Remove Vegetation
4886	002-CR-1302 -000	BURNLEY RD	Curve Hazard	No	0	Curve_Obscured	Install advance curve signing and chevrons
4887	002-CR-1302 -000	BURNLEY RD	Curve Hazard	No	0	Curve_Obscured	Install advance curve signing and chevrons
4889	002-CR-1302 -000	BURNLEY RD	Curve Hazard	No	0	Intersection_in_Curve,Curve_Obscured	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection; Clear vegetation
4890	002-CR-1302 -000	BURNLEY RD	Curve Hazard	No	0	Intersection_in_Curve,Curve_Obscured	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection; Clear vegetation
Point ID	**RT_UNIQUE**	**RD_NAME**	**Issue Type**	**--**	**--**	**Description**	**Recommendation**
4869	002-CR-1302 -000	BURNLEY RD	Other	0	0	Blind hill	Install "Hill Blocks Sight Distance" Sign.
4872	002-CR-1302 -000	BURNLEY RD	Other	0	0	Hill	Install "Hill Blocks Sight Distance" Sign.
4877	002-CR-1302 -000	BURNLEY RD	Other	0	0	Hill	Install "Hill Blocks Sight Distance" Sign.
4882	002-CR-1302 -000	BURNLEY RD	Other	0	0	Hill	Install "Hill Blocks Sight Distance" Sign.
4892	002-CR-1302 -000	BURNLEY RD	Other	0	0	Business area, has sign	--

DOVER CHURCH RD (002-CR-1161 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	0	0	0	**0**
HEAD ON	1	0	0	**1**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	1	0	0	**1**
SIDESWIPE-SAME DIR	1	0	0	**1**
SINGLE VEHICLE	5	0	0	**5**
Total	**8**	**0**	**0**	**8**

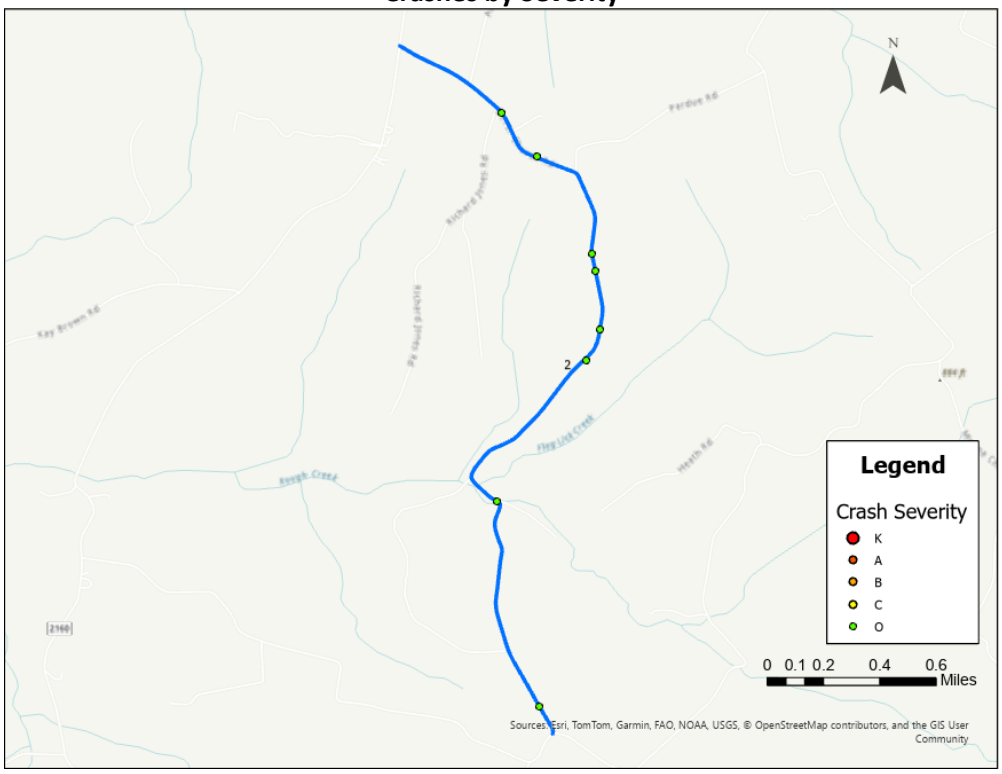
General Roadway Conditions

Roadway Section Data Not Collected

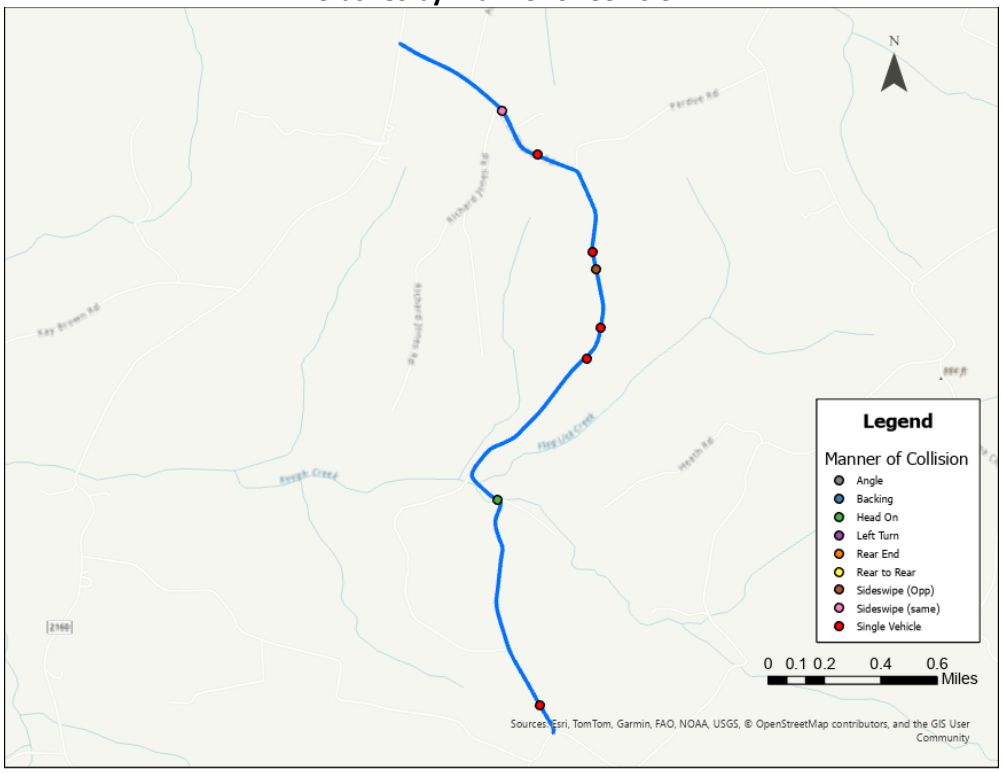
Roadway Typical Section



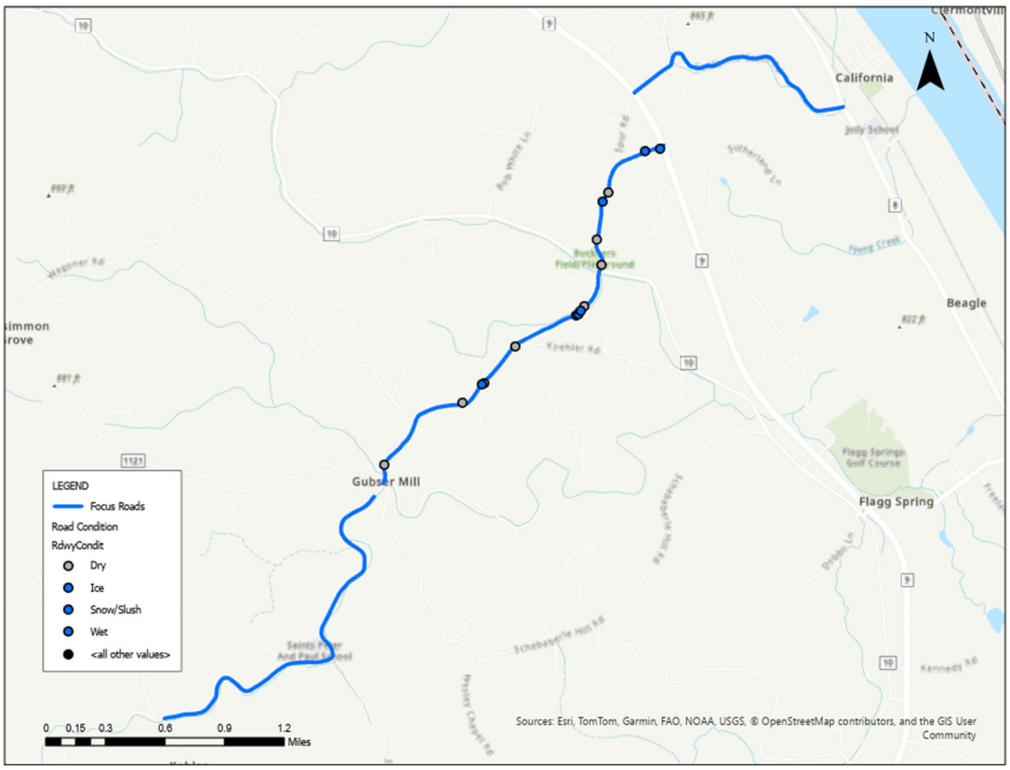
Crashes by Severity



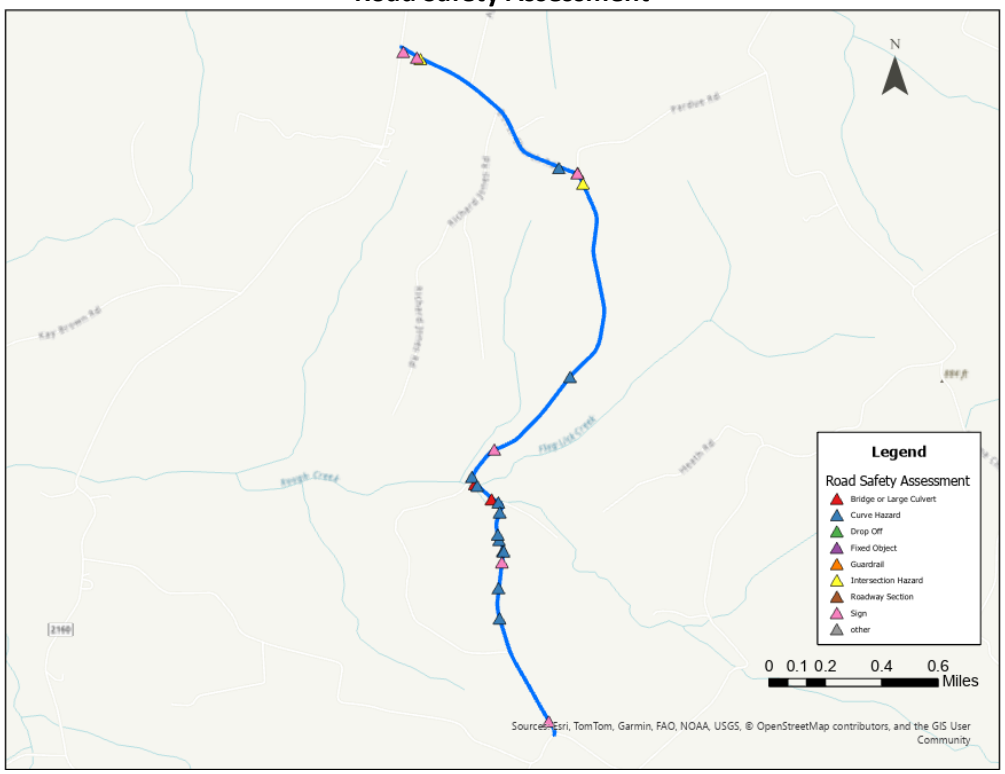
Crashes by Manner of Collision



Road Condition



Road Safety Assessment

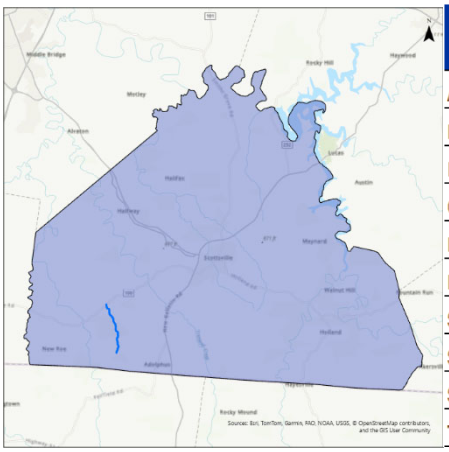


General Recommendations

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	--	Recommendation	
651	002-CR-1161 -000	DOVER CHURCH RD	Intersection	No	0	Intersection_Skew	Consider edgeline and stop bar installation on skewed approach.
658	002-CR-1161 -000	DOVER CHURCH RD	Intersection	No	0	Intersection_Skew	Consider edgeline and stop bar installation on skewed approach.
660	002-CR-1161 -000	DOVER CHURCH RD	Intersection	No	0	other; End roadway, no issues	--
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Bridge Width**	**Guardrail Present**	**OM Present**	**Recommendation**
636	002-CR-1161 -000	DOVER CHURCH RD	Bridge or Large Culvert	12	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
637	002-CR-1161 -000	DOVER CHURCH RD	Bridge or Large Culvert	12	4	2	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**0**	**Comments**	**Recommendation**
632	002-CR-1161 -000	DOVER CHURCH RD	Curve Hazard	No	0	Intersection_in_Curve,Curve_Obscured	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection; Clear vegetation
633	002-CR-1161 -000	DOVER CHURCH RD	Curve Hazard	No	0	Curve_Obscured	Install advance curve signing and chevrons
635	002-CR-1161 -000	DOVER CHURCH RD	Curve Hazard	Yes	0	vegetation	Install advance curve signing and chevrons; Remove Vegetation
638	002-CR-1161 -000	DOVER CHURCH RD	Curve Hazard	No	0	Intersection_in_Curve,Curve_Obscured	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection; Clear vegetation
639	002-CR-1161 -000	DOVER CHURCH RD	Curve Hazard	No	0	Curve_Obscured	Install advance curve signing and chevrons
640	002-CR-1161 -000	DOVER CHURCH RD	Curve Hazard	Yes	0	Curve_Obscured,vegetation	Install advance curve signing and chevrons; Remove Vegetation
641	002-CR-1161 -000	DOVER CHURCH RD	Curve Hazard	No	0	Curve_Obscured	Install advance curve signing and chevrons
645	002-CR-1161 -000	DOVER CHURCH RD	Curve Hazard	No	0	Curve_Obscured	Install advance curve signing and chevrons
647	002-CR-1161 -000	DOVER CHURCH RD	Curve Hazard	No	0	Curve_Obscured	Install advance curve signing and chevrons
648	002-CR-1161 -000	DOVER CHURCH RD	Curve Hazard	Yes	0	Curve_Obscured,vegetation	Install advance curve signing and chevrons; Remove Vegetation
649	002-CR-1161 -000	DOVER CHURCH RD	Curve Hazard	No	0	Curve_Obscured	Install advance curve signing and chevrons
650	002-CR-1161 -000	DOVER CHURCH RD	Curve Hazard	Yes	0	Curve_Obscured,vegetation	Install advance curve signing and chevrons; Remove Vegetation

WALKERS CHAPEL RD(002-CR-1229 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	1	0	0	**1**
BACKING	0	0	0	**0**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	0	0	0	**0**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	2	1	0	**3**
Total	**3**	**1**	**0**	**4**

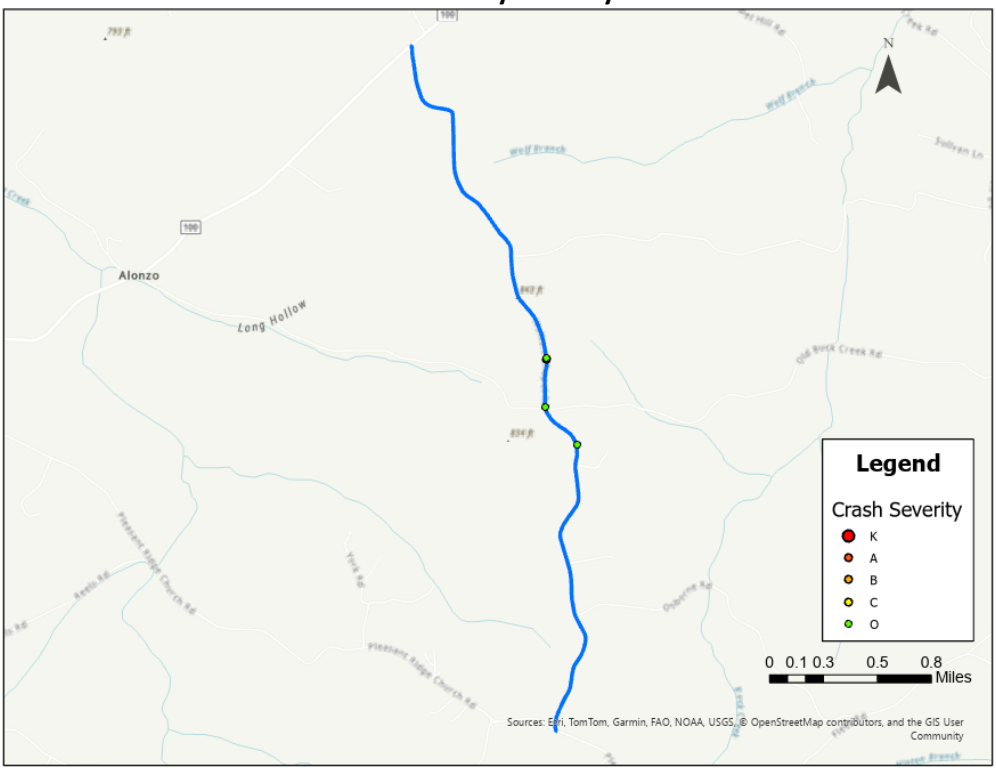
General Roadway Conditions

Roadway Section Data Not Collected

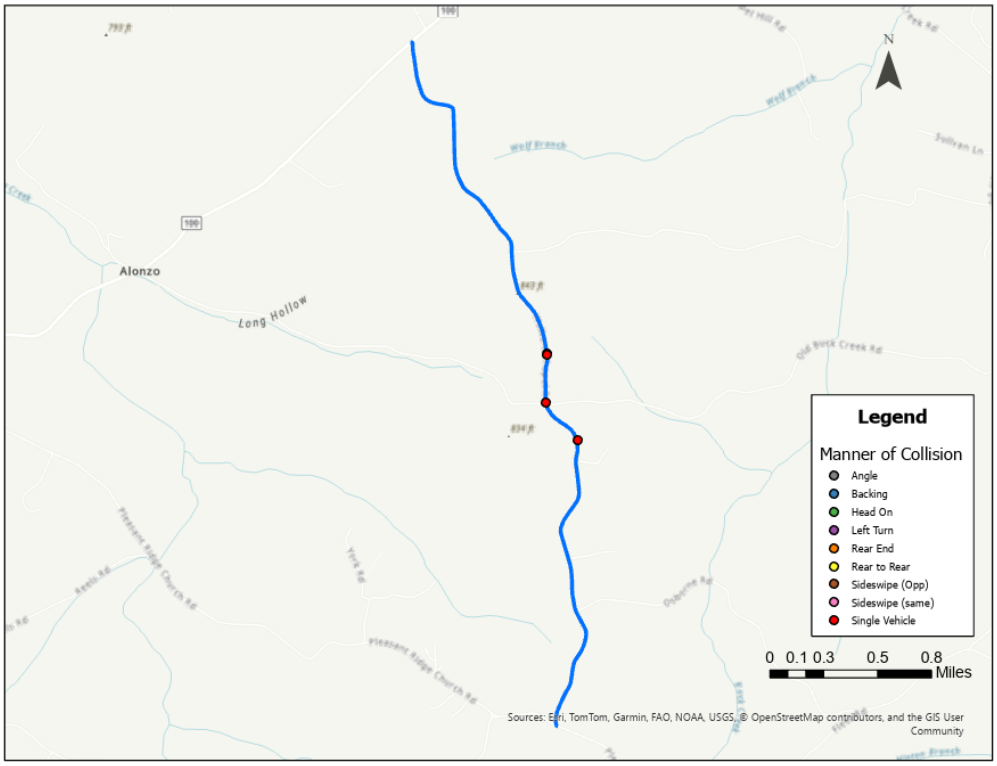
Roadway Typical Section



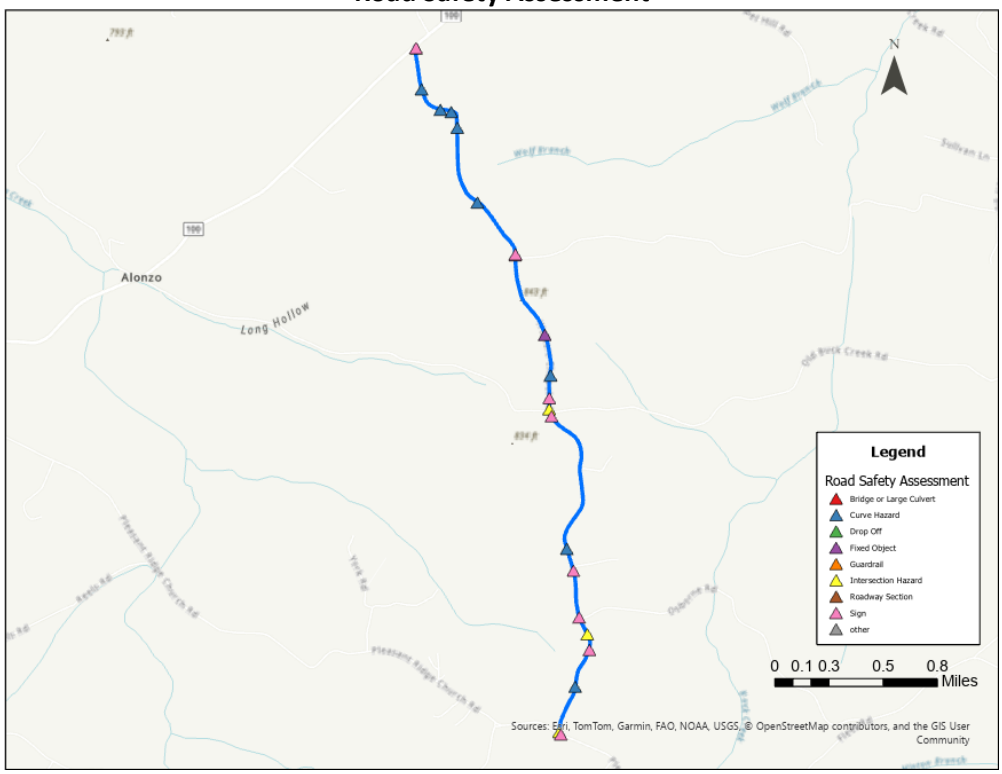
Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment

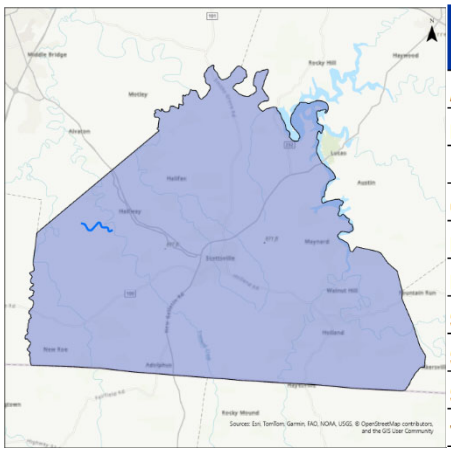


General Recommendations

Point ID	RT_UNIQUE	Road Name	Issue Type	Object	Single / Series	Offset	Recommendation
4917	002-CR-1229 -000	WALKERS CHAPEL RD	Fixed Object	Tree	Series	3-5	Remove if possible
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**--**	**Recommendation**	
4919	002-CR-1229 -000	WALKERS CHAPEL RD	Intersection	No	0	Intersection_Obscured_on_Approa	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
4921	002-CR-1229 -000	WALKERS CHAPEL RD	Intersection	No	0	other; No issue, end of roadway	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
4924	002-CR-1229 -000	WALKERS CHAPEL RD	Intersection	No	0	Intersection_Obscured_on_Approa	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
4934	002-CR-1229 -000	WALKERS CHAPEL RD	Intersection	No	0	other; No issue, end of road	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**0**	**Comments**	**Recommendation**
4914	002-CR-1229 -000	WALKERS CHAPEL RD	Curve Hazard	No	0	Curve_Obscured	Install advance curve signing and chevrons
4915	002-CR-1229 -000	WALKERS CHAPEL RD	Curve Hazard	No	0	Intersection_in_Curve,Curve_Obscured	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection; Clear vegetation
4916	002-CR-1229 -000	WALKERS CHAPEL RD	Curve Hazard	No	0	Curve_Obscured	Install advance curve signing and chevrons
4920	002-CR-1229 -000	WALKERS CHAPEL RD	Curve Hazard	No	0	Curve_Obscured	Install advance curve signing and chevrons
4927	002-CR-1229 -000	WALKERS CHAPEL RD	Curve Hazard	No	0	Curve_Obscured	Install advance curve signing and chevrons
4929	002-CR-1229 -000	WALKERS CHAPEL RD	Curve Hazard	No	0	Curve_Obscured	Install advance curve signing and chevrons
4932	002-CR-1229 -000	WALKERS CHAPEL RD	Curve Hazard	No	0	Intersection_in_Curve	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection; Clear vegetation
4933	002-CR-1229 -000	WALKERS CHAPEL RD	Curve Hazard	No	0	Curve_Obscured	Install advance curve signing and chevrons

TRAMMEL RD(002-CR-1319 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	1	0	**1**
BACKING	0	0	0	**0**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	2	0	0	**2**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	1	1	0	**2**
Total	**3**	**2**	**0**	**5**

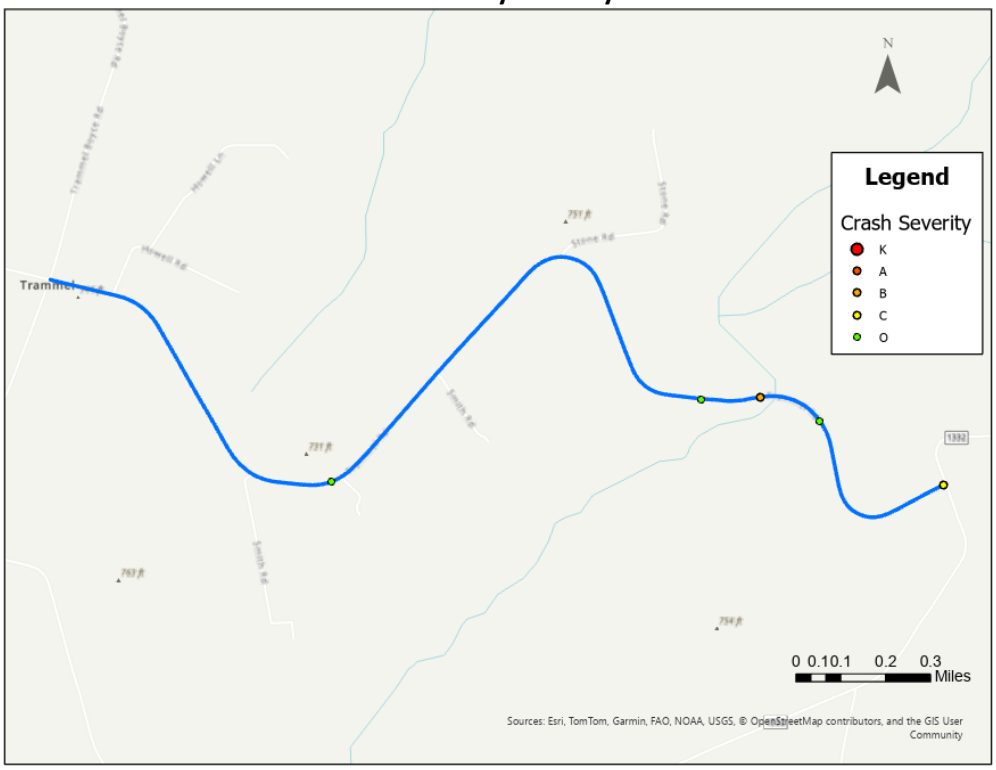
General Roadway Conditions

Roadway Section Information Not Collected

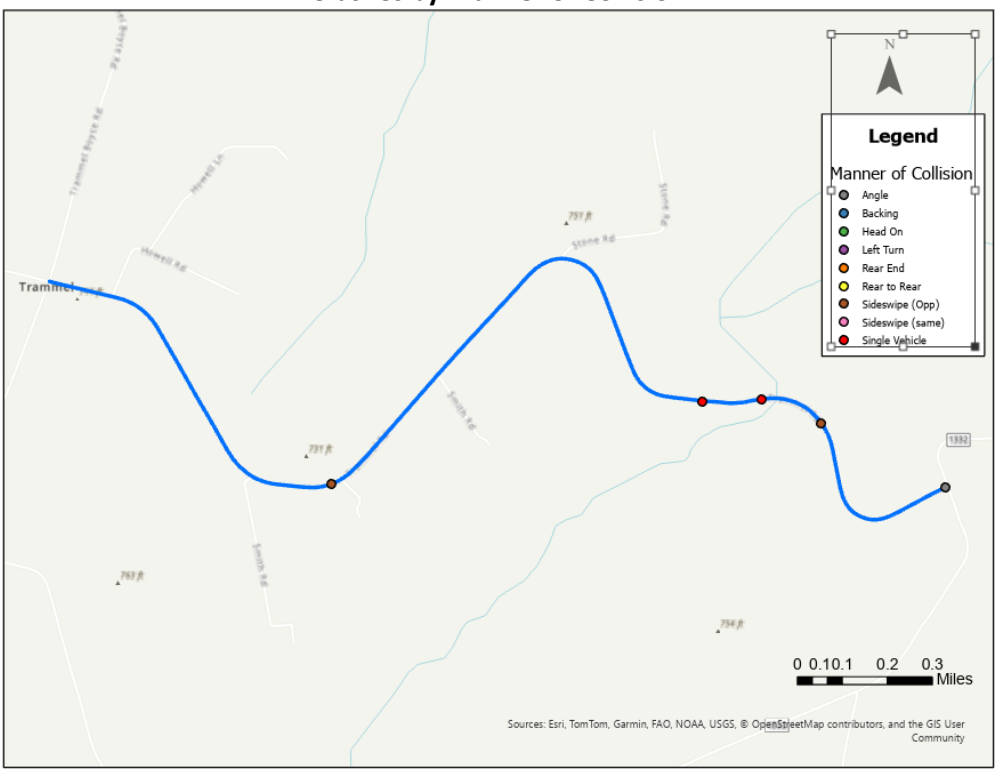
Roadway Typical Section



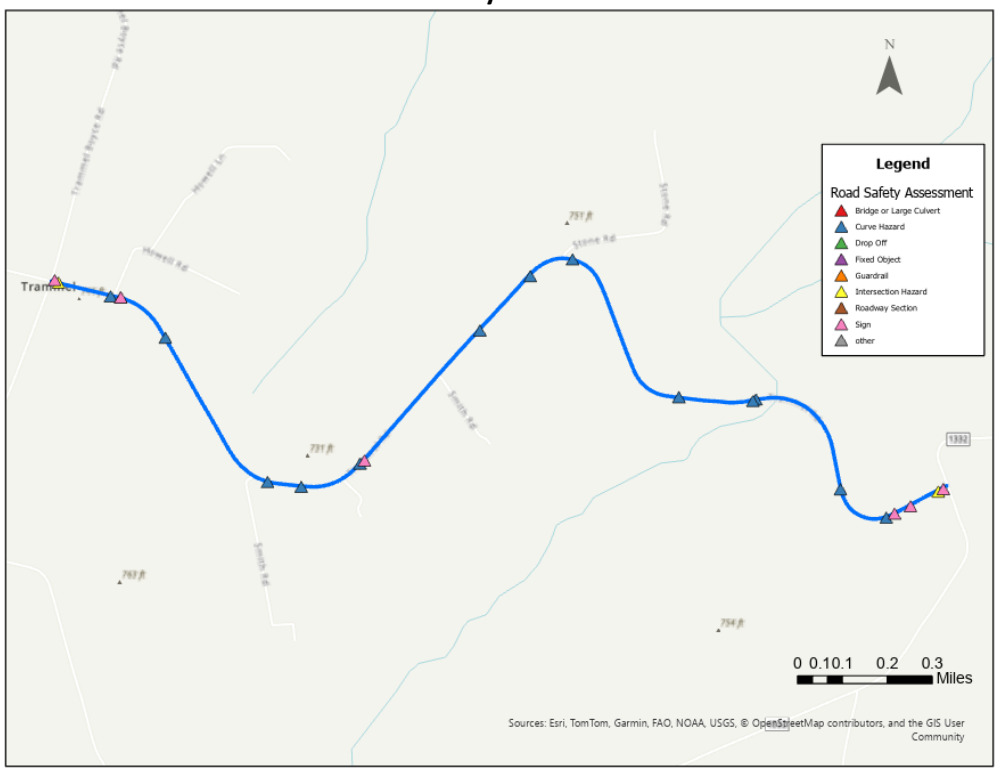
Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment



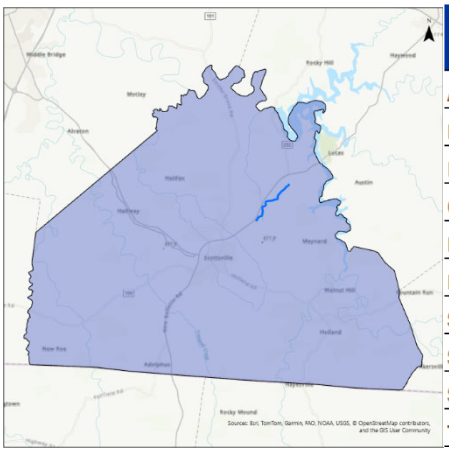
General Recommendations

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Recommendation	
276	002-CR-1319 -000	TRAMMEL RD	Intersection	No	other; No stop sign for intersecting road	Install missing Stop Sign at Intersecting Road
277	002-CR-1319 -000	TRAMMEL RD	Intersection	No	Intersection_Skew	Consider edgeline and stop bar installation on skewed approach.
287	002-CR-1319 -000	TRAMMEL RD	Intersection	No	other; End of road	--

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Comments	Recommendation
268	002-CR-1319 -000	TRAMMEL RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
269	002-CR-1319 -000	TRAMMEL RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
270	002-CR-1319 -000	TRAMMEL RD	Curve Hazard	Yes	vegetation,Curve_Obscured	Install advance curve signing and chevrons; Remove Vegetation
271	002-CR-1319 -000	TRAMMEL RD	Curve Hazard	No	Entrance_in_Curve	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection; Clear vegetation
272	002-CR-1319 -000	TRAMMEL RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons; Remove Vegetation
273	002-CR-1319 -000	TRAMMEL RD	Curve Hazard	Yes	vegetation	Install advance curve signing and chevrons; Remove Vegetation
274	002-CR-1319 -000	TRAMMEL RD	Curve Hazard	Yes	vegetation,Curve_Obscured	Install advance curve signing and chevrons; Remove Vegetation
279	002-CR-1319 -000	TRAMMEL RD	Curve Hazard	Yes	vegetation	Install advance curve signing and chevrons; Remove Vegetation
280	002-CR-1319 -000	TRAMMEL RD	Curve Hazard	Yes	vegetation,Curve_Obscured	Install advance curve signing and chevrons; Remove Vegetation
282	002-CR-1319 -000	TRAMMEL RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
283	002-CR-1319 -000	TRAMMEL RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
284	002-CR-1319 -000	TRAMMEL RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons; Remove Vegetation
285	002-CR-1319 -000	TRAMMEL RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons

OLD GLASGOW RD(002-CR-1055 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	0	0	0	**0**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	0	0	0	**0**
SIDESWIPE-SAME DIR	1	0	0	**1**
SINGLE VEHICLE	4	3	0	**7**
Total	**5**	**3**	**0**	**8**

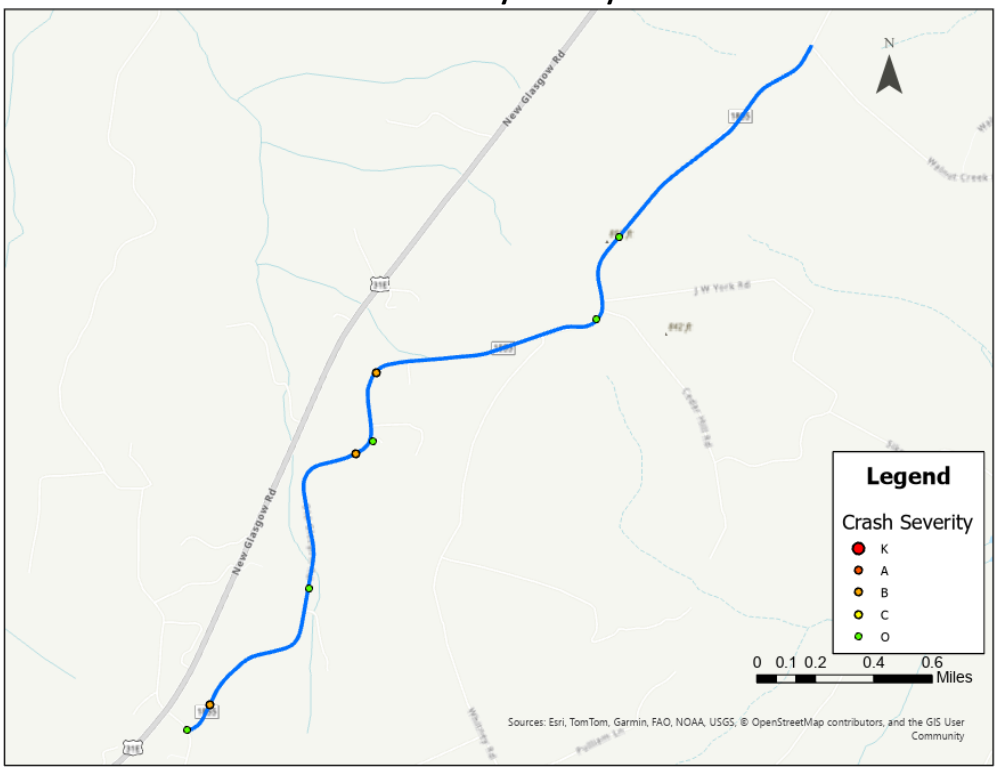
General Roadway Conditions

Roadway Section Information Not Collected

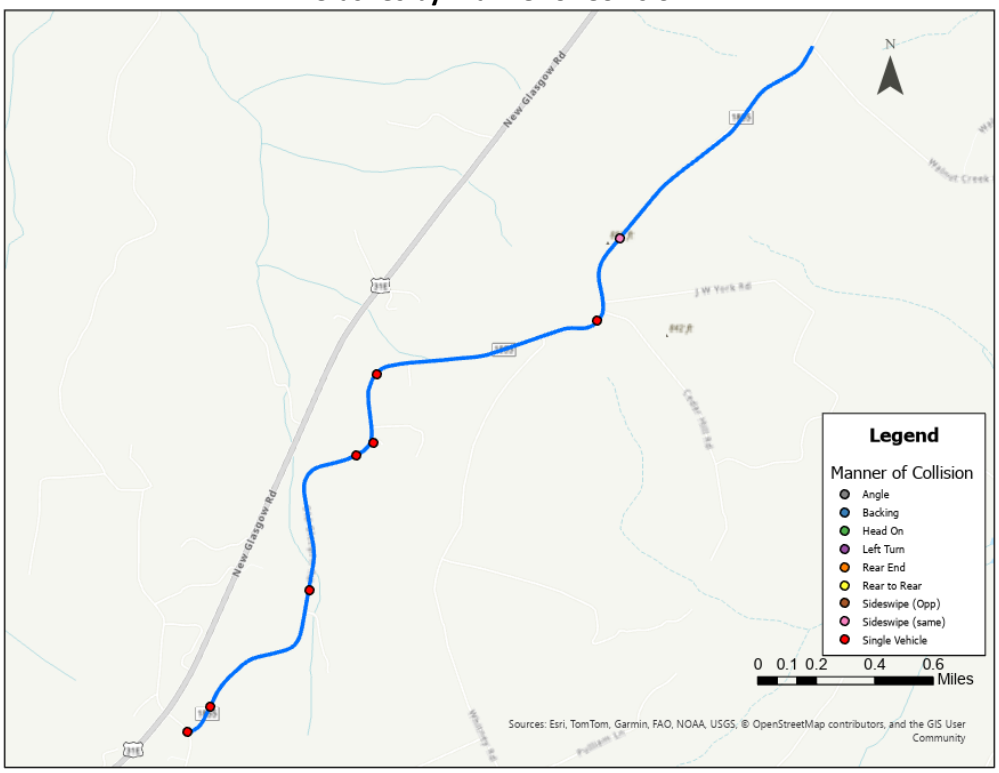
Roadway Typical Section



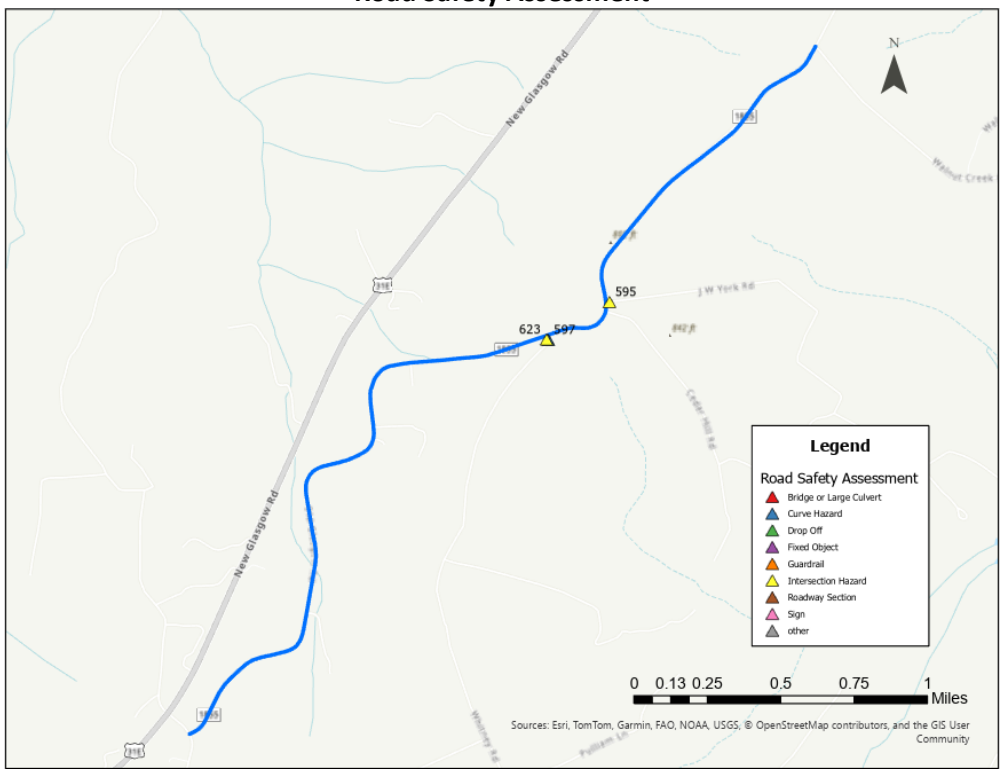
Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment



General Recommendations

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Recommendation	
595	002-CR-1055 -000	OLD GLASGOW RD	Intersection	No	other; No issue, end of road	--
623	002-CR-1055 -000	OLD GLASGOW RD	Intersection	No	other; No issue, end of roadway	--
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Comments**	**Recommendation**
597	002-CR-1055 -000	OLD GLASGOW RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons

Other Roadways

General Roadway Conditions and Recommendations (Allen County)

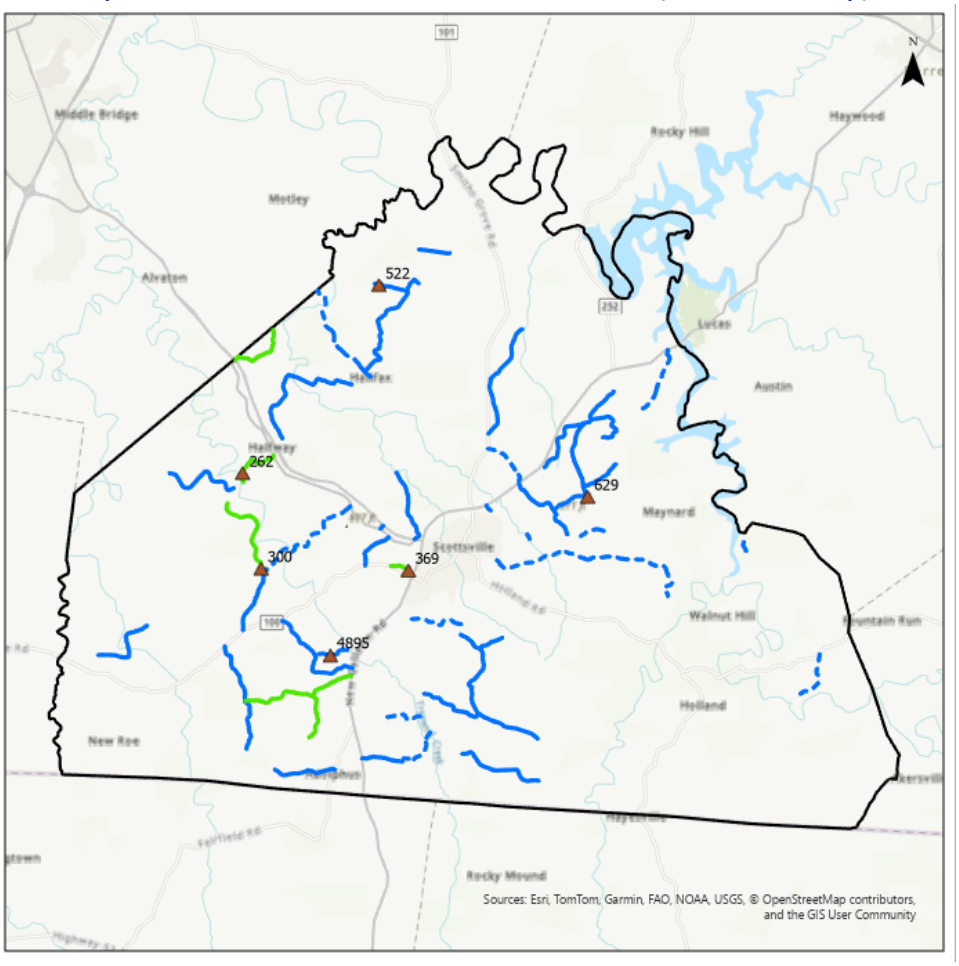


Exhibit Allen-10: General Roadway Conditions

Point ID	RT_UNIQUE	Road Name	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (ft)	Additional Comments	Improve Shoulder	Edgeline	Curve Signing	Other Recommendations
262	002-CR-1326 -000	HALFWAY RD	10	3	7	80-100		✓	✓	✓	
300	002-CR-1311 -000	SQUIRE LYLES RD	12	3	3	0-20	Potholes throughout roadway		✓	✓	Patch Potholes/Resurface
369	002-CR-1266 -000	OLIVER ST	10	3	3	0-20	Few potholes throughout roadway		✓	✓	Patch Potholes/Resurface
522	002-CR-1340 -000	OAKLEY WEAVER RD	10	4	2	0-20	Gravel in roadway, few divets		✓	✓	
629	002-CR-1048 -000	WHITNEY RD	10	2	7	80-100	Very narrow gravel roadway, curves throughout, no shoulder room, runs along creek	✓	✓	✓	Resurface
4895	002-CR-1245 -000	JOE SHELTON RD	10	4	6	40-60	Very narrow, fixed objects close to roadway, no room for two cars, little room for recovery	✓	✓	✓	

Exhibit Allen-11: General Roadway Recommendations

Bridge / Culvert Recommendations (Allen County)

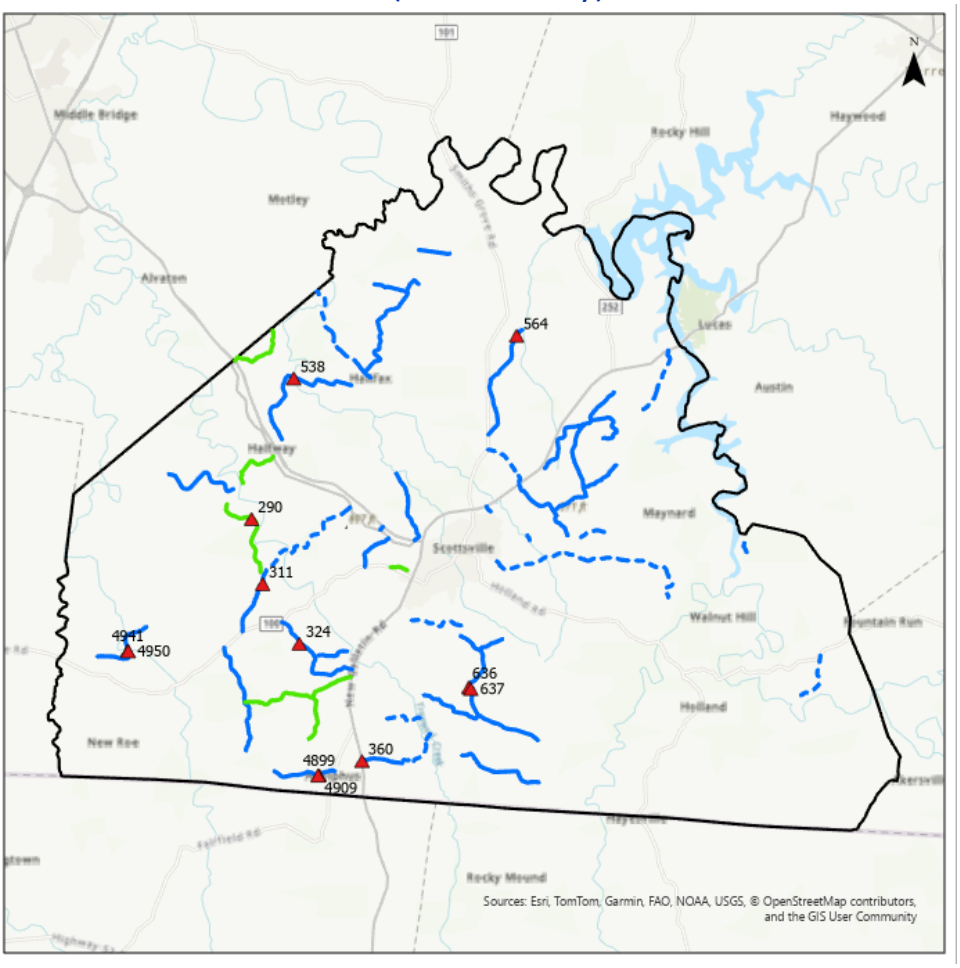


Exhibit Allen-12: Focus Road Bridge / Culvert Locations

Point ID	RT_UNIQUE	Road Name	Bridge Width	Guardrail Present	OM Present	Recommendation
290	002-CR-1311 -000	SQUIRE LYLES RD	10	4	1	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
311	002-CR-1253 -000	RED HILL RD	10	4	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
324	002-CR-1256 -000	NEW BUCK CREEK RD	15	4	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
360	002-CR-1217 -000	CARTER CHURCH RD	15	4	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
538	002-CR-1328 -000	MITCHELL WEAVER RD	12	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
564	002-CR-1041 -000	OLD GAINESVILLE RD	15	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
636	002-CR-1161 -000	DOVER CHURCH RD	12	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
637	002-CR-1161 -000	DOVER CHURCH RD	12	4	2	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
4899	002-CR-1226 -000	STAFFORD HOLLOW RD	15	4	0	Guardrail noted in poor condition--Evaluate need to replace guardarail; Install "One Lane Bridge" (W5-1) Sign; Install Type 3 Object Markers where missing.
4909	002-CR-1226 -000	STAFFORD HOLLOW RD	15	4	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
4941	002-CR-1241 -000	PERRYTOWN RD	20	4	0	Install Type 3 Object Markers where missing.
4950	002-CR-1241 -000	PERRYTOWN RD	20	4	0	Install Type 3 Object Markers where missing.

Exhibit Allen-13: Bridge / Culvert Recommendations

Curve Recommendations (Allen County)

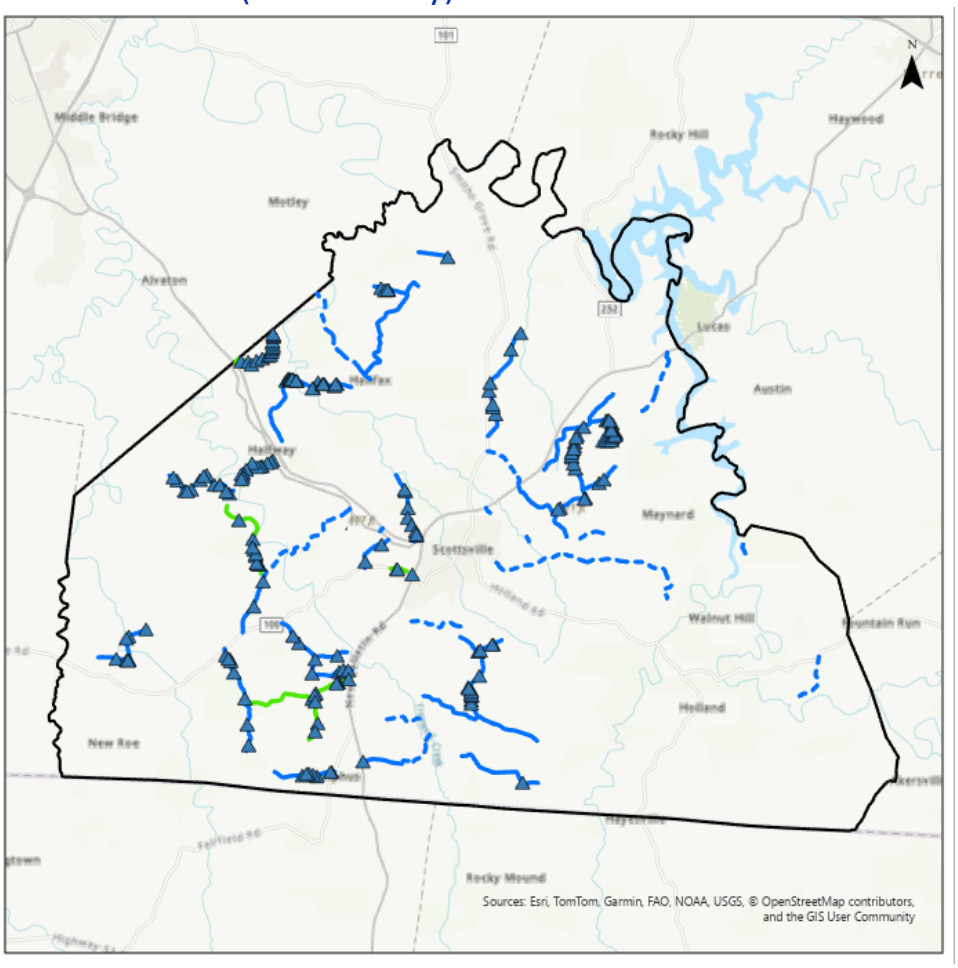


Exhibit Allen-14: Focus Road Curves

See Attachment for Curve Recommendations in Allen County

Point ID	RT_UNIQUE	Road Name	Issue Type	Comments	Vegetation	Recommendation
226	002-CR-1331 -000	ALLEN SPRINGS RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
227	002-CR-1331 -000	ALLEN SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
230	002-CR-1331 -000	ALLEN SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
231	002-CR-1331 -000	ALLEN SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
232	002-CR-1331 -000	ALLEN SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
235	002-CR-1331 -000	ALLEN SPRINGS RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
236	002-CR-1331 -000	ALLEN SPRINGS RD	Curve Hazard	Curve_Obscured	Yes	Install advance curve signing and chevrons; Remove Vegetation
237	002-CR-1331 -000	ALLEN SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
238	002-CR-1331 -000	ALLEN SPRINGS RD	Curve Hazard	Curve_Obscured	Yes	Install advance curve signing and chevrons; Remove Vegetation
239	002-CR-1331 -000	ALLEN SPRINGS RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
240	002-CR-1331 -000	ALLEN SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
241	002-CR-1331 -000	ALLEN SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
242	002-CR-1331 -000	ALLEN SPRINGS RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
244	002-CR-1331 -000	ALLEN SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
245	002-CR-1331 -000	ALLEN SPRINGS RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
248	002-CR-1331 -000	ALLEN SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
251	002-CR-1326 -000	HALFWAY RD	Curve Hazard	Intersection_in_Curve	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
252	002-CR-1326 -000	HALFWAY RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
253	002-CR-1326 -000	HALFWAY RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
254	002-CR-1326 -000	HALFWAY RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
255	002-CR-1326 -000	HALFWAY RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
256	002-CR-1326 -000	HALFWAY RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
258	002-CR-1326 -000	HALFWAY RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
259	002-CR-1326 -000	HALFWAY RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
260	002-CR-1326 -000	HALFWAY RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
261	002-CR-1326 -000	HALFWAY RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
263	002-CR-1326 -000	HALFWAY RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
264	002-CR-1326 -000	HALFWAY RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
268	002-CR-1319 -000	TRAMMEL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
269	002-CR-1319 -000	TRAMMEL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
270	002-CR-1319 -000	TRAMMEL RD	Curve Hazard	vegetation,Curve_Obscured	Yes	Install advance curve signing and chevrons; Remove Vegetation
271	002-CR-1319 -000	TRAMMEL RD	Curve Hazard	Entrance_in_Curve	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection; Clear vegetation
272	002-CR-1319 -000	TRAMMEL RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
273	002-CR-1319 -000	TRAMMEL RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
274	002-CR-1319 -000	TRAMMEL RD	Curve Hazard	vegetation,Curve_Obscured	Yes	Install advance curve signing and chevrons; Remove Vegetation
279	002-CR-1319 -000	TRAMMEL RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
280	002-CR-1319 -000	TRAMMEL RD	Curve Hazard	vegetation,Curve_Obscured	Yes	Install advance curve signing and chevrons; Remove Vegetation
282	002-CR-1319 -000	TRAMMEL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
283	002-CR-1319 -000	TRAMMEL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
284	002-CR-1319 -000	TRAMMEL RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
285	002-CR-1319 -000	TRAMMEL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
289	002-CR-1311 -000	SQUIRE LYLES RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
291	002-CR-1311 -000	SQUIRE LYLES RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
292	002-CR-1311 -000	SQUIRE LYLES RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
293	002-CR-1311 -000	SQUIRE LYLES RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
294	002-CR-1311 -000	SQUIRE LYLES RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
295	002-CR-1311 -000	SQUIRE LYLES RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	Yes	Install advance curve signing and chevrons; Clear vegetation. Consider installing edgelines and stop bar at intersection.
301	002-CR-1311 -000	SQUIRE LYLES RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons

Point ID	RT_UNIQUE	Road Name	Issue Type	Comments	Vegetation	Recommendation
302	002-CR-1311 -000	SQUIRE LYLES RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
303	002-CR-1311 -000	SQUIRE LYLES RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
304	002-CR-1311 -000	SQUIRE LYLES RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
310	002-CR-1253 -000	RED HILL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
312	002-CR-1253 -000	RED HILL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
317	002-CR-1256 -000	NEW BUCK CREEK RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
318	002-CR-1256 -000	NEW BUCK CREEK RD	Curve Hazard	Intersection_in_Curve	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection; Clear vegetation
319	002-CR-1256 -000	NEW BUCK CREEK RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
320	002-CR-1256 -000	NEW BUCK CREEK RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
321	002-CR-1256 -000	NEW BUCK CREEK RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
326	002-CR-1256 -000	NEW BUCK CREEK RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
327	002-CR-1256 -000	NEW BUCK CREEK RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
332	002-CR-1239 -000	OLD BUCK CREEK RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
334	002-CR-1239 -000	OLD BUCK CREEK RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
335	002-CR-1239 -000	OLD BUCK CREEK RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
336	002-CR-1239 -000	OLD BUCK CREEK RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
337	002-CR-1224 -000	S OAK FOREST CHURCH RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
340	002-CR-1239 -000	OLD BUCK CREEK RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
341	002-CR-1239 -000	OLD BUCK CREEK RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
345	002-CR-1224 -000	S OAK FOREST CHURCH RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
346	002-CR-1224 -000	S OAK FOREST CHURCH RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
347	002-CR-1224 -000	S OAK FOREST CHURCH RD	Curve Hazard	vegetation,Curve_Obscured	Yes	Install advance curve signing and chevrons; Remove Vegetation
362	002-CR-1217 -000	CARTER CHURCH RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
365	002-CR-1266 -000	OLIVER ST	Curve Hazard	vegetation	Yes	Clear vegetation
372	002-CR-1266 -000	OLIVER ST	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
374	002-CR-1266 -000	OLIVER ST	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
379	002-CR-1305 -000	LAMBERT RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
382	002-CR-1305 -000	LAMBERT RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
509	002-CR-1342 -000	FRIENDSHIP CHURCH RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons
517	002-CR-1340 -000	OAKLEY WEAVER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
520	002-CR-1340 -000	OAKLEY WEAVER RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons
521	002-CR-1340 -000	OAKLEY WEAVER RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons
523	002-CR-1340 -000	OAKLEY WEAVER RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons
524	002-CR-1340 -000	OAKLEY WEAVER RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
529	002-CR-1328 -000	MITCHELL WEAVER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
530	002-CR-1328 -000	MITCHELL WEAVER RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
531	002-CR-1328 -000	MITCHELL WEAVER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
532	002-CR-1328 -000	MITCHELL WEAVER RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
533	002-CR-1328 -000	MITCHELL WEAVER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
534	002-CR-1328 -000	MITCHELL WEAVER RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
536	002-CR-1328 -000	MITCHELL WEAVER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
537	002-CR-1328 -000	MITCHELL WEAVER RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons
539	002-CR-1328 -000	MITCHELL WEAVER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
540	002-CR-1328 -000	MITCHELL WEAVER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
541	002-CR-1328 -000	MITCHELL WEAVER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
543	002-CR-1328 -000	MITCHELL WEAVER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
544	002-CR-1328 -000	MITCHELL WEAVER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
545	002-CR-1328 -000	MITCHELL WEAVER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
546	002-CR-1328 -000	MITCHELL WEAVER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
547	002-CR-1328 -000	MITCHELL WEAVER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
548	002-CR-1328 -000	MITCHELL WEAVER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
549	002-CR-1328 -000	MITCHELL WEAVER RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons
550	002-CR-1328 -000	MITCHELL WEAVER RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
551	002-CR-1328 -000	MITCHELL WEAVER RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
555	002-CR-1041 -000	OLD GAINESVILLE RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
556	002-CR-1041 -000	OLD GAINESVILLE RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
557	002-CR-1041 -000	OLD GAINESVILLE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
559	002-CR-1041 -000	OLD GAINESVILLE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
562	002-CR-1041 -000	OLD GAINESVILLE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
563	002-CR-1041 -000	OLD GAINESVILLE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
566	002-CR-1041 -000	OLD GAINESVILLE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
570	002-CR-1020 -000	J W YORK RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons

Point ID	RT_UNIQUE	Road Name	Issue Type	Comments	Vegetation	Recommendation
571	002-CR-1020 -000	J W YORK RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
572	002-CR-1020 -000	J W YORK RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
573	002-CR-1020 -000	J W YORK RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
574	002-CR-1020 -000	J W YORK RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
575	002-CR-1020 -000	J W YORK RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
577	002-CR-1020 -000	J W YORK RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
578	002-CR-1020 -000	J W YORK RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
579	002-CR-1020 -000	J W YORK RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
580	002-CR-1020 -000	J W YORK RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
581	002-CR-1020 -000	J W YORK RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
584	002-CR-1020 -000	J W YORK RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
585	002-CR-1020 -000	J W YORK RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons
586	002-CR-1020 -000	J W YORK RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
588	002-CR-1020 -000	J W YORK RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
589	002-CR-1020 -000	J W YORK RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
590	002-CR-1020 -000	J W YORK RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
593	002-CR-1020 -000	J W YORK RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
597	002-CR-1055 -000	OLD GLASGOW RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
598	002-CR-1048 -000	WHITNEY RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
599	002-CR-1048 -000	WHITNEY RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
600	002-CR-1048 -000	WHITNEY RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
601	002-CR-1048 -000	WHITNEY RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
602	002-CR-1048 -000	WHITNEY RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
603	002-CR-1048 -000	WHITNEY RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
607	002-CR-1048 -000	WHITNEY RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
609	002-CR-1048 -000	WHITNEY RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
613	002-CR-1048 -000	WHITNEY RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
616	002-CR-1048 -000	WHITNEY RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
618	002-CR-1048 -000	WHITNEY RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
619	002-CR-1048 -000	WHITNEY RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
620	002-CR-1048 -000	WHITNEY RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
621	002-CR-1048 -000	WHITNEY RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
622	002-CR-1048 -000	WHITNEY RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
626	002-CR-1050 -000	C W JONES RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
627	002-CR-1050 -000	C W JONES RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
632	002-CR-1161 -000	DOVER CHURCH RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
633	002-CR-1161 -000	DOVER CHURCH RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
635	002-CR-1161 -000	DOVER CHURCH RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
638	002-CR-1161 -000	DOVER CHURCH RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
639	002-CR-1161 -000	DOVER CHURCH RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
640	002-CR-1161 -000	DOVER CHURCH RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
641	002-CR-1161 -000	DOVER CHURCH RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
645	002-CR-1161 -000	DOVER CHURCH RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
647	002-CR-1161 -000	DOVER CHURCH RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
648	002-CR-1161 -000	DOVER CHURCH RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
649	002-CR-1161 -000	DOVER CHURCH RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
650	002-CR-1161 -000	DOVER CHURCH RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
652	002-CR-1163 -000	PARDUE RD	Curve Hazard	vegetation,Curve_Obscured	Yes	Install advance curve signing and chevrons; Remove Vegetation
653	002-CR-1163 -000	PARDUE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
657	002-CR-1163 -000	PARDUE RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
670	002-CR-1152 -000	MAPLE GROVE CHURCH RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
4870	002-CR-1302 -000	BURNLEY RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
4874	002-CR-1302 -000	BURNLEY RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4876	002-CR-1302 -000	BURNLEY RD	Curve Hazard	vegetation,Curve_Obscured	Yes	Install advance curve signing and chevrons; Remove Vegetation
4883	002-CR-1302 -000	BURNLEY RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
4886	002-CR-1302 -000	BURNLEY RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4887	002-CR-1302 -000	BURNLEY RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons

Point ID	RT_UNIQUE	Road Name	Issue Type	Comments	Vegetation	Recommendation
4889	002-CR-1302 -000	BURNLEY RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
4890	002-CR-1302 -000	BURNLEY RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
4894	002-CR-1245 -000	JOE SHELTON RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; clear vegetation
4897	002-CR-1226 -000	STAFFORD HOLLOW RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4900	002-CR-1226 -000	STAFFORD HOLLOW RD	Curve Hazard	Curve_Obscured	Yes	Install advance curve signing and chevrons; Remove Vegetation
4901	002-CR-1226 -000	STAFFORD HOLLOW RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4902	002-CR-1226 -000	STAFFORD HOLLOW RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4907	002-CR-1226 -000	STAFFORD HOLLOW RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4908	002-CR-1226 -000	STAFFORD HOLLOW RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4911	002-CR-1226 -000	STAFFORD HOLLOW RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4914	002-CR-1229 -000	WALKERS CHAPEL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4915	002-CR-1229 -000	WALKERS CHAPEL RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
4916	002-CR-1229 -000	WALKERS CHAPEL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4920	002-CR-1229 -000	WALKERS CHAPEL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4927	002-CR-1229 -000	WALKERS CHAPEL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4929	002-CR-1229 -000	WALKERS CHAPEL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4932	002-CR-1229 -000	WALKERS CHAPEL RD	Curve Hazard	Intersection_in_Curve	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection; Clear vegetation
4933	002-CR-1229 -000	WALKERS CHAPEL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4938	002-CR-1241 -000	PERRYTOWN RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4940	002-CR-1241 -000	PERRYTOWN RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4942	002-CR-1241 -000	PERRYTOWN RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4943	002-CR-1241 -000	PERRYTOWN RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4944	002-CR-1241 -000	PERRYTOWN RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4948	002-CR-1241 -000	PERRYTOWN RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
4949	002-CR-1241 -000	PERRYTOWN RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4951	002-CR-1241 -000	PERRYTOWN RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons

Roadside Drop Off Recommendations (Allen County)

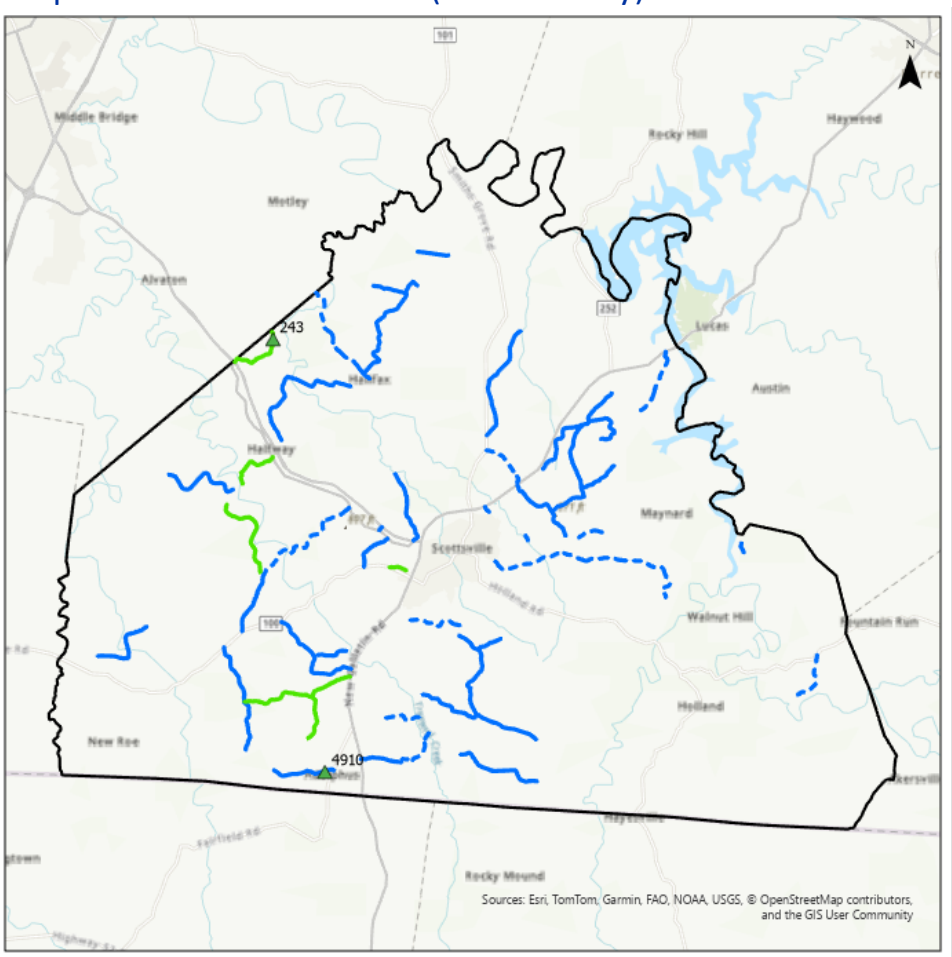


Exhibit Allen-15: Roadside Drop Off Locations

Point ID	RT_UNIQUE	Road Name	Drop Off Offset	Drop Off Height	Additional Comments	Recommendation
243	002-CR-1331 -000	ALLEN SPRINGS RD	>5	5-10		--
4910	002-CR-1226 -000	STAFFORD HOLLOW RD	>5	5-10	Small creek running along roadway	--

Exhibit Allen-16: Roadside Drop Off Recommendations

Fixed Object Recommendations (Allen County)

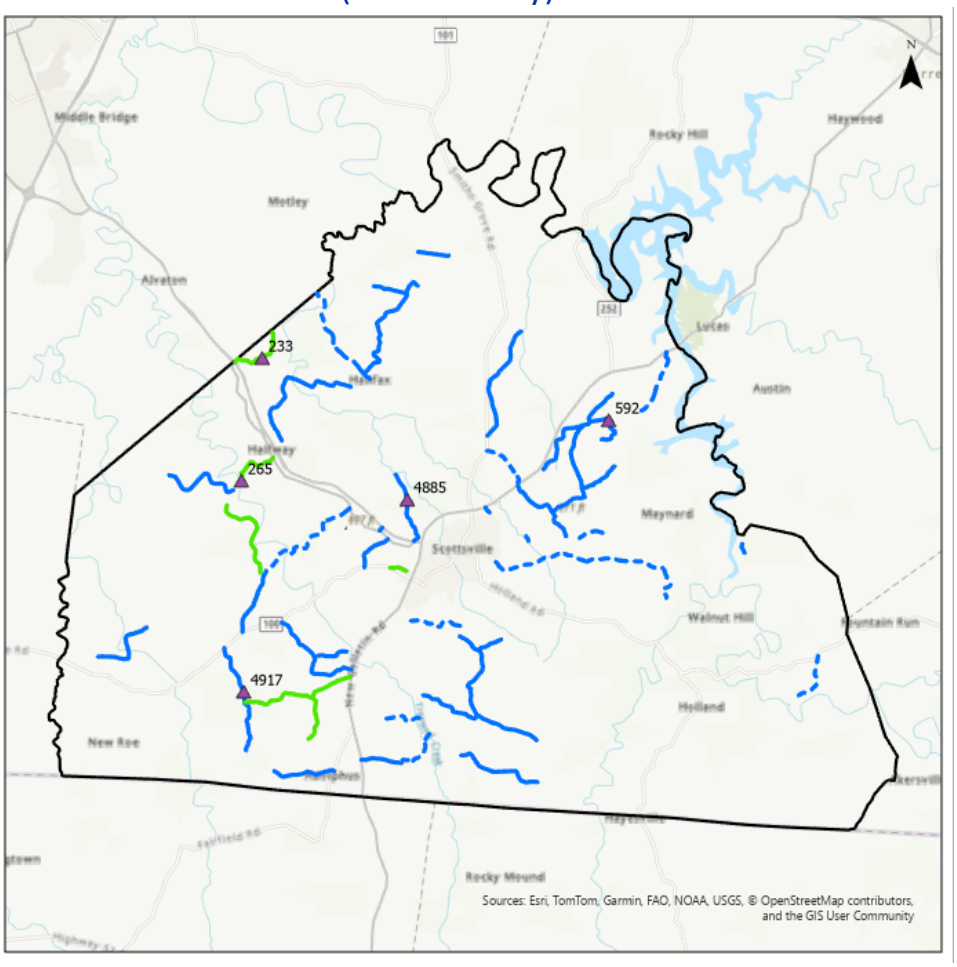


Exhibit Allen-17: Fixed Object Locations

Point ID	RT_UNIQUE	Road Name	Object	Single / Series	Offset	Recommendation
233	002-CR-1331 -000	ALLEN SPRINGS RD	Utility Pole	Single	3-5	Install Type 2 Object Marker
265	002-CR-1326 -000	HALFWAY RD	Tree	Series	>5	--
592	002-CR-1020 -000	J W YORK RD	Tree	Single	1-3	Remove
4885	002-CR-1302 -000	BURNLEY RD	other; Fence	Series	>5	--
4917	002-CR-1229 -000	WALKERS CHAPEL RD	Tree	Series	3-5	Remove if possible

Exhibit Allen-18: Fixed Object Recommendations

Guardrail Recommendations (Allen County)

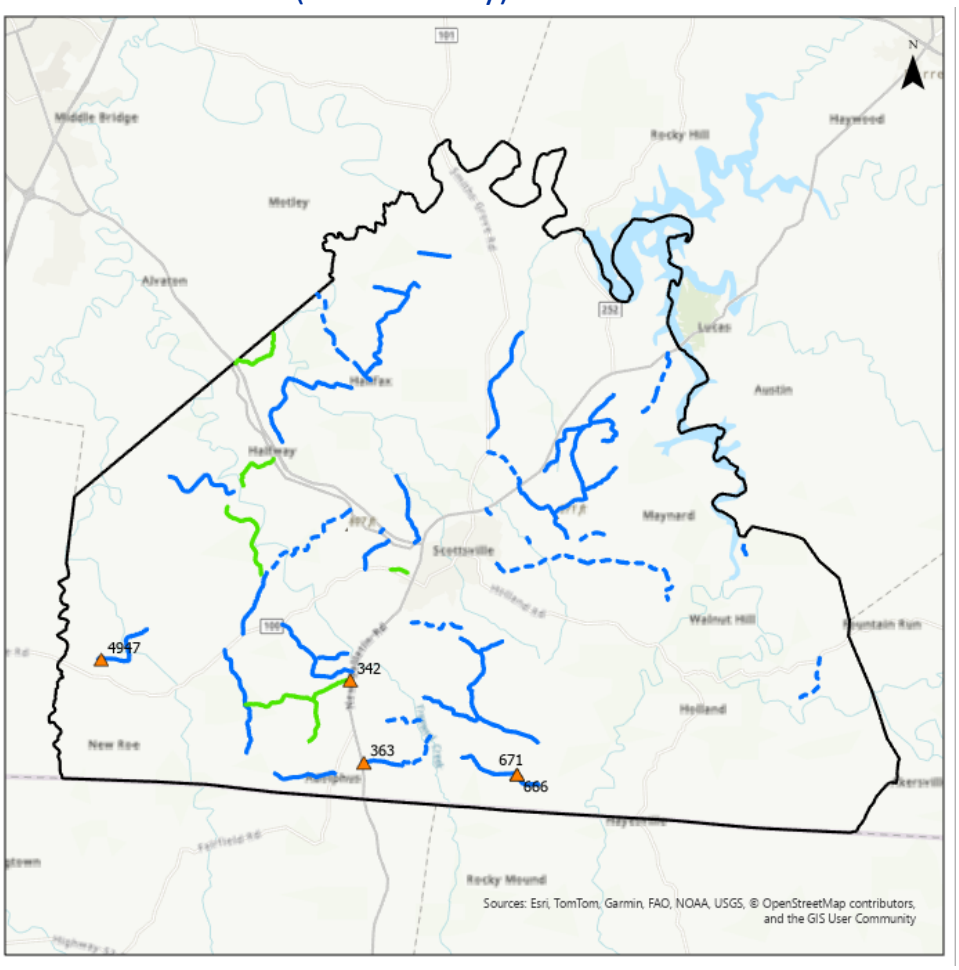


Exhibit Allen-19: Guardrail Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Condition	Meet Warrant	End Treatmen	Recommendation	Comments
342	002-CR-1239 -000	OLD BUCK CREEK RD	Guardrail	Good	Yes	All_	--	
363	002-CR-1217 -000	CARTER CHURCH RD	Guardrail	Fair	Yes	All_	--	
666	002-CR-1152 -000	MAPLE GROVE CHURCH RD	Guardrail	Poor	No	All_	Remove	
671	002-CR-1152 -000	MAPLE GROVE CHURCH RD	Guardrail	Poor	Yes	All_	Upgrade guardrail to current standards	
4947	002-CR-1241 -000	PERRYTOWN RD	Guardrail	Fair	No	None	Remove	Fence with guardrail

Exhibit Allen-20: Guardrail Locations Recommendations

Intersection Recommendations (Allen County)

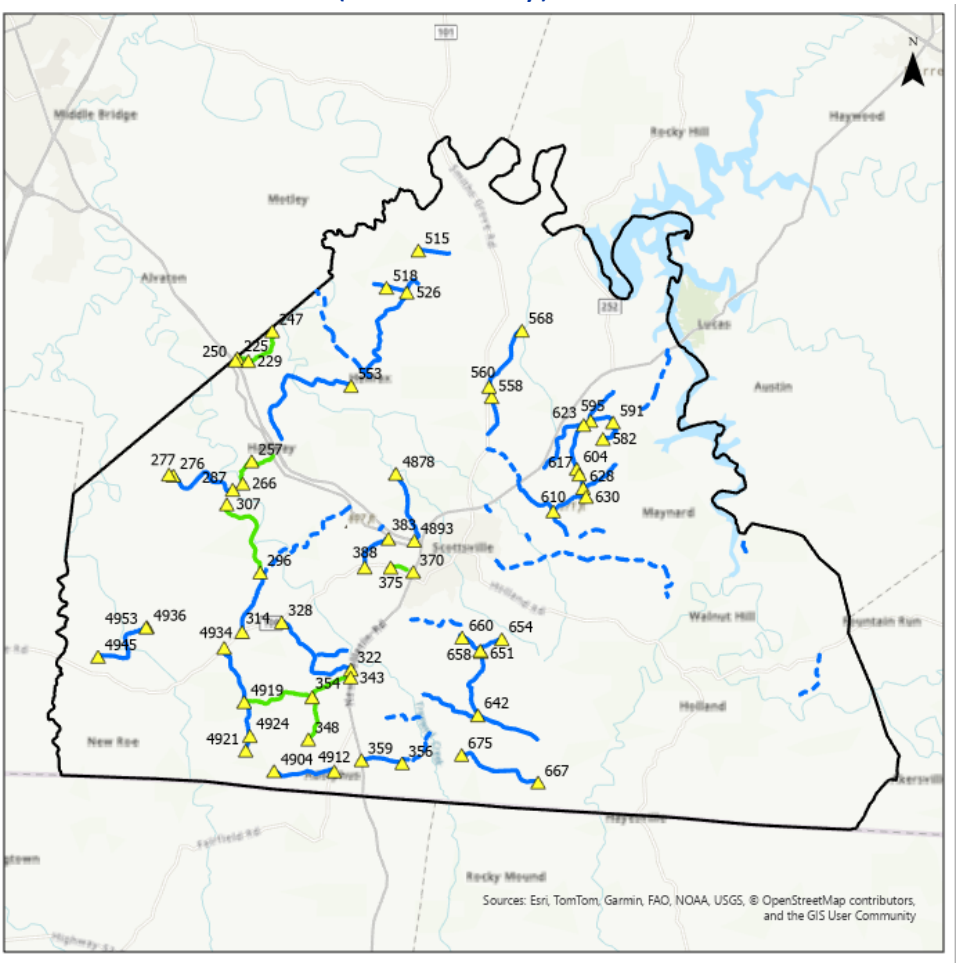


Exhibit Allen-21: Intersection Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Comments	Recommendations
225	002-CR-1331 -000	ALLEN SPRINGS RD	Intersection	No	Intersection_Skew	Consider edgeline and stop bar installation on skewed approach.
229	002-CR-1331 -000	ALLEN SPRINGS RD	Intersection	No	Intersection_Skew	Consider edgeline and stop bar installation on skewed approach.
247	002-CR-1331 -000	ALLEN SPRINGS RD	Intersection	No	other; End of road	--
250	002-CR-1331 -000	ALLEN SPRINGS RD	Intersection	No	other; End road	--
257	002-CR-1326 -000	HALFWAY RD	Intersection	No	Insufficient_Sight_Distance_at_	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
266	002-CR-1326 -000	HALFWAY RD	Intersection	No	Intersection_Obscured_on_Appro a,Insufficient_Sight_Distance_at_	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
276	002-CR-1319 -000	TRAMMEL RD	Intersection	No	other; No stop sign for intersecting road	Install missing Stop Sign at Intersecting Road
277	002-CR-1319 -000	TRAMMEL RD	Intersection	No	Intersection_Skew	Consider edgeline and stop bar installation on skewed approach.
287	002-CR-1319 -000	TRAMMEL RD	Intersection	No	other; End of road	--
296	002-CR-1311 -000	SQUIRE LYLES RD	Intersection	No	other; End of road	--
307	002-CR-1311 -000	SQUIRE LYLES RD	Intersection	No	other; End of roadway	--
314	002-CR-1253 -000	RED HILL RD	Intersection	No	other; End of road	--
322	002-CR-1256 -000	NEW BUCK CREEK RD	Intersection	No	other; End roadway	--
328	002-CR-1256 -000	NEW BUCK CREEK RD	Intersection	No	other; Stop sign covered at intersection	Replace/Relocate Stop Sign to improve visibility; Install Stop Ahead Sign on Approach
343	002-CR-1239 -000	OLD BUCK CREEK RD	Intersection	No	other; End of road	--
348	002-CR-1224 -000	S OAK FOREST CHURCH RD	Intersection	No	Intersection_Obscured_on_Appro a	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
354	002-CR-1224 -000	S OAK FOREST CHURCH RD	Intersection	No	other; End of road	--
356	002-CR-1217 -000	CARTER CHURCH RD	Intersection	No	other; End of road	--
359	002-CR-1217 -000	CARTER CHURCH RD	Intersection	No	other; End road	--
370	002-CR-1266 -000	OLIVER ST	Intersection	No	other; End	--
375	002-CR-1266 -000	OLIVER ST	Intersection	No	Intersection_Skew	Consider edgeline and stop bar installation on skewed approach.
383	002-CR-1305 -000	LAMBERT RD	Intersection	No	Intersection_Obscured_on_Appro a	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
388	002-CR-1305 -000	LAMBERT RD	Intersection	No	other; End of road	--
515	002-CR-1342 -000	FRIENDSHIP CHURCH RD	Intersection	No	other; End of roadway, no issues	--
518	002-CR-1340 -000	OAKLEY WEAVER RD	Intersection	No	Intersection_Skew	Consider edgeline and stop bar installation on skewed approach.
526	002-CR-1339 -000	HALIFAX-SETTLE RD	Intersection	No	other; End of roadway	--
553	002-CR-1328 -000	MITCHELL WEAVER RD	Intersection	No	other; No issues, end of roadway	--
558	002-CR-1041 -000	OLD GAINESVILLE RD	Intersection	No	Intersection_Skew	Consider edgeline and stop bar installation on skewed approach.
560	002-CR-1041 -000	OLD GAINESVILLE RD	Intersection	No	Intersection_Skew	Consider edgeline and stop bar installation on skewed approach.
568	002-CR-1041 -000	OLD GAINESVILLE RD	Intersection	No	other; No issue, end of roadway	--
582	002-CR-1020 -000	J W YORK RD	Intersection	No	other; No issue, end of roadway	--
591	002-CR-1020 -000	J W YORK RD	Intersection	No	Insufficient_Sight_Distance_at_	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
595	002-CR-1055 -000	OLD GLASGOW RD	Intersection	No	other; No issue, end of road	--
604	002-CR-1048 -000	WHITNEY RD	Intersection	No	Intersection_Skew	Consider edgeline and stop bar installation on skewed approach.
610	002-CR-1052 -000	DURHAM SPRINGS RD	Intersection	No	other; No stop sign	Install missing Stop Sign
617	002-CR-1048 -000	WHITNEY RD	Intersection	Yes	Intersection_Obscured_on_Appro a	Investigate Sight Distance Restriction/Clear Vegetation; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
623	002-CR-1055 -000	OLD GLASGOW RD	Intersection	No	other; No issue, end of roadway	--
628	002-CR-1048 -000	WHITNEY RD	Intersection	No	Insufficient_Sight_Distance_at_	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
630	002-CR-1048 -000	WHITNEY RD	Intersection	No	other; No stop signs at intersection	Install missing Stop Sign
642	002-CR-1160 -000	UNION CHAPEL RD	Intersection	No	Intersection_Obscured_on_Appro a	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
651	002-CR-1161 -000	DOVER CHURCH RD	Intersection	No	Intersection_Skew	Consider edgeline and stop bar installation on skewed approach.
654	002-CR-1163 -000	PARDUE RD	Intersection	No	Intersection_Obscured_on_Appro a	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
658	002-CR-1161 -000	DOVER CHURCH RD	Intersection	No	Intersection_Skew	Consider edgeline and stop bar installation on skewed approach.
660	002-CR-1161 -000	DOVER CHURCH RD	Intersection	No	other; End roadway, no issues	--
667	002-CR-1152 -000	MAPLE GROVE CHURCH RD	Intersection	No	Intersection_Skew	Consider edgeline and stop bar installation on skewed approach.
675	002-CR-1152 -000	MAPLE GROVE CHURCH RD	Intersection	No	Intersection_Skew	Consider edgeline and stop bar installation on skewed approach.
4878	002-CR-1302 -000	BURNLEY RD	Intersection	No	Intersection_Obscured_on_Appro a	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs

Exhibit Allen-22: Intersection Recommendations (1 of 2)

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Comments	Recommendations
4893	002-CR-1302 -000	BURNLEY RD	Intersection	No	other; Ends at busy highway	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
4904	002-CR-1226 -000	STAFFORD HOLLOW RD	Intersection	No	Intersection_Obscured_on_Appro a	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
4912	002-CR-1226 -000	STAFFORD HOLLOW RD	Intersection	No	other; End of roadway	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
4919	002-CR-1229 -000	WALKERS CHAPEL RD	Intersection	No	Intersection_Obscured_on_Appro a	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
4921	002-CR-1229 -000	WALKERS CHAPEL RD	Intersection	No	other; No issue, end of roadway	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
4924	002-CR-1229 -000	WALKERS CHAPEL RD	Intersection	No	Intersection_Obscured_on_Appro a	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
4934	002-CR-1229 -000	WALKERS CHAPEL RD	Intersection	No	other; No issue, end of road	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
4936	002-CR-1241 -000	PERRYTOWN RD	Intersection	No	Intersection_Skew	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
4945	002-CR-1241 -000	PERRYTOWN RD	Intersection	No	Intersection_Obscured_on_Appro a	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
4953	002-CR-1241 -000	PERRYTOWN RD	Intersection	No	other; No stop signs, end of county maintenance	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs

Exhibit Allen-22: Intersection Recommendations (2 of 2)

Other Recommendations (Allen County)

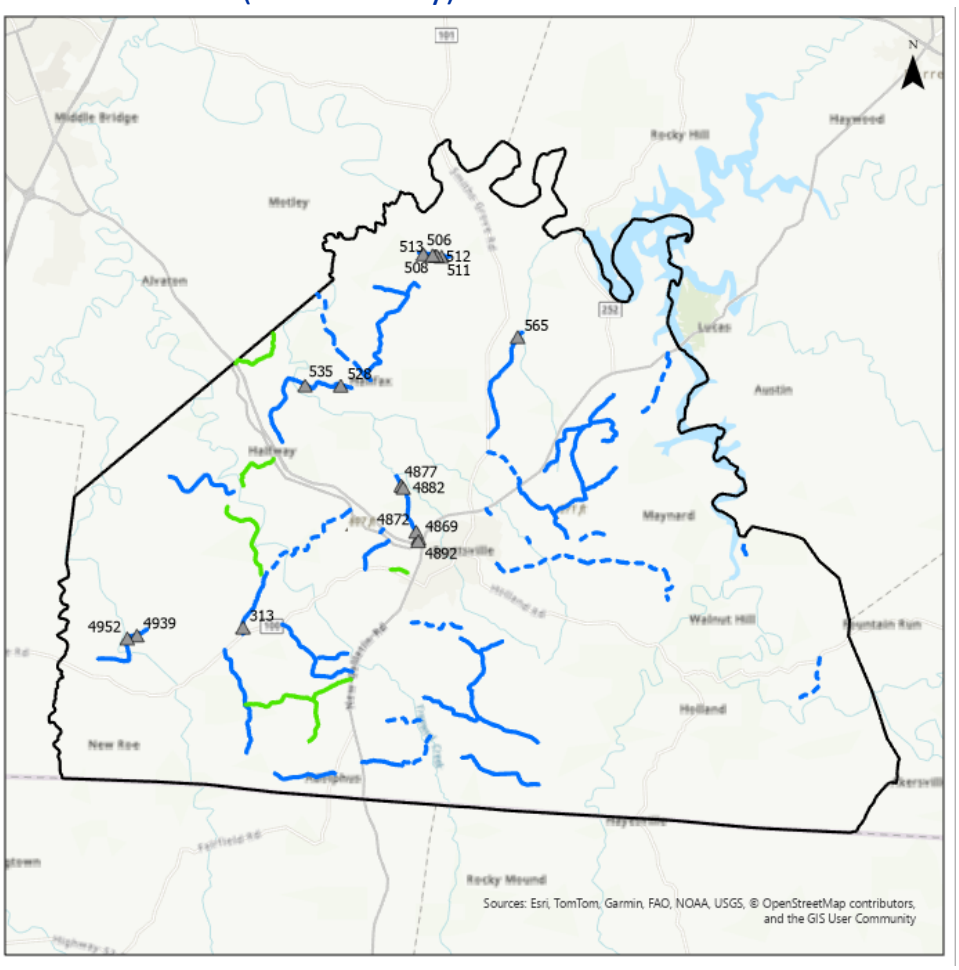


Exhibit Allen-23: Other Item Locations

Point ID	RT_UNIQUE	RD_NAME	Description	Recommendation
313	002-CR-1253 -000	RED HILL RD	Large hill blocking view	Install "Hill Blocks Sight Distance" Sign.
506	002-CR-1342 -000	FRIENDSHIP CHURCH RD	Hill blocking view	Install "Hill Blocks Sight Distance" Sign.
508	002-CR-1342 -000	FRIENDSHIP CHURCH RD	Hill blocking view	Install "Hill Blocks Sight Distance" Sign.
511	002-CR-1342 -000	FRIENDSHIP CHURCH RD	Hill blocking view	Install "Hill Blocks Sight Distance" Sign.
512	002-CR-1342 -000	FRIENDSHIP CHURCH RD	Hill blocking view	Install "Hill Blocks Sight Distance" Sign.
513	002-CR-1342 -000	FRIENDSHIP CHURCH RD	Hill blocking view	Install "Hill Blocks Sight Distance" Sign.
528	002-CR-1328 -000	MITCHELL WEAVER RD	Hill blocking view	Install "Hill Blocks Sight Distance" Sign.
535	002-CR-1328 -000	MITCHELL WEAVER RD	Hill blocking view	Install "Hill Blocks Sight Distance" Sign.
565	002-CR-1041 -000	OLD GAINESVILLE RD	Stream along roadway	--
4869	002-CR-1302 -000	BURNLEY RD	Blind hill	Install "Hill Blocks Sight Distance" Sign.
4872	002-CR-1302 -000	BURNLEY RD	Hill	Install "Hill Blocks Sight Distance" Sign.
4877	002-CR-1302 -000	BURNLEY RD	Hill	Install "Hill Blocks Sight Distance" Sign.
4882	002-CR-1302 -000	BURNLEY RD	Hill	Install "Hill Blocks Sight Distance" Sign.
4892	002-CR-1302 -000	BURNLEY RD	Business area, has sign	--
4939	002-CR-1241 -000	PERRYTOWN RD	Hill	Install "Hill Blocks Sight Distance" Sign.
4952	002-CR-1241 -000	PERRYTOWN RD	Small ditch	--

Exhibit Allen-24: Other Item Recommendations

Signing Recommendations (Allen County)

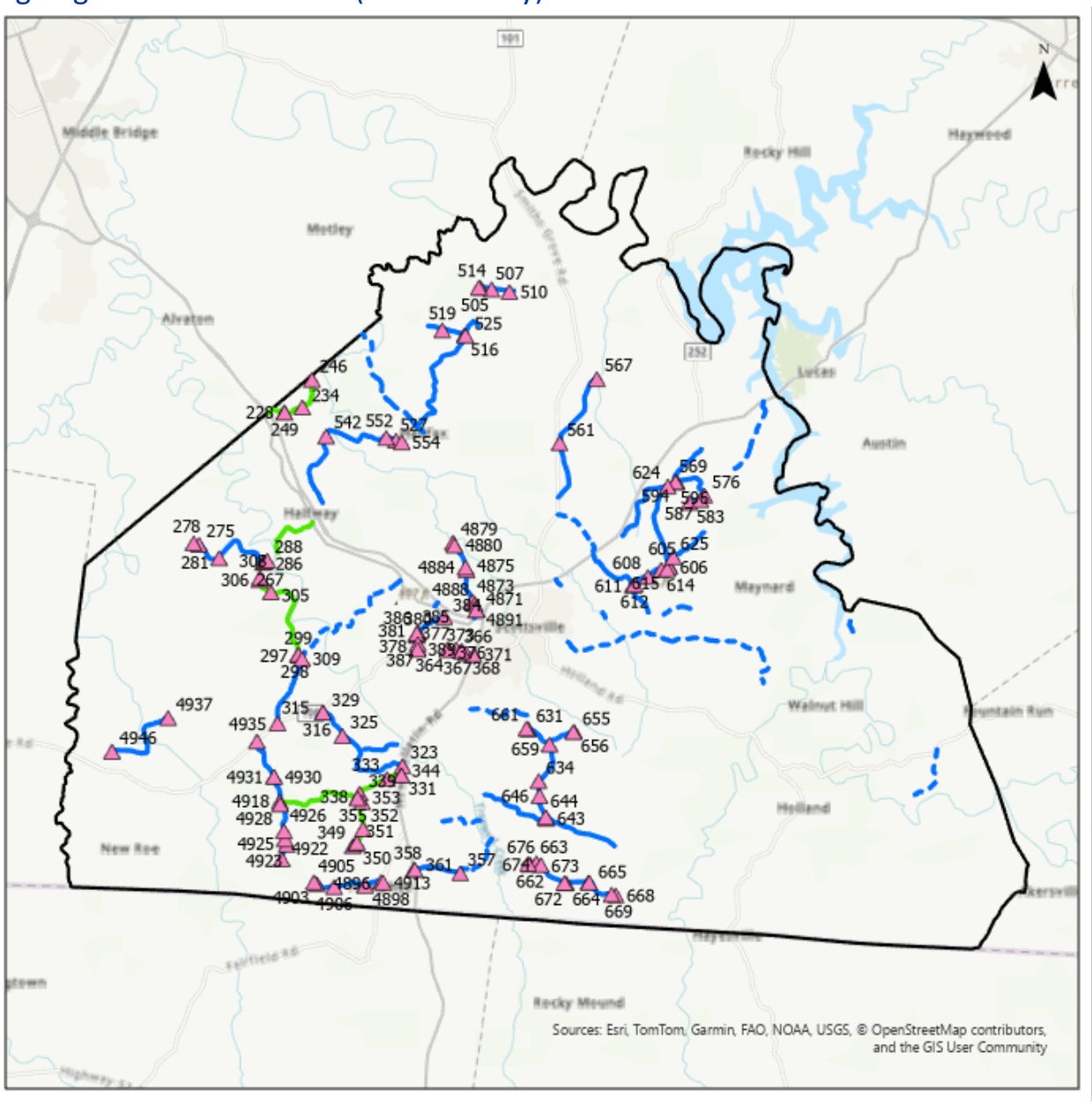


Exhibit Allen-23: Sign Locations

As part of the RSA data collection effort, existing signs were inventoried along reviewed Focus Roadways, including a condition assessment and a photo of each sign. Additionally, preliminary Advisory Speed recommendations were calculated for each focus roadway to assist in the installation of horizontal alignment (curve) signs. Signing and advisory speed information is provided in digital format at https://kyt2.uky.edu/braddSAP.

APPENDIX E: BARREN COUNTY SAFETY ACTION PLAN

Barren County Overview

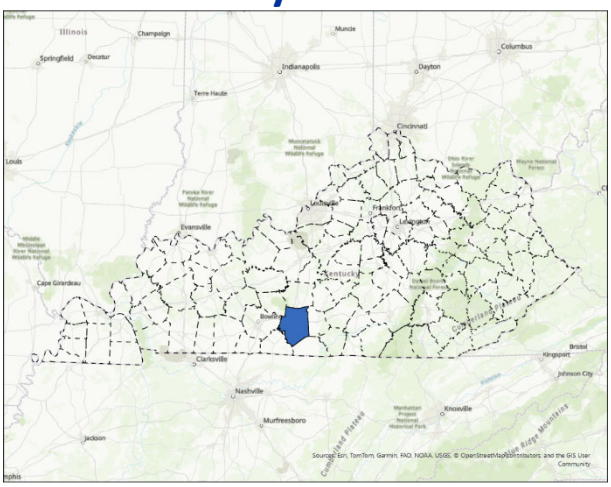


Exhibit Barren-1: Location Map

Key Information Table Barren County	
Population	45,008
Population in Persistent Poverty	22%
Underserved Community	**No**
Fatalities (All Roads)	51
Fatalities (County Roads)	8
Fatality Rate per 100,000 persons	**113.31**
County Road Mileage	614.6
State Road Mileage	342.7
Total Mileage	**957.4**

Exhibit Barren-2: Key Information

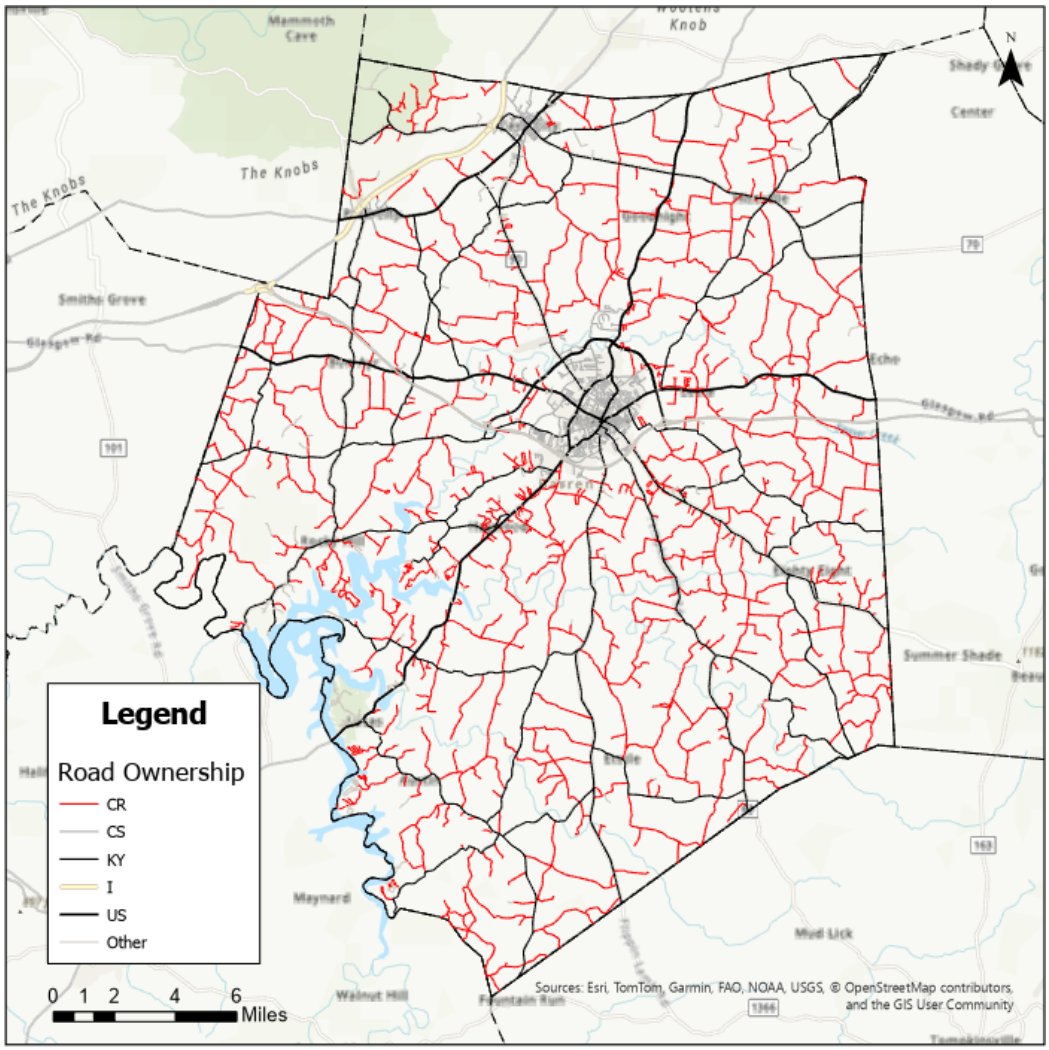


Figure Barren-3: Map of County Roadways

Crash Analysis

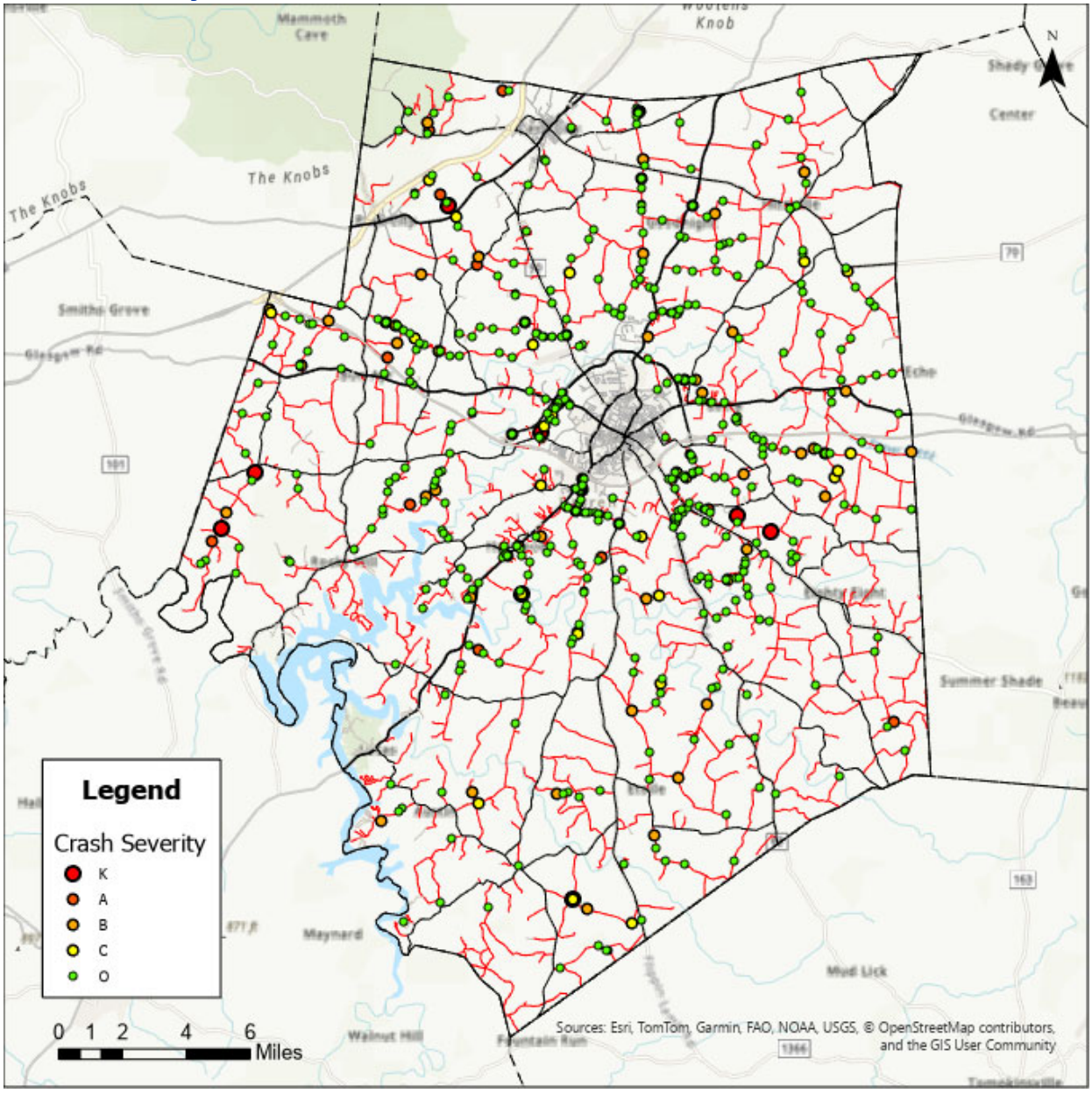
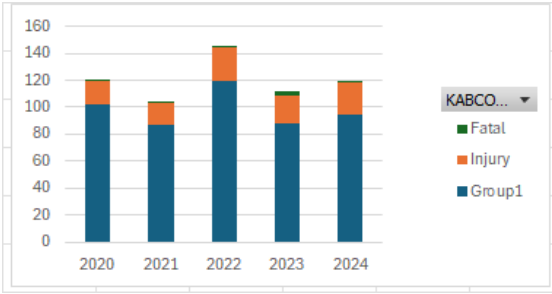
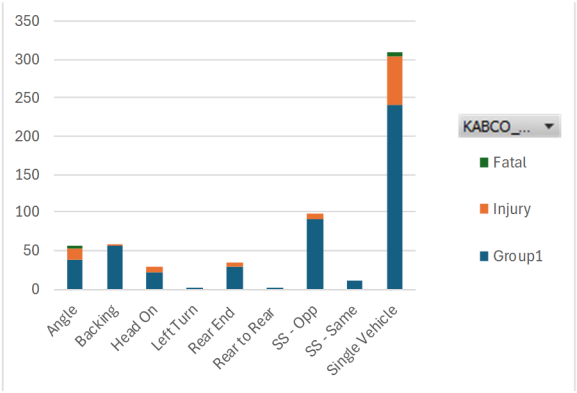


Figure Barren-4: Map of County Road Crashes



Year	Prop. Damage Only	Injury	Fatal	Total
2020	102	17	1	**120**
2021	87	16	1	**104**
2022	120	24	1	**145**
2023	88	21	3	**112**
2024	95	23	2	**120**

Figure Barren-5: Crash Distribution by Year



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	39	14	3	**56**
BACKING	57	2	0	**59**
HEAD ON	22	7	0	**29**
OPPOSING LEFT TURN	2	0	0	**2**
REAR END	29	6	0	**35**
REAR TO REAR	1	0	0	**1**
SIDESWIPE-OPPOSITE	90	8	0	**98**
SIDESWIPE-SAME DIR	12	0	0	**12**
SINGLE VEHICLE	240	64	5	**309**

Exhibit Barren-6: Crash Frequency and Severity by Manner of Collision

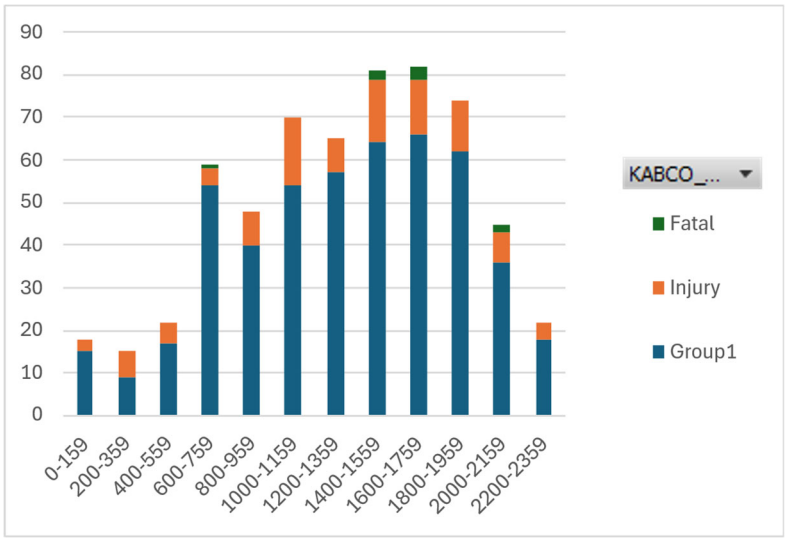


Figure Barren-7: Crashes and Severity by Time of Day

Focus Roadways

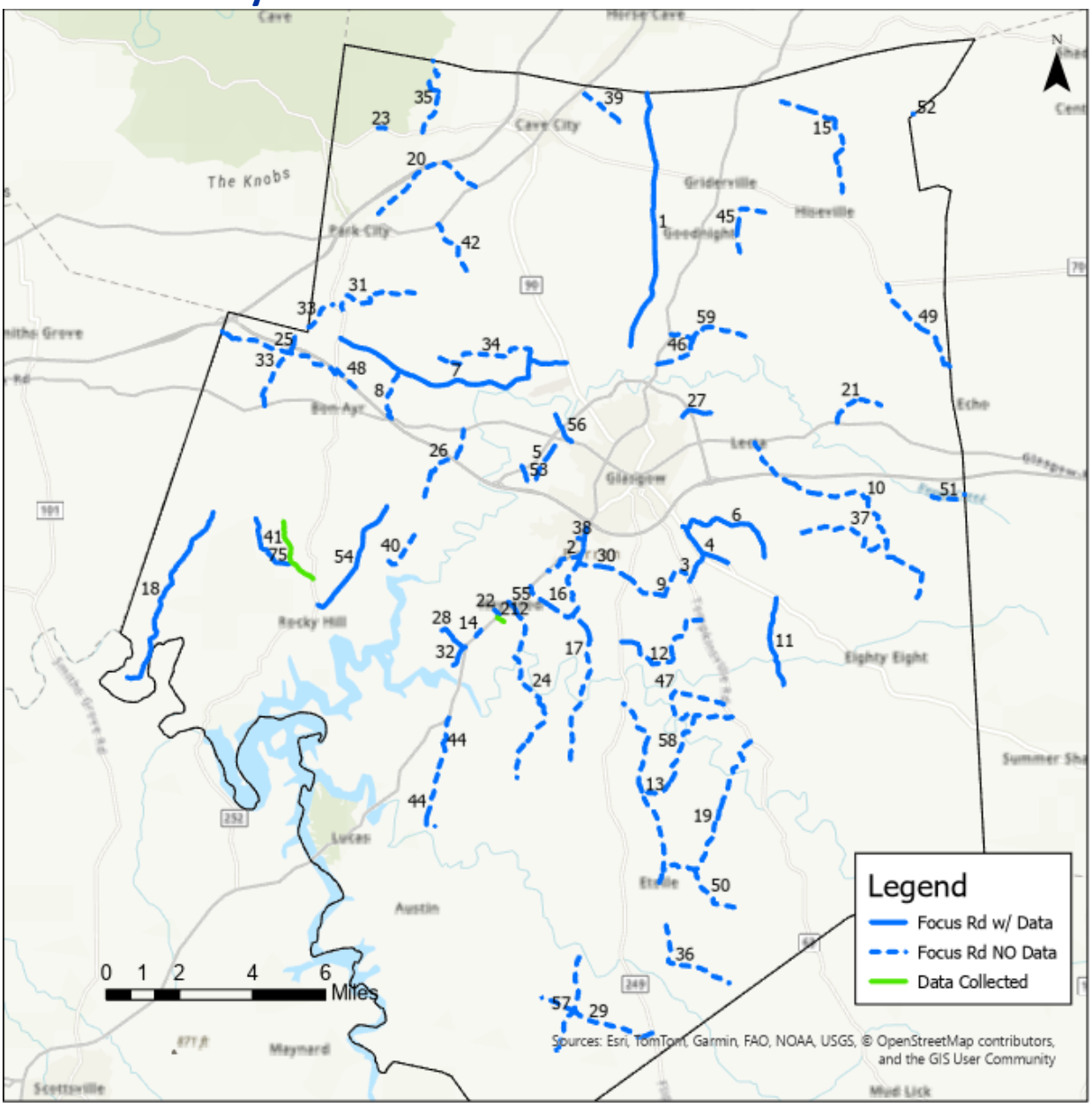


Exhibit Barren-8: Focus Roads

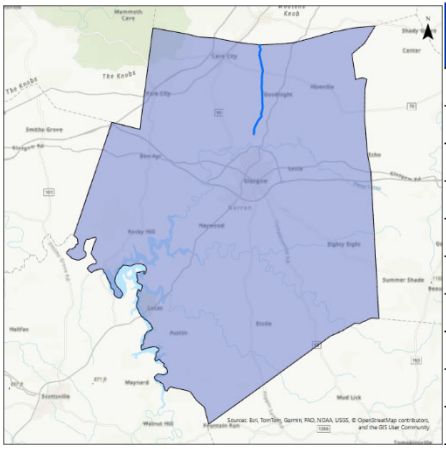
RT_UNIQUE	Length	County	Road Name	Injury Crash	Fatal Crash	PDO	Crash Score	Use Score	Rank	Focus Rd	Data
Barren											
005-CR-1069 -000	7.20	Barren	OLD MUNFORDVILLE RD	5	2	29	3.33	0.37	1	1	1
005-CR-1235 -000	1.89	Barren	PRITCHARDSVILLE RD	2	2	9	3.21	0.57	2	1	0
005-CR-1103 -000	0.80	Barren	SILOAM RD	1	1	9	0.87	3.12	3	1	1
005-CR-1474 -000	1.71	Barren	GREEN VALLEY RD	0	0	7	1.82	0.35	4	1	1
005-CR-1366 -000	1.28	Barren	DONNELLEY DR	2	3	10	1.79	0.30	5	1	0
005-CR-1001 -000	3.10	Barren	HOLLOW RD	1	4	8	1.53	0.21	6	1	1
005-CR-1374 -000	7.17	Barren	DRIPPING SPRINGS RD	1	2	26	1.48	0.17	7	1	1
005-CR-1422 -000	1.51	Barren	OAK HILL SCHOOL RD	3	0	5	1.45	0.10	8	1	0
005-CR-1101 -000	2.35	Barren	WILLIE GROCE RD	2	1	5	1.23	0.36	9	1	0
005-CR-1010 -000	7.60	Barren	LECTA KINO RD	0	4	14	1.22	0.16	10	1	0
005-CR-1164 -000	2.55	Barren	WHITES CHAPEL RD	2	1	3	1.18	0.18	11	1	1
005-CR-1111 -000	3.63	Barren	BRISTLETOWN RD	2	1	3	1.18	0.16	12	1	0
005-CR-1187 -000	5.47	Barren	MT PLEASANT RD	2	1	3	1.18	0.10	13	1	0
005-CR-1301 -000	0.36	Barren	COLLINS LN	0	0	0	0.00	2.50	14	1	0
005-CR-1049 -000	4.50	Barren	HISEVILLE BEAR WALLOW RD	2	0	5	1.00	0.21	15	1	0
005-CR-1239 -000	1.57	Barren	HAYWOOD CEDAR GROVE RD	2	0	3	0.96	0.24	16	1	0
005-CR-1236 -000	6.30	Barren	OIL WELL RD	1	1	12	0.94	0.24	17	1	0
005-CR-1316 -000	5.64	Barren	COLESBEND RD	2	0	4	0.98	0.12	18	1	1
005-CR-1186 -000	5.18	Barren	HAPPY HOLLOW RD	2	0	3	0.96	0.15	19	1	0
005-CR-1406 -000	3.47	Barren	HERBERT TURNER RD	1	2	4	0.99	0.08	20	1	0
005-CR-1034 -000	1.61	Barren	ARNETT GROVE RD	2	0	0	0.89	0.15	21	1	0
005-CR-1357F -000	0.20	Barren	WINDY HILL RD	1	0	2	0.49	0.92	22	1	0
005-CR-1401 -000	0.32	Barren	ROCK CABIN RD	0	0	0	0.00	1.77	23	1	0
005-CR-1243 -000	5.81	Barren	MATTHEWS MILL RD	1	0	15	0.78	0.14	24	1	0
005-CR-1420 -000	3.50	Barren	OAK GROVE CHURCH RD	1	1	4	0.76	0.15	25	1	0
005-CR-1445 -000	2.50	Barren	BISHOP RD	1	1	3	0.74	0.09	26	1	0
005-CR-1094 -000	0.89	Barren	FRANKS MILL RD	0	1	10	0.45	0.56	27	1	0
005-CR-1334 -000	0.86	Barren	NEEDMORE SCHOOL RD	0	1	2	0.27	0.92	28	1	1
005-CR-1178 -000	3.33	Barren	TRACY RD	1	0	1	0.47	0.45	29	1	0
005-CR-1150 -000	1.45	Barren	BEECHTREE LN	0	0	8	0.18	1.03	30	1	0
005-CR-1416 -000	2.74	Barren	IRON MOUNTAIN RD	1	1	0	0.67	0.03	31	1	0
005-CR-1704D -000	0.66	Barren	OLD SCOTTSVILLE LOOP 2 RD	1	0	1	0.47	0.36	32	1	1
005-CR-1419 -000	3.44	Barren	MILLSTOWN RD	1	0	3	0.51	0.17	33	1	0
005-CR-1377 -000	3.27	Barren	CARDEN RD	1	0	5	0.56	0.07	34	1	0
005-CR-1396 -000	2.53	Barren	S TOOHEY RIDGE RD	1	0	2	0.49	0.19	35	1	0
005-CR-1172 -000	3.56	Barren	DOVER CHURCH RD	1	0	4	0.54	0.06	36	1	0
005-CR-1018 -000	2.99	Barren	BLUFF SPRINGS RD	1	0	4	0.54	0.03	37	1	0
005-CR-1703 -000	0.20	Barren	SOUTH FORK RD	1	0	2	0.49	0.11	38	1	0
005-CR-1073 -000	1.48	Barren	LES TURNER RD	1	0	1	0.47	0.14	39	1	0
005-CR-1708 -000	1.40	Barren	GARRETTS HIDEOUT RD	1	0	2	0.49	0.06	40	1	0
005-CR-1322 -000	1.91	Barren	YOUNG RD	1	0	2	0.49	0.04	41	1	1
005-CR-1380 -000	1.72	Barren	GATEWAY CT	1	0	1	0.47	0.08	42	1	0
005-CR-1043 -000	0.64	Barren	BUCK WILLIAMS RD	1	0	0	0.45	0.11	43	1	0
005-CR-1298 -000	3.36	Barren	WINN SCHOOL RD	1	0	0	0.45	0.08	44	1	0
005-CR-1059 -000	1.91	Barren	BUNCH RD	1	0	1	0.47	0.03	45	1	0
005-CR-1088 -000	1.41	Barren	HUTCHERSON RD	1	0	0	0.45	0.07	46	1	0
005-CR-1199 -000	2.83	Barren	WELLS RD	1	0	1	0.47	0.01	47	1	0
005-CR-1455 -000	0.76	Barren	DISMAN RD	1	0	0	0.45	0.04	48	1	0
005-CR-1038 -000	3.03	Barren	BIG MEADOW RD	0	0	8	0.18	0.56	49	1	0
005-CR-1170 -000	1.69	Barren	BUTTON RD	1	0	0	0.45	0.02	50	1	0
005-CR-1093 -000	0.97	Barren	PEERS RD	1	0	0	0.45	0.01	51	1	0
005-CR-1053 -000	0.04	Barren	PARK SAVOYARD RD	0	0	0	0.00	0.86	52	1	0
005-CR-1367 -000	0.45	Barren	BOB LEWIS RD	0	0	2	0.05	0.76	53	1	0
005-CR-1325 -000	3.59	Barren	BECKTON ROCKY HILL RD	0	0	10	0.23	0.37	54	1	1
005-CR-1357H -000	0.10	Barren	W MATTHEWS MILL RD	0	0	0	0.00	0.79	55	1	0
005-CR-1368 -000	0.91	Barren	OIL CITY RD	0	0	10	0.23	0.29	56	1	1
005-CR-1267 -000	2.80	Barren	DEFEATED CREEK RD	0	0	2	0.05	0.65	57	1	0
005-CR-1192 -000	4.20	Barren	WOODS STORE ETOILE RD	0	1	4	0.32	0.08	58	1	0
005-CR-1087 -000	2.41	Barren	TICK RIDGE RD	0	0	8	0.18	0.32	59	1	0
005-CR-1317 -000	1.18	Barren	BOATMAN RD	0	1	2	0.27	0.08	60	0	1
005-CR-1323 -000	1.97	Barren	STEAM MILL RD	0	0	0	0.00	0.35	75	0	1
005-CR-1747 -000	0.24	Barren	KATYBETH LN	0	0	1	0.02	0.03	212	0	1

Exhibit Barren-9: List of Focus Roadways

Recommended Improvements (Top 5 Roads)

OLD MUNFORDVILLE RD(005-CR-1069 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	2	0	0	**2**
BACKING	1	0	0	**1**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	1	0	**1**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	6	1	0	**7**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	15	4	0	**19**
Total	**24**	**6**	**0**	**30**

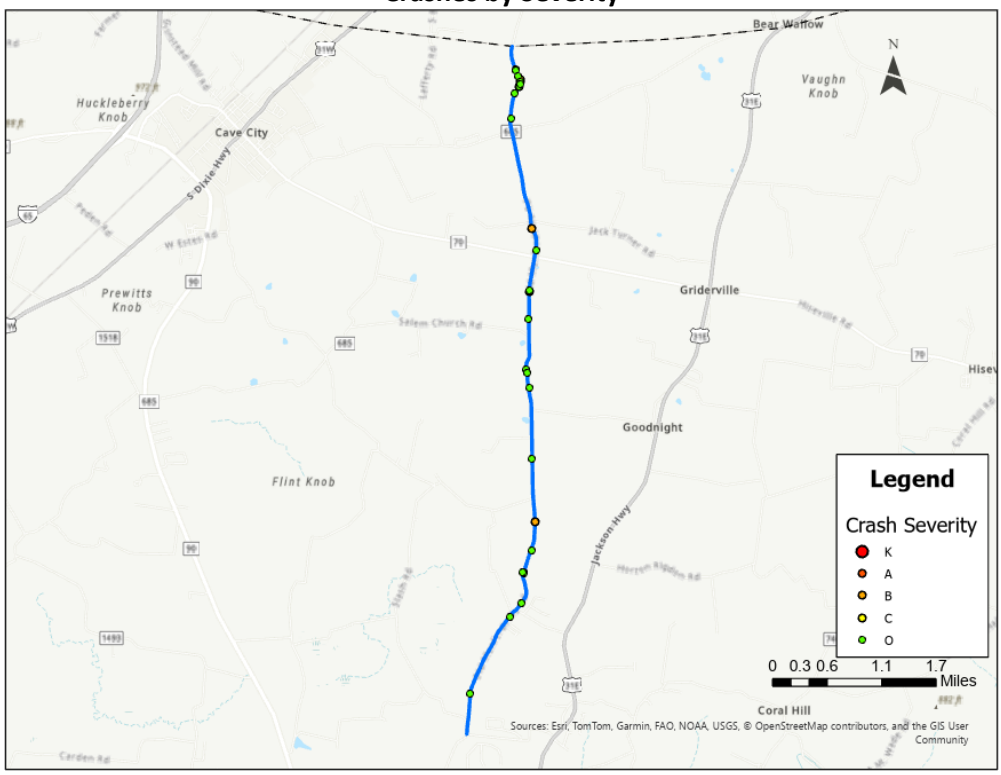
General Roadway Conditions

RT_UNIQUE	Road Name	Pvmt Width (ft	Pavement Conditio	Roadside Hazard Rati	Shoulder Improve ('
005-CR-1069 -000	OLD MUNFORDVILLE RD	20	5	1	0-20
005-CR-1069 -000	OLD MUNFORDVILLE RD	20	4	1	0-20

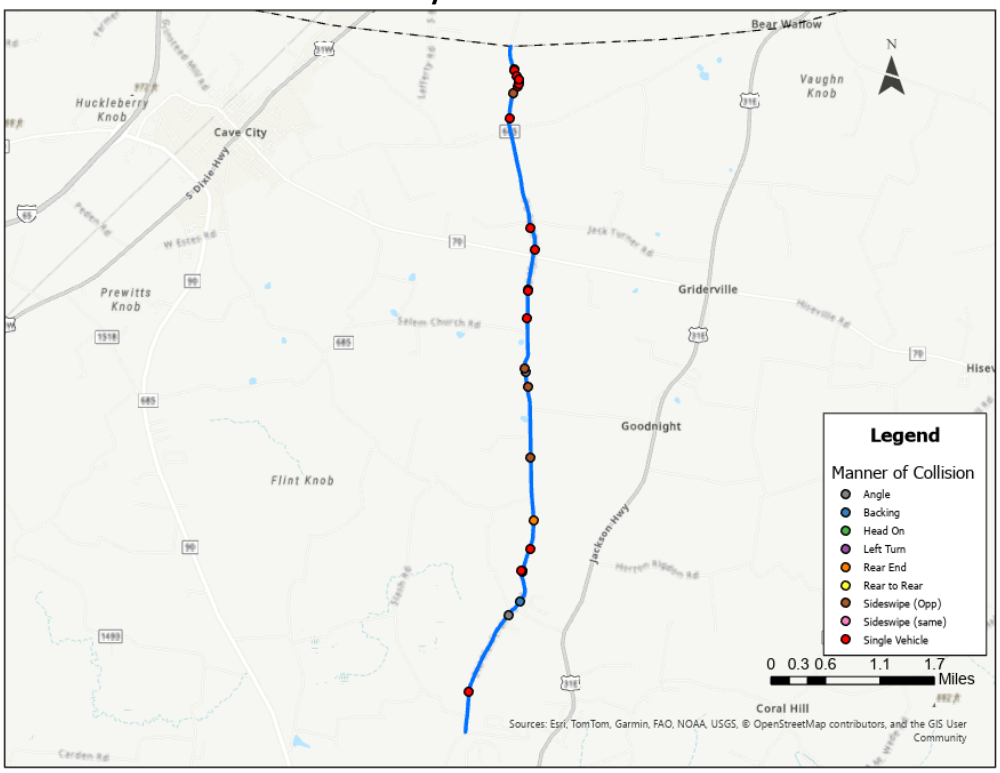
Roadway Typical Section



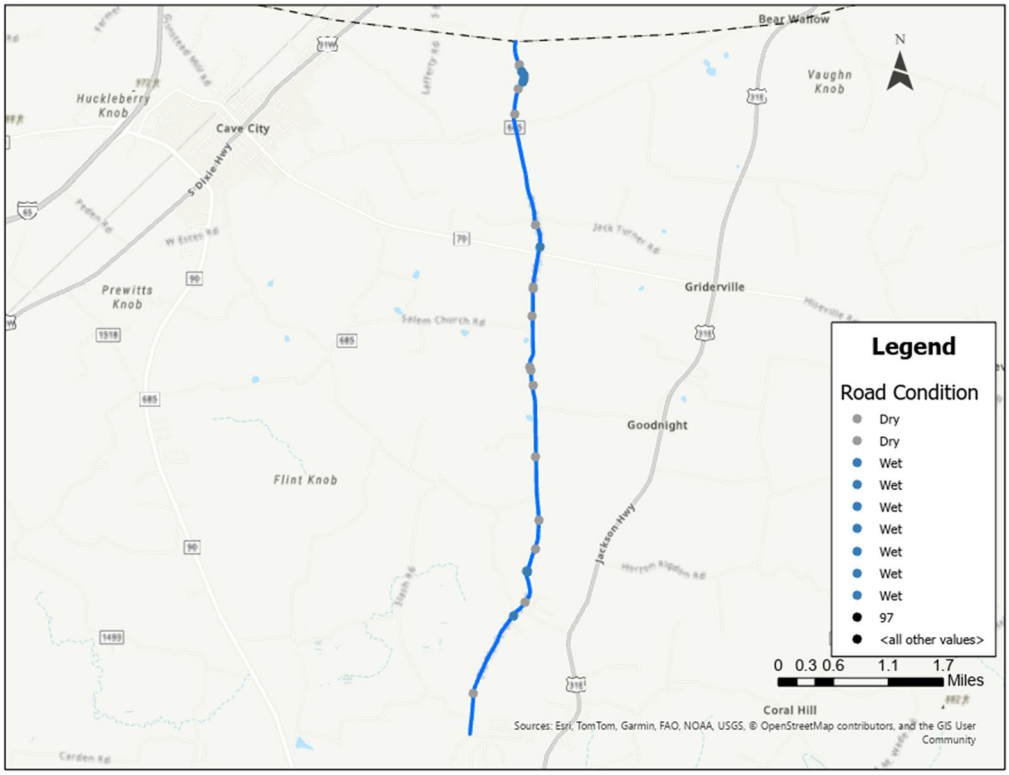
Crashes by Severity



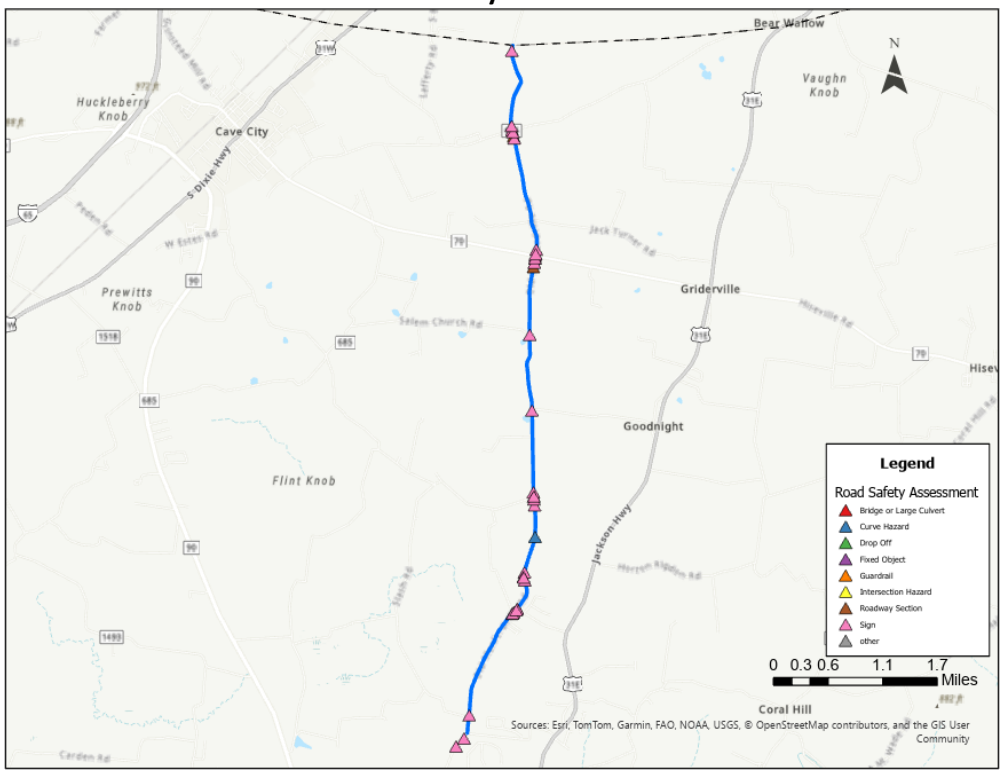
Crashes by Manner of Collision



Crashes by Road Condition



Road Safety Assessment



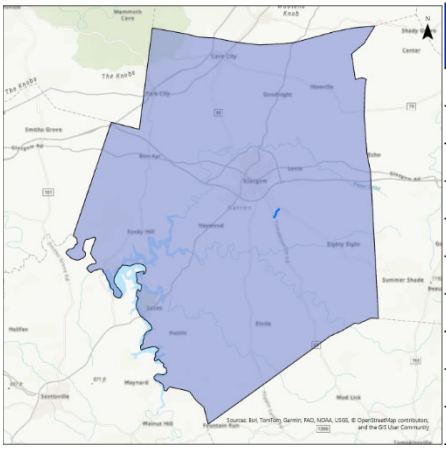
General Recommendations

Point ID	RT_UNIQUE	Road Name	Pvmt Width (f	Pavement Conditi	Roadside Hazard Rating	Shoulder Improve	Additional Comments	Improve Should	Edgeline[1]	Curve Signin	Other Recommendations
5329	005-CR-1069 -000	OLD MUNFORDVILLE RD	20	5	1	0-20	Good roadway, fresh pavement			✓	Consider Edgeline and Centerline
5333	005-CR-1069 -000	OLD MUNFORDVILLE RD	20	4	1	0-20	Older pavement but still in good condition			✓	Consider Edgeline and Centerline

Point ID	RT_UNIQUE	Road Name	Issue Type	Condition	End Treatments	Recommendation
5351	005-CR-1069 -000	OLD MUNFORDVILLE RD	Guardrail	Good	All_	--
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Recommendation**	
5340	005-CR-1069 -000	OLD MUNFORDVILLE RD	Intersection	No	Intersection_Skew	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5354	005-CR-1069 -000	OLD MUNFORDVILLE RD	Intersection	No	Intersection_Obscured_on_Approa	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Bridge Width**	**OM Present**	**Recommendation**
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Bridge Width**	**OM Present**	**Recommendation**
5350	005-CR-1069 -000	OLD MUNFORDVILLE RD	Bridge or Large Culvert	18	3	Install Type 3 Object Markers where missing.
5358	005-CR-1069 -000	OLD MUNFORDVILLE RD	Bridge or Large Culvert	18	3	Install Type 3 Object Markers where missing.
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Comments**	**Recommendation**
5337	005-CR-1069 -000	OLD MUNFORDVILLE RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5347	005-CR-1069 -000	OLD MUNFORDVILLE RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5348	005-CR-1069 -000	OLD MUNFORDVILLE RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5353	005-CR-1069 -000	OLD MUNFORDVILLE RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5360	005-CR-1069 -000	OLD MUNFORDVILLE RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons

SILOAM RD(005-CR-1103 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	2	0	0	**2**
BACKING	2	0	0	**2**
HEAD ON	2	0	0	**2**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	0	0	0	**0**
SIDESWIPE-SAME DIR	1	0	0	**1**
SINGLE VEHICLE	3	0	0	**3**
Total	**10**	**0**	**0**	**10**

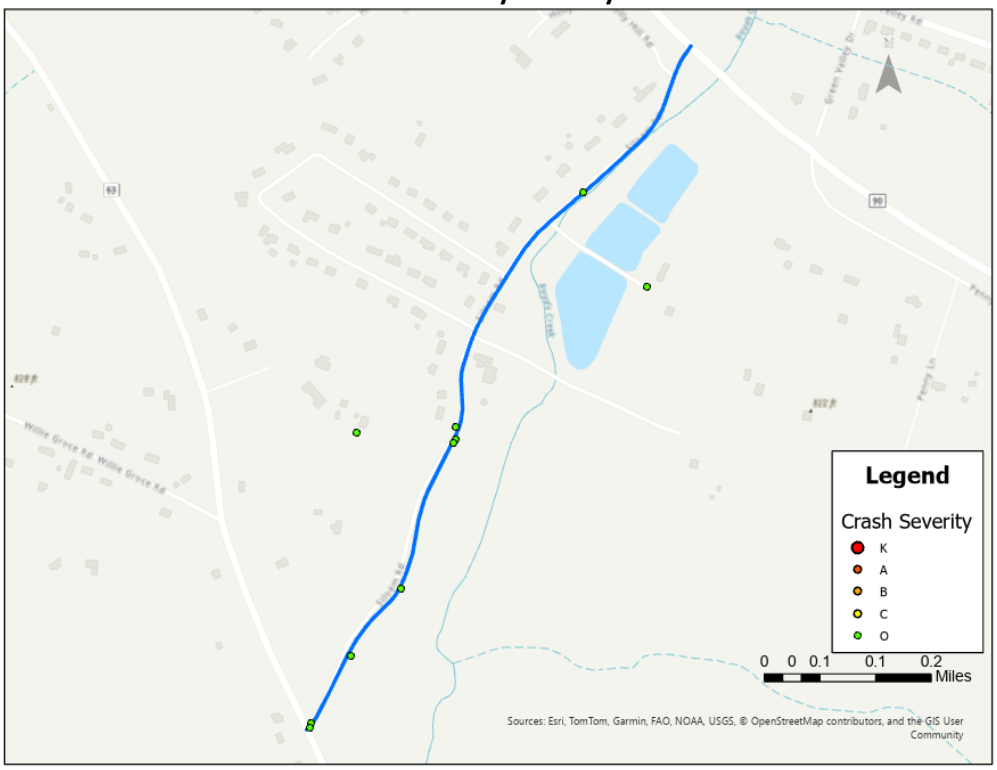
General Roadway Conditions

RT_UNIQUE	Road Name	Pvmt Width (ft	Pavement Conditio	Roadside Hazard Rati	Shoulder Improve ('
021-CR-1019 -000	BOONE RD	15	2	6	40-60
021-CR-1019 -000	BOONE RD	15	2	5	40-60

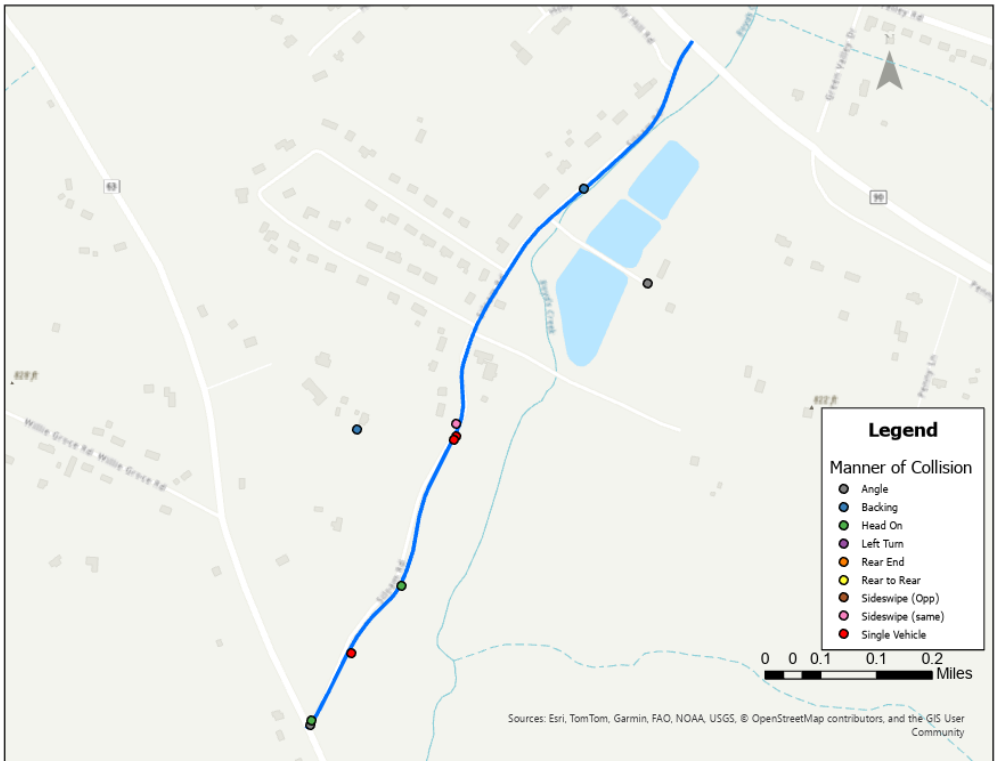
Roadway Typical Section



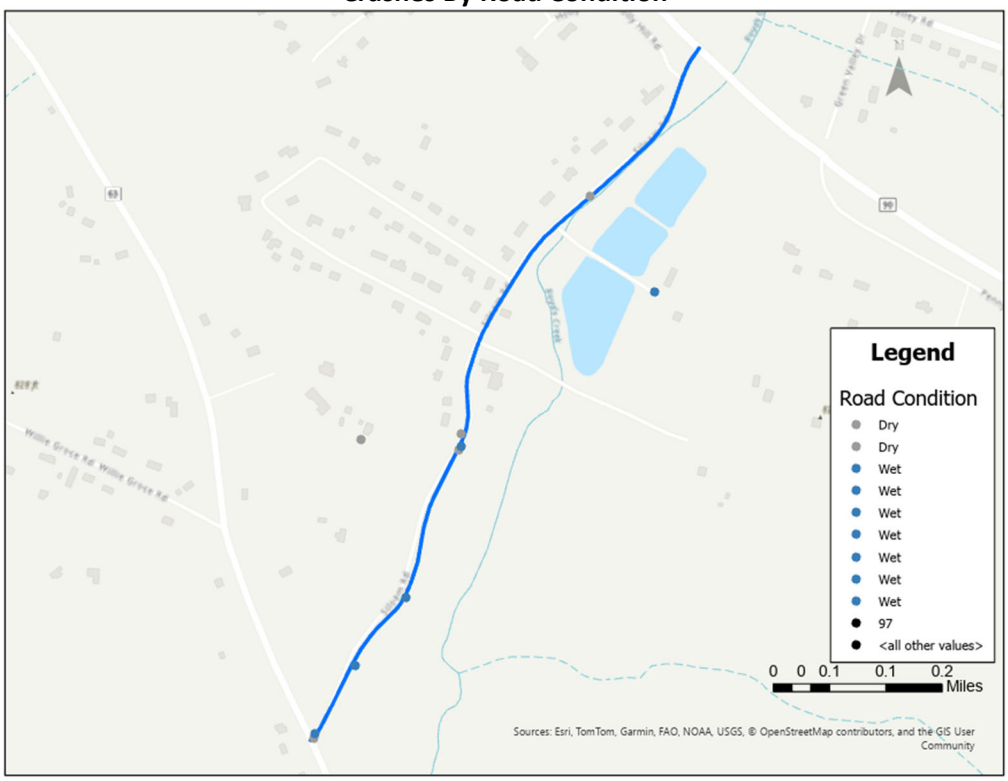
Crashes by Severity



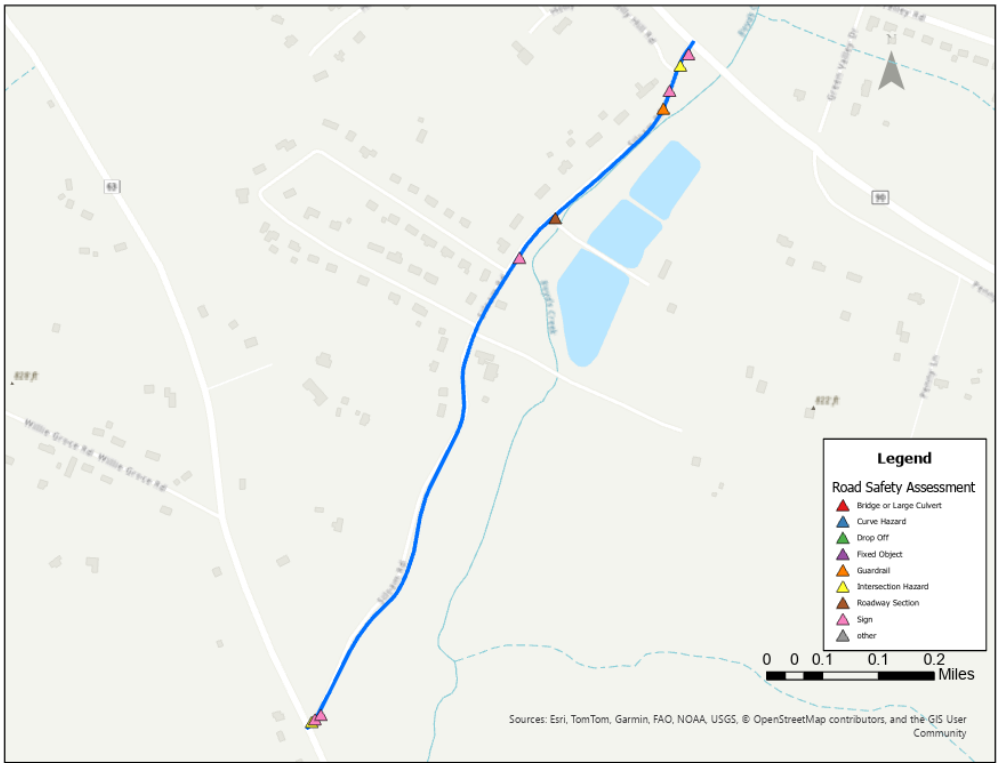
Crashes by Manner of Collision



Crashes By Road Condition



Road Safety Assessment



General Recommendations

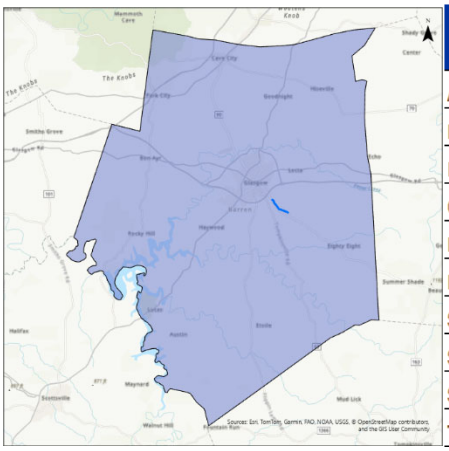
Point ID	RT_UNIQUE	Road Name	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve	Additional Comments	Improve Shoulder	Edgeline[1]	Curve Signing
5585	005-CR-1103 -000	SILOAM RD	15	4	2	0-20	Good road, few issues		✓	✓

Point ID	RT_UNIQUE	Road Name	Issue Type	Condition	End Treatments	Recommendation
5586	005-CR-1103 -000	SILOAM RD	Guardrail	Good	All_	--

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Recommendation	
5581	005-CR-1103 -000	SILOAM RD	Intersection	No	other; End of road, no issue	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5587	005-CR-1103 -000	SILOAM RD	Intersection	No	other; Very busy road	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs

GREEN VALLEY RD(005-CR-1474 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	2	0	0	**2**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	1	0	0	**1**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	0	0	0	**0**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	6	0	0	**6**
Total	**9**	**0**	**0**	**9**

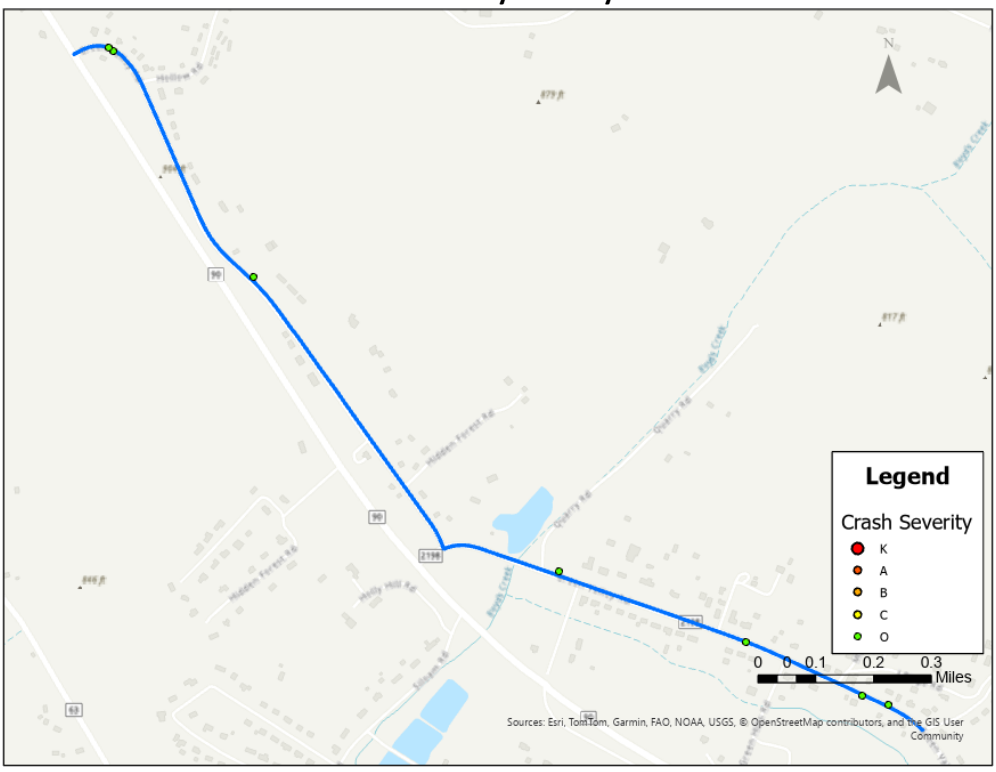
General Roadway Conditions

RT_UNIQUE	Road Name	Pvmt Width (f	Pavement Conditi	Roadside Hazard Rating	Shoulder Improve
005-CR-1474 -000	GREEN VALLEY RD	20	4	1	0-20

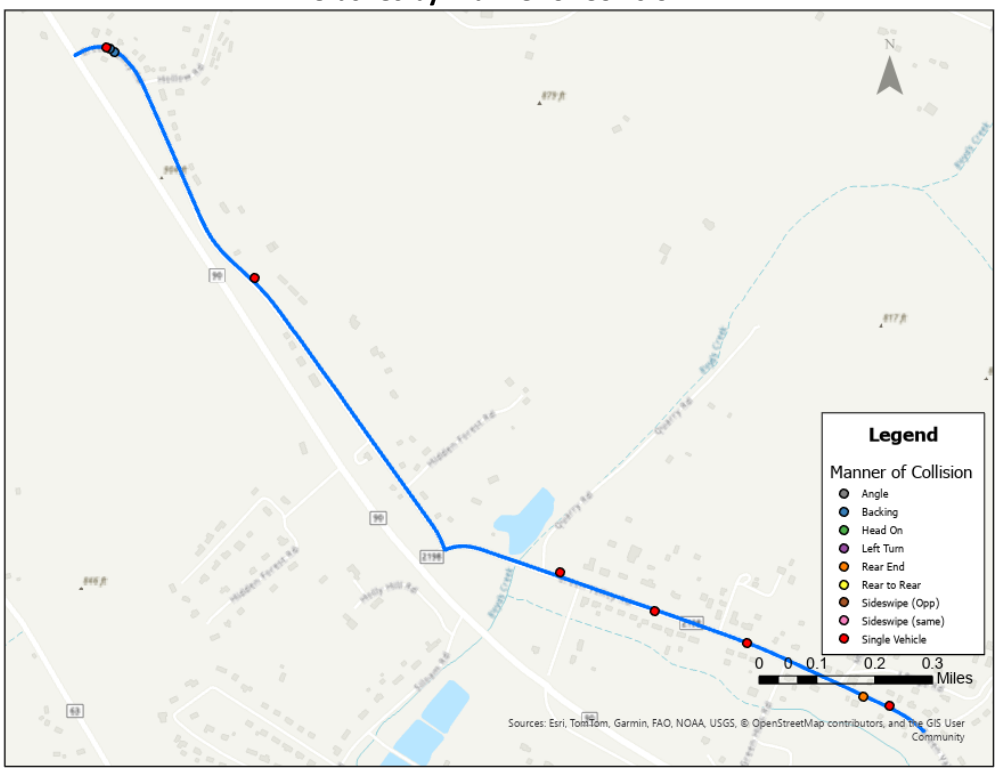
Roadway Typical Section



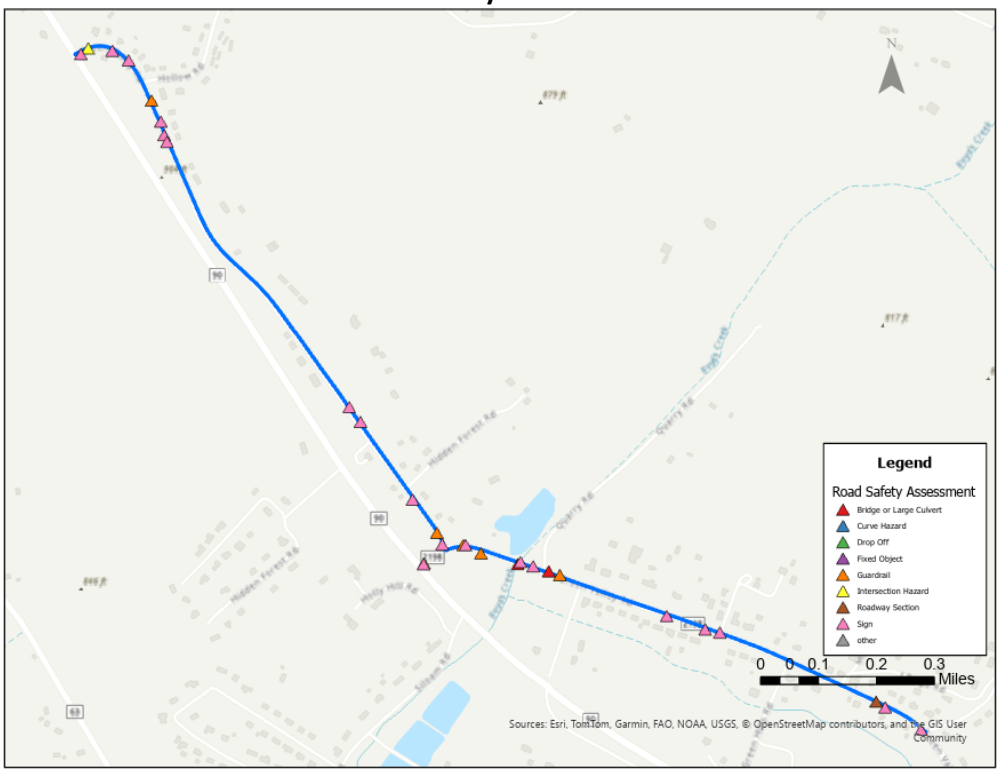
Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment



General Recommendations

Point ID	RT_UNIQUE	Road Name	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve	Additional Comments	Improve Shoulder	Edgeline[1]	Curve Signing	Other Recommendations
5539	005-CR-1474 -000	GREEN VALLEY RD	20	4	1	0-20	Road in good shape, plenty of shoulder room			✓	Consider Edgeline and Centerline

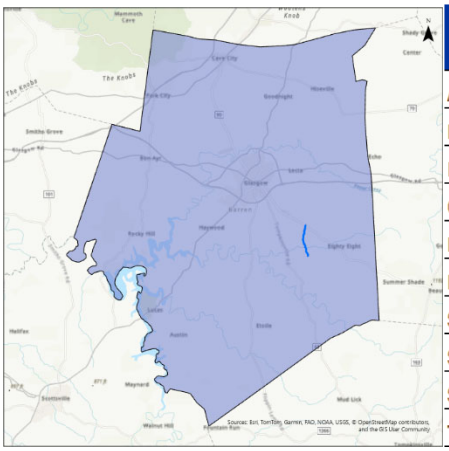
Point ID	RT_UNIQUE	Road Name	Issue Type	Condition	End Treatments	Recommendation
5530	005-CR-1474 -000	GREEN VALLEY RD	Guardrail	Good	All_	--
5533	005-CR-1474 -000	GREEN VALLEY RD	Guardrail	Good	All_	--
5541	005-CR-1474 -000	GREEN VALLEY RD	Guardrail	Good	All_	--
5546	005-CR-1474 -000	GREEN VALLEY RD	Guardrail	Good	All_	--
5551	005-CR-1474 -000	GREEN VALLEY RD	Guardrail	Good	All_	--

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Recommendation	
5547	005-CR-1474 -000	GREEN VALLEY RD	Intersection	No	other; Busy rosdway	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5555	005-CR-1474 -000	GREEN VALLEY RD	Intersection	No	other; Busy intersection	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs

Point ID	RT_UNIQUE	Road Name	Issue Type	Bridge Width	OM Present	Recommendation
5534	005-CR-1474 -000	GREEN VALLEY RD	Bridge or Large Culvert	25	0	Install Type 3 Object Markers where missing.
5542	005-CR-1474 -000	GREEN VALLEY RD	Bridge or Large Culvert	25	0	Install Type 3 Object Markers where missing.

WHITES CHAPEL RD(005-CR-1164 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	0	0	0	**0**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	1	0	0	**1**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	1	0	0	**1**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	4	1	0	**5**
Total	**6**	**1**	**0**	**7**

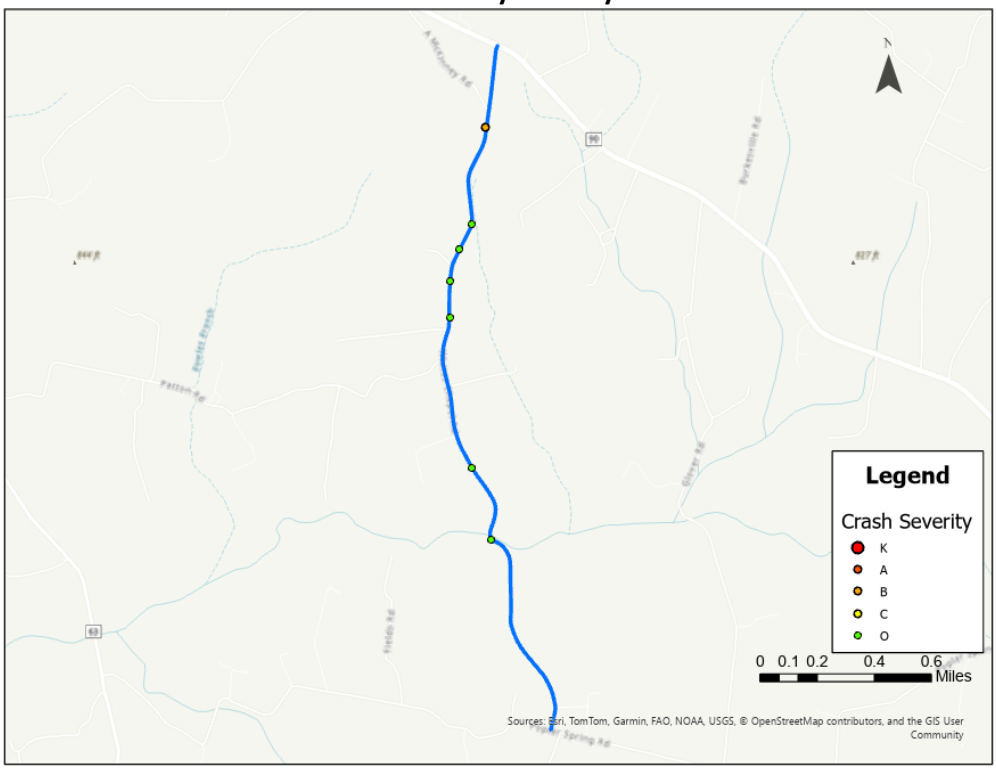
General Roadway Conditions

RT_UNIQUE	Road Name	Pvmt Width (f	Pavement Conditio	Roadside Hazard Rating	Shoulder Improve
005-CR-1164 -000	WHITES CHAPEL RD	15	4	2	0-20

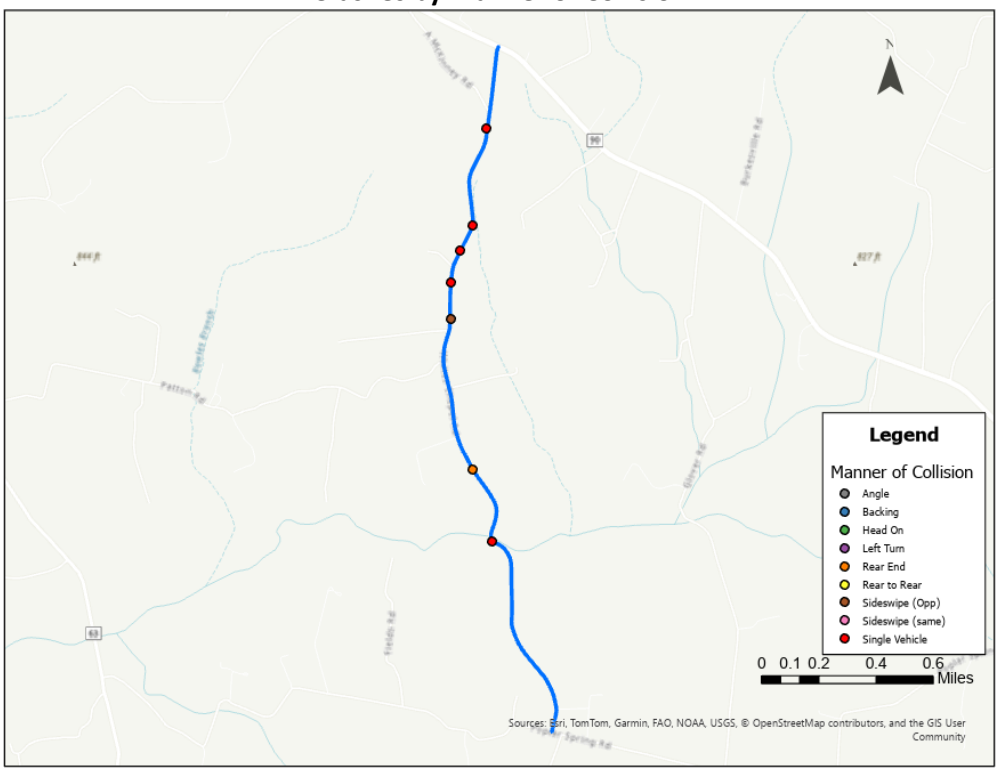
Roadway Typical Section



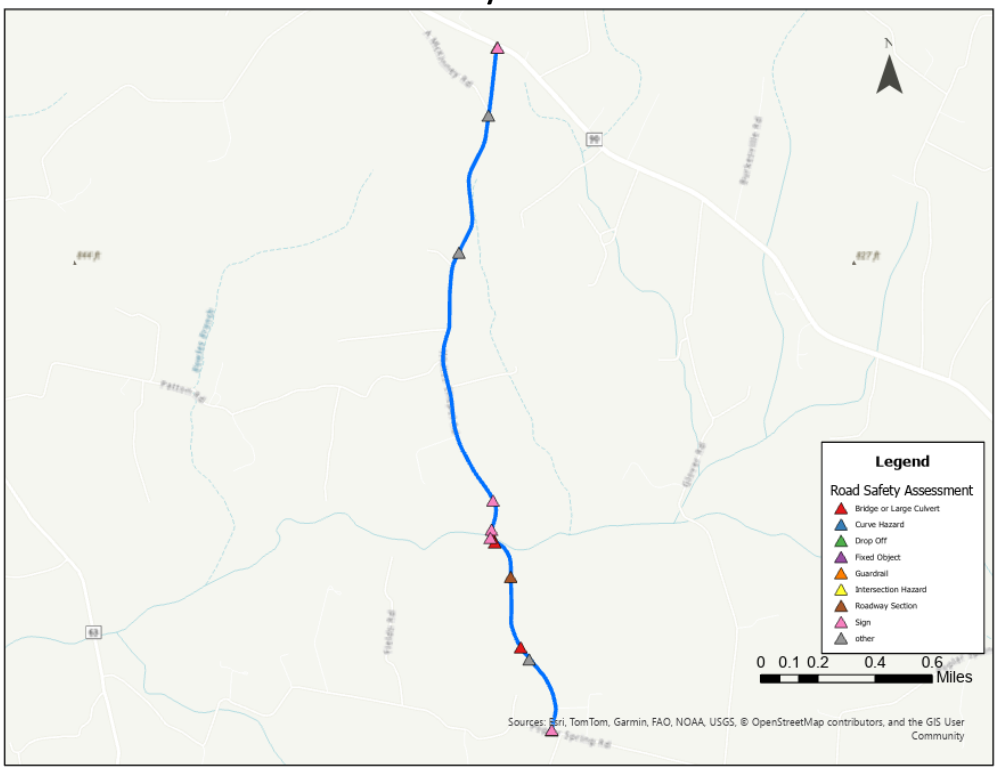
Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment



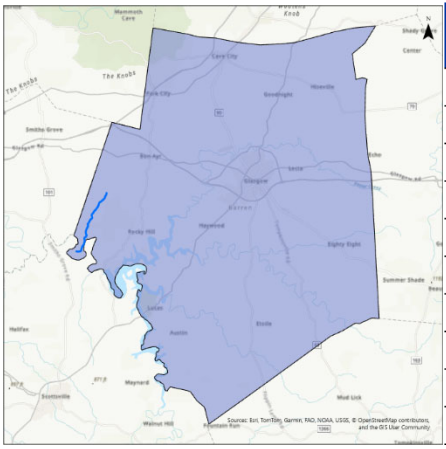
General Recommendations

Point ID	RT_UNIQUE	Road Name	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve	Additional Comments	Improve Shoulder	Edgeline[1]	Curve Signing
5595	005-CR-1164 -000	WHITES CHAPEL RD	15	4	2	0-20	Pavement in good shape, few issues		✓	✓

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Recommendation	
5598	005-CR-1164 -000	WHITES CHAPEL RD	Intersection	No	other; No issue, end of road	--
5602	005-CR-1164 -000	WHITES CHAPEL RD	Intersection	No	other; No issue, end of road	--
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Bridge Width**	**OM Present**	**Recommendation**
5593	005-CR-1164 -000	WHITES CHAPEL RD	Bridge or Large Culvert	20	0	Install Type 3 Object Markers where missing.
5599	005-CR-1164 -000	WHITES CHAPEL RD	Bridge or Large Culvert	15	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5600	005-CR-1164 -000	WHITES CHAPEL RD	Bridge or Large Culvert	15	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
Point ID	**RT_UNIQUE**	**RD_NAME**	**Issue Type**	**--**	**Description**	**Recommendation**
5589	005-CR-1164 -000	WHITES CHAPEL RD	Other	0	Hill	Install "Hill Blocks Sight Distance" Sign.
5590	005-CR-1164 -000	WHITES CHAPEL RD	Other	0	Hill	Install "Hill Blocks Sight Distance" Sign.
5596	005-CR-1164 -000	WHITES CHAPEL RD	Other	0	Hill	Install "Hill Blocks Sight Distance" Sign.

COLESBEND RD(005-CR-1316 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	0	0	0	**0**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	0	1	0	**1**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	2	1	2	**5**
Total	**2**	**2**	**2**	**6**

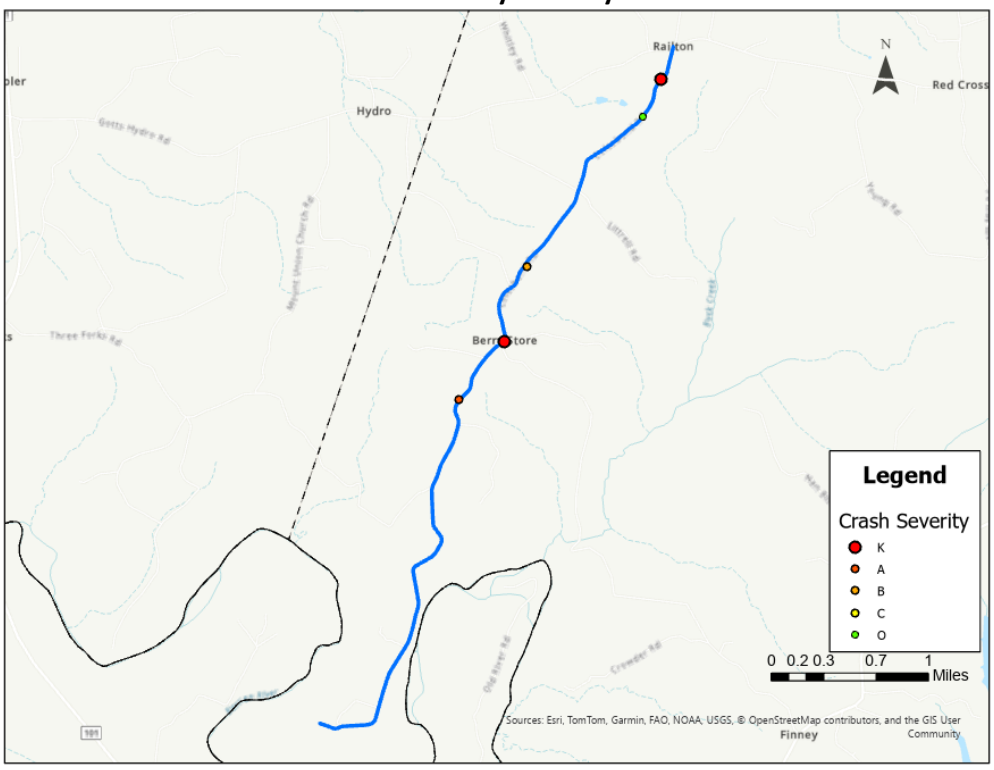
General Roadway Conditions

Roadway Section Information Not Collected

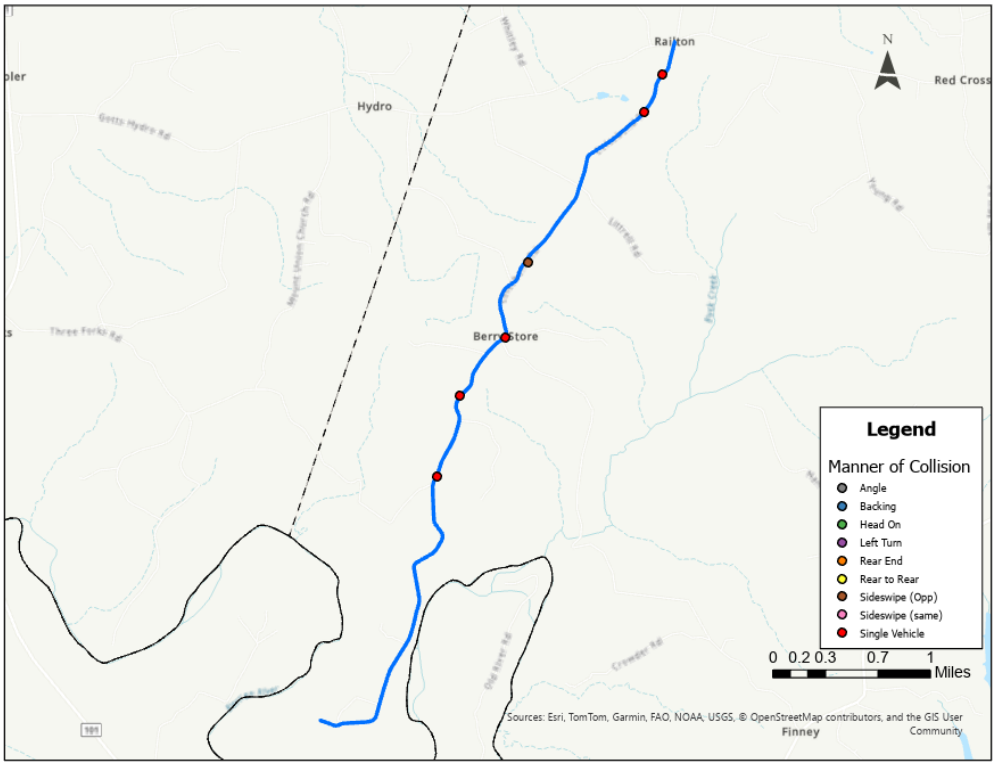
Roadway Typical Section



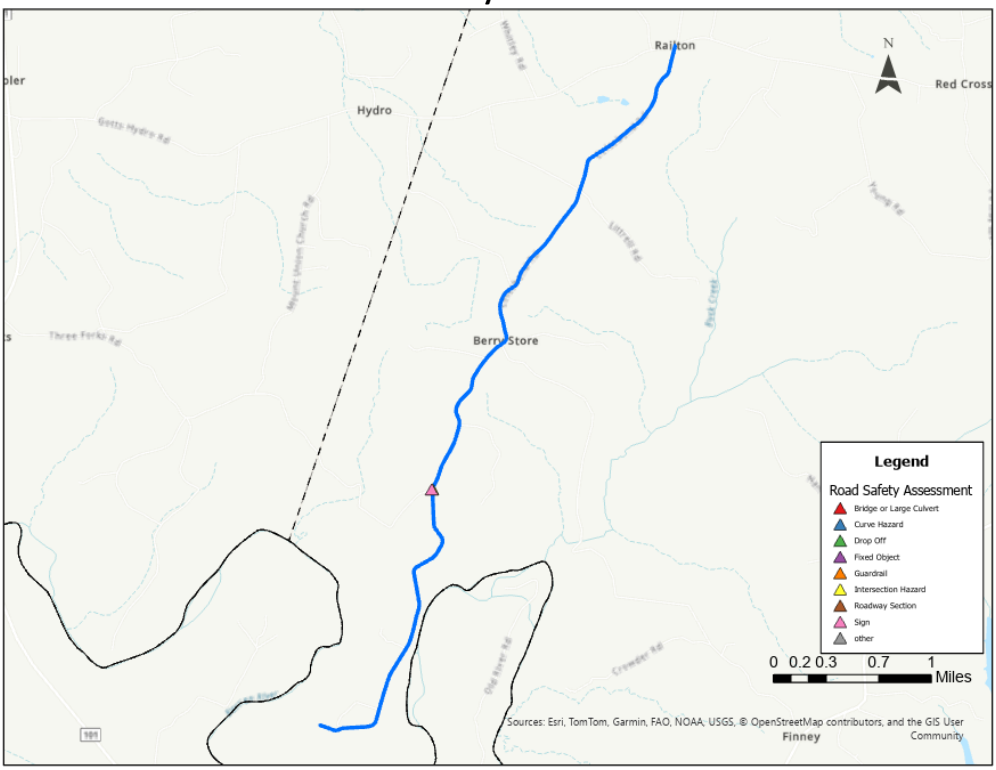
Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment



General Recommendations

No issues identified on roadway.

Other Roadways

General Roadway Conditions and Recommendations (Barren County)

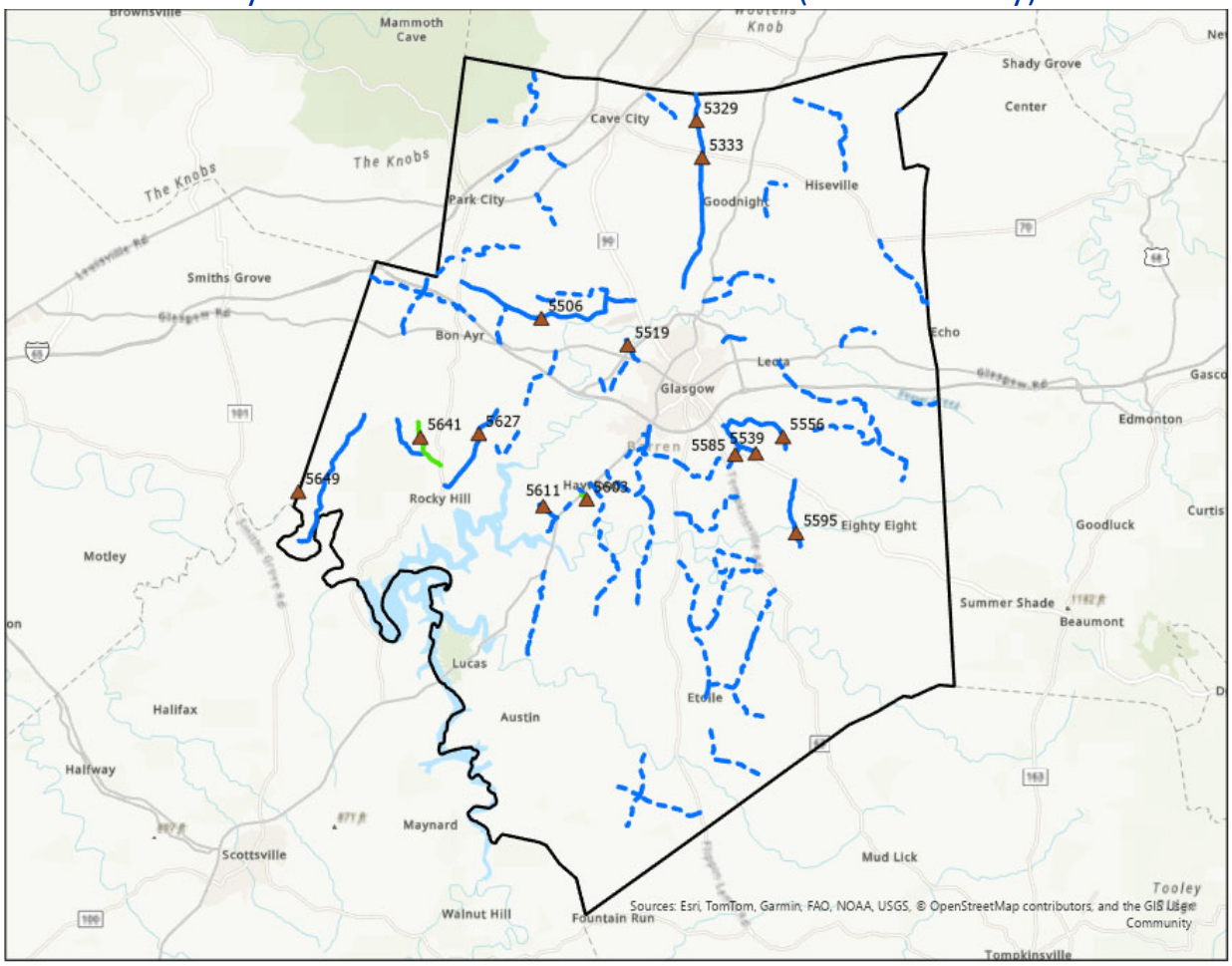


Exhibit Barren-10: General Roadway Conditions

Point ID	RT_UNIQUE	Road Name	Pvmt Width (ft	Pavement Conditi	Roadside Hazard Rating	Shoulder Improve	Additional Comments	Improve Should	Edgeline[1]	Curve Signin	Other Recommendations
5329	005-CR-1069 -000	OLD MUNFORDVILLE RD	20	5	1	0-20	Good roadway, fresh pavement			✓	Consider Edgeline and Centerline
5333	005-CR-1069 -000	OLD MUNFORDVILLE RD	20	4	1	0-20	Older pavement but still in good condition			✓	Consider Edgeline and Centerline
5506	005-CR-1374 -000	DRIPPING SPRINGS RD	15	4	2	0-20	Road is in good shape		✓	✓	
5519	005-CR-1368 -000	OIL CITY RD	20	4	2	0-20	Road in good shape, issue may be busy intersection			✓	Consider Edgeline and Centerline
5539	005-CR-1474 -000	GREEN VALLEY RD	20	4	1	0-20	Road in good shape, plenty of shoulder room			✓	Consider Edgeline and Centerline
5556	005-CR-1001 -000	HOLLOW RD	15	3	2	0-20			✓	✓	
5585	005-CR-1103 -000	SILOAM RD	15	4	2	0-20	Good road, few issues		✓	✓	
5595	005-CR-1164 -000	WHITES CHAPEL RD	15	4	2	0-20	Pavement in good shape, few issues		✓	✓	
5603	005-CR-1747 -000	KATYBETH LN	20	4	2	0-20	Good pavement, plenty of shoulder room			✓	Consider Edgeline and Centerline
5611	005-CR-1334 -000	NEEDMORE SCHOOL RD	15	4	1	0-20	Roadway in good shape		✓	✓	
5627	005-CR-1325 -000	BECKTON ROCKY HILL RD	15	4	2	0-20	Good condition, main issue is hills		✓	✓	
5641	005-CR-1323 -000	STEAM MILL RD	15	4	1	0-20	Road in good shape, horses/buggies on roadway		✓	✓	Consider Installation of W11-14 (Horse and Buggy) sign on each end of roadway.

Exhibit Barren-11: General Roadway Recommendations

Bridge / Culvert Recommendations (Barren County)

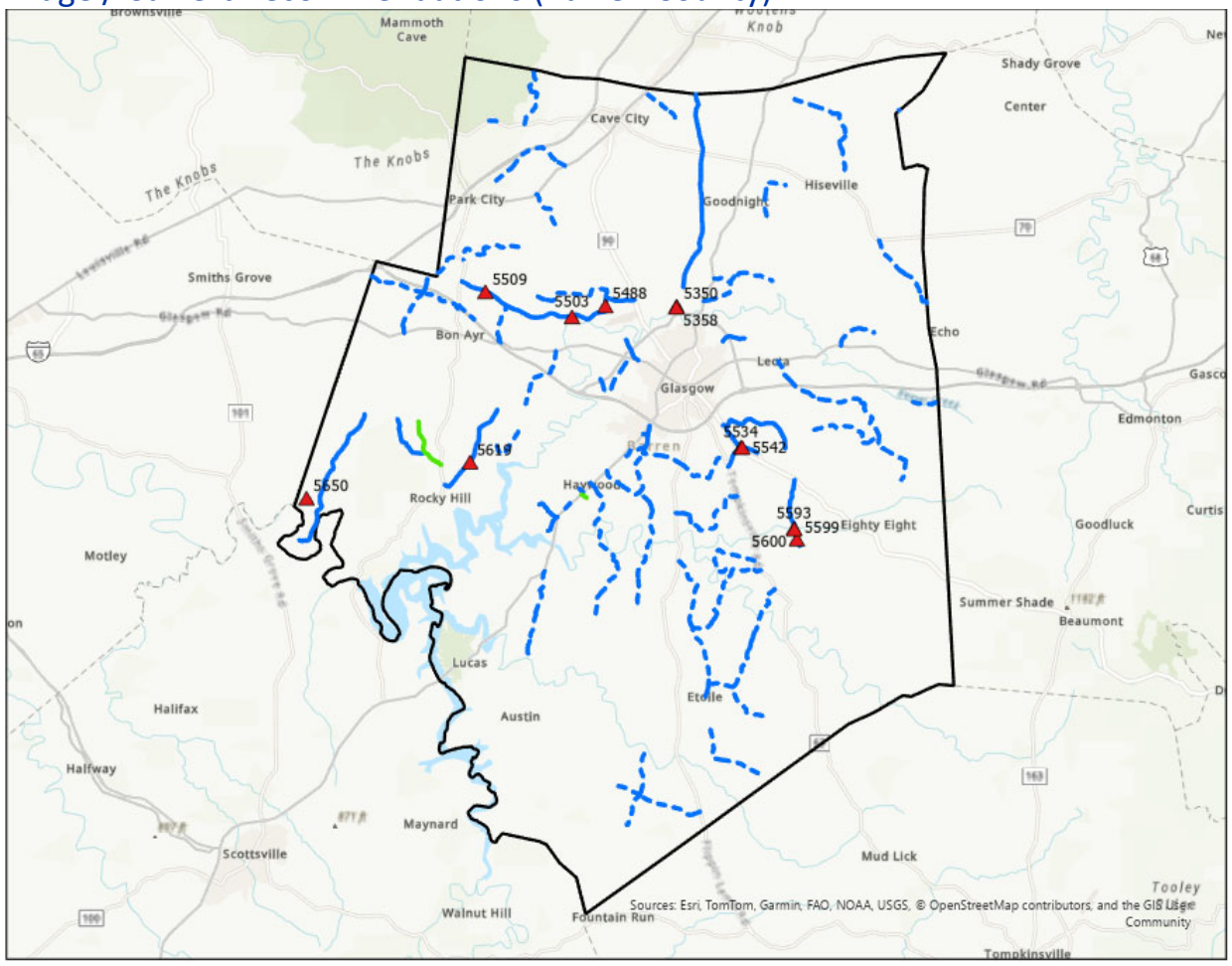


Exhibit Barren-12: Bridge / Culvert Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Bridge Width	Guardrail Present	OM Present	Recommendation
5350	005-CR-1069 -000	OLD MUNFORDVILLE RD	Bridge or Large Culvert	18	4	3	Install Type 3 Object Markers where missing.
5358	005-CR-1069 -000	OLD MUNFORDVILLE RD	Bridge or Large Culvert	18	4	3	Install Type 3 Object Markers where missing.
5488	005-CR-1374 -000	DRIPPING SPRINGS RD	Bridge or Large Culvert	15	0	2	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5503	005-CR-1374 -000	DRIPPING SPRINGS RD	Bridge or Large Culvert	15	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5509	005-CR-1374 -000	DRIPPING SPRINGS RD	Bridge or Large Culvert	15	0	2	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5534	005-CR-1474 -000	GREEN VALLEY RD	Bridge or Large Culvert	25	4	0	Install Type 3 Object Markers where missing.
5542	005-CR-1474 -000	GREEN VALLEY RD	Bridge or Large Culvert	25	4	0	Install Type 3 Object Markers where missing.
5593	005-CR-1164 -000	WHITES CHAPEL RD	Bridge or Large Culvert	20	4	0	Install Type 3 Object Markers where missing.
5599	005-CR-1164 -000	WHITES CHAPEL RD	Bridge or Large Culvert	15	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5600	005-CR-1164 -000	WHITES CHAPEL RD	Bridge or Large Culvert	15	4	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
5619	005-CR-1325 -000	BECKTON ROCKY HILL RD	Bridge or Large Culvert	20	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5650	005-CR-1317 -000	BOATMAN RD	Bridge or Large Culvert	12	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.

Exhibit Barren-13: Bridge / Culvert Recommendations

Curve Recommendations (Barren County)

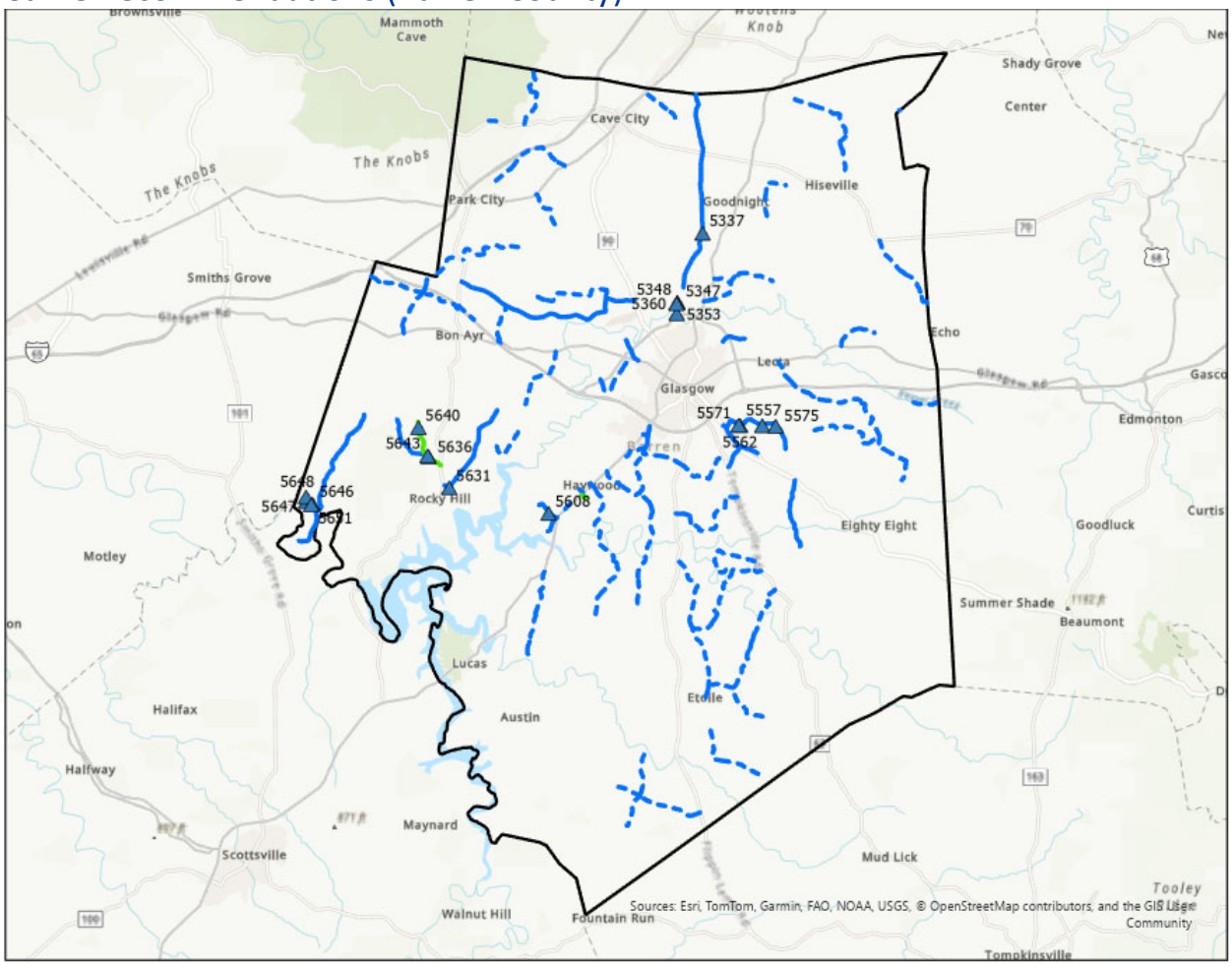


Exhibit Barren-14: Focus Road Curves

Point ID	RT_UNIQUE	Road Name	Issue Type	Comments	Vegetation	Recommendation
5337	005-CR-1069 -000	OLD MUNFORDVILLE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5347	005-CR-1069 -000	OLD MUNFORDVILLE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5348	005-CR-1069 -000	OLD MUNFORDVILLE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5353	005-CR-1069 -000	OLD MUNFORDVILLE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5360	005-CR-1069 -000	OLD MUNFORDVILLE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5557	005-CR-1001 -000	HOLLOW RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5562	005-CR-1001 -000	HOLLOW RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5571	005-CR-1001 -000	HOLLOW RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5575	005-CR-1001 -000	HOLLOW RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5608	005-CR-1334 -000	NEEDMORE SCHOOL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5631	005-CR-1325 -000	BECKTON ROCKY HILL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5636	005-CR-1323 -000	STEAM MILL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5640	005-CR-1323 -000	STEAM MILL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5643	005-CR-1323 -000	STEAM MILL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5646	005-CR-1317 -000	BOATMAN RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5647	005-CR-1317 -000	BOATMAN RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5648	005-CR-1317 -000	BOATMAN RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5651	005-CR-1317 -000	BOATMAN RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons

Exhibit Barren-15: Curve Recommendations

Roadside Drop Off Recommendations (Barren County)

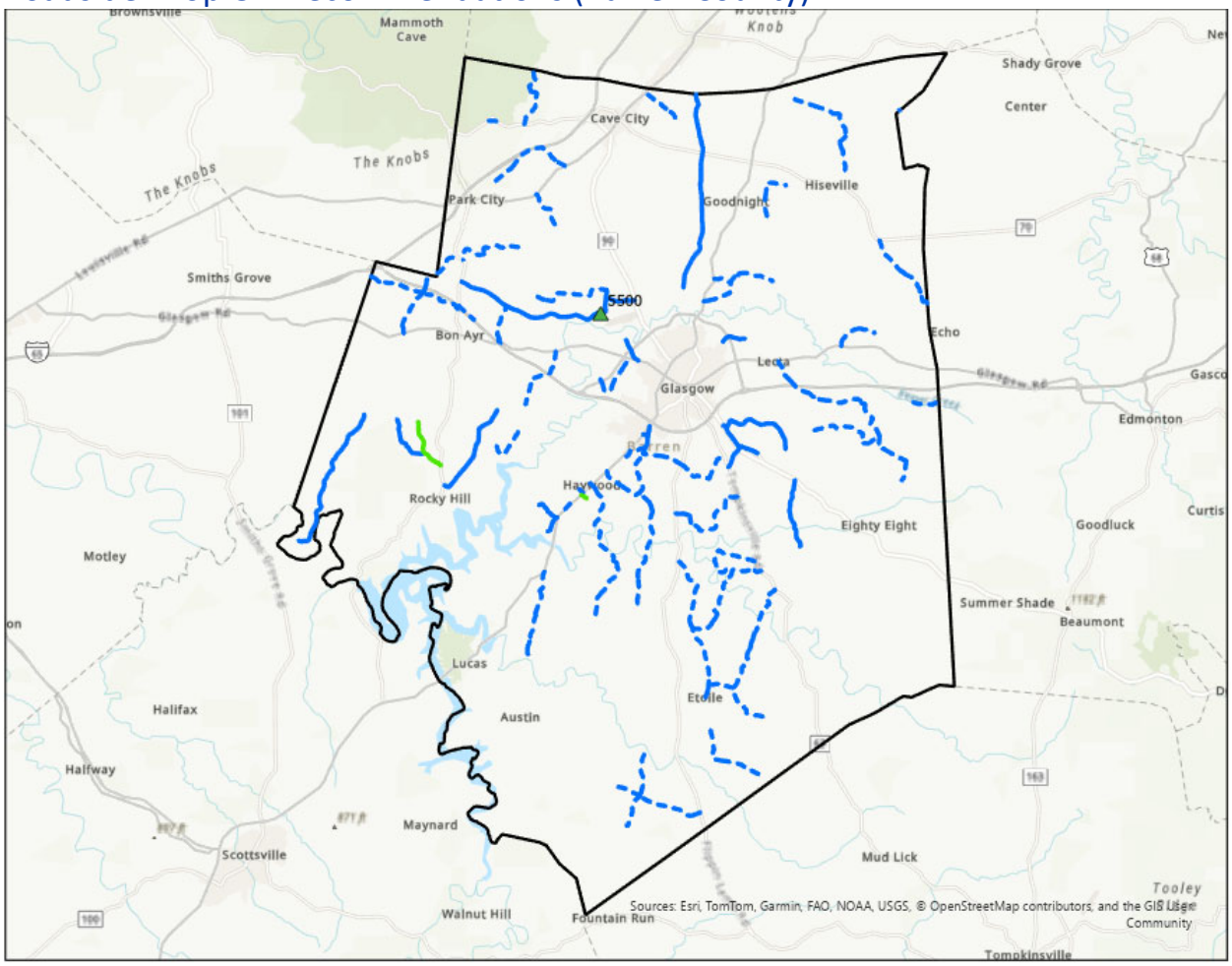


Exhibit Barren-16: Roadside Drop Off Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Drop Off Offset	Drop Off Height	Additional Comments	Recommendation
5500	005-CR-1374 -000	DRIPPING SPRINGS RD	Drop Off	3-5	>10		Evaluate roadway width, curvature and grade at drop off compared to other locations in county to evaluate need for guardrail

Exhibit Barren-17: Roadside Drop Off Recommendations

Guardrail Recommendations (Barren County)

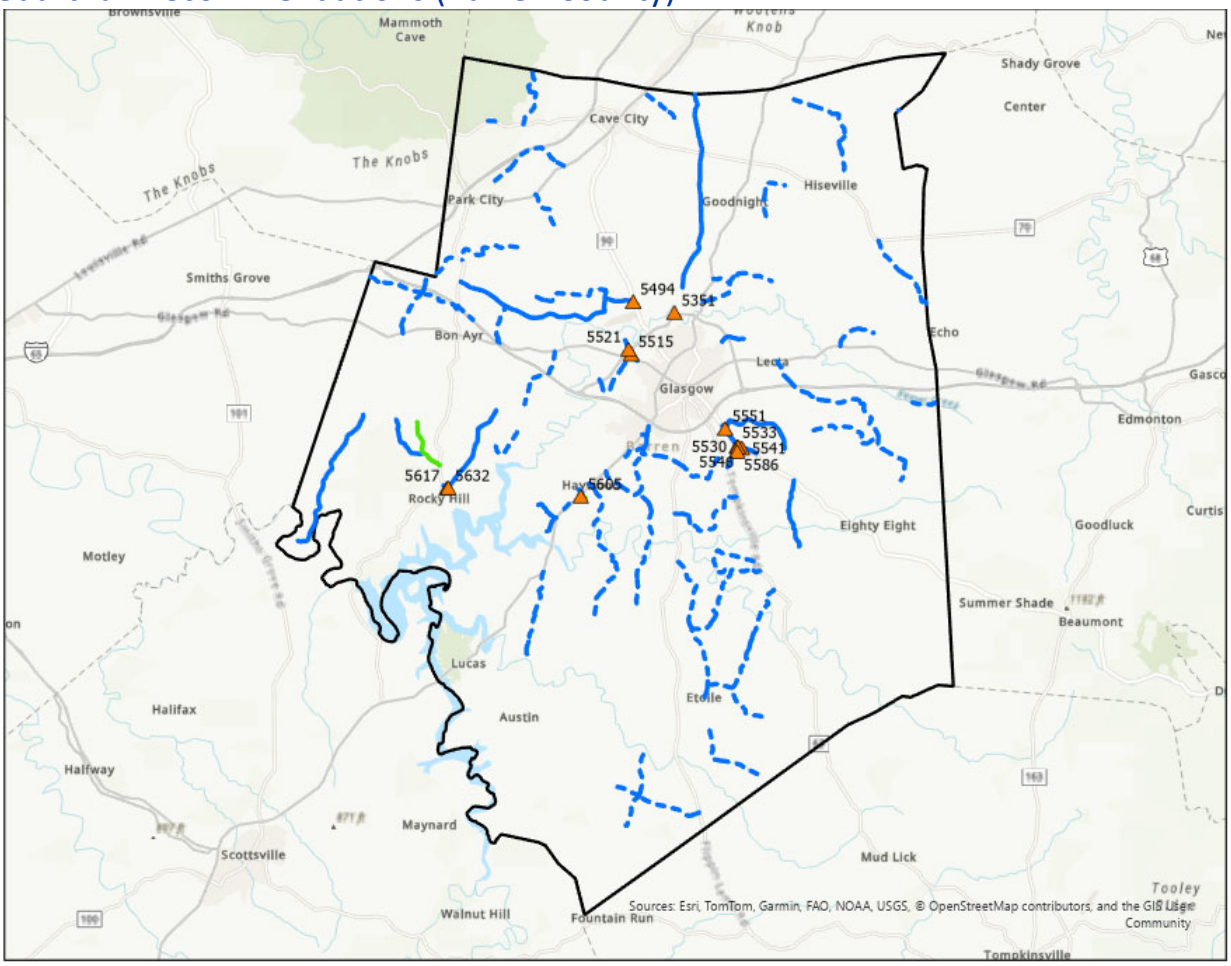


Exhibit Barren-18: Guardrail Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Condition	Meet Warrant	End Treatmen	Recommendation	Comments
5351	005-CR-1069 -000	OLD MUNFORDVILLE RD	Guardrail	Good	Yes	All_	--	
5494	005-CR-1374 -000	DRIPPING SPRINGS RD	Guardrail	Good	Yes	All_	--	Guardrail coming off state road
5515	005-CR-1368 -000	OIL CITY RD	Guardrail	Good	Yes	All_	--	
5521	005-CR-1368 -000	OIL CITY RD	Guardrail	Good	Yes	All_	--	
5530	005-CR-1474 -000	GREEN VALLEY RD	Guardrail	Good	Yes	All_	--	
5533	005-CR-1474 -000	GREEN VALLEY RD	Guardrail	Good	Yes	All_	--	
5541	005-CR-1474 -000	GREEN VALLEY RD	Guardrail	Good	Yes	All_	--	
5546	005-CR-1474 -000	GREEN VALLEY RD	Guardrail	Good	Yes	All_	--	
5551	005-CR-1474 -000	GREEN VALLEY RD	Guardrail	Good	Yes	All_	--	
5586	005-CR-1103 -000	SILOAM RD	Guardrail	Good	Yes	All_	--	
5605	005-CR-1747 -000	KATYBETH LN	Guardrail	Fair	Yes	All_	--	
5617	005-CR-1325 -000	BECKTON ROCKY HILL RD	Guardrail	Good	Yes	All_	--	
5632	005-CR-1325 -000	BECKTON ROCKY HILL RD	Guardrail	Good	Yes	Some	Install End Treatments where needed. Type 2 Object Marker may be used as temporary measure.	

Exhibit Barren-19: Guardrail Recommendations

Intersection Recommendations (Barren County)

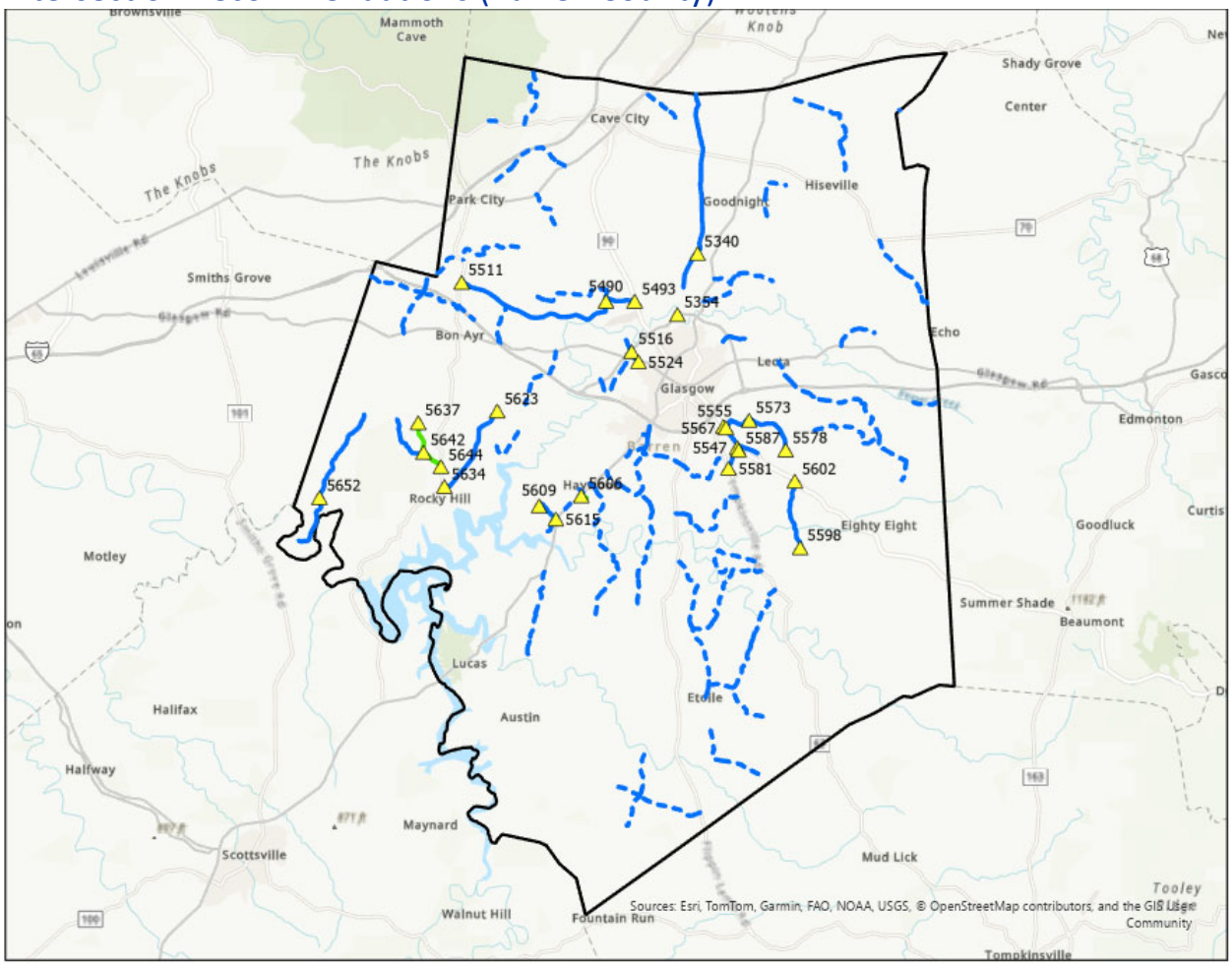


Exhibit Barren-20: Guardrail Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Comments	Recommendations
5340	005-CR-1069 -000	OLD MUNFORDVILLE RD	Intersection	No	Intersection_Skew	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5354	005-CR-1069 -000	OLD MUNFORDVILLE RD	Intersection	No	Intersection_Obscured_on_Appro a	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5490	005-CR-1374 -000	DRIPPING SPRINGS RD	Intersection	No	Intersection_Skew	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5493	005-CR-1374 -000	DRIPPING SPRINGS RD	Intersection	No	other; End of road, busy intersection	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5511	005-CR-1374 -000	DRIPPING SPRINGS RD	Intersection	No	other; End of road, no issues	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5516	005-CR-1368 -000	OIL CITY RD	Intersection	No	other; Busy intersection	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5524	005-CR-1368 -000	OIL CITY RD	Intersection	No	other; Busy intersection	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5547	005-CR-1474 -000	GREEN VALLEY RD	Intersection	No	other; Busy rosdway	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5555	005-CR-1474 -000	GREEN VALLEY RD	Intersection	No	other; Busy intersection	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5567	005-CR-1001 -000	HOLLOW RD	Intersection	No	other; End of road, no issue	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5573	005-CR-1001 -000	HOLLOW RD	Intersection	No	Intersection_Skew	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5578	005-CR-1001 -000	HOLLOW RD	Intersection	No	Intersection_Obscured_on_Appro a	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5581	005-CR-1103 -000	SILOAM RD	Intersection	No	other; End of road, no issue	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5587	005-CR-1103 -000	SILOAM RD	Intersection	No	other; Very busy road	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5598	005-CR-1164 -000	WHITES CHAPEL RD	Intersection	No	other; No issue, end of road	--
5602	005-CR-1164 -000	WHITES CHAPEL RD	Intersection	No	other; No issue, end of road	--
5606	005-CR-1747 -000	KATYBETH LN	Intersection	No	other,Intersection_Obscured_on _Approa	Consider edgeline and stop bar installation on skewed approach.
5609	005-CR-1334 -000	NEEDMORE SCHOOL RD	Intersection	No	other; No issue, end of road	--
5615	005-CR-1704D -000	OLD SCOTTSVILLE LOOP 2 RD	Intersection	No	other; End of road, no issue	--
5623	005-CR-1325 -000	BECKTON ROCKY HILL RD	Intersection	No	other; End of road, no issue	--
5634	005-CR-1325 -000	BECKTON ROCKY HILL RD	Intersection	No	other; No issue, end of road	--
5637	005-CR-1323 -000	STEAM MILL RD	Intersection	No	other; No issue, end of road	--
5642	005-CR-1322 -000	YOUNG RD	Intersection	No	Intersection_Skew	Consider edgeline and stop bar installation on skewed approach.
5644	005-CR-1323 -000	STEAM MILL RD	Intersection	No	other; No issue, end of road	--
5652	005-CR-1316 -000	COLESBEND RD	Intersection	No	other; End of road, no issue	--

Exhibit Barren-21: Guardrail Recommendations

Other Recommendations (Barren County)

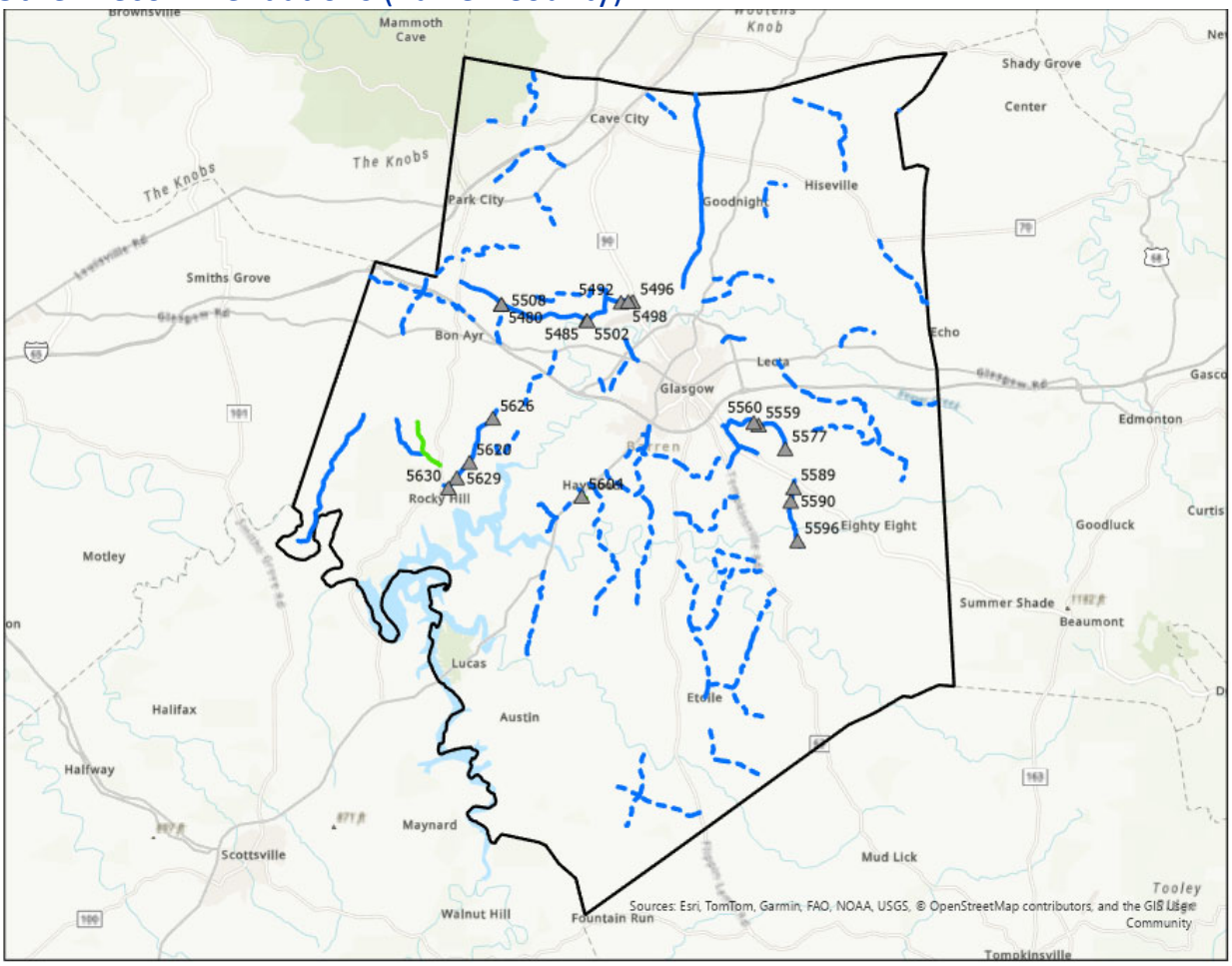


Exhibit Barren-22: Guardrail Locations

Point ID	RT_UNIQUE	RD_NAME	Issue Type			Description	Recommendation
5480	005-CR-1374 -000	DRIPPING SPRINGS RD	Other			Object markers for ditch	Install Type 2 Object Markers along ditch
5485	005-CR-1374 -000	DRIPPING SPRINGS RD	Other			Railroad crossing	Install "RR Crossing" Sign
5492	005-CR-1374 -000	DRIPPING SPRINGS RD	Other			Hill	Install "Hill Blocks Sight Distance" Sign.
5496	005-CR-1374 -000	DRIPPING SPRINGS RD	Other			Big hill	Install "Hill Blocks Sight Distance" Sign.
5498	005-CR-1374 -000	DRIPPING SPRINGS RD	Other			Hill	Install "Hill Blocks Sight Distance" Sign.
5502	005-CR-1374 -000	DRIPPING SPRINGS RD	Other			Railroad	Install "RR Crossing" Sign
5508	005-CR-1374 -000	DRIPPING SPRINGS RD	Other			Object marker over Ditch	Install Type 2 Object Markers along ditch
5559	005-CR-1001 -000	HOLLOW RD	Other			Small hill	Install "Hill Blocks Sight Distance" Sign.
5560	005-CR-1001 -000	HOLLOW RD	Other			Large hill	Install "Hill Blocks Sight Distance" Sign.
5577	005-CR-1001 -000	HOLLOW RD	Other			Hill blocking view of stop	Install "Stop Ahead" Sign
5589	005-CR-1164 -000	WHITES CHAPEL RD	Other			Hill	Install "Hill Blocks Sight Distance" Sign.
5590	005-CR-1164 -000	WHITES CHAPEL RD	Other			Hill	Install "Hill Blocks Sight Distance" Sign.
5596	005-CR-1164 -000	WHITES CHAPEL RD	Other			Hill	Install "Hill Blocks Sight Distance" Sign.
5604	005-CR-1747 -000	KATYBETH LN	Other			Hill blocking stop	Install "Stop Ahead" Sign
5620	005-CR-1325 -000	BECKTON ROCKY HILL RD	Other			Hill	Install "Hill Blocks Sight Distance" Sign.
5626	005-CR-1325 -000	BECKTON ROCKY HILL RD	Other			Large hill	Install "Hill Blocks Sight Distance" Sign.
5629	005-CR-1325 -000	BECKTON ROCKY HILL RD	Other			Hill	Install "Hill Blocks Sight Distance" Sign.
5630	005-CR-1325 -000	BECKTON ROCKY HILL RD	Other			Hill blocking curve	Install Advance Curve Sign

Exhibit Barren-23: Guardrail Recommendations

Signing Recommendations (Barren County)

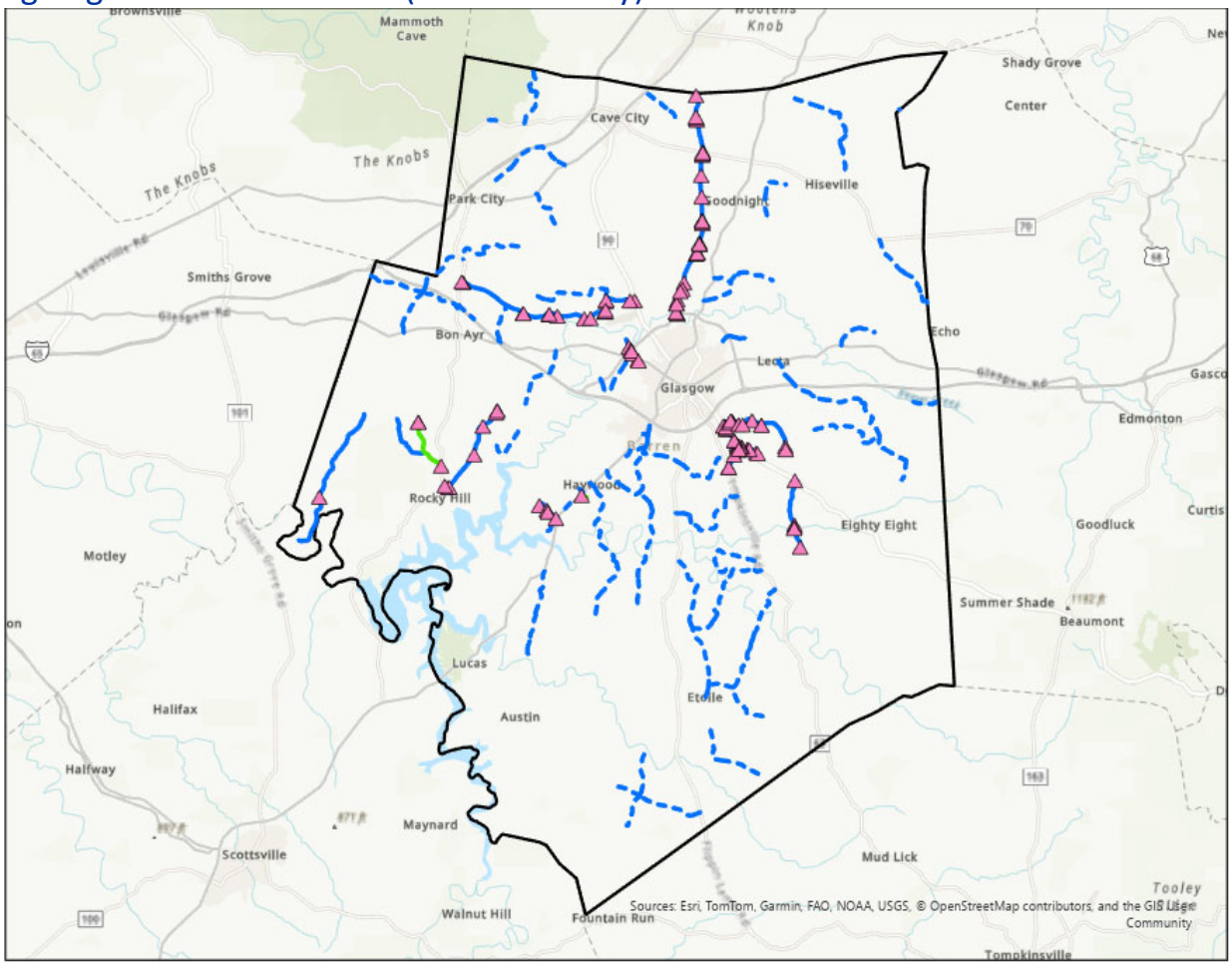


Exhibit Barren-22: Sign Locations

As part of the RSA data collection effort, existing signs were inventoried along reviewed Focus Roadways, including a condition assessment and a photo of each sign. Additionally, preliminary Advisory Speed recommendations were calculated for each focus roadway to assist in the installation of horizontal alignment (curve) signs. Signing and advisory speed information is provided in digital format at https://kyt2.uky.edu/braddSAP.

APPENDIX F: BUTLER COUNTY SAFETY ACTION PLAN

Butler County Overview

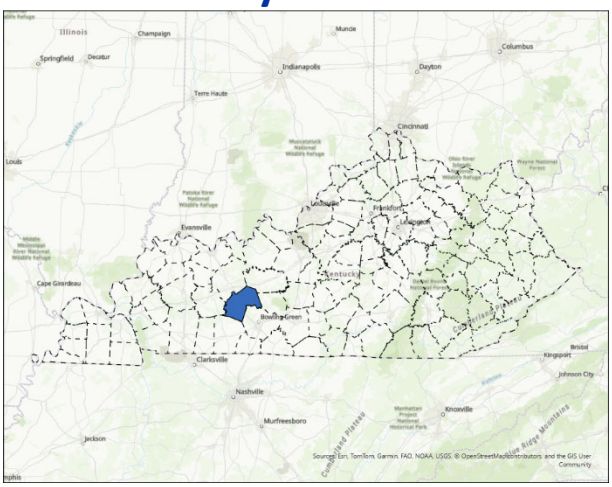


Exhibit Butler-1: Location Map

Key Information Table Butler County	
Population	12,375
Population in Persistent Poverty	22%
Underserved Community	**No**
Fatalities (All Roads)	21
Fatalities (County Roads)	3
Fatality Rate per 100,000 persons	**169.70**
County Road Mileage	403.7
State Road Mileage	249.2
Total Mileage	**652.9**

Exhibit Butler-2: Key Information

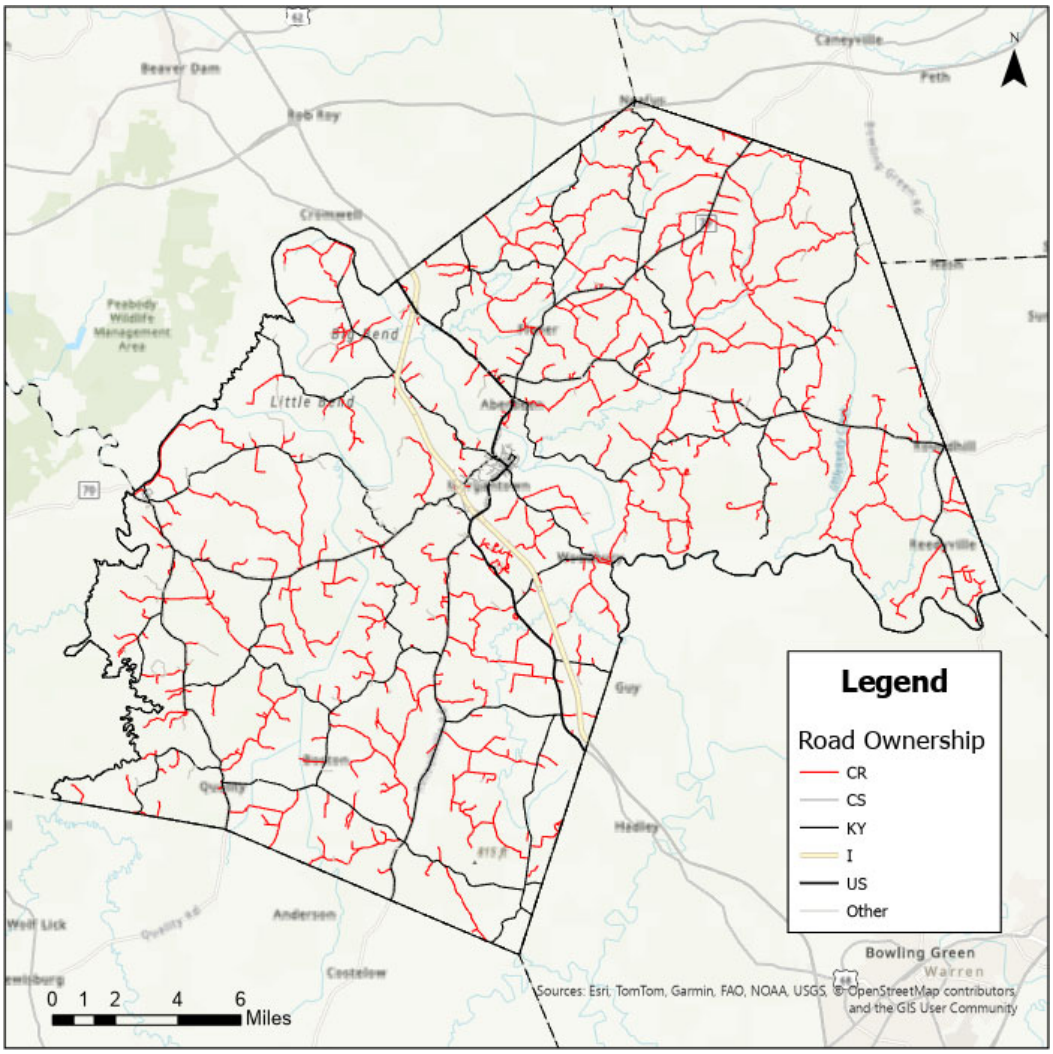


Figure Butler-3: Map of County Roadways

Crash Analysis

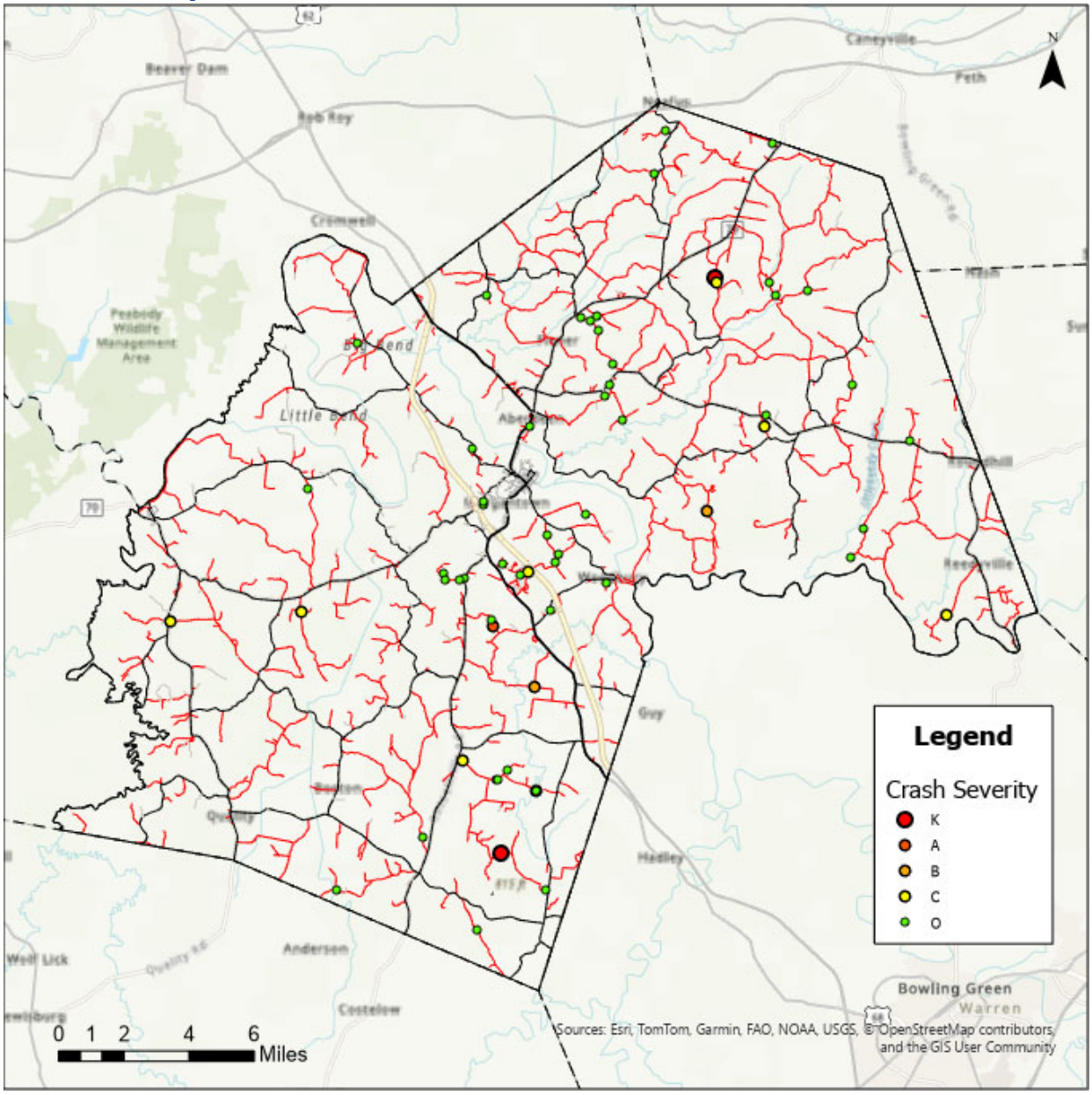
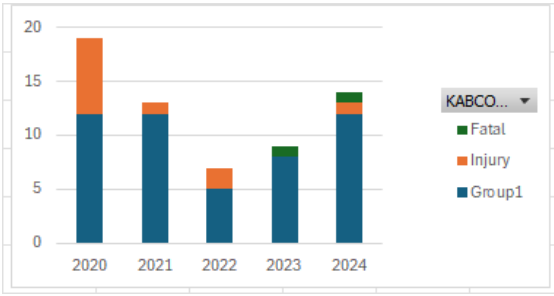


Figure Butler-4: Map of County Road Crashes



Year	Prop. Damage Only	Injury	Fatal	Total
2020	12	7	0	**19**
2021	12	1	0	**13**
2022	5	2	0	**7**
2023	8	0	1	**9**
2024	12	1	1	**14**

Table Butler-5: Crash Distribution by Year

Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	2	1	0	**3**
BACKING	5	0	0	**5**
HEAD ON	7	1	0	**8**
OPPOSING LEFT TURN	2	0	0	**2**
REAR END	2	0	0	**2**
REAR TO REAR	1	0	0	**1**
SIDESWIPE-OPPOSITE	7	0	0	**7**
SIDESWIPE-SAME DIR	1	0	0	**1**
SINGLE VEHICLE	22	9	2	**33**

Exhibit Butler-6: Crash Frequency and Severity by Manner of Collision

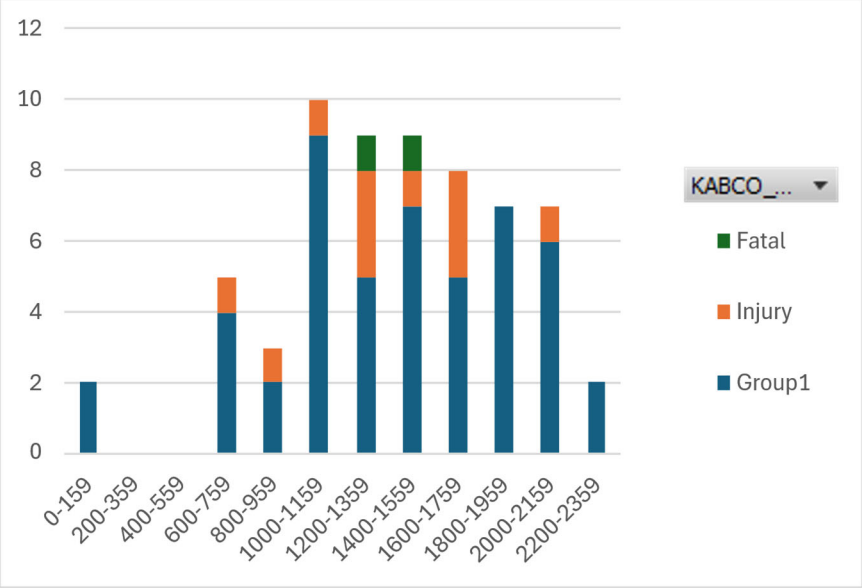


Figure Butler-7: Crashes and Severity by Time of Day

Focus Roadways

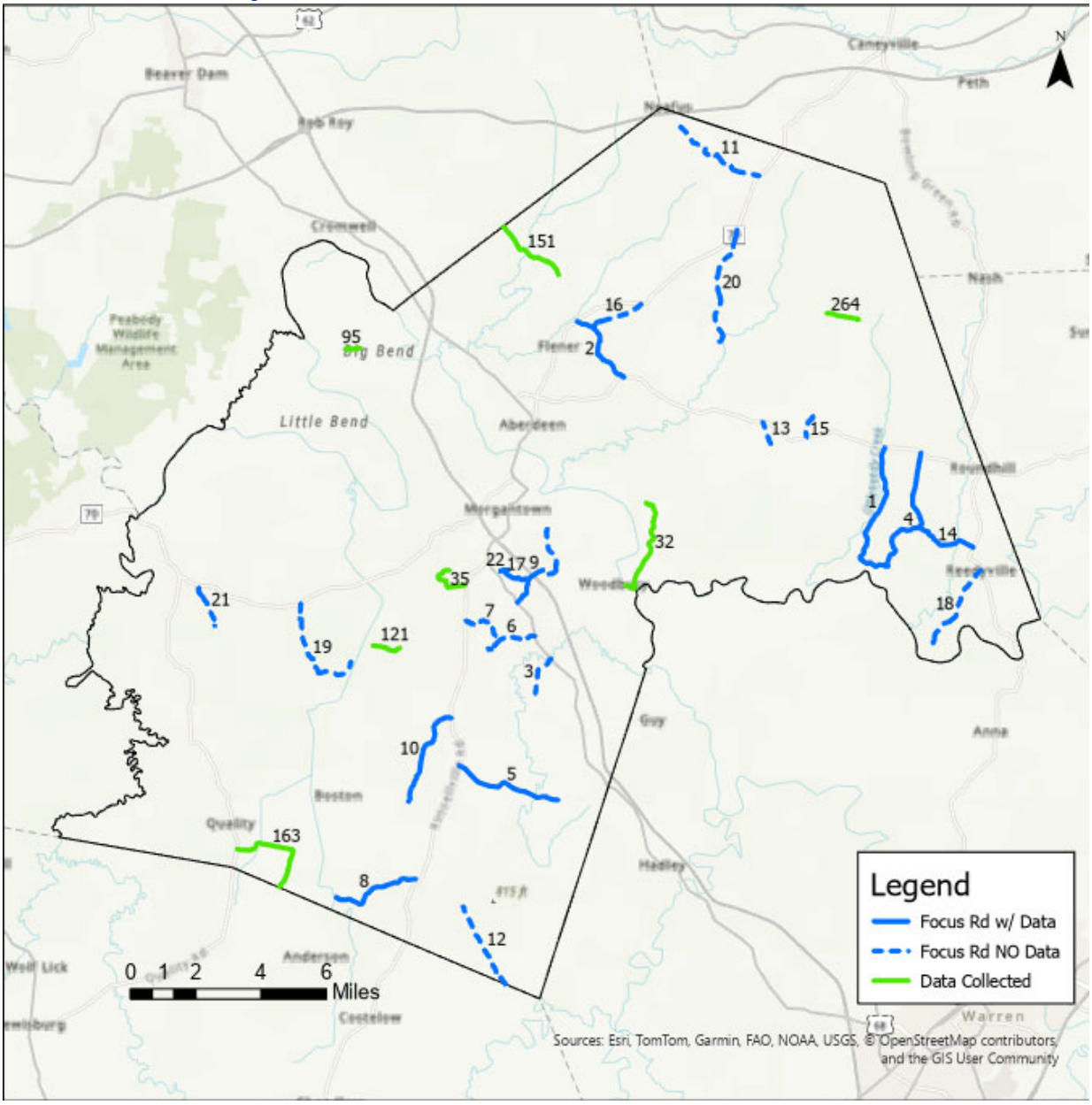


Exhibit Butler-8: Focus Roads

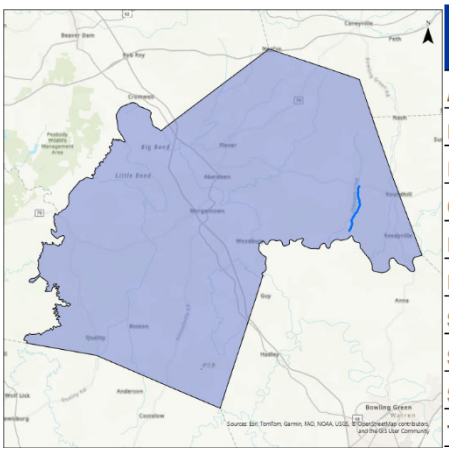
RT_UNIQUE	Length	County	Road Name	Injury Crash	Fatal Crash	PDO	Crash Score	Use Score	Rank	Focus Rd	Data
Butler											
016-CR-1026 -000	3.78	Butler	THRELKEL RD	1	0	0	3.65	1.16	1	1	1
016-CR-1106 -000	2.61	Butler	MCKENDREE CHAPEL RD	1	0	2	2.12	3.90	2	1	1
016-CR-1172 -000	1.30	Butler	HOOD RD	1	0	0	3.65	0.30	3	1	0
016-CR-1031 -000	5.39	Butler	REGION RD	1	1	1	2.69	1.55	4	1	1
016-CR-1182 -000	3.45	Butler	DIMPLE RD	0	2	6	1.67	2.90	5	1	1
016-CR-1173 -000	1.71	Butler	DUNN STORE RD	1	0	0	1.99	1.01	6	1	0
016-CR-1217 -000	1.55	Butler	FRANK KITCHENS RD	1	0	0	1.99	0.35	7	1	0
016-CR-1271 -000	3.48	Butler	CANEY FORK RD	0	2	0	1.28	1.49	8	1	1
016-CR-1142 -000	3.32	Butler	COOL SPRINGS RD	0	1	1	0.71	1.83	9	1	0
016-CR-1206 -000	3.24	Butler	STEPHENS CHAPEL RD	0	1	1	0.71	1.79	10	1	1
016-CR-1080 -000	3.21	Butler	NEAFUS RD	0	0	0	0.00	2.90	11	1	0
016-CR-1197 -000	2.76	Butler	SUNNY LANE RICHELIEU RD	0	0	0	0.00	2.77	12	1	0
016-CR-1015 -000	0.73	Butler	BIG JIM RD	0	1	0	0.64	1.46	13	1	0
016-CR-1033 -000	2.05	Butler	REGION REEDYVILLE RD	0	1	0	0.64	1.26	14	1	1
016-CR-1116 -000	0.72	Butler	JETSON CUTOFF RD	0	0	0	0.00	2.54	15	1	0
016-CR-1109 -000	1.70	Butler	COUNTY RD	0	0	3	0.19	2.14	16	1	0
016-CR-1427 -000	0.96	Butler	SHA RO LEY LN	0	0	2	0.13	2.21	17	1	0
016-CR-1154 -000	2.81	Butler	YOUNGS FERRY RD	0	1	0	0.64	1.12	18	1	0
016-CR-1251 -000	3.65	Butler	MUD CREEK RD	0	1	0	0.64	1.04	19	1	0
016-CR-1068 -000	3.81	Butler	BROOKLYN CHAPEL RD	0	1	0	0.64	1.00	20	1	0
016-CR-1305 -000	1.31	Butler	ARNDELL RD	0	0	1	0.06	1.89	21	1	0
016-CR-1224 -000	0.26	Butler	EMBRY WAY	0	0	0	0.00	1.99	22	1	0
016-CR-1014 -000	3.42	Butler	LEONARD OAK CHURCH RD	0	0	1	0.06	1.28	32	0	1
016-CR-1216 -000	1.56	Butler	HIDDEN VALLEY RD	0	0	2	0.13	1.11	35	0	1
016-CR-1384 -000	0.53	Butler	LONNIE MOORE RD	0	0	1	0.06	0.41	95	0	1
016-CR-1220 -000	0.89	Butler	CHILDRESS RD	0	0	1	0.06	0.33	121	0	1
016-CR-1362 -000	2.43	Butler	FLINT SPRINGS RD	0	0	1	0.06	0.27	151	0	1
016-CR-1274 -000	3.10	Butler	TOY SPRINGS RD	0	0	0	0.00	0.36	163	0	1
016-CR-1052 -000	1.02	Butler	TAYLOR CEMETERY RD	0	0	0	0.00	0.24	264	0	1

Exhibit Butler-9: List of Focus Roadways

Recommended Improvements (Top 5 Roads)

THRELKEL RD(016-CR-1026 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	0	0	0	**0**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	1	0	0	**1**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	0	0	0	**0**
Total	**1**	**0**	**0**	**1**

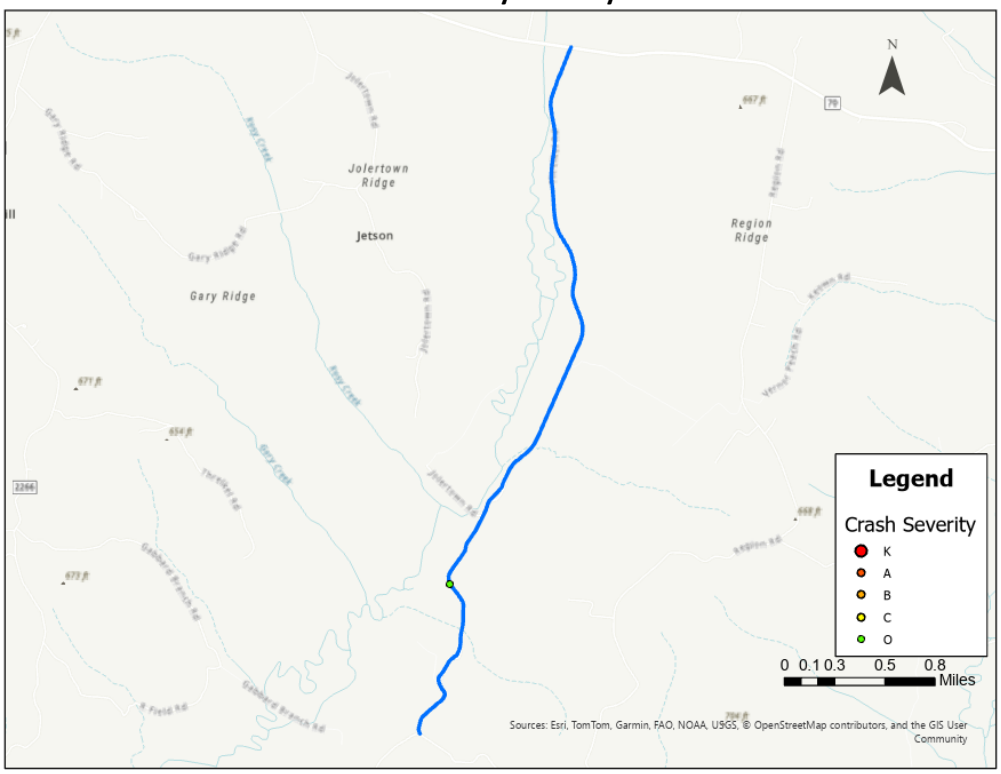
General Roadway Conditions

RT_UNIQUE	Road Name	Pvmt Width (f	Pavement Conditi	Roadside Hazard Rating	Shoulder Improve
016-CR-1026 -000	THRELKEL RD	12	4	4	20-40

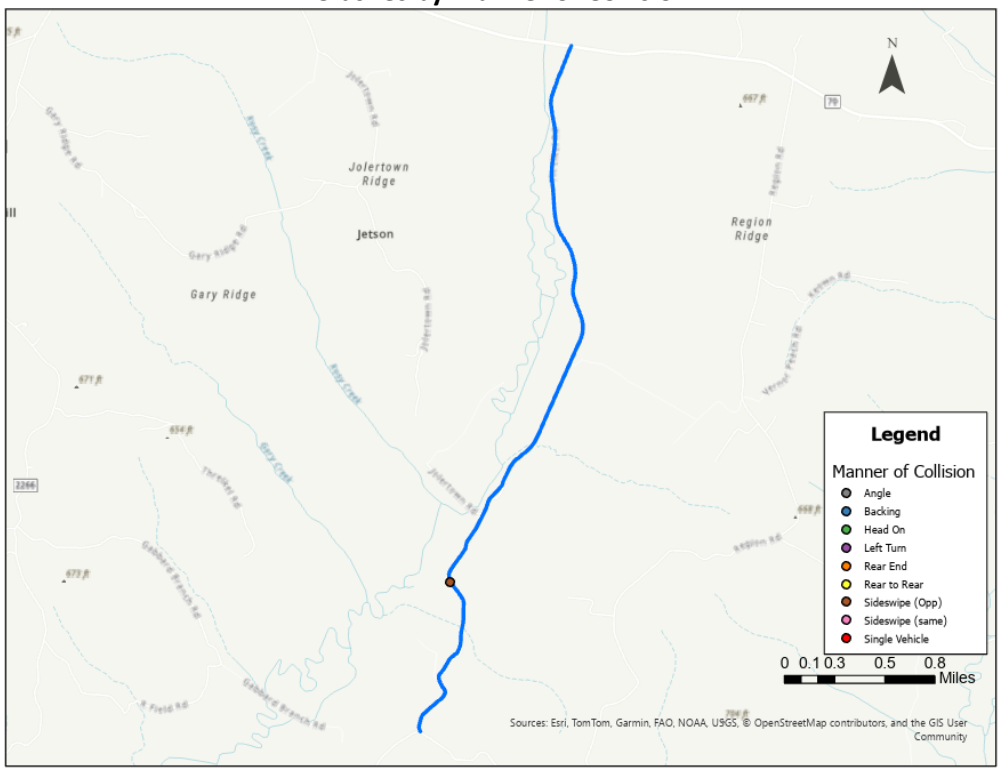
Roadway Typical Section



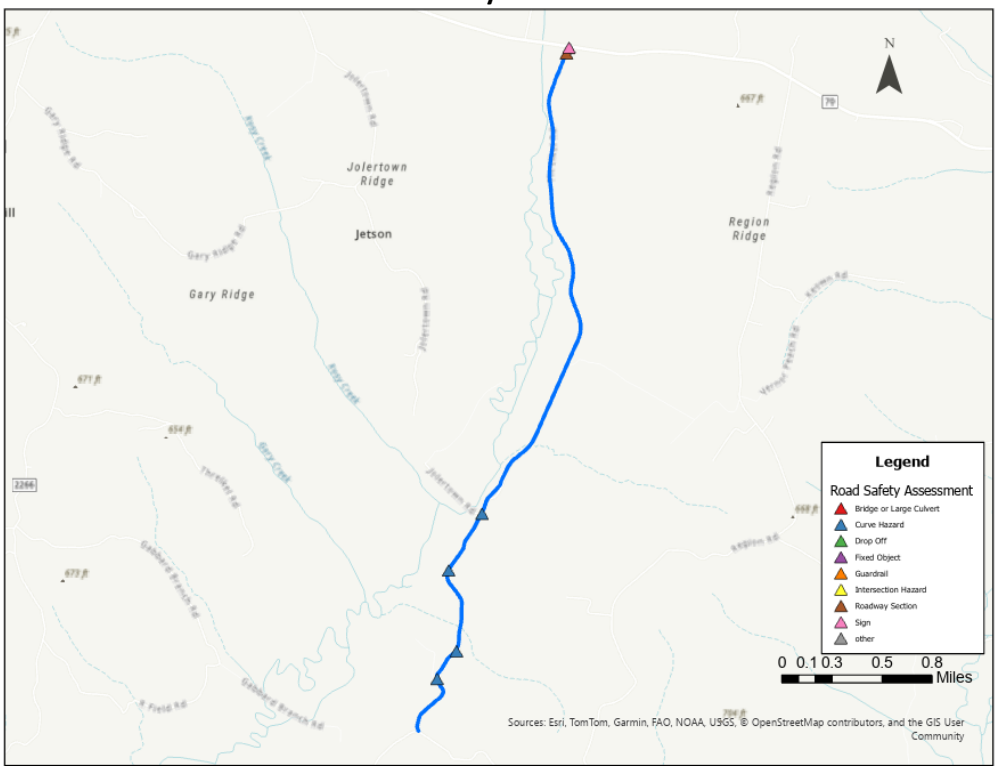
Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment



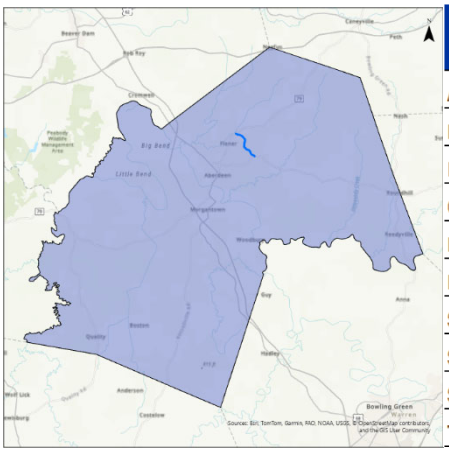
Recommendations

Point ID	RT_UNIQUE	Road Name	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve	Additional Comments	Improve Shoulder	Edgeline[1]	Curve Signing
872	016-CR-1026 -000	THRELKEL RD	12	4	4	20-40	Very windy road		✓	✓

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Recommendation	
908	016-CR-1026 -000	THRELKEL RD	Intersection	No	other; No issues, end roadway	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Comments**	**Recommendation**
873	016-CR-1026 -000	THRELKEL RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
874	016-CR-1026 -000	THRELKEL RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons
906	016-CR-1026 -000	THRELKEL RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
907	016-CR-1026 -000	THRELKEL RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons

MCKENDREE CHAPEL RD(016-CR-1106 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	1	0	0	**1**
BACKING	0	0	0	**0**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	1	0	0	**1**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	1	0	0	**1**
Total	**3**	**0**	**0**	**3**

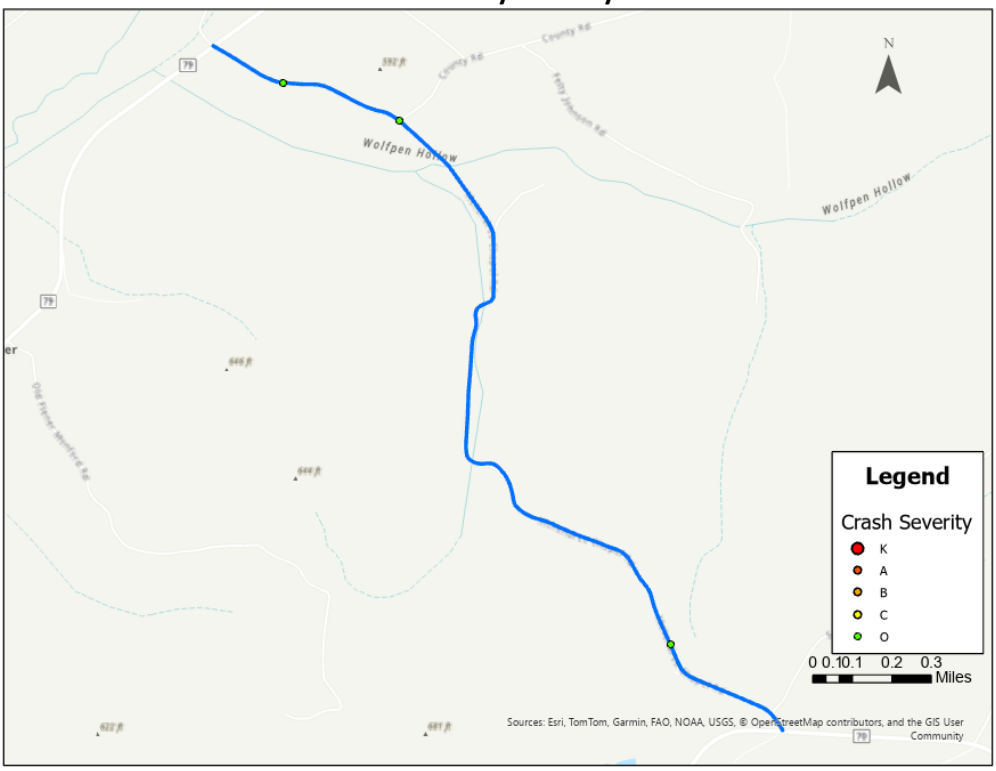
General Roadway Conditions

Roadway Section Data Not Collected

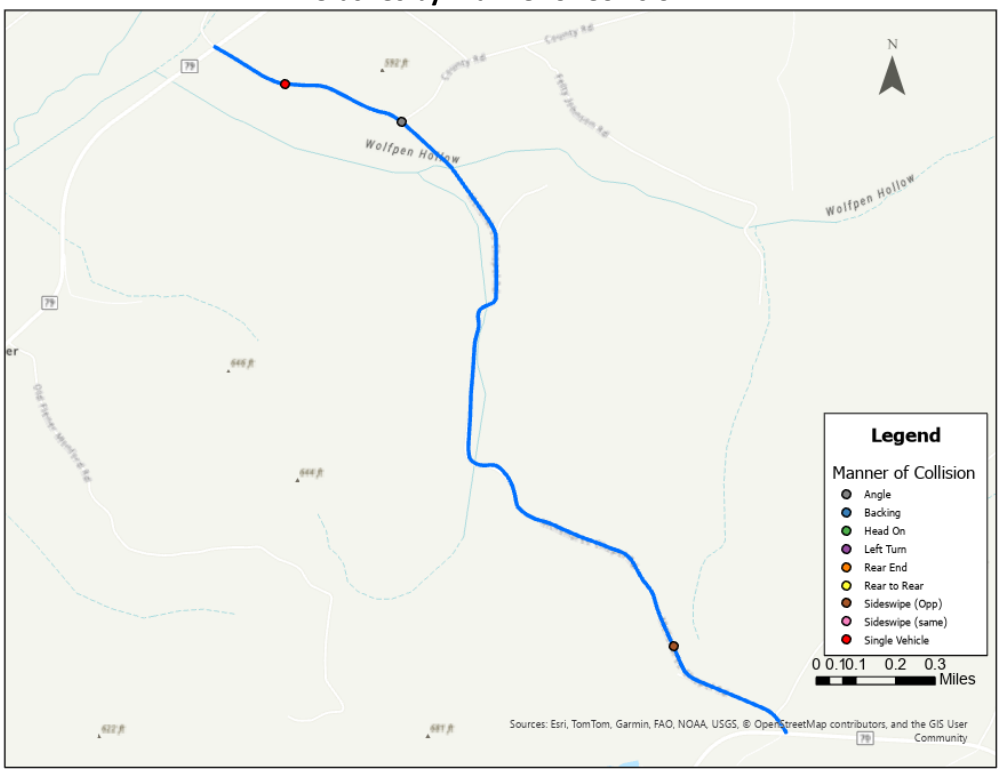
Roadway Typical Section



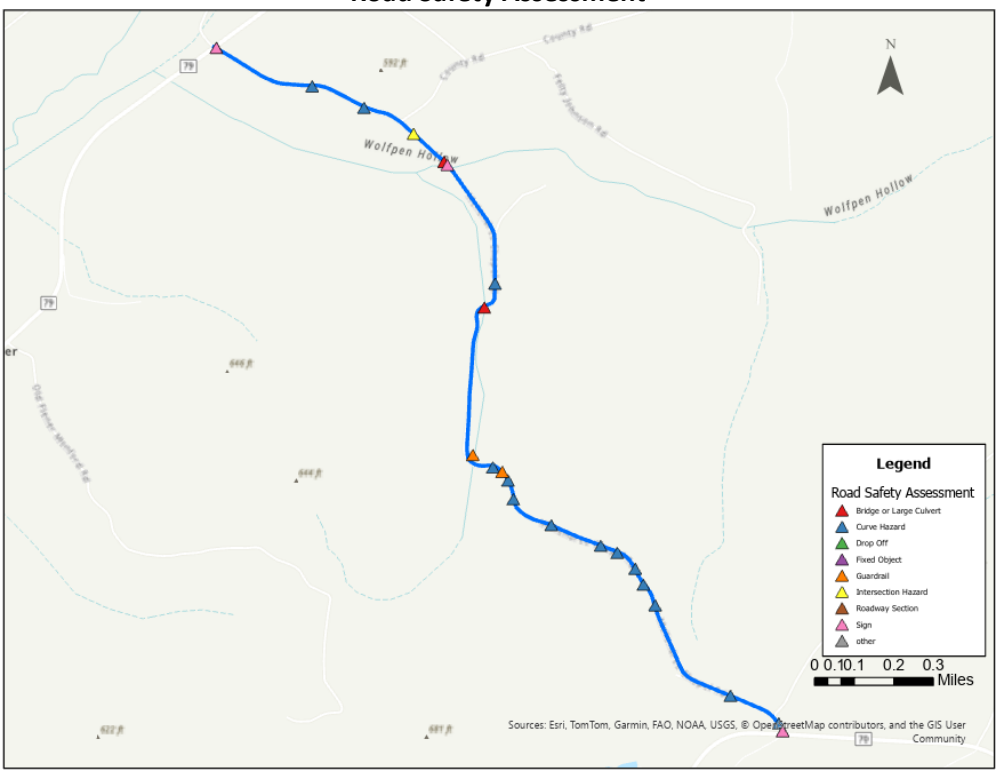
Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment

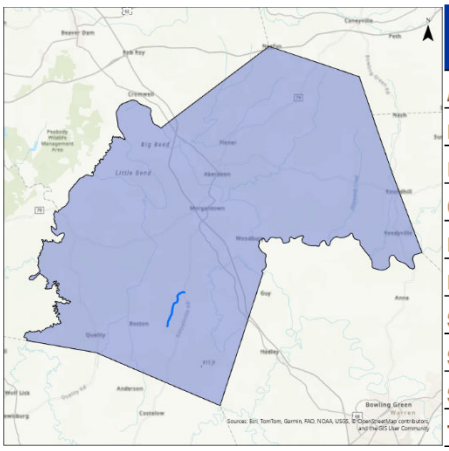


General Recommendations

Point ID	RT_UNIQUE	Road Name	Issue Type	Condition	End Treatments	Recommendation
451	016-CR-1106 -000	MCKENDREE CHAPEL RD	Guardrail	Fair	All_	--
465	016-CR-1106 -000	MCKENDREE CHAPEL RD	Guardrail	Fair	All_	--
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Recommendation**	
457	016-CR-1106 -000	MCKENDREE CHAPEL RD	Intersection	No	other; End of roadway, no issues	--
467	016-CR-1106 -000	MCKENDREE CHAPEL RD	Intersection	No	Intersection_Obscured_on_Approa	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
468	016-CR-1106 -000	MCKENDREE CHAPEL RD	Intersection	No	other; End of roadway, no issues	--
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Bridge Width**	**OM Present**	**Recommendation**
448	016-CR-1106 -000	MCKENDREE CHAPEL RD	Bridge or Large Culvert	15	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
466	016-CR-1106 -000	MCKENDREE CHAPEL RD	Bridge or Large Culvert	15	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Comments**	**Recommendation**
446	016-CR-1106 -000	MCKENDREE CHAPEL RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
447	016-CR-1106 -000	MCKENDREE CHAPEL RD	Curve Hazard	No	Intersection_in_Curve,Curve_Obscured	Install advance curve signing and chevrons
450	016-CR-1106 -000	MCKENDREE CHAPEL RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
452	016-CR-1106 -000	MCKENDREE CHAPEL RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons
453	016-CR-1106 -000	MCKENDREE CHAPEL RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons
454	016-CR-1106 -000	MCKENDREE CHAPEL RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
455	016-CR-1106 -000	MCKENDREE CHAPEL RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
456	016-CR-1106 -000	MCKENDREE CHAPEL RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons
459	016-CR-1106 -000	MCKENDREE CHAPEL RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
460	016-CR-1106 -000	MCKENDREE CHAPEL RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
461	016-CR-1106 -000	MCKENDREE CHAPEL RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
462	016-CR-1106 -000	MCKENDREE CHAPEL RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
463	016-CR-1106 -000	MCKENDREE CHAPEL RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
464	016-CR-1106 -000	MCKENDREE CHAPEL RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons

STEPHENS CHAPEL RD(016-CR-1206 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	0	0	0	**0**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	0	0	0	**0**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	0	0	0	**0**
Total	**0**	**0**	**0**	**0**

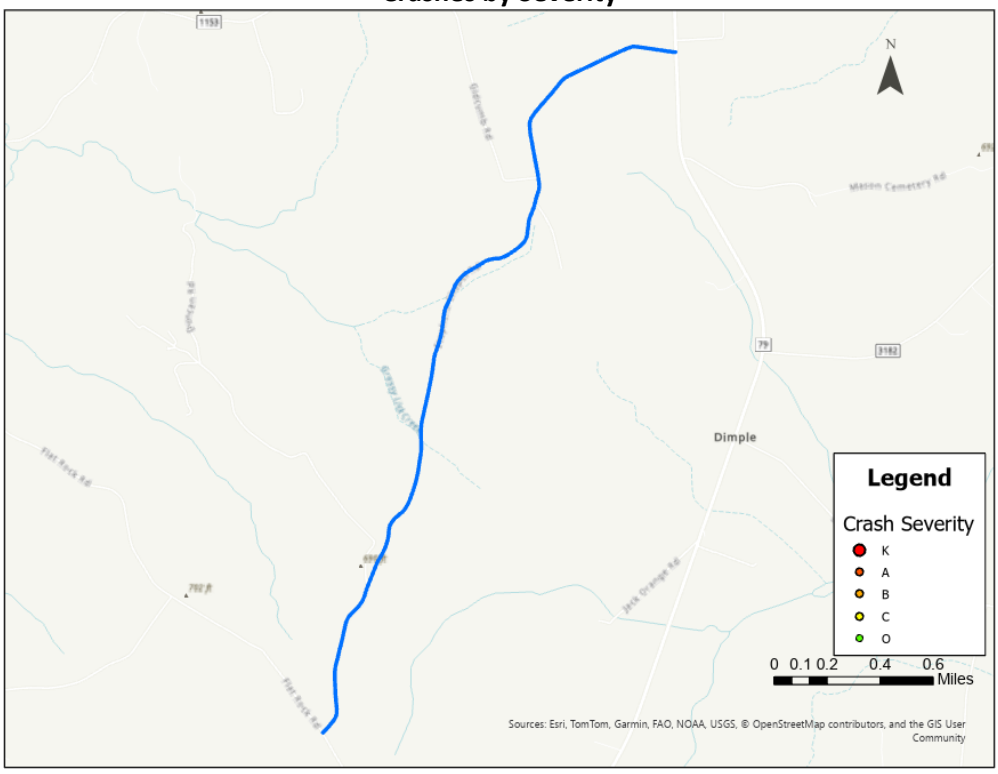
General Roadway Conditions

Roadway Section Data Not Collected

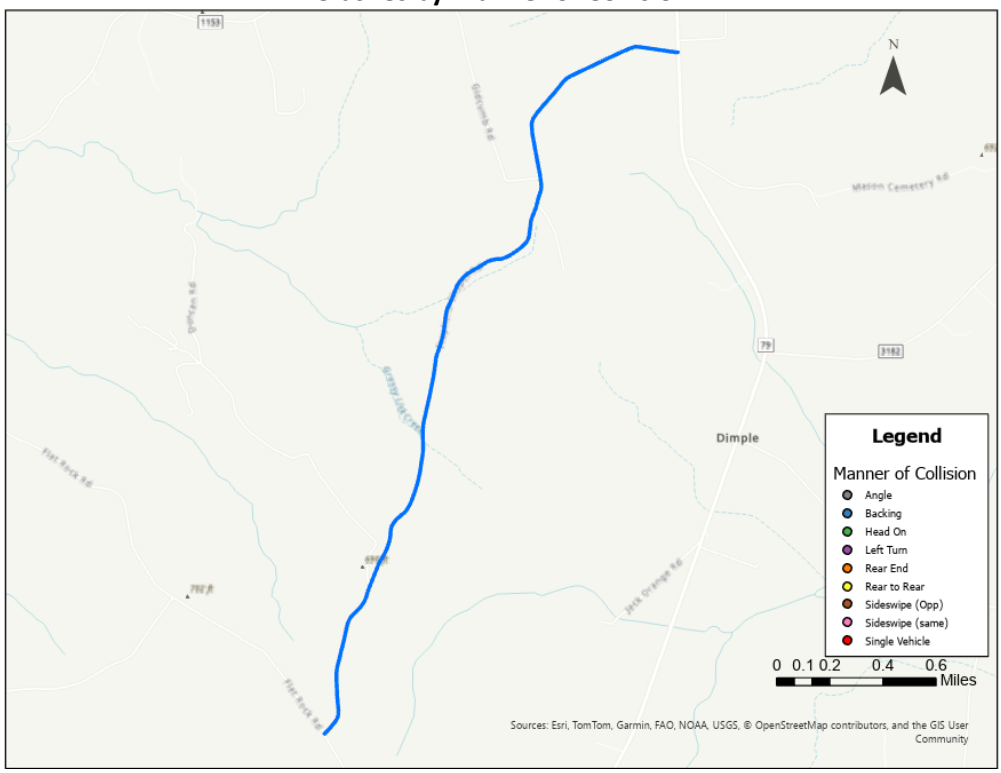
Roadway Typical Section



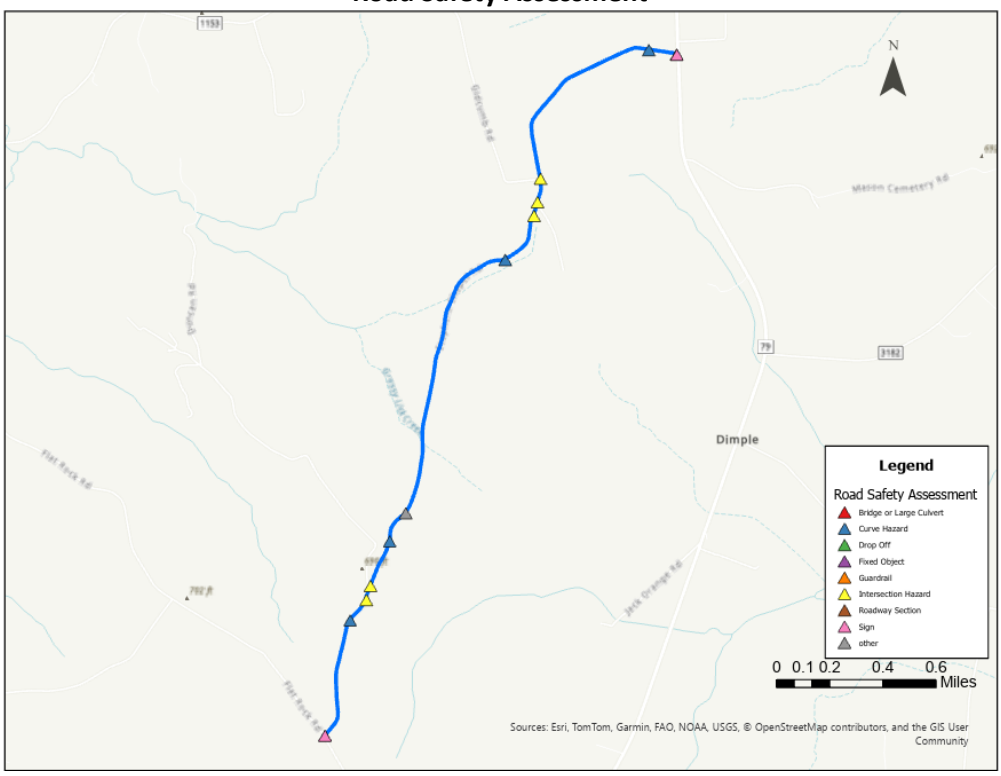
Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment

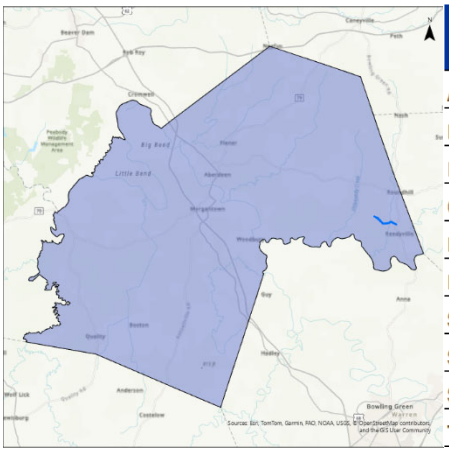


General Recommendations

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Recommendation	
841	016-CR-1206 -000	STEPHENS CHAPEL RD	Intersection	Yes	Intersection_Obscured_on_Approa,Intersection_Skew	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
843	016-CR-1206 -000	STEPHENS CHAPEL RD	Intersection	No	Intersection_Obscured_on_Approa	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
844	016-CR-1206 -000	STEPHENS CHAPEL RD	Intersection	No	Intersection_Obscured_on_Approa	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
845	016-CR-1206 -000	STEPHENS CHAPEL RD	Intersection	No	other; No issue, end of road	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
848	016-CR-1206 -000	STEPHENS CHAPEL RD	Intersection	Yes	Intersection_Obscured_on_Approa	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
851	016-CR-1206 -000	STEPHENS CHAPEL RD	Intersection	Yes	Intersection_Skew,Intersection_Obscured_on_Approa	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
853	016-CR-1206 -000	STEPHENS CHAPEL RD	Intersection	No	Intersection_Obscured_on_Approa	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Comments**	**Recommendation**
842	016-CR-1206 -000	STEPHENS CHAPEL RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
847	016-CR-1206 -000	STEPHENS CHAPEL RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons; Remove Vegetation
849	016-CR-1206 -000	STEPHENS CHAPEL RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons; Remove Vegetation
852	016-CR-1206 -000	STEPHENS CHAPEL RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons; Remove Vegetation
Point ID	**RT_UNIQUE**	**RD_NAME**	**Issue Type**	**--**	**Description**	**Recommendation**
850	016-CR-1206 -000	STEPHENS CHAPEL RD	Other	0	Small hill blocking view	Install "Hill Blocks Sight Distance" Sign.

REGION REEDYVILLE RD(016-CR-1033 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	0	0	0	**0**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	0	0	0	**0**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	0	0	0	**0**
Total	**0**	**0**	**0**	**0**

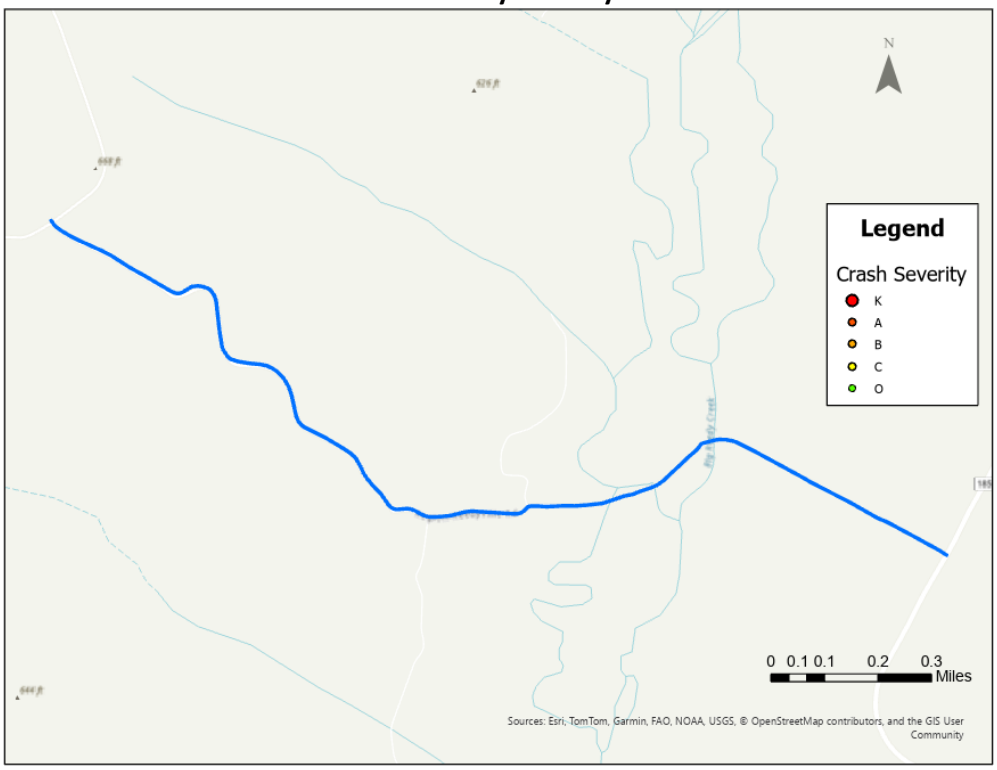
General Roadway Conditions

RT_UNIQUE	Road Name	Pvmt Width (f	Pavement Conditi	Roadside Hazard Rating	Shoulder Improve
016-CR-1033 -000	REGION REEDYVILLE RD	10	2	3	60-80

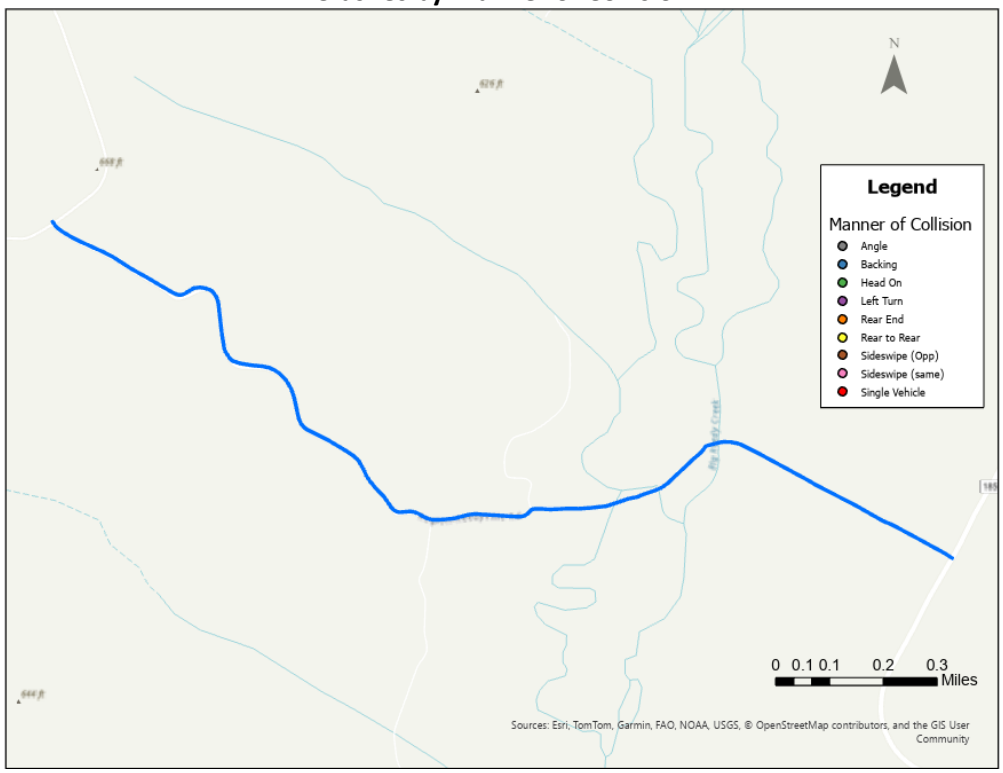
Roadway Typical Section



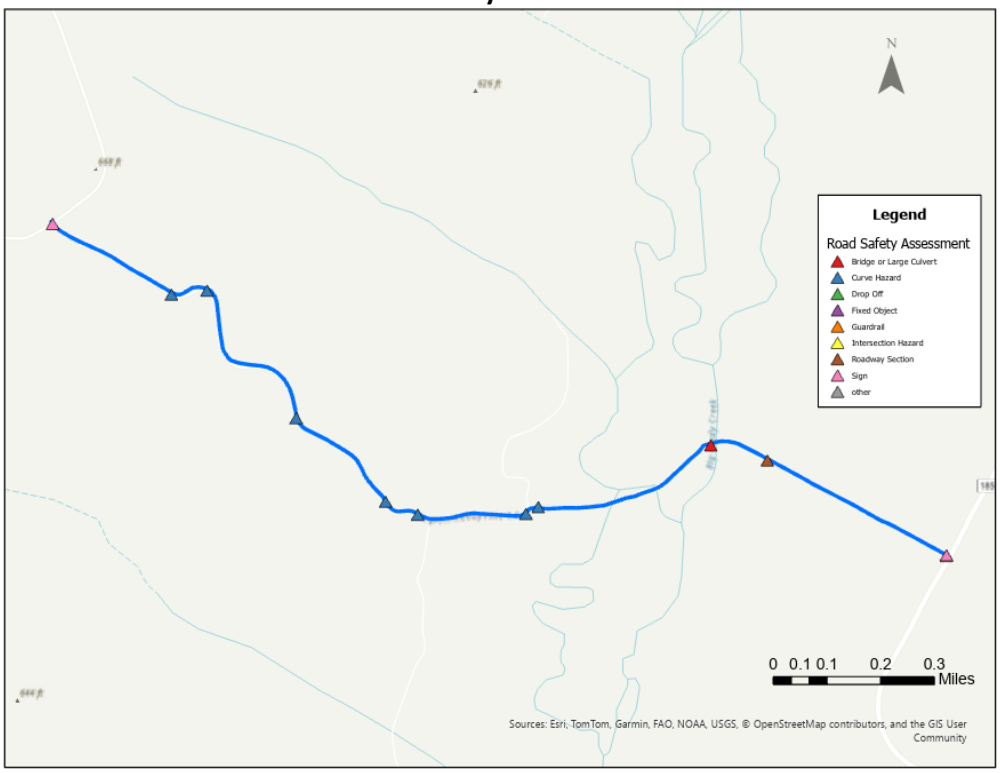
Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment



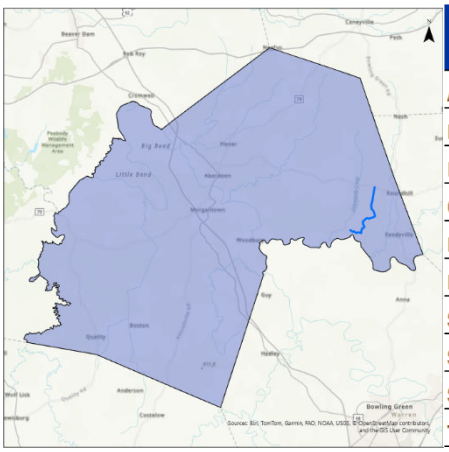
General Recommendations

Point ID	RT_UNIQUE	Road Name	Pvmt Width (f	Pavement Condition	Roadside Hazard Rating	Shoulder Improve	Additional Comments	Improve Shoulde	Edgeline	Curve Signin	Other Recommendations
897	016-CR-1033 -000	REGION REEDYVILLE RD	10	2	3	60-80	Very narrow, windy, and bumpy road	✓	✓	✓	Resurface

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Recommendation	
898	016-CR-1033 -000	REGION REEDYVILLE RD	Intersection	No	other; Stop sign not visible	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Bridge Width**	**OM Present**	**Recommendation**
896	016-CR-1033 -000	REGION REEDYVILLE RD	Bridge or Large Culvert	15	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Comments**	**Recommendation**
890	016-CR-1033 -000	REGION REEDYVILLE RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
891	016-CR-1033 -000	REGION REEDYVILLE RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
892	016-CR-1033 -000	REGION REEDYVILLE RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
893	016-CR-1033 -000	REGION REEDYVILLE RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
894	016-CR-1033 -000	REGION REEDYVILLE RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons
895	016-CR-1033 -000	REGION REEDYVILLE RD	Curve Hazard	Yes	Intersection_in_Curve,Curve_Obscured,vegetation	Install advance curve signing and chevrons
900	016-CR-1033 -000	REGION REEDYVILLE RD	Curve Hazard	No	Entrance_in_Curve,Curve_Obscured	Install advance curve signing and chevrons

REGION RD(016-CR-1031 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	0	0	0	**0**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	0	0	0	**0**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	0	0	0	**0**
Total	**0**	**0**	**0**	**0**

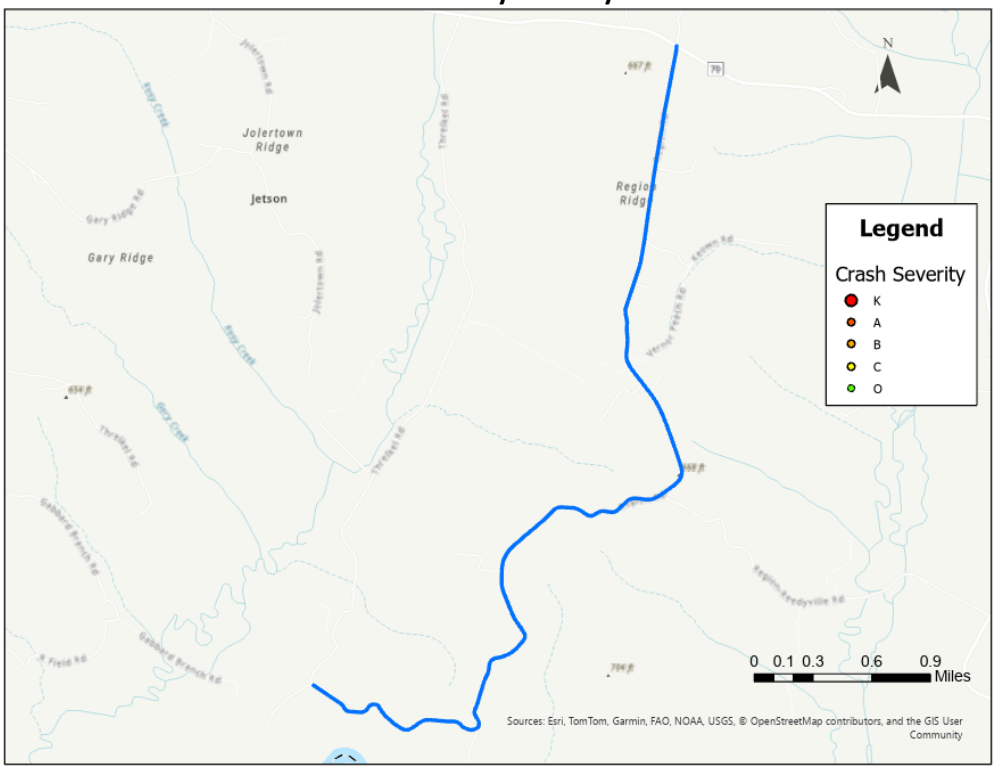
General Roadway Conditions

Roadway Section Data Not Collected

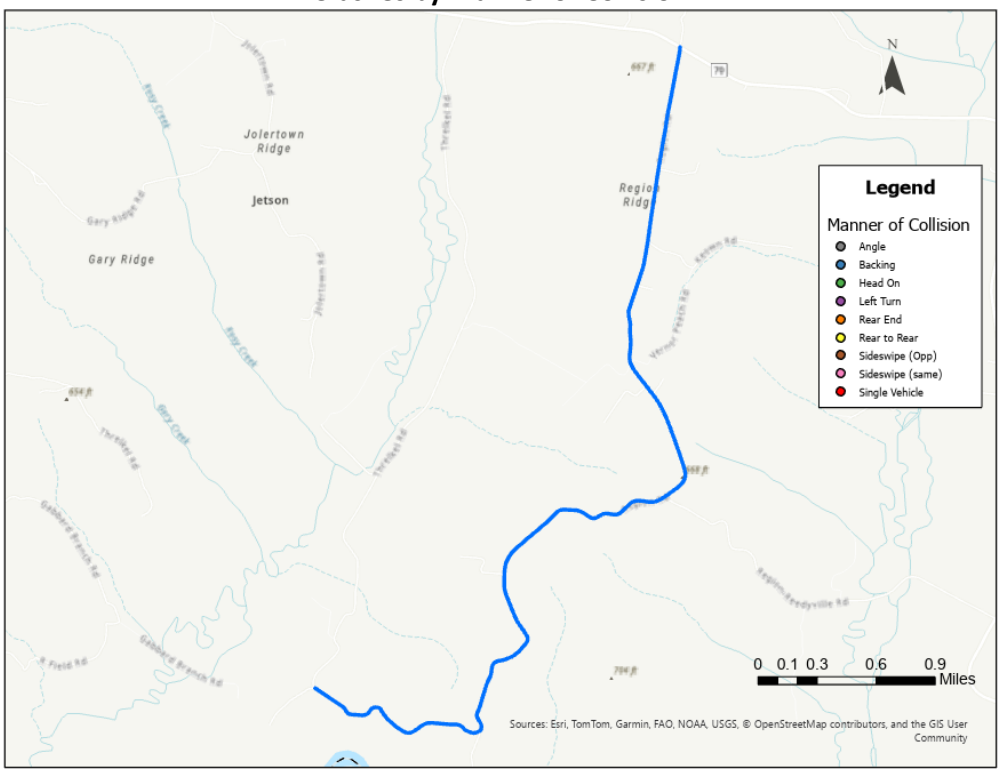
Roadway Typical Section



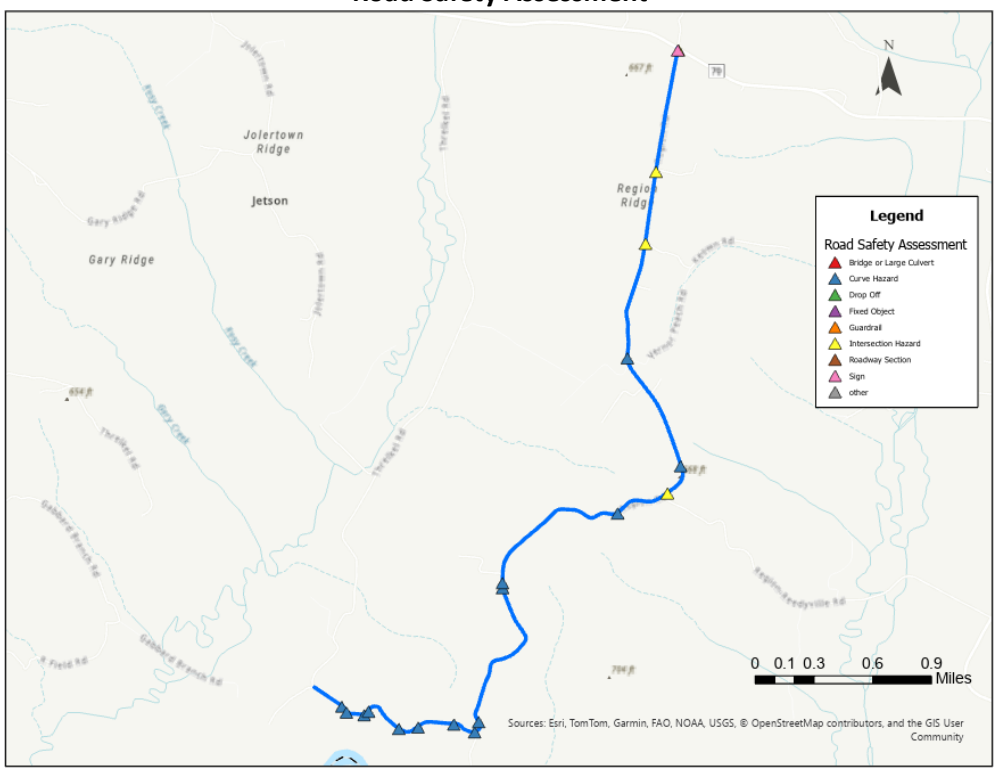
Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment



General Recommendations

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Recommendation	
883	016-CR-1031 -000	REGION RD	Intersection	Yes	Intersection_Obscured_on_Approa	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
884	016-CR-1031 -000	REGION RD	Intersection	No	Intersection_Obscured_on_Approa	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
886	016-CR-1031 -000	REGION RD	Intersection	Yes	Intersection_Obscured_on_Approa	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
889	016-CR-1031 -000	REGION RD	Intersection	Yes	Intersection_Obscured_on_Approa	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Comments**	**Recommendation**
875	016-CR-1031 -000	REGION RD	Curve Hazard	Yes	vegetation	Install advance curve signing and chevrons; Remove Vegetation
876	016-CR-1031 -000	REGION RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons; Remove Vegetation
877	016-CR-1031 -000	REGION RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
878	016-CR-1031 -000	REGION RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
879	016-CR-1031 -000	REGION RD	Curve Hazard	Yes	vegetation	Install advance curve signing and chevrons
880	016-CR-1031 -000	REGION RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
881	016-CR-1031 -000	REGION RD	Curve Hazard	No	Intersection_in_Curve	Install advance curve signing and chevrons
882	016-CR-1031 -000	REGION RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
887	016-CR-1031 -000	REGION RD	Curve Hazard	No	Intersection_in_Curve	Install advance curve signing and chevrons
888	016-CR-1031 -000	REGION RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
902	016-CR-1031 -000	REGION RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons; Remove Vegetation
903	016-CR-1031 -000	REGION RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
904	016-CR-1031 -000	REGION RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
905	016-CR-1031 -000	REGION RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons; Remove Vegetation

Other Roadways

General Roadway Conditions and Recommendations (Butler County)

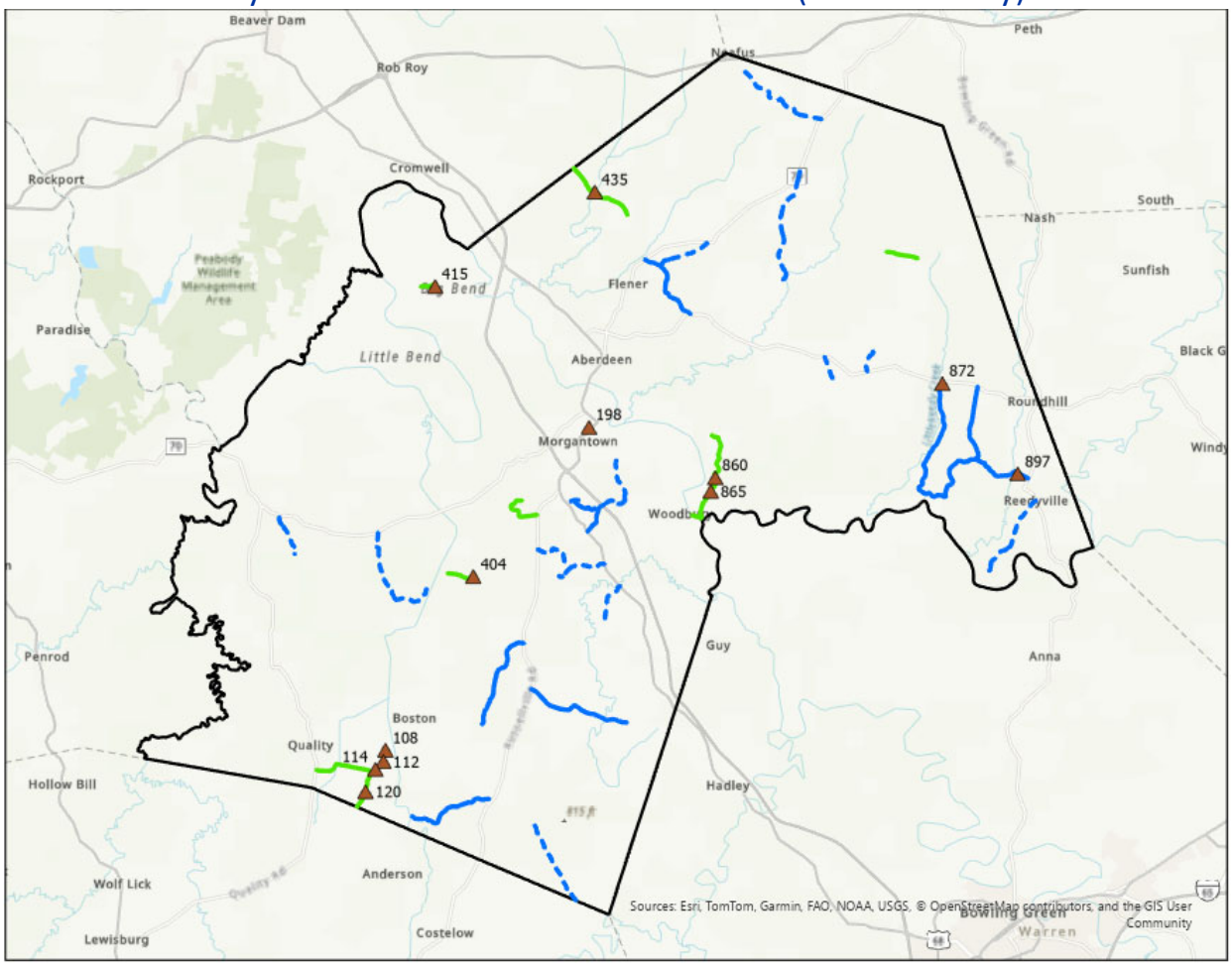


Exhibit Butler-10: General Roadway Conditions

Point ID	RT_UNIQUE	Road Name	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve	Additional Comments	Improve Shoulder	Edgeline[1]	Curve Signing	Other Recommendations
108	016-CR-1274 -000	TOY SPRINGS RD	10	3	6	60-80		✓	✓	✓	
112	016-CR-1274 -000	TOY SPRINGS RD	10	4	6	60-80		✓	✓	✓	
114	016-CR-1274 -000	TOY SPRINGS RD	10	2	3	20-40			✓	✓	Resurface
120	016-CR-1274 -000	TOY SPRINGS RD	10	2	4	60-80		✓	✓	✓	Resurface
140	016-CR-1274 -000	TOY SPRINGS RD	10	3	3	0-20	Grass in pavement		✓	✓	
404	016-CR-1220 -000	CHILDRESS RD	10	1	3	0-20	Road in poor condition throughout. Very narrow and various potholes.		✓	✓	Resurface
415	016-CR-1384 -000	LONNIE MOORE RD	10	2	3	60-80	Very narrow throughout, occasional pothole, one lane with no shoulder	✓	✓	✓	Resurface
435	016-CR-1362 -000	FLINT SPRINGS RD	10	3	3	0-20	Switches to gravel then back to pavement		✓	✓	Consider asphalt overlay/chip seal on gravel section
860	016-CR-1014 -000	LEONARD OAK CHURCH RD	12	4	5	60-80	Wooded area	✓	✓	✓	
865	016-CR-1014 -000	LEONARD OAK CHURCH RD	18	4	3	60-80	Agricultural field, gravel on roadway pavement	✓		✓	Consider Edgeline and Centerline
872	016-CR-1026 -000	THRELKEL RD	12	4	4	20-40	Very windy road		✓	✓	
897	016-CR-1033 -000	REGION REEDYVILLE RD	10	2	3	60-80	Very narrow, windy, and bumpy road	✓	✓	✓	Resurface

Exhibit Butler-11: General Roadway Recommendations

Bridge / Culvert Recommendations (Butler County)

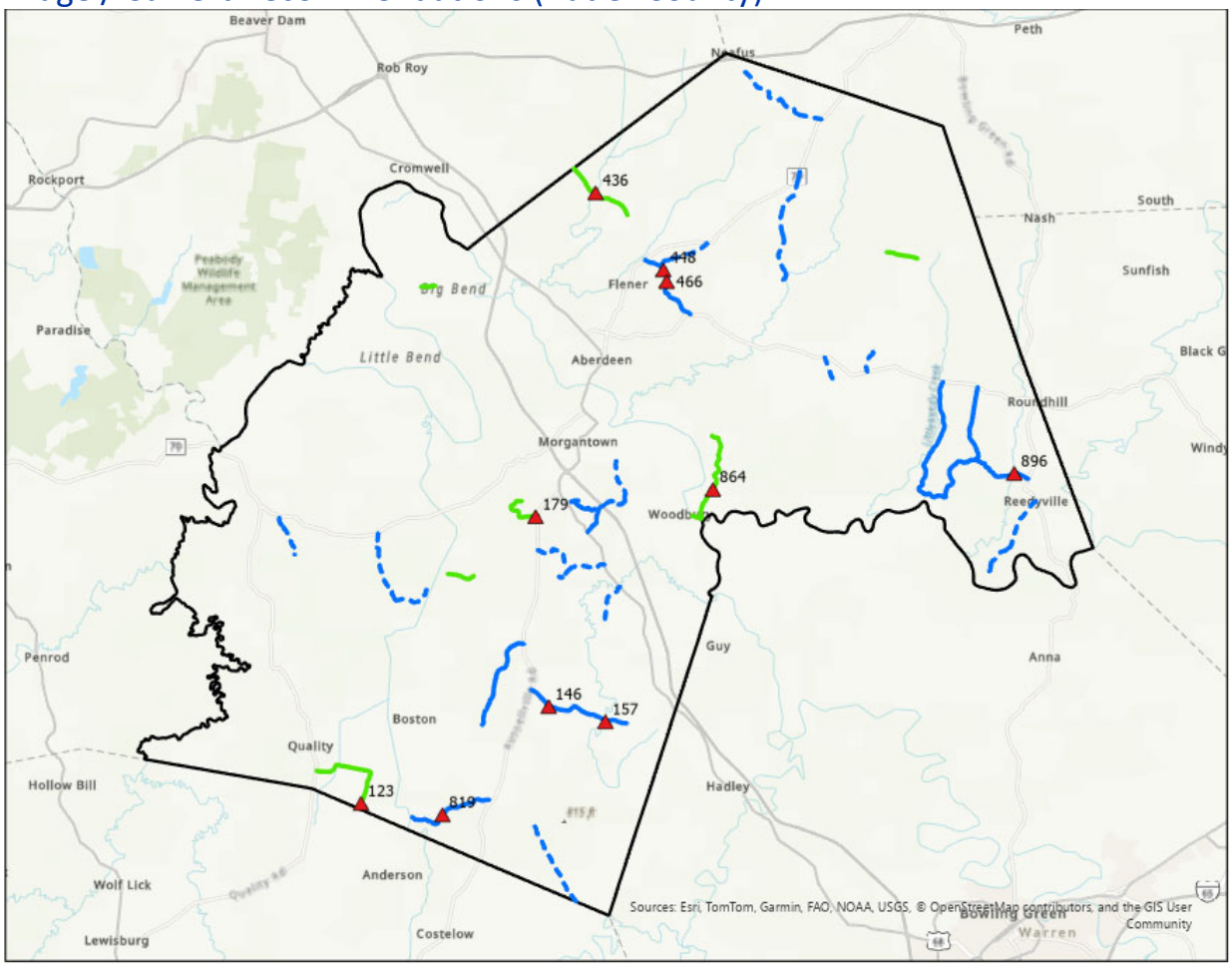


Exhibit Butler-12: Bridge / Culvert Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Bridge Width	Guardrail Present	OM Present	Recommendation
123	016-CR-1274 -000	TOY SPRINGS RD	Bridge or Large Culvert	15	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
146	016-CR-1182 -000	DIMPLE RD	Bridge or Large Culvert	15	2	0	Evaluate the need for guardrail on missing approaches. Type 3 Object Markers may be installed or serve as a Temporary measure.
157	016-CR-1182 -000	DIMPLE RD	Bridge or Large Culvert	20	4	0	Install Type 3 Object Markers where missing; Install Advance Curve Warning Signs on Bridge Approach.
179	016-CR-1216 -000	HIDDEN VALLEY RD	Bridge or Large Culvert	10	0	1	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
436	016-CR-1362 -000	FLINT SPRINGS RD	Bridge or Large Culvert	12	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure; Consider Bridge Rehabilitation measures to improve overall condition.
448	016-CR-1106 -000	MCKENDREE CHAPEL RD	Bridge or Large Culvert	15	4	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
466	016-CR-1106 -000	MCKENDREE CHAPEL RD	Bridge or Large Culvert	15	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
819	016-CR-1271 -000	CANEY FORK RD	Bridge or Large Culvert	12	0	2	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
864	016-CR-1014 -000	LEONARD OAK CHURCH RD	Bridge or Large Culvert	12	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
896	016-CR-1033 -000	REGION REEDYVILLE RD	Bridge or Large Culvert	15	4	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.

Exhibit Butler-13: Bridge / Culvert Recommendations

Curve Recommendations (Butler County)

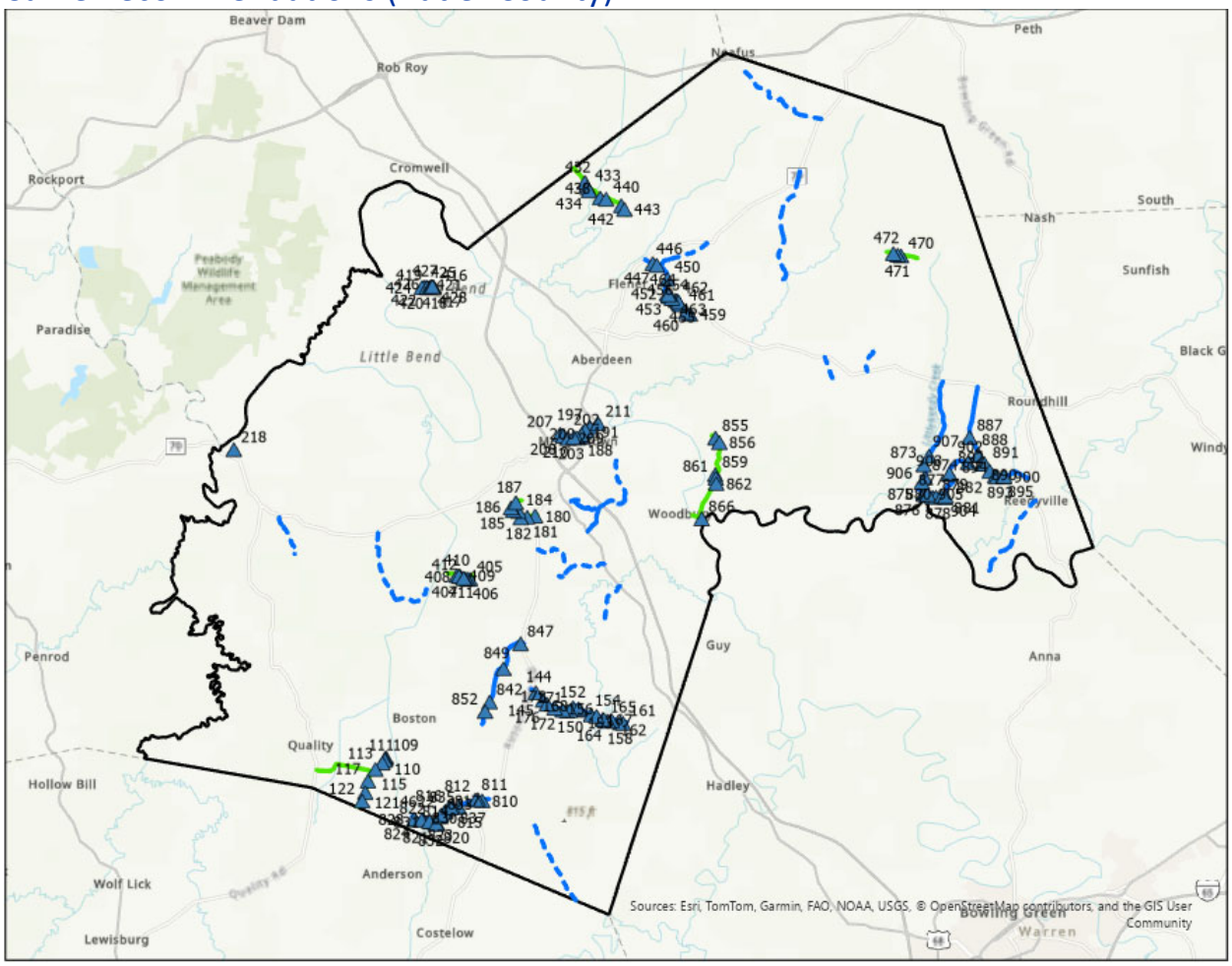


Exhibit Butler-14: Focus Road Curves

See Attachment for Curve Recommendations in Butler County

Point ID	RT_UNIQUE	Road Name	Issue Type	Comments	Vegetation	Recommendation
109	016-CR-1274 -000	TOY SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
110	016-CR-1274 -000	TOY SPRINGS RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
111	016-CR-1274 -000	TOY SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
113	016-CR-1274 -000	TOY SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
115	016-CR-1274 -000	TOY SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
117	016-CR-1274 -000	TOY SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
121	016-CR-1274 -000	TOY SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
122	016-CR-1274 -000	TOY SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
126	016-CR-1274 -000	TOY SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
127	016-CR-1274 -000	TOY SPRINGS RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
128	016-CR-1274 -000	TOY SPRINGS RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
129	016-CR-1274 -000	TOY SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
132	016-CR-1274 -000	TOY SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
134	016-CR-1274 -000	TOY SPRINGS RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
135	016-CR-1274 -000	TOY SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
136	016-CR-1274 -000	TOY SPRINGS RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
137	016-CR-1274 -000	TOY SPRINGS RD	Curve Hazard	Curve_Obscured	Yes	Install advance curve signing and chevrons; Remove Vegetation
138	016-CR-1274 -000	TOY SPRINGS RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
139	016-CR-1274 -000	TOY SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
144	016-CR-1182 -000	DIMPLE RD	Curve Hazard	Curve_Obscured	Yes	Install advance curve signing and chevrons; Remove Vegetation
145	016-CR-1182 -000	DIMPLE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
150	016-CR-1182 -000	DIMPLE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
152	016-CR-1182 -000	DIMPLE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
153	016-CR-1182 -000	DIMPLE RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
154	016-CR-1182 -000	DIMPLE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
156	016-CR-1182 -000	DIMPLE RD	Curve Hazard	Curve_Obscured	Yes	Install advance curve signing and chevrons; Remove Vegetation
158	016-CR-1182 -000	DIMPLE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
161	016-CR-1182 -000	DIMPLE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
162	016-CR-1182 -000	DIMPLE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
164	016-CR-1182 -000	DIMPLE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
165	016-CR-1182 -000	DIMPLE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
167	016-CR-1182 -000	DIMPLE RD	Curve Hazard	Curve_Obscured; Utility Pole	No	Install advance curve signing and chevrons
168	016-CR-1182 -000	DIMPLE RD	Curve Hazard	Curve_Obscured; Tree	No	Install advance curve signing and chevrons
171	016-CR-1182 -000	DIMPLE RD	Curve Hazard	Curve_Obscured; other; Stone mailbox	No	Install advance curve signing and chevrons
172	016-CR-1182 -000	DIMPLE RD	Curve Hazard	Curve_Obscured; other; Fence	No	Install advance curve signing and chevrons
173	016-CR-1182 -000	DIMPLE RD	Curve Hazard	Curve_Obscured; Tree	No	Install advance curve signing and chevrons
176	016-CR-1182 -000	DIMPLE RD	Curve Hazard	Curve_Obscured; Utility Pole	No	Install advance curve signing and chevrons
180	016-CR-1216 -000	HIDDEN VALLEY RD	Curve Hazard	Curve_Obscured; Tree	No	Install advance curve signing and chevrons
181	016-CR-1216 -000	HIDDEN VALLEY RD	Curve Hazard	Curve_Obscured; Tree	No	Install advance curve signing and chevrons
182	016-CR-1216 -000	HIDDEN VALLEY RD	Curve Hazard	vegetation; other; Utility	Yes	Install advance curve signing and chevrons; Remove Vegetation
184	016-CR-1216 -000	HIDDEN VALLEY RD	Curve Hazard	Curve_Obscured; Tree	No	Install advance curve signing and chevrons
185	016-CR-1216 -000	HIDDEN VALLEY RD	Curve Hazard	Curve_Obscured; Tree	No	Install advance curve signing and chevrons
186	016-CR-1216 -000	HIDDEN VALLEY RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
187	016-CR-1216 -000	HIDDEN VALLEY RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
188	016-CS-1025 -000	#N/A	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
191	016-CS-1025 -000	#N/A	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
197	016-CS-1025 -000	#N/A	Curve Hazard	other	Yes	Install advance curve signing and chevrons; Remove Vegetation
200	016-CS-1025 -000	#N/A	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
202	016-CS-1025 -000	#N/A	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
203	016-CS-1025 -000	#N/A	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
207	016-CS-1025 -000	#N/A	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
208	016-CS-1025 -000	#N/A	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
209	016-CS-1025 -000	#N/A	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
210	016-CS-1025 -000	#N/A	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
211	016-CS-1016 -000	#N/A	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
218	016-CS-2004 -000	#N/A	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
405	016-CR-1220 -000	CHILDRESS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
406	016-CR-1220 -000	CHILDRESS RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
407	016-CR-1220 -000	CHILDRESS RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
408	016-CR-1220 -000	CHILDRESS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
409	016-CR-1220 -000	CHILDRESS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
410	016-CR-1220 -000	CHILDRESS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
411	016-CR-1220 -000	CHILDRESS RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
412	016-CR-1220 -000	CHILDRESS RD	Curve Hazard	Curve_Obscured,Intersection_in_Curve	No	Install advance curve signing and chevrons

Point ID	RT_UNIQUE	Road Name	Issue Type	Comments	Vegetation	Recommendation
416	016-CR-1384 -000	LONNIE MOORE RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; clear vegetation
417	016-CR-1384 -000	LONNIE MOORE RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
418	016-CR-1384 -000	LONNIE MOORE RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; clear vegetation
419	016-CR-1384 -000	LONNIE MOORE RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; clear vegetation
420	016-CR-1384 -000	LONNIE MOORE RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; clear vegetation
421	016-CR-1384 -000	LONNIE MOORE RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; clear vegetation
422	016-CR-1384 -000	LONNIE MOORE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons; clear vegetation
424	016-CR-1384 -000	LONNIE MOORE RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; clear vegetation
425	016-CR-1384 -000	LONNIE MOORE RD	Curve Hazard	Curve_Obscured	Yes	Install advance curve signing and chevrons; clear vegetation
426	016-CR-1384 -000	LONNIE MOORE RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; clear vegetation
427	016-CR-1384 -000	LONNIE MOORE RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; clear vegetation
428	016-CR-1384 -000	LONNIE MOORE RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; clear vegetation
432	016-CR-1362 -000	FLINT SPRINGS RD	Curve Hazard	vegetation	Yes	Clear vegetation
433	016-CR-1362 -000	FLINT SPRINGS RD	Curve Hazard	vegetation,Curve_Obscured	Yes	Install advance curve signing and chevrons; Remove Vegetation
434	016-CR-1362 -000	FLINT SPRINGS RD	Curve Hazard	Curve_Obscured	No	Clear vegetation
438	016-CR-1362 -000	FLINT SPRINGS RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation. Consider installing edgelines and stop bar at intersection.
440	016-CR-1362 -000	FLINT SPRINGS RD	Curve Hazard	Curve_Obscured	No	Clear vegetation
442	016-CR-1362 -000	FLINT SPRINGS RD	Curve Hazard	Curve_Obscured	No	Clear vegetation
443	016-CR-1362 -000	FLINT SPRINGS RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
446	016-CR-1106 -000	MCKENDREE CHAPEL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
447	016-CR-1106 -000	MCKENDREE CHAPEL RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
450	016-CR-1106 -000	MCKENDREE CHAPEL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
452	016-CR-1106 -000	MCKENDREE CHAPEL RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
453	016-CR-1106 -000	MCKENDREE CHAPEL RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
454	016-CR-1106 -000	MCKENDREE CHAPEL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
455	016-CR-1106 -000	MCKENDREE CHAPEL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
456	016-CR-1106 -000	MCKENDREE CHAPEL RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
459	016-CR-1106 -000	MCKENDREE CHAPEL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
460	016-CR-1106 -000	MCKENDREE CHAPEL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
461	016-CR-1106 -000	MCKENDREE CHAPEL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
462	016-CR-1106 -000	MCKENDREE CHAPEL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
463	016-CR-1106 -000	MCKENDREE CHAPEL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
464	016-CR-1106 -000	MCKENDREE CHAPEL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
470	016-CR-1052 -000	TAYLOR CEMETERY RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
471	016-CR-1052 -000	TAYLOR CEMETERY RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
472	016-CR-1052 -000	TAYLOR CEMETERY RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
810	016-CR-1271 -000	CANEY FORK RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
811	016-CR-1271 -000	CANEY FORK RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
812	016-CR-1271 -000	CANEY FORK RD	Curve Hazard	Intersection_in_Curve	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection; Clear vegetation
814	016-CR-1271 -000	CANEY FORK RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
815	016-CR-1271 -000	CANEY FORK RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
816	016-CR-1271 -000	CANEY FORK RD	Curve Hazard	Intersection_in_Curve	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection; Clear vegetation
817	016-CR-1271 -000	CANEY FORK RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
820	016-CR-1271 -000	CANEY FORK RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
821	016-CR-1271 -000	CANEY FORK RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
822	016-CR-1271 -000	CANEY FORK RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
823	016-CR-1271 -000	CANEY FORK RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation. Consider installing edgelines and stop bar at intersection.
824	016-CR-1271 -000	CANEY FORK RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
828	016-CR-1271 -000	CANEY FORK RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
830	016-CR-1271 -000	CANEY FORK RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
831	016-CR-1271 -000	CANEY FORK RD	Curve Hazard	vegetation,Curve_Obscured	Yes	Install advance curve signing and chevrons; Remove Vegetation
832	016-CR-1271 -000	CANEY FORK RD	Curve Hazard	Curve_Obscured,Entrance_in_Curve	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection; Clear vegetation
833	016-CR-1271 -000	CANEY FORK RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
835	016-CR-1271 -000	CANEY FORK RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons

Point ID	RT_UNIQUE	Road Name	Issue Type	Comments	Vegetation	Recommendation
837	016-CR-1271 -000	CANEY FORK RD	Curve Hazard	vegetation,Curve_Obscured	Yes	Install advance curve signing and chevrons; Remove Vegetation
842	016-CR-1206 -000	STEPHENS CHAPEL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
847	016-CR-1206 -000	STEPHENS CHAPEL RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
849	016-CR-1206 -000	STEPHENS CHAPEL RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
852	016-CR-1206 -000	STEPHENS CHAPEL RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
855	016-CR-1014 -000	LEONARD OAK CHURCH RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; clear vegetation
856	016-CR-1014 -000	LEONARD OAK CHURCH RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; clear vegetation
859	016-CR-1014 -000	LEONARD OAK CHURCH RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons; clear vegetation
861	016-CR-1014 -000	LEONARD OAK CHURCH RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons; clear vegetation
862	016-CR-1014 -000	LEONARD OAK CHURCH RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons; clear vegetation
866	016-CR-1014 -000	LEONARD OAK CHURCH RD	Curve Hazard	Entrance_in_Curve	No	Install advance curve signing and chevrons; clear vegetation
873	016-CR-1026 -000	THRELKEL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
874	016-CR-1026 -000	THRELKEL RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
875	016-CR-1031 -000	REGION RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
876	016-CR-1031 -000	REGION RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
877	016-CR-1031 -000	REGION RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
878	016-CR-1031 -000	REGION RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
879	016-CR-1031 -000	REGION RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons
880	016-CR-1031 -000	REGION RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
881	016-CR-1031 -000	REGION RD	Curve Hazard	Intersection_in_Curve	No	Install advance curve signing and chevrons
882	016-CR-1031 -000	REGION RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
887	016-CR-1031 -000	REGION RD	Curve Hazard	Intersection_in_Curve	No	Install advance curve signing and chevrons
888	016-CR-1031 -000	REGION RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
890	016-CR-1033 -000	REGION REEDYVILLE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
891	016-CR-1033 -000	REGION REEDYVILLE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
892	016-CR-1033 -000	REGION REEDYVILLE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
893	016-CR-1033 -000	REGION REEDYVILLE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
894	016-CR-1033 -000	REGION REEDYVILLE RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
895	016-CR-1033 -000	REGION REEDYVILLE RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation. Consider installing edgelines and stop bar at intersection.
900	016-CR-1033 -000	REGION REEDYVILLE RD	Curve Hazard	Entrance_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons
902	016-CR-1031 -000	REGION RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
903	016-CR-1031 -000	REGION RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
904	016-CR-1031 -000	REGION RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
905	016-CR-1031 -000	REGION RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
906	016-CR-1026 -000	THRELKEL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
907	016-CR-1026 -000	THRELKEL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4622	016-CR-1271 -000	CANEY FORK RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation

Roadside Drop Off Recommendations (Butler County)

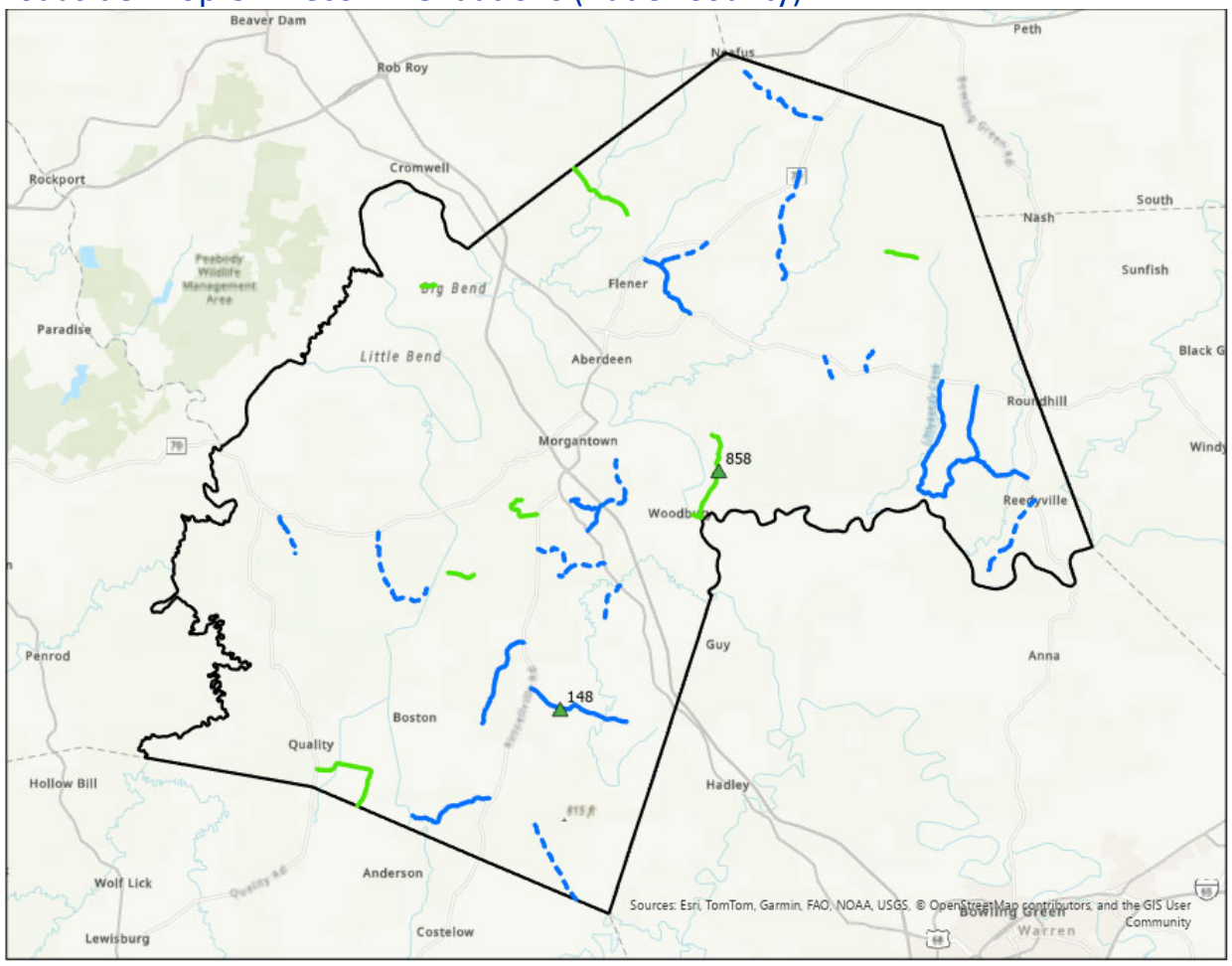


Exhibit Butler-15: Roadside Drop Off Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Drop Off Offset	Drop Off Height	Additional Comments	Recommendation
148	016-CR-1182 -000	DIMPLE RD	Drop Off	>5	>10	Drop off into water	Evaluate roadway width, curvature and grade at drop off compared to other locations in county to evaluate need for guardrail
858	016-CR-1014 -000	LEONARD OAK CHURCH RD	Drop Off	>5	>10	Sloped drop off	--

Exhibit Butler-16: Roadside Drop Off Recommendations

Fixed Object Recommendations (Butler County)

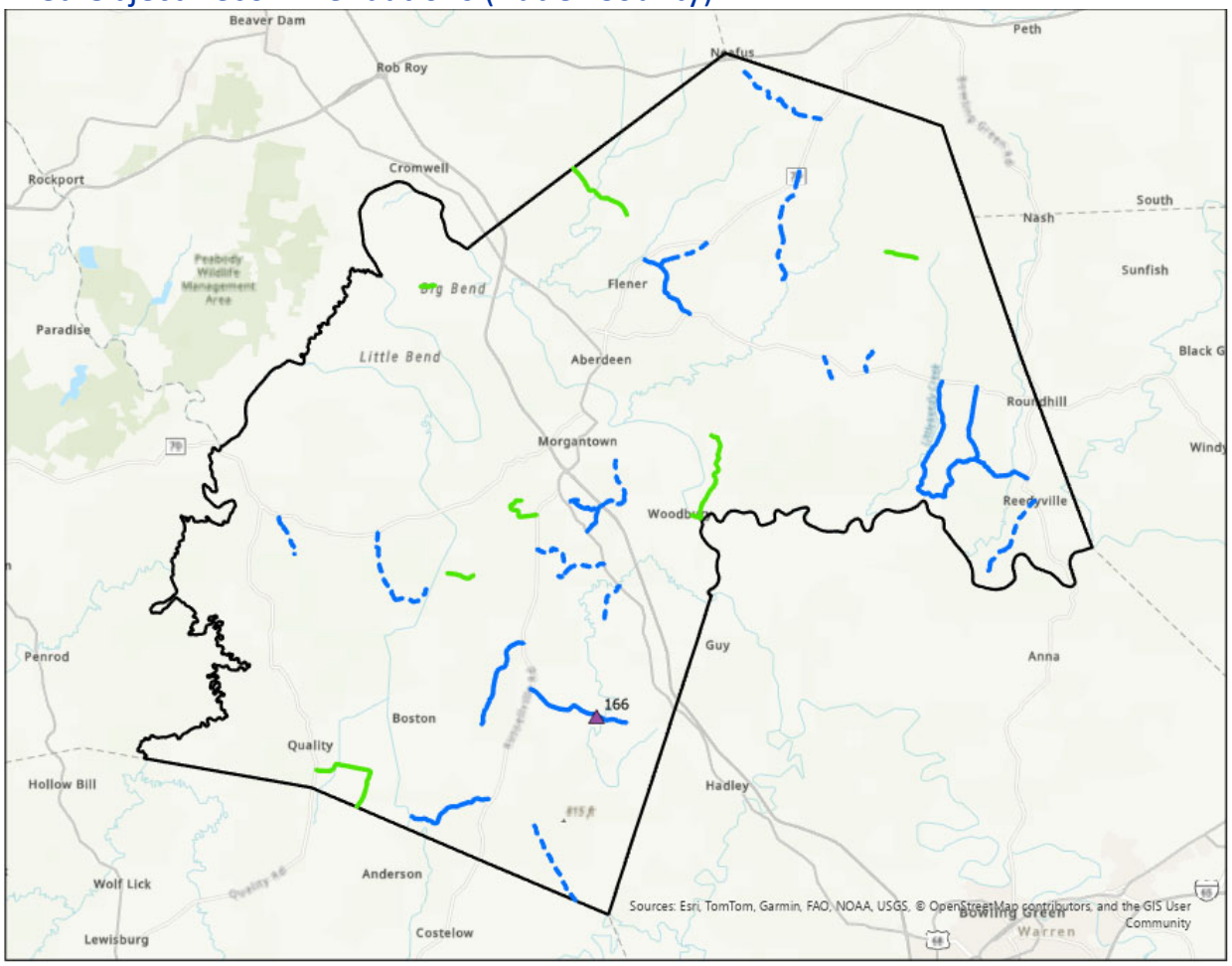


Exhibit Butler-17: Fixed Object Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Object	Single / Series	Offset	Recommendation
166	016-CR-1182 -000	DIMPLE RD	Fixed Object	other; Stump	Single	3-5	Remove

Exhibit Butler-18: Fixed Object Recommendations

Guardrail Recommendations (Butler County)

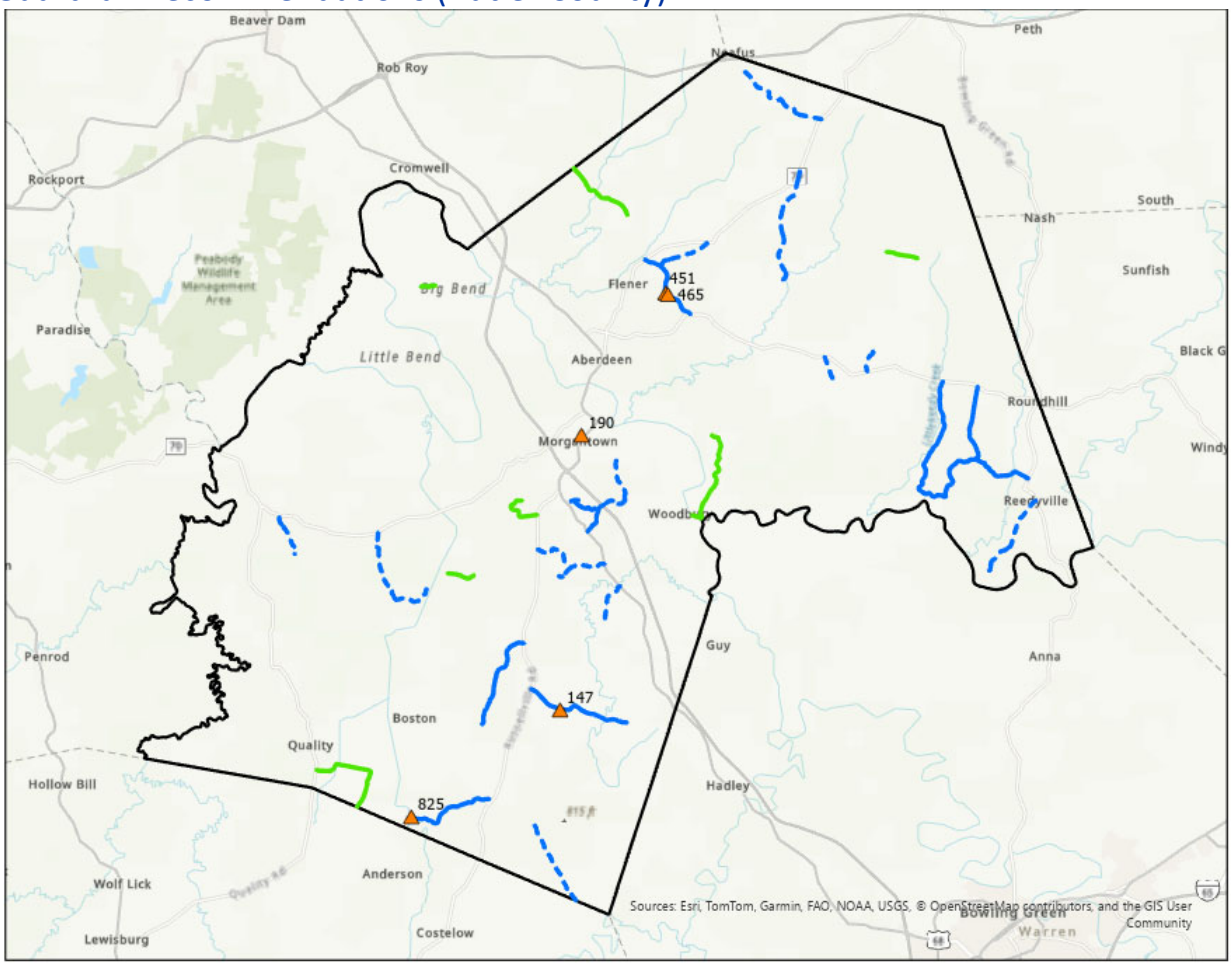


Exhibit Butler-19: Guardrail Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Condition	Meet Warrant	End Treatmen	Recommendation	Comments
147	016-CR-1182 -000	DIMPLE RD	Guardrail	Poor	No	Some	Remove	
451	016-CR-1106 -000	MCKENDREE CHAPEL RD	Guardrail	Fair	Yes	All_	--	Guardrail on both sides of roadway
465	016-CR-1106 -000	MCKENDREE CHAPEL RD	Guardrail	Fair	Yes	All_	--	Opposite end of guardrail
825	016-CR-1271 -000	CANEY FORK RD	Guardrail	Good	Yes	Some	Install End Treatments where needed. Type 2 Object Marker may be used as temporary measure.	

Exhibit Butler-20: Guardrail Recommendations

Intersection Recommendations (Butler County)

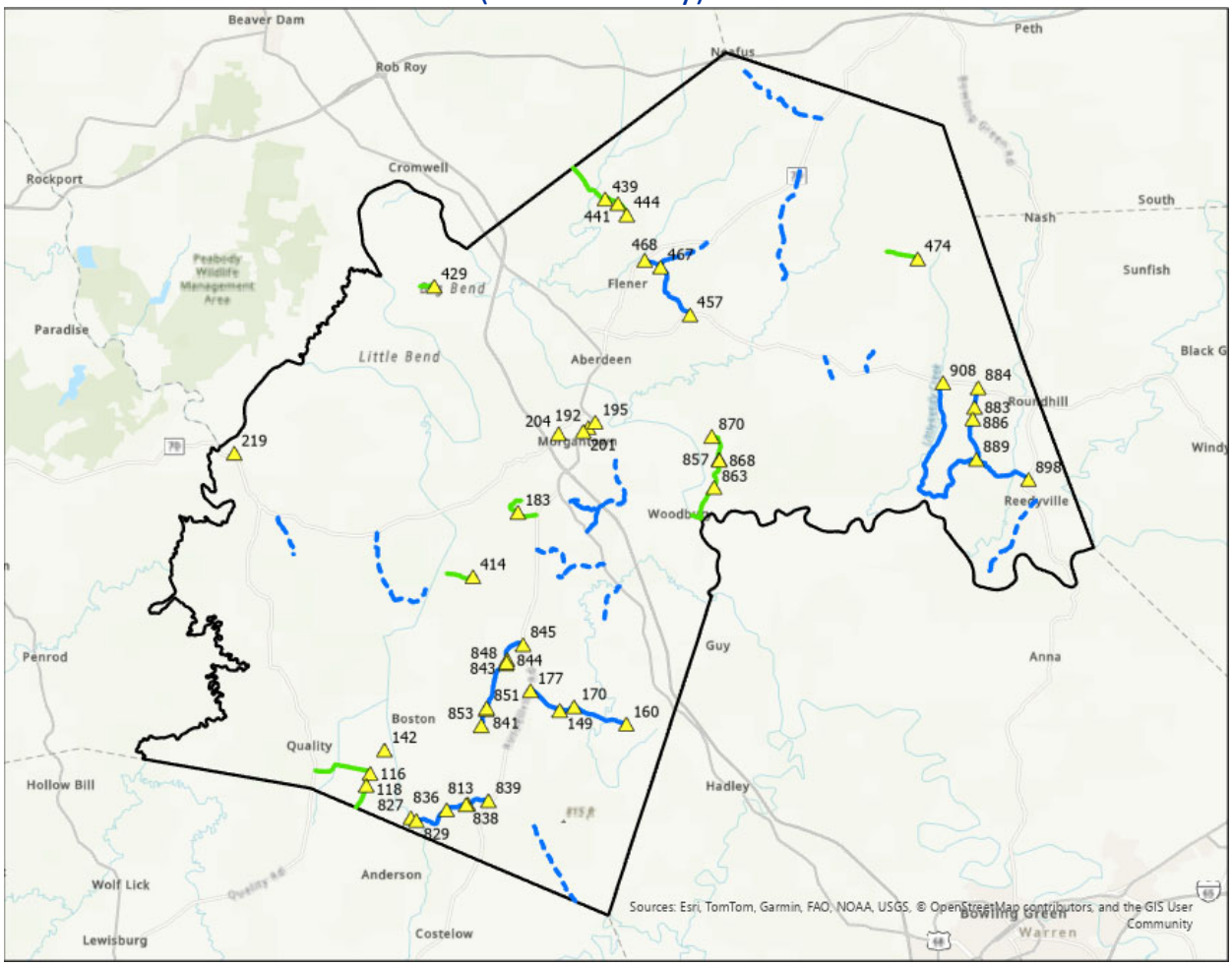


Exhibit Butler-21: Guardrail Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Comments	Recommendations
116	016-CR-1274 -000	TOY SPRINGS RD	Intersection	No	Intersection_Skew	Consider edgeline and stop bar installation on skewed approach.
118	016-CR-1274 -000	TOY SPRINGS RD	Intersection	No	Intersection_Obscured_on_Appro a	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
130	016-CR-1274 -000	TOY SPRINGS RD	Intersection	No	Intersection_Obscured_on_Appro a	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
142	016-CR-1274 -000	TOY SPRINGS RD	Intersection	No	other; Intersection	--
149	016-CR-1182 -000	DIMPLE RD	Intersection	No	Intersection_Skew	Consider edgeline and stop bar installation on skewed approach.
160	016-CR-1182 -000	DIMPLE RD	Intersection	No	other; End intersection	--
170	016-CR-1182 -000	DIMPLE RD	Intersection	No	Intersection_Obscured_on_Appro a	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
177	016-CR-1182 -000	DIMPLE RD	Intersection	No	other; End intersection	--
183	016-CR-1216 -000	HIDDEN VALLEY RD	Intersection	No	Intersection_Skew	Consider edgeline and stop bar installation on skewed approach.
414	016-CR-1220 -000	CHILDRESS RD	Intersection	No	Intersection_Obscured_on_Appro a,Intersection_Skew	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach; Correct Skew if Feasible/Consider edgeline and stop bar installation on skewed approach.
429	016-CR-1384 -000	LONNIE MOORE RD	Intersection	No	Intersection_Skew	Consider edgeline and stop bar installation on skewed approach.
439	016-CR-1362 -000	FLINT SPRINGS RD	Intersection	Yes	Intersection_Obscured_on_Appro a	Investigate Sight Distance Restriction/Clear Vegetation; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
441	016-CR-1362 -000	FLINT SPRINGS RD	Intersection	Yes	Intersection_Obscured_on_Appro a,Intersection_Skew	Investigate Sight Distance Restriction/Clear Vegetation; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach; Correct Skew if Feasible/Consider edgeline and stop bar installation on skewed approach.
444	016-CR-1362 -000	FLINT SPRINGS RD	Intersection	No	Intersection_Obscured_on_Appro a,Intersection_Skew	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach; Correct Skew if Feasible/Consider edgeline and stop bar installation on skewed approach.
457	016-CR-1106 -000	MCKENDREE CHAPEL RD	Intersection	No	other; End of roadway, no issues	--
467	016-CR-1106 -000	MCKENDREE CHAPEL RD	Intersection	No	Intersection_Obscured_on_Appro a	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
468	016-CR-1106 -000	MCKENDREE CHAPEL RD	Intersection	No	other; End of roadway, no issues	--
474	016-CR-1052 -000	TAYLOR CEMETERY RD	Intersection	No	other; End roadway, no issues	--
813	016-CR-1271 -000	CANEY FORK RD	Intersection	Yes	Intersection_Obscured_on_Appro a,other	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
827	016-CR-1271 -000	CANEY FORK RD	Intersection	Yes	Intersection_Obscured_on_Appro a	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
829	016-CR-1271 -000	CANEY FORK RD	Intersection	Yes	Intersection_Obscured_on_Appro a	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
836	016-CR-1271 -000	CANEY FORK RD	Intersection	Yes	Intersection_Obscured_on_Appro a	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
838	016-CR-1271 -000	CANEY FORK RD	Intersection	Yes	Intersection_Obscured_on_Appro a	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
839	016-CR-1271 -000	CANEY FORK RD	Intersection	No	other; End of roadway, no issues	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
841	016-CR-1206 -000	STEPHENS CHAPEL RD	Intersection	Yes	Intersection_Obscured_on_Appro a,Intersection_Skew	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
843	016-CR-1206 -000	STEPHENS CHAPEL RD	Intersection	No	Intersection_Obscured_on_Appro a	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
844	016-CR-1206 -000	STEPHENS CHAPEL RD	Intersection	No	Intersection_Obscured_on_Appro a	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
845	016-CR-1206 -000	STEPHENS CHAPEL RD	Intersection	No	other; No issue, end of road	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
848	016-CR-1206 -000	STEPHENS CHAPEL RD	Intersection	Yes	Intersection_Obscured_on_Appro a	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
851	016-CR-1206 -000	STEPHENS CHAPEL RD	Intersection	Yes	Intersection_Skew,Intersection_ Obscured_on_Approa	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
853	016-CR-1206 -000	STEPHENS CHAPEL RD	Intersection	No	Intersection_Obscured_on_Appro a	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
857	016-CR-1014 -000	LEONARD OAK CHURCH RD	Intersection	No	Intersection_Skew	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
863	016-CR-1014 -000	LEONARD OAK CHURCH RD	Intersection	No	Intersection_Skew	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs

Exhibit Butler-22: Guardrail Recommendations (1 of 2)

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Comments	Recommendations
868	016-CR-1014 -000	LEONARD OAK CHURCH RD	Intersection	No	Intersection_Skew	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
870	016-CR-1014 -000	LEONARD OAK CHURCH RD	Intersection	No	other; No issue, end of roadway	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
883	016-CR-1031 -000	REGION RD	Intersection	Yes	Intersection_Obscured_on_Appro a	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
884	016-CR-1031 -000	REGION RD	Intersection	No	Intersection_Obscured_on_Appro a	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
886	016-CR-1031 -000	REGION RD	Intersection	Yes	Intersection_Obscured_on_Appro a	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
889	016-CR-1031 -000	REGION RD	Intersection	Yes	Intersection_Obscured_on_Appro a	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
898	016-CR-1033 -000	REGION REEDYVILLE RD	Intersection	No	other; Stop sign not visible	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
908	016-CR-1026 -000	THRELKEL RD	Intersection	No	other; No issues, end roadway	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs

Exhibit Butler-22: Guardrail Recommendations (1 of 2)

Other Recommendations (Butler County)

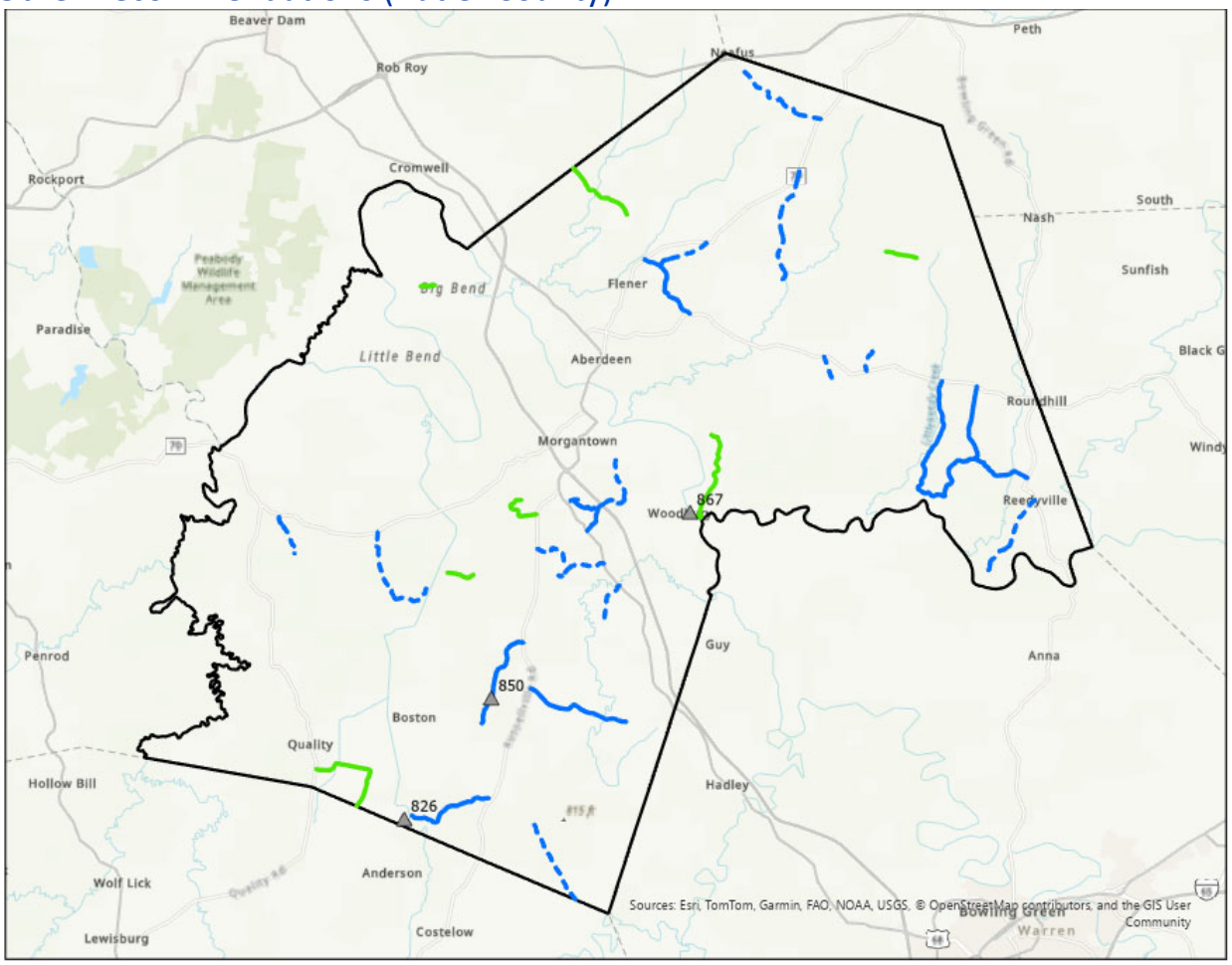


Exhibit Butler-23: Other Item Locations

Point ID	RT_UNIQUE	RD_NAME	Issue Type			Description	Recommendation
826	016-CR-1271 -000	CANEY FORK RD	Other			Hill blocking view of roadway	Install "Hill Blocks Sight Distance" Sign.
850	016-CR-1206 -000	STEPHENS CHAPEL RD	Other			Small hill blocking view	Install "Hill Blocks Sight Distance" Sign.
867	016-CR-1014 -000	LEONARD OAK CHURCH RD	Other			Roadway ends in water	Install "Roadway Ends in Water" or "Road Closed Sign."

Exhibit Butler-24: Other Item Recommendations

Signing Recommendations (Butler County)

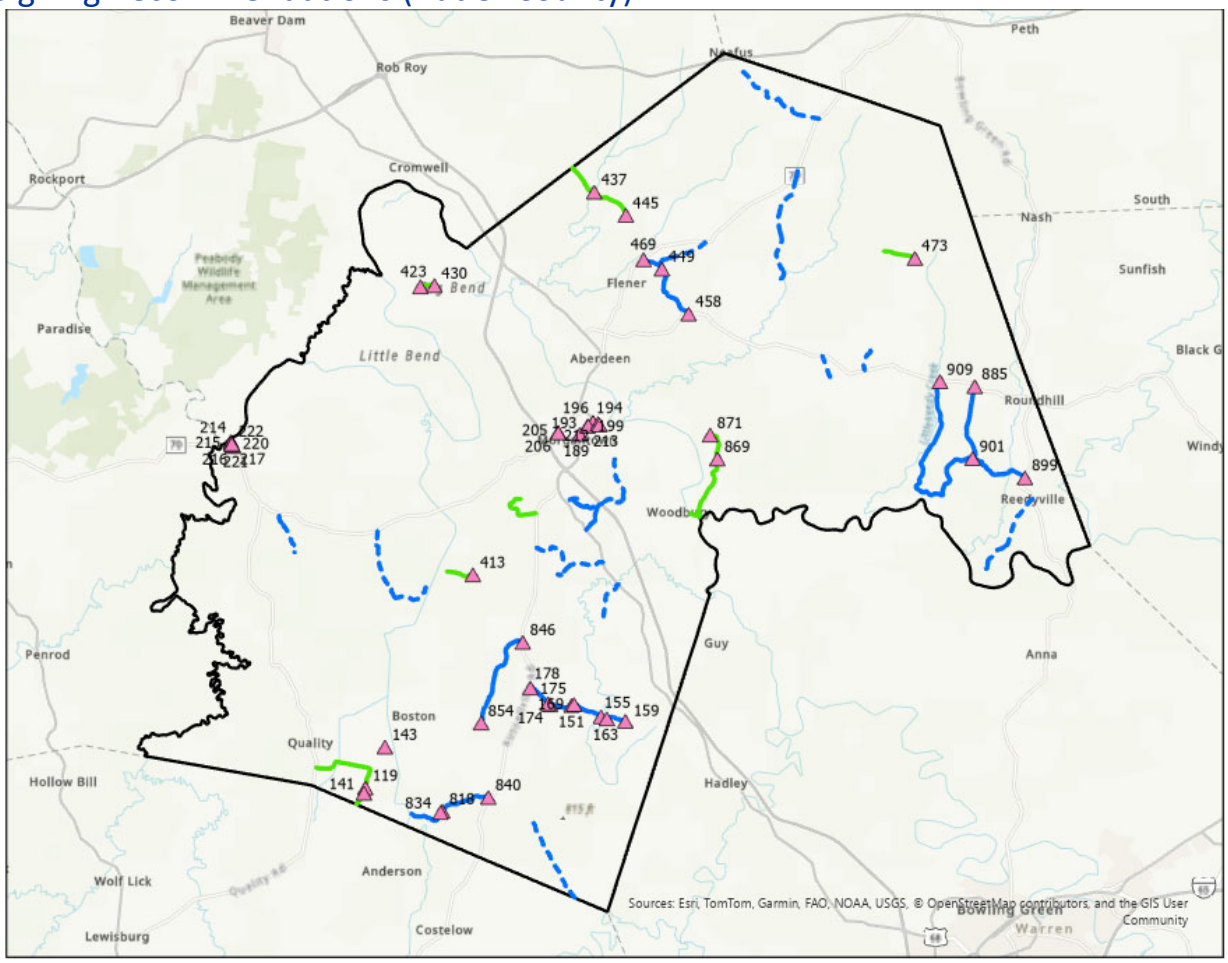


Exhibit Butler-25: Sign Locations

As part of the RSA data collection effort, existing signs were inventoried along reviewed Focus Roadways, including a condition assessment and a photo of each sign. Additionally, preliminary Advisory Speed recommendations were calculated for each focus roadway to assist in the installation of horizontal alignment (curve) signs. Signing and advisory speed information is provided in digital format at https://kyt2.uky.edu/braddSAP.

APPENDIX G: EDMONSON COUNTY SAFETY ACTION PLAN

Edmonson County Overview

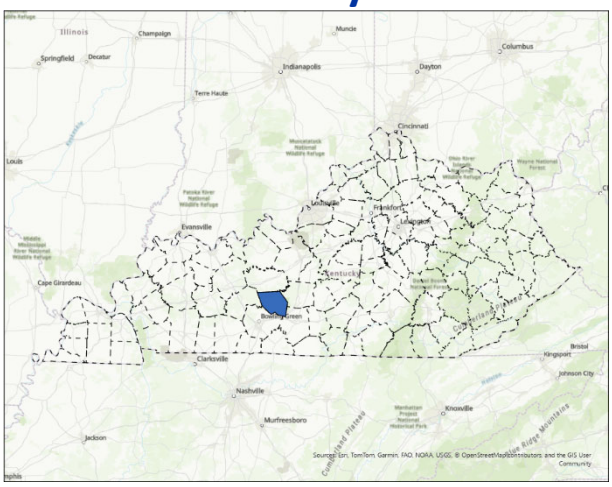


Exhibit Edmonson-1: Location Map

Key Information Table Edmonson County	
Population	12,448
Population in Persistent Poverty	22%
Underserved Community	**No**
Fatalities (All Roads)	13
Fatalities (County Roads)	1
Fatality Rate per 100,000 persons	**104.43**
County Road Mileage	246.9
State Road Mileage	159.4
Total Mileage	**406.2**

Exhibit Edmonson-2: Key Information

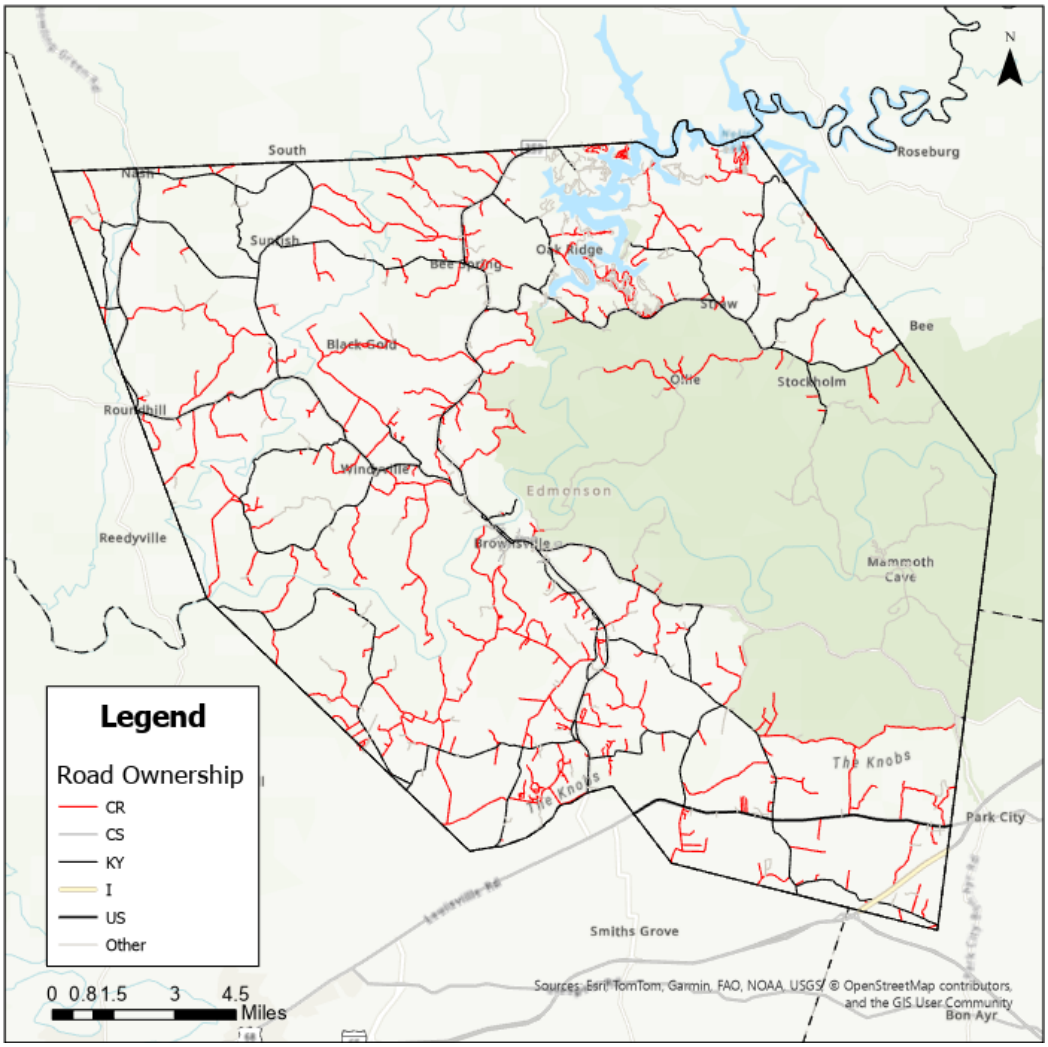


Figure Edmonson-3: Map of County Roadways

Crash Analysis

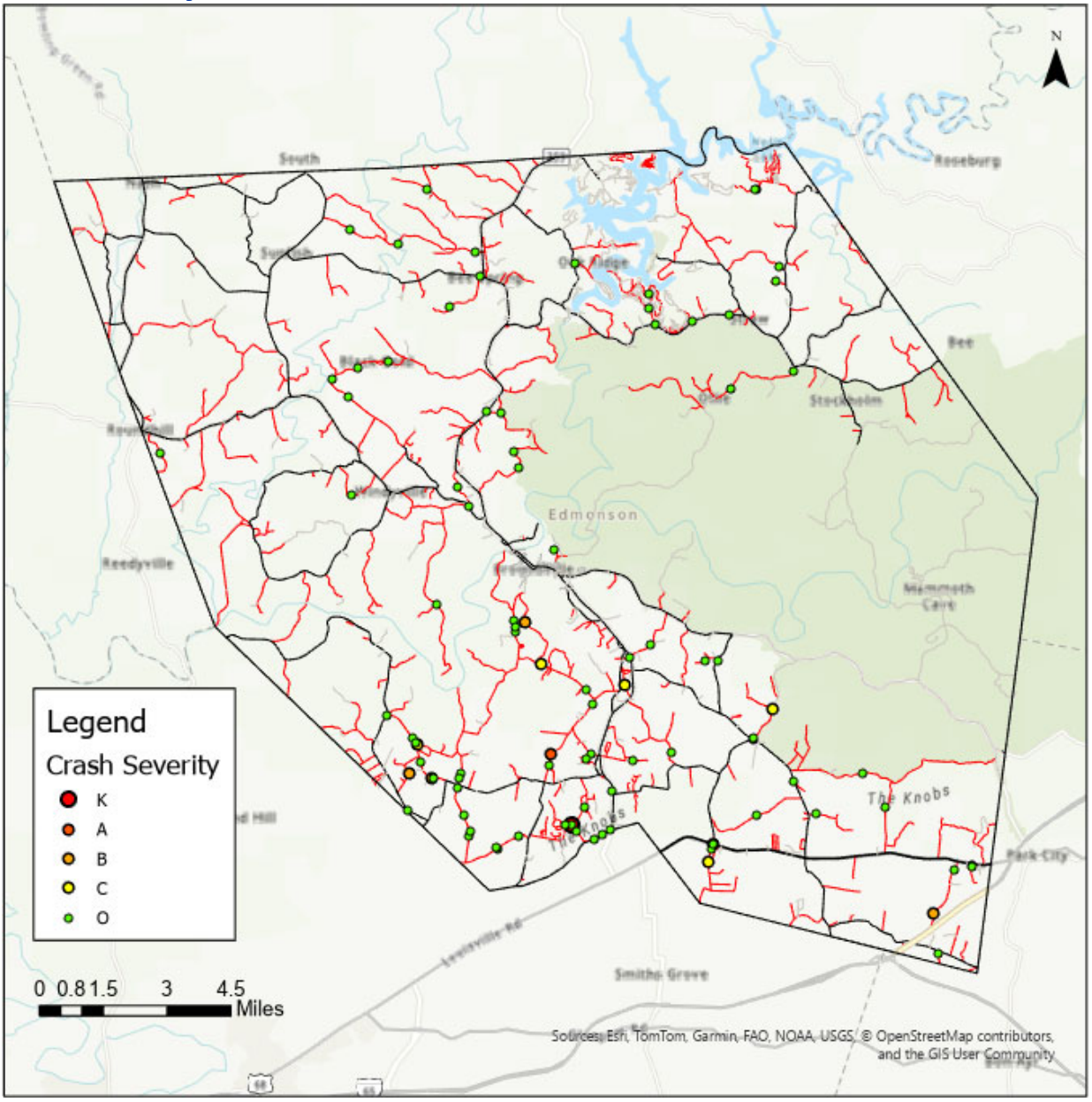
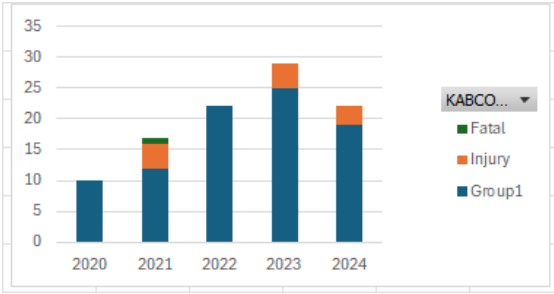


Figure Edmonson-4: Map of County Road Crashes



Year	Prop. Damage Only	Injury	Fatal	Total
2020	10	0	0	**10**
2021	12	4	1	**17**
2022	22	0	0	**22**
2023	25	4	0	**29**
2024	19	3	0	**22**

Figure Edmonson-5: Crash Distribution by Year

Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	7	1	0	**8**
BACKING	10	0	0	**10**
HEAD ON	7	1	0	**8**
OPPOSING LEFT TURN	1	0	0	**1**
REAR END	5	1	0	**6**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	18	2	0	**20**
SIDESWIPE-SAME DIR	5	1	0	**6**
SINGLE VEHICLE	35	5	1	**41**

Exhibit Edmonson-6: Crash Frequency and Severity by Manner of Collision

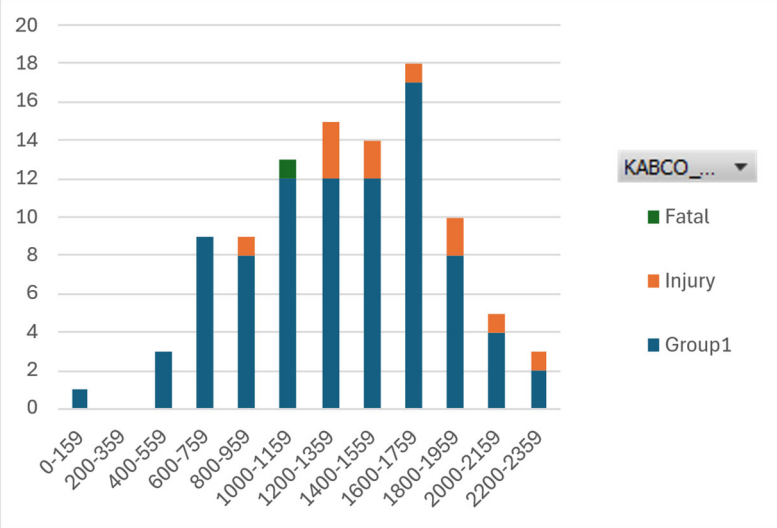


Exhibit Edmonson-7: Crashes and Severity by Time of Day

Focus Roadways

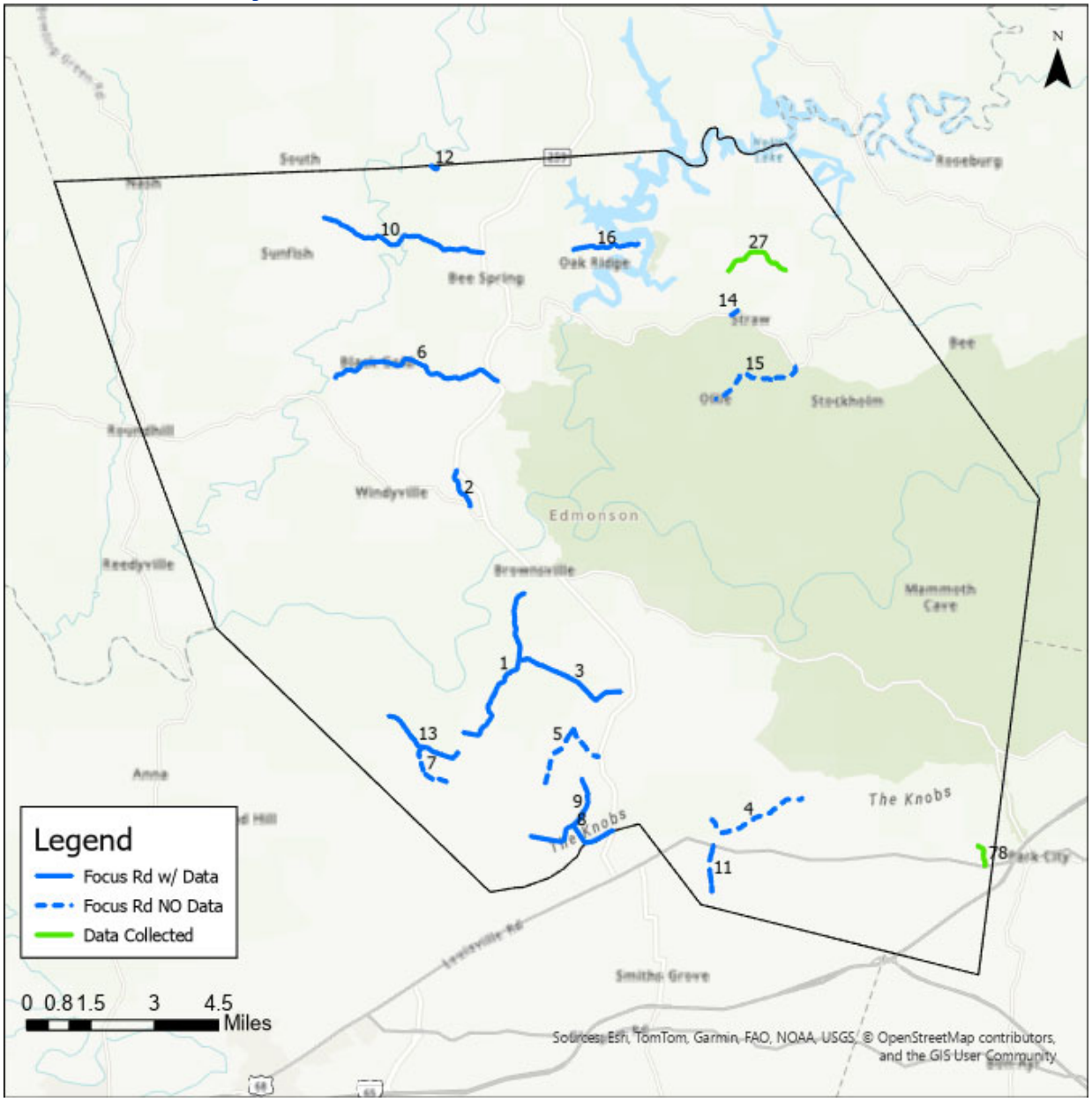


Exhibit Edmonson-8: Focus Roads

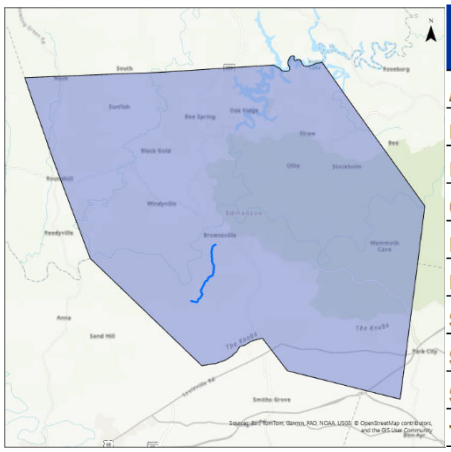
RT_UNIQUE	Length	County	Road Name	Injury Crash	Fatal Crash	PDO	Crash Score	Use Score	Rank	Focus Rd	Data
Edmonson											
031-CR-1205 -000	4.29	Edmonson	OAK HILL RD	2	0	4	2.68	1.30	1	1	1
031-CR-1300 -000	1.02	Edmonson	SANDY FLAT RD	0	2	3	1.67	3.26	2	1	1
031-CR-1143 -000	2.77	Edmonson	MOHAWK RD	1	1	1	1.99	1.49	3	1	1
031-CR-1130 -000	2.56	Edmonson	KNOBS RD	1	1	1	1.99	0.66	4	1	0
031-CR-1176 -000	2.42	Edmonson	SULPHUR RD	1	0	2	1.34	1.73	5	1	0
031-CR-1308 -000	4.42	Edmonson	BLACKGOLD RD	0	2	3	1.67	0.96	6	1	1
031-CR-1221 -000	1.25	Edmonson	PINE GROVE CHURCH RD	1	0	1	1.27	1.36	7	1	0
031-CR-1137 -000	2.45	Edmonson	NOAH BLEDSOE RD	0	0	1	0.07	3.33	8	1	1
031-CR-1139 -000	1.26	Edmonson	DENHAM RD	0	0	2	0.14	2.83	9	1	1
031-CR-1345 -000	4.20	Edmonson	CEDAR GROVE CHURCH RD	1	0	1	1.27	0.45	10	1	1
031-CR-1129 -000	1.66	Edmonson	UPPER SMITH GROVE RD	0	0	4	0.29	2.38	11	1	0
031-CR-1324 -000	0.91	Edmonson	GLEN RUSSELL RD	1	0	0	1.20	0.26	12	1	0
031-CR-1222 -000	2.08	Edmonson	HENRY MEREDITH RD	0	1	2	0.87	0.82	13	1	1
031-CR-1017 -000	0.28	Edmonson	ORVILLE CARROLL RD	0	0	1	0.07	2.36	14	1	0
031-CR-1005 -000	2.39	Edmonson	OLLIE RD	0	0	1	0.07	2.31	15	1	0
031-CR-1045 -000	1.64	Edmonson	NOAH STEVENSON RD	0	1	0	0.72	0.82	16	1	1
031-CR-1013 -000	1.78	Edmonson	BROOKS RD	0	0	1	0.07	1.16	27	0	1
031-CR-1117 -000	0.58	Edmonson	PARK MAMMOTH RD	0	0	1	0.07	0.30	78	0	1
031-CR-1227 -000	0.94	Edmonson	WILLIAM SIMMONS RD	0	0	0	0.00	0.41	88	0	1

Exhibit Edmonson-9: List of Focus Roadways

Recommended Improvements (Top 5 Roads)

OAK HILL RD(031-CR-1205 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	0	0	0	**0**
HEAD ON	1	0	0	**1**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	2	0	0	**2**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	1	0	0	**1**
Total	**4**	**0**	**0**	**4**

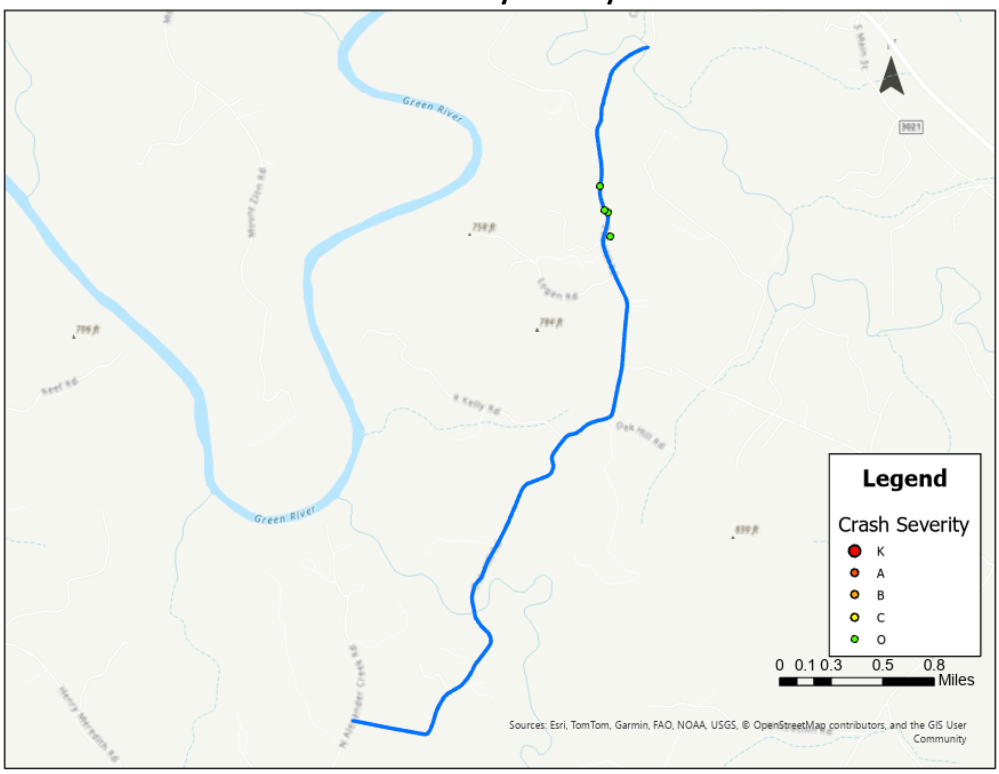
General Roadway Conditions

Roadway Section Data Not Collected

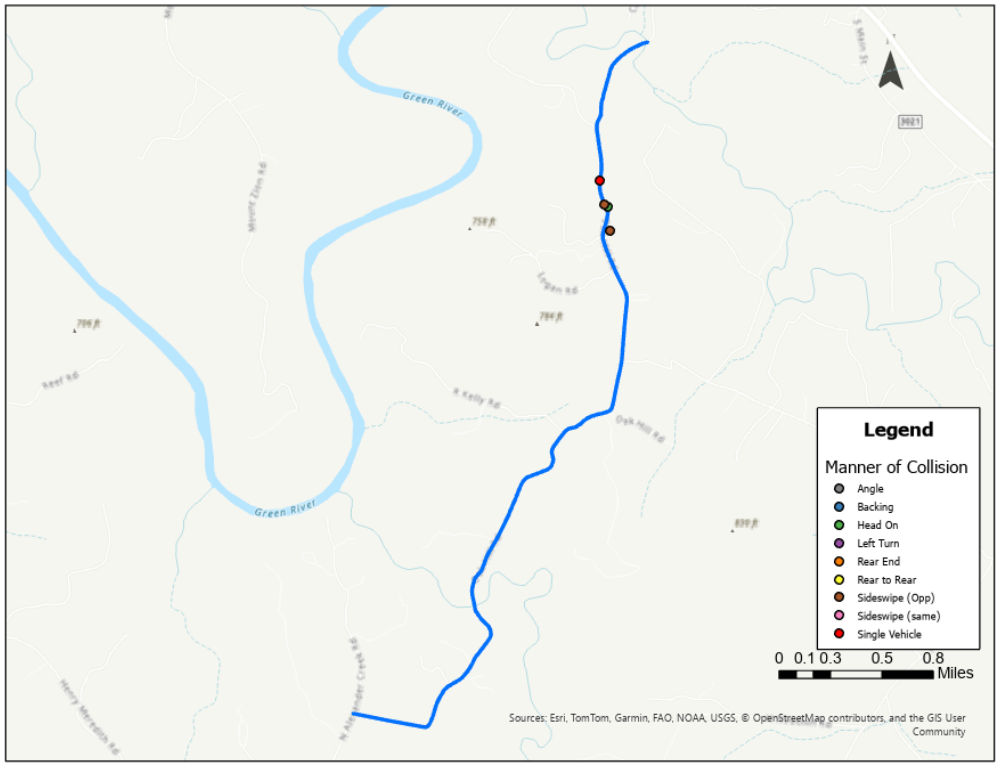
Roadway Typical Section



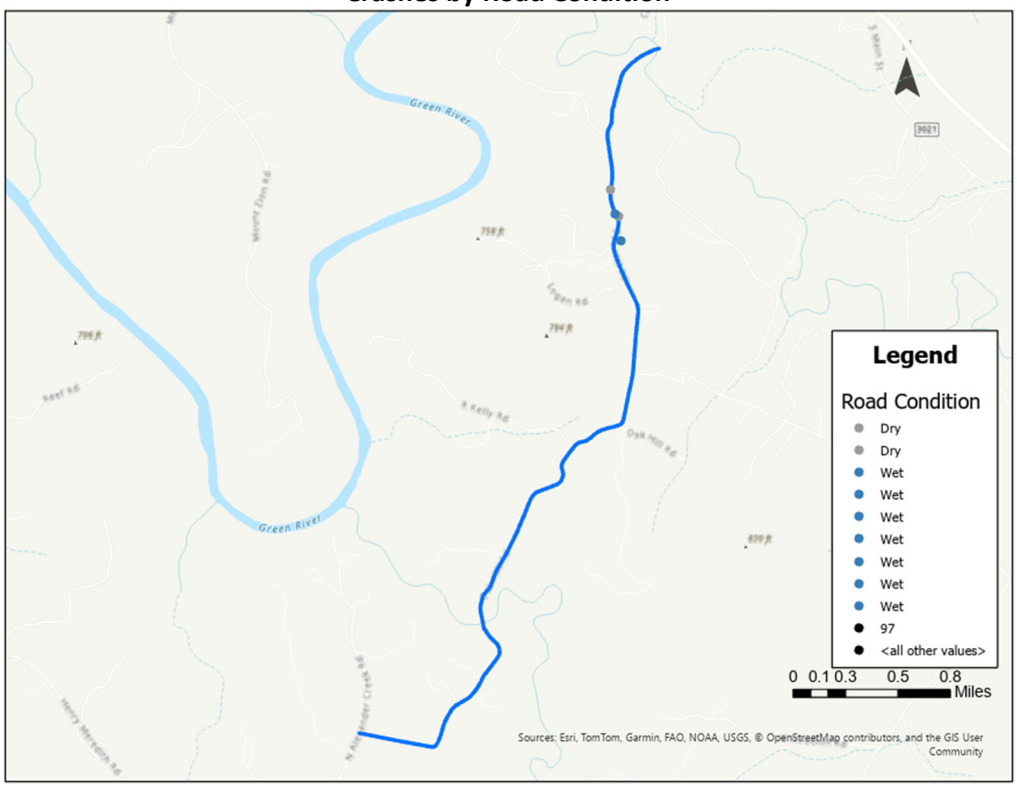
Crashes by Severity



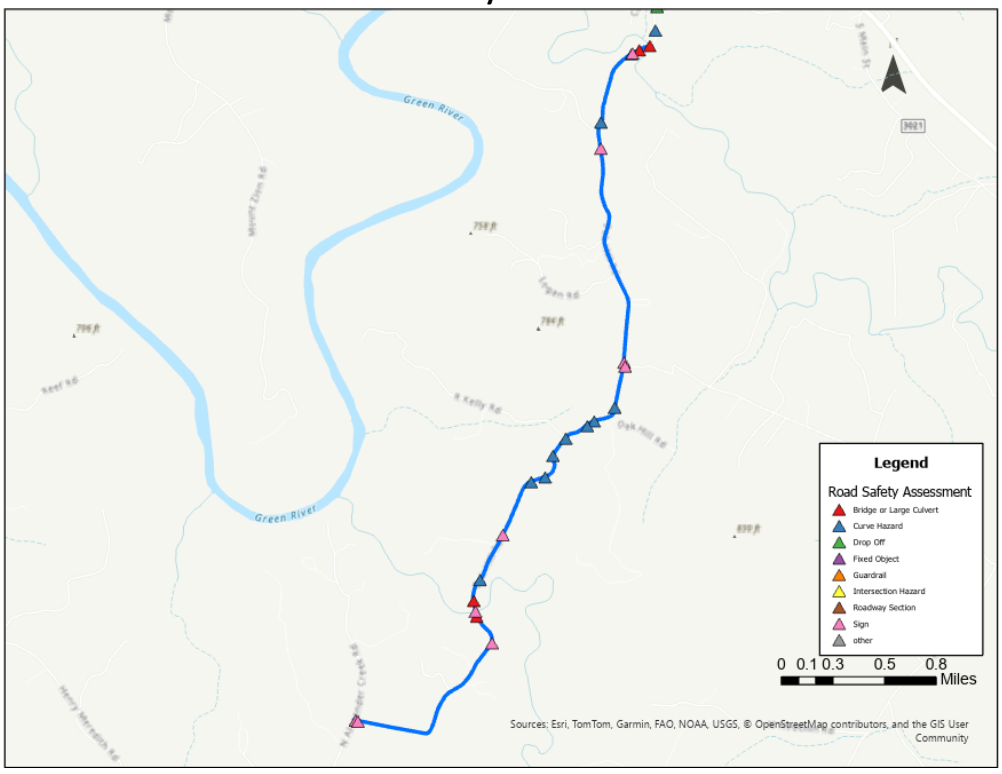
Crashes by Manner of Collision



Crashes by Road Condition



Road Safety Assessment

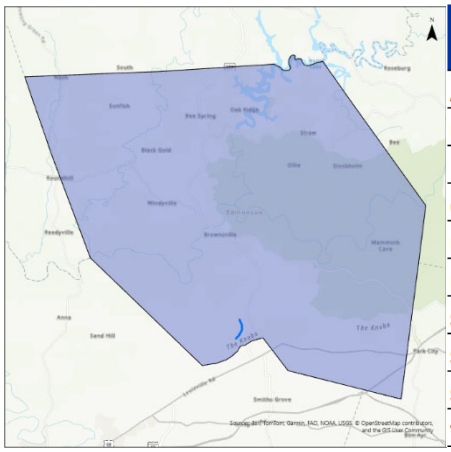


General Recommendations

Point ID	RT_UNIQUE	Road Name	Issue Type	Drop Off Offset	Recommendation	0
5447	031-CR-1205 -000	OAK HILL RD	Drop Off	1-3	Edmonson	Install Type 2 Object Marker
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Bridge Width**	**OM Present**	**Recommendation**
5450	031-CR-1205 -000	OAK HILL RD	Bridge or Large Culvert	15	0	Evaluate the need for guardrail on missing approaches. Type 3 Object Markers may be installed or serve as a Temporary measure.
5460	031-CR-1205 -000	OAK HILL RD	Bridge or Large Culvert	15	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
5465	031-CR-1205 -000	OAK HILL RD	Bridge or Large Culvert	15	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
5471	031-CR-1205 -000	OAK HILL RD	Bridge or Large Culvert	15	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Comments**	**Recommendation**
5448	031-CR-1205 -000	OAK HILL RD	Curve Hazard	Yes	Curve_Obscured	Install advance curve signing and chevrons
5449	031-CR-1205 -000	OAK HILL RD	Curve Hazard	Yes	vegetation,Curve_Obscured	Install advance curve signing and chevrons
5452	031-CR-1205 -000	OAK HILL RD	Curve Hazard	Yes	vegetation,Curve_Obscured	Install advance curve signing and chevrons
5453	031-CR-1205 -000	OAK HILL RD	Curve Hazard	No	Curve_Obscured,vegetation	Install advance curve signing and chevrons
5454	031-CR-1205 -000	OAK HILL RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons
5455	031-CR-1205 -000	OAK HILL RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons
5456	031-CR-1205 -000	OAK HILL RD	Curve Hazard	Yes	Curve_Obscured	Install advance curve signing and chevrons
5457	031-CR-1205 -000	OAK HILL RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5459	031-CR-1205 -000	OAK HILL RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5466	031-CR-1205 -000	OAK HILL RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons
5467	031-CR-1205 -000	OAK HILL RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons
5468	031-CR-1205 -000	OAK HILL RD	Curve Hazard	Yes	vegetation,Curve_Obscured	Install advance curve signing and chevrons
5472	031-CR-1205 -000	OAK HILL RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons

DENHAM RD(031-CR-1139 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	1	0	0	**1**
BACKING	0	0	0	**0**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	0	0	0	**0**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	0	0	1	**1**
Total	**1**	**0**	**1**	**2**

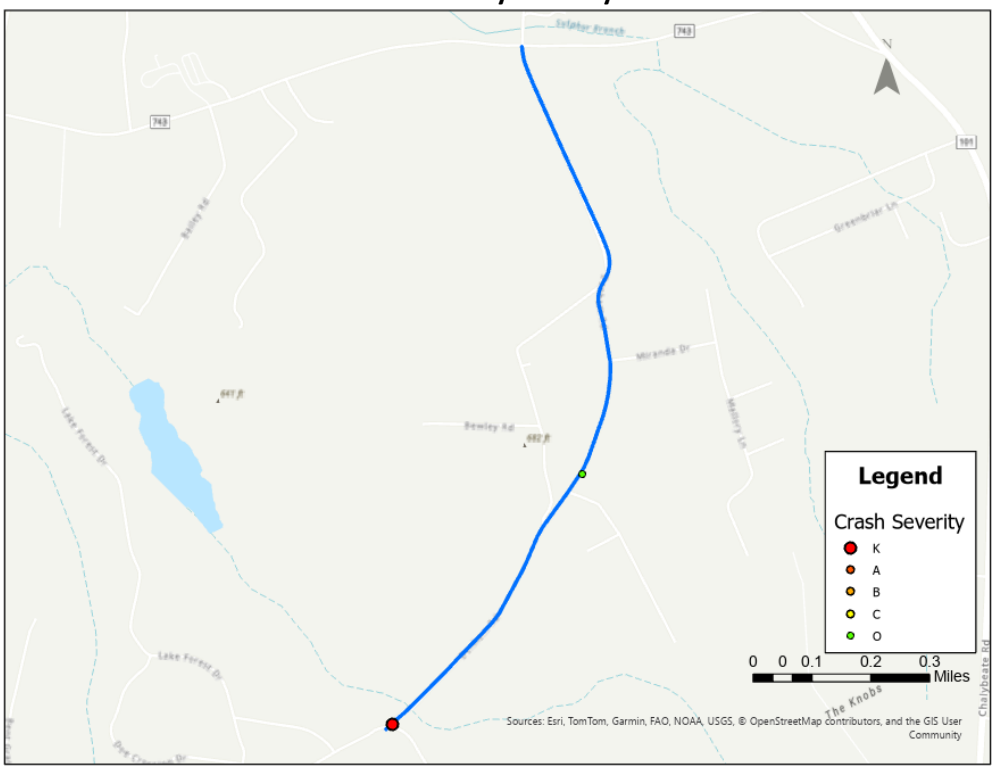
General Roadway Conditions

Roadway Section Data Not Collected

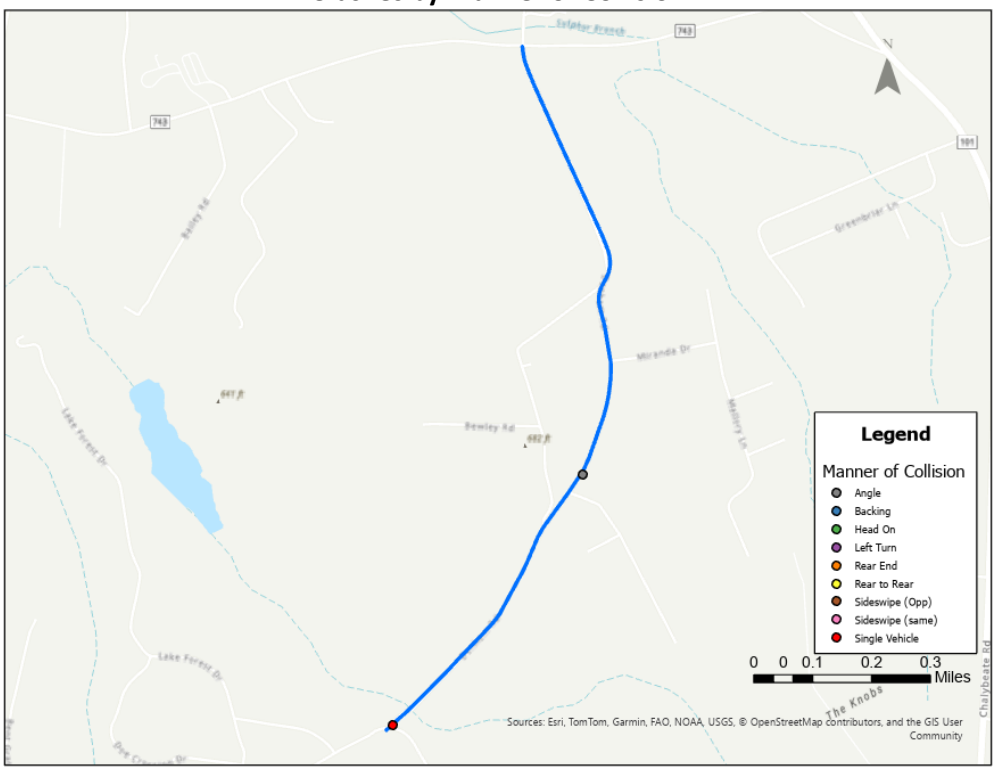
Roadway Typical Section



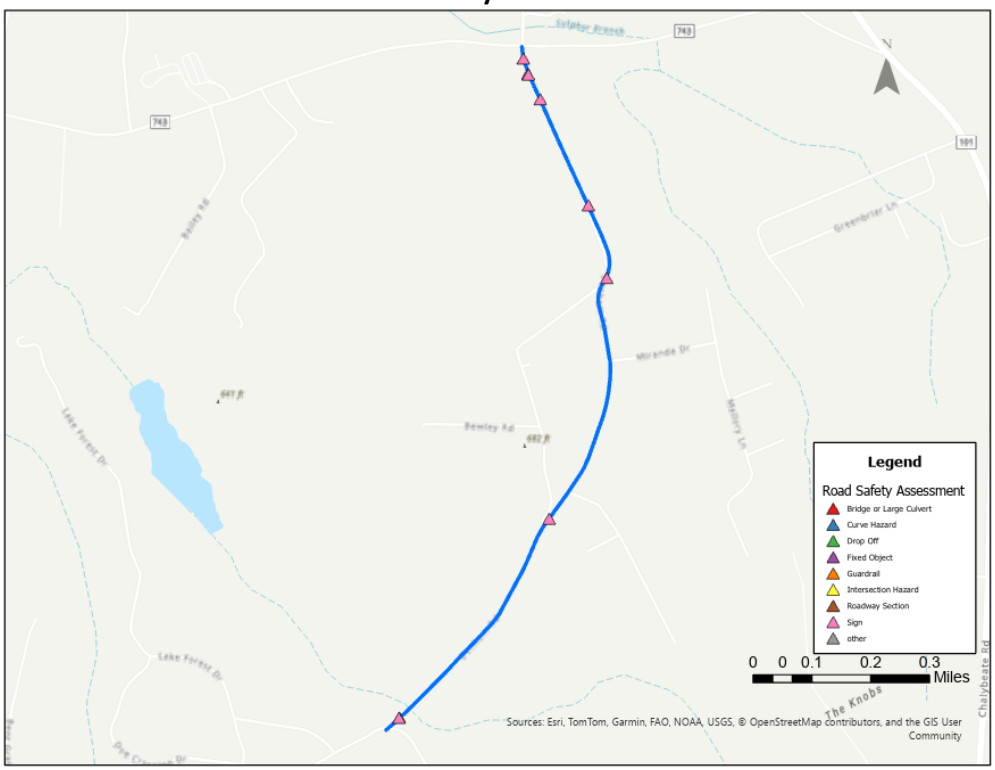
Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment

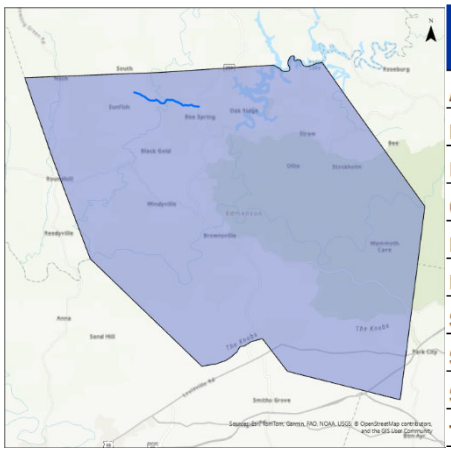


General Recommendations

No issues were identified on this roadway.

CEDAR GROVE CHURCH RD(031-CR-1345 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	0	0	0	**0**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	1	0	0	**1**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	0	0	0	**0**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	2	0	0	**2**
Total	**3**	**0**	**0**	**3**

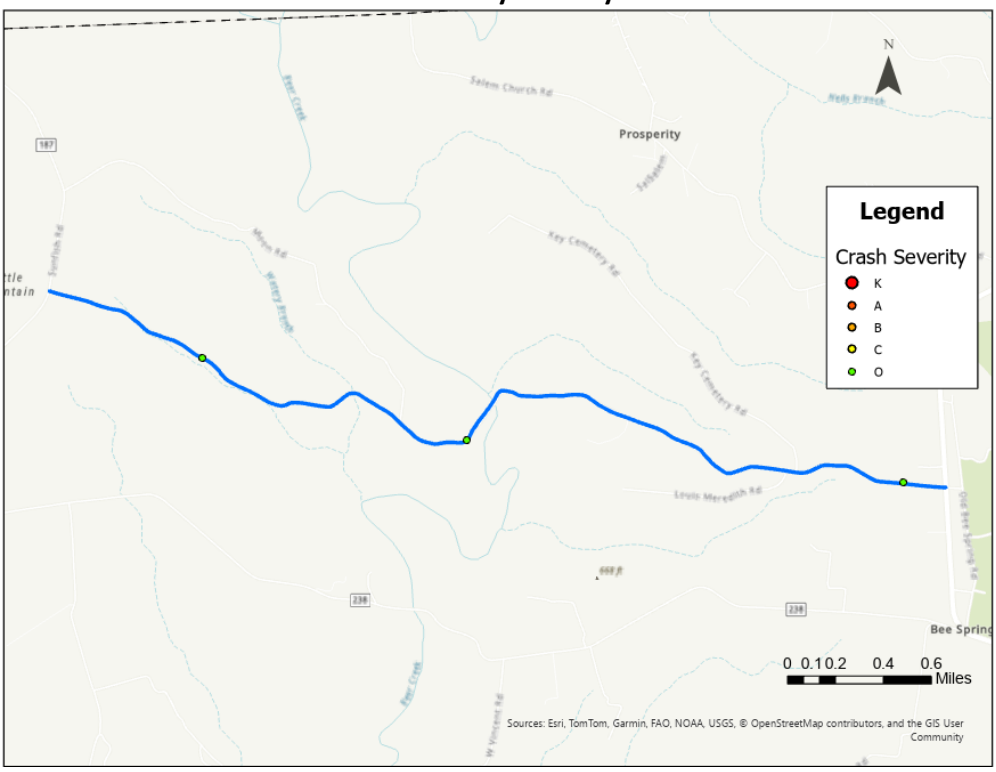
General Roadway Conditions

Roadway Section Data Not Collected

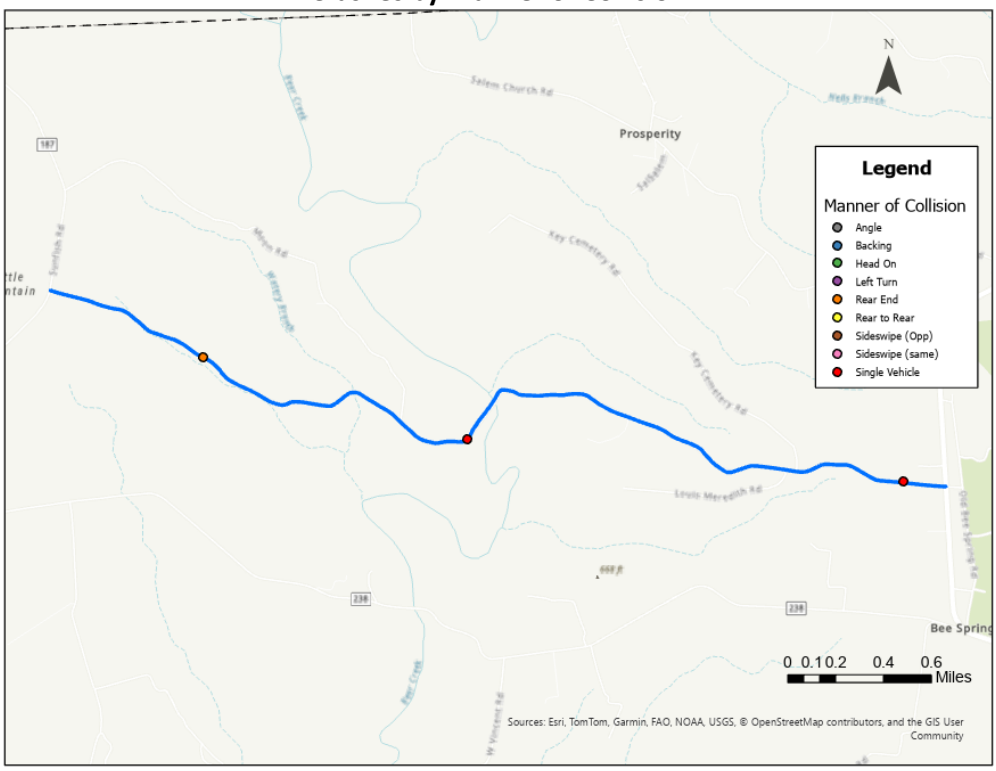
Roadway Typical Section



Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment

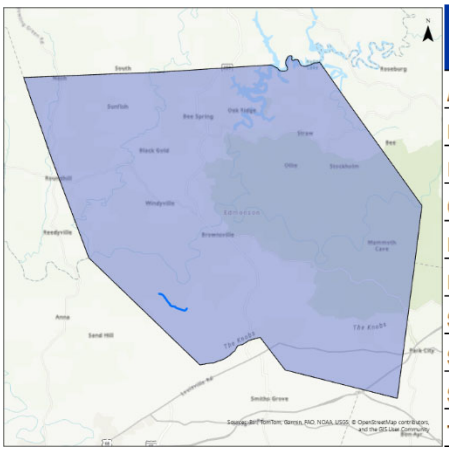


General Recommendations

Point ID	RT_UNIQUE	Road Name	Issue Type	Drop Off Offset	Recommendation	0
5389	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Drop Off	3-5	Edmonson	Evaluate roadway width, curvature and grade at drop off compared to other locations in county to evaluate need for guardrail
5394	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Drop Off	3-5	Edmonson	Evaluate roadway width, curvature and grade at drop off compared to other locations in county to evaluate need for guardrail
5398	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Drop Off	0-1	Edmonson	Evaluate roadway width, curvature and grade at drop off compared to other locations in county to evaluate need for guardrail
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Bridge Width**	**OM Present**	**Recommendation**
5382	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Bridge or Large Culvert	15	0	Evaluate the need for guardrail on missing approaches. Type 3 Object Markers may be installed or serve as a Temporary measure.
5392	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Bridge or Large Culvert	15	0	Evaluate the need for guardrail on missing approaches. Type 3 Object Markers may be installed or serve as a Temporary measure.
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Comments**	**Recommendation**
5377	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Curve Hazard	Yes	Curve_Obscured	Install advance curve signing and chevrons
5378	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5379	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5380	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Curve Hazard	Yes	Curve_Obscured	Install advance curve signing and chevrons
5383	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons
5390	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons
5391	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Curve Hazard	Yes	vegetation	Install advance curve signing and chevrons
5395	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Curve Hazard	Yes	Curve_Obscured	Install advance curve signing and chevrons
5396	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5397	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5399	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Curve Hazard	Yes	vegetation,Curve_Obscured	Install advance curve signing and chevrons

HENRY MEREDITH RD(031-CR-1222 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	0	0	0	**0**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	0	0	0	**0**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	3	1	0	**4**
Total	**3**	**1**	**0**	**4**

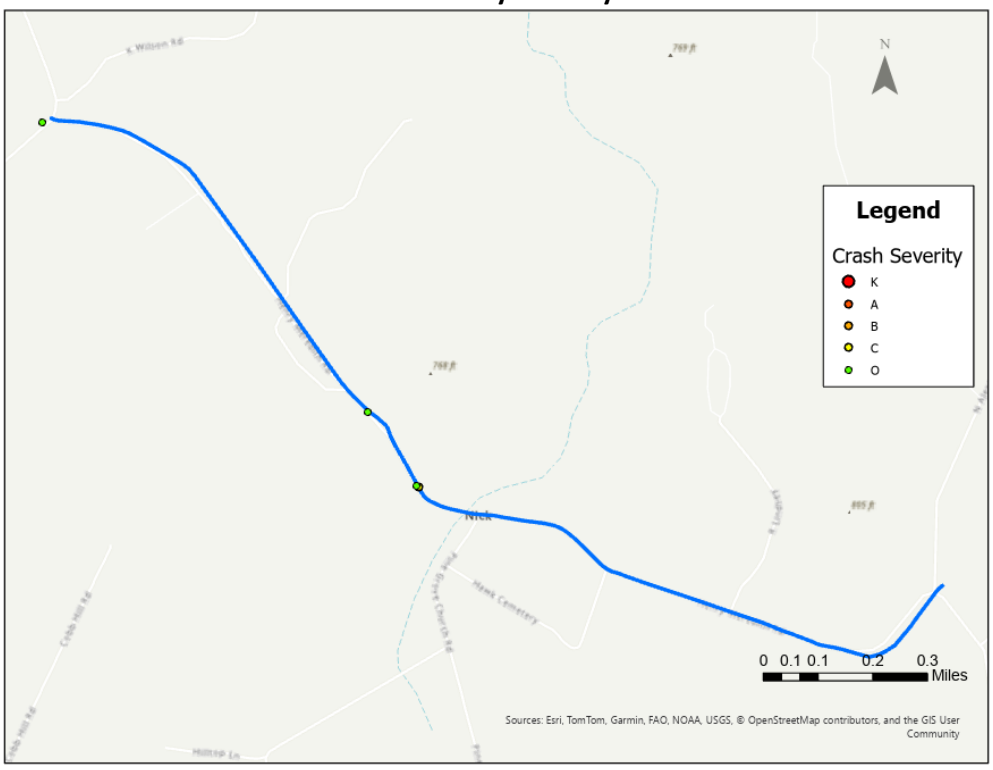
General Roadway Conditions

Roadway Section Information Not Collected

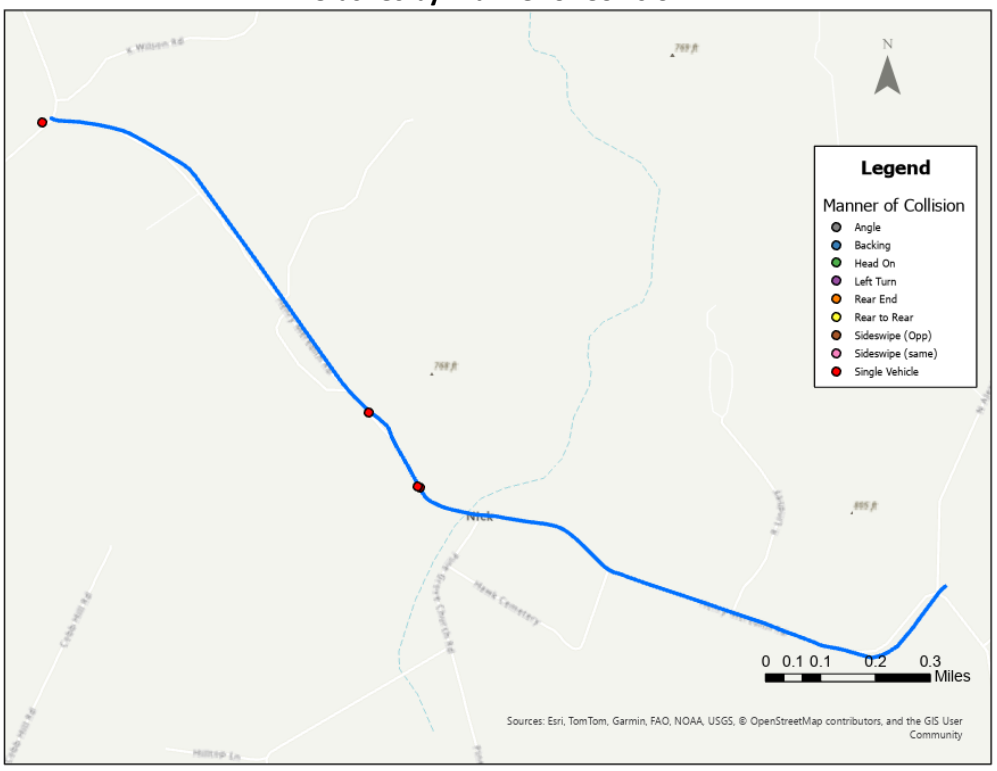
Roadway Typical Section



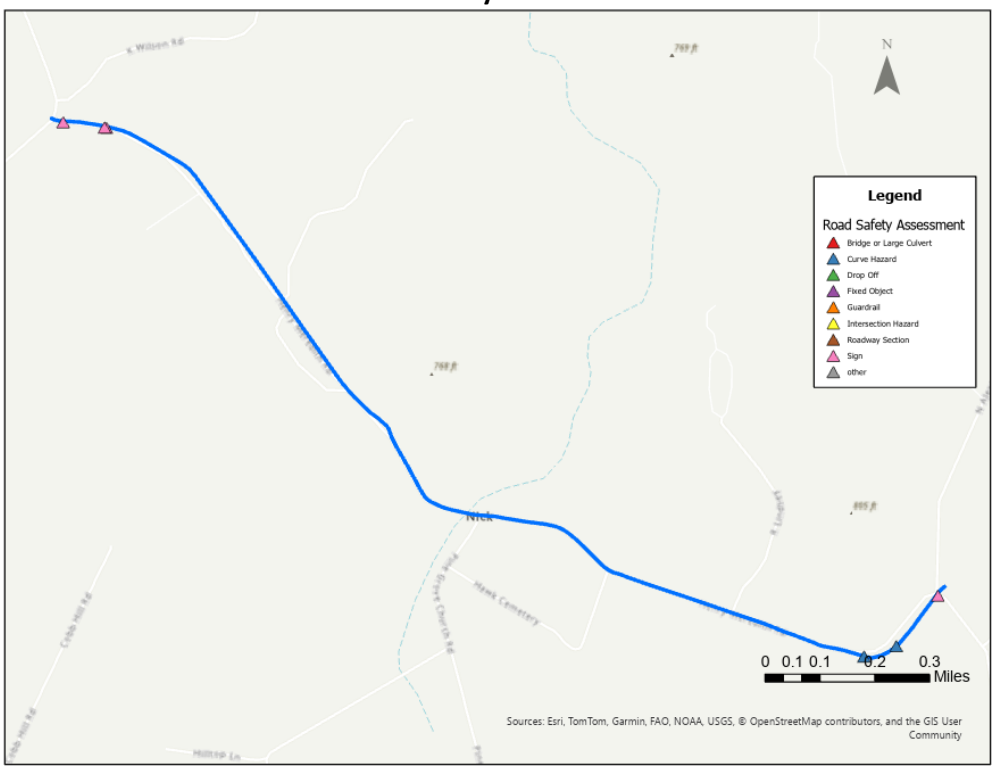
Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment

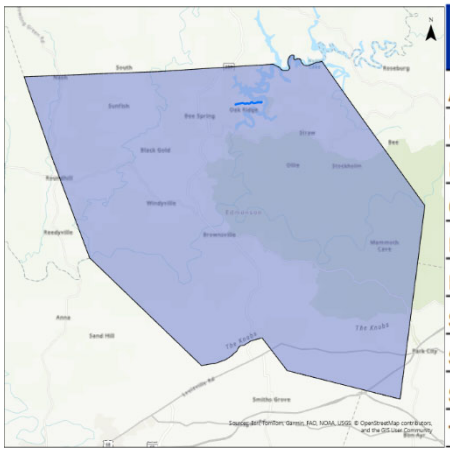


General Recommendations

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Comments	Recommendation
5828	031-CR-1222 -000	HENRY MEREDITH RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons
5832	031-CR-1222 -000	HENRY MEREDITH RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons

NOAH STEVENSON RD(031-CR-1045 -000)

Road Location Map and Crash History

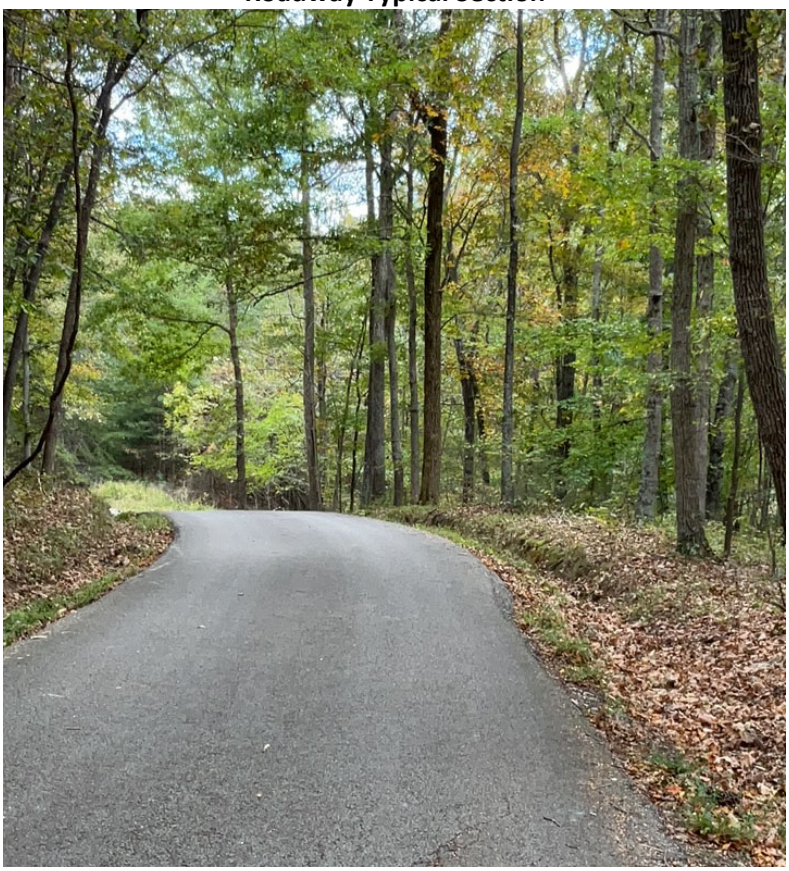


Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	0	0	0	**0**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	0	0	0	**0**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	0	0	0	**0**
Total	**0**	**0**	**0**	**0**

General Roadway Conditions

Roadway Section Information Not Collected

Roadway Typical Section



Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment



General Recommendations

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Comments	Recommendation
5401	031-CR-1045 -000	NOAH STEVENSON RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5402	031-CR-1045 -000	NOAH STEVENSON RD	Curve Hazard	Yes	Curve_Obscured	Install advance curve signing and chevrons
5403	031-CR-1045 -000	NOAH STEVENSON RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5404	031-CR-1045 -000	NOAH STEVENSON RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons

Other Roadways

General Roadway Conditions and Recommendations (Edmonson County)

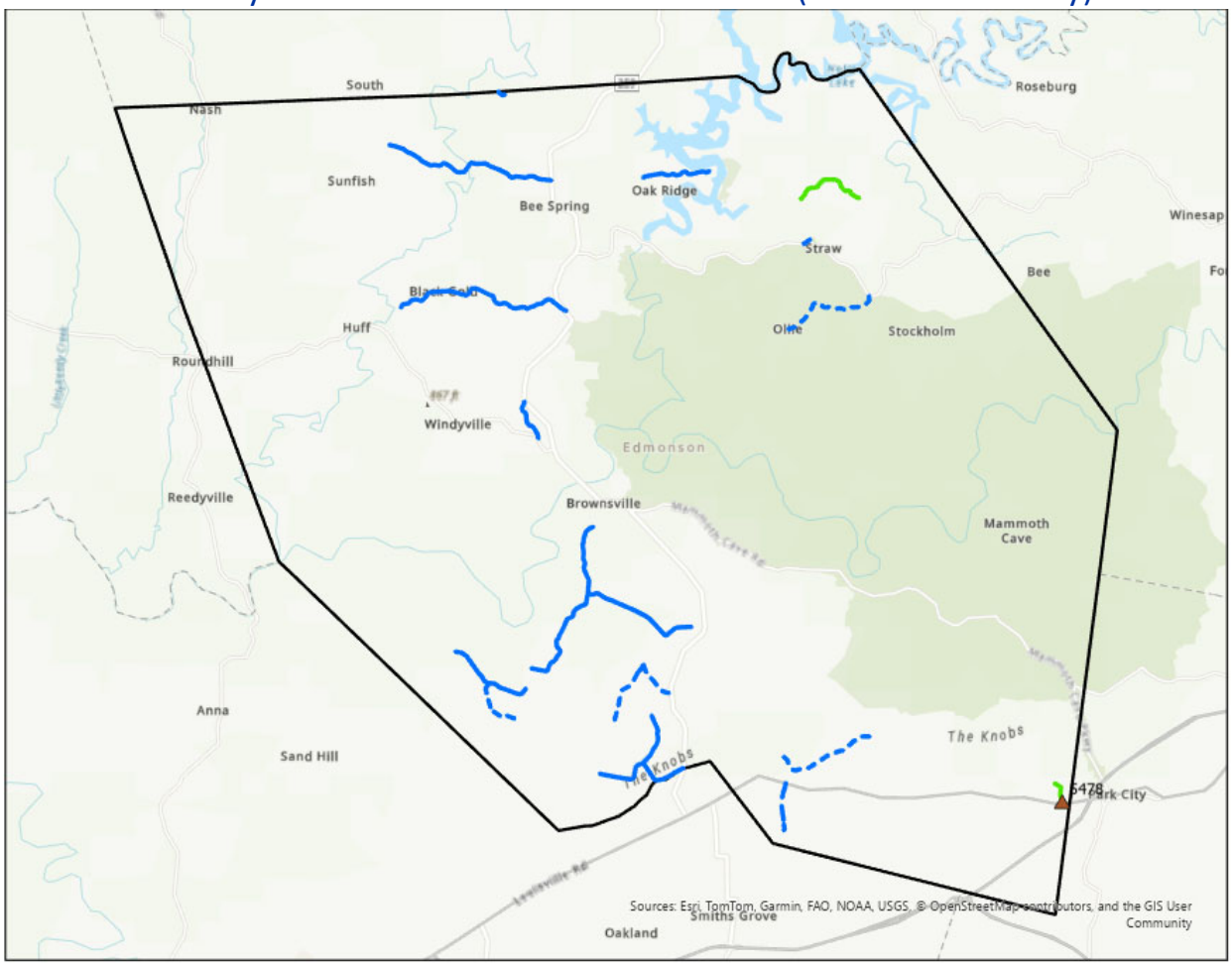


Exhibit Edmonson-10: General Roadway Conditions

Point ID	RT_UNIQUE	Road Name	Pvmt Width (ft	Pavement Conditi	Roadside Hazard Rating	Shoulder Improve	Additional Comments	Improve Should	Edgeline	Curve Signin	Other Recommendations
5478	031-CR-1117 -000	PARK MAMMOTH RD	20	4	1	0-20	Road is in great shape, plenty of room for two cars			✓	Consider Edgeline and Centerline

Exhibit Edmonson-11: General Roadway Recommendations

Bridge / Culvert Recommendations (Edmonson County)

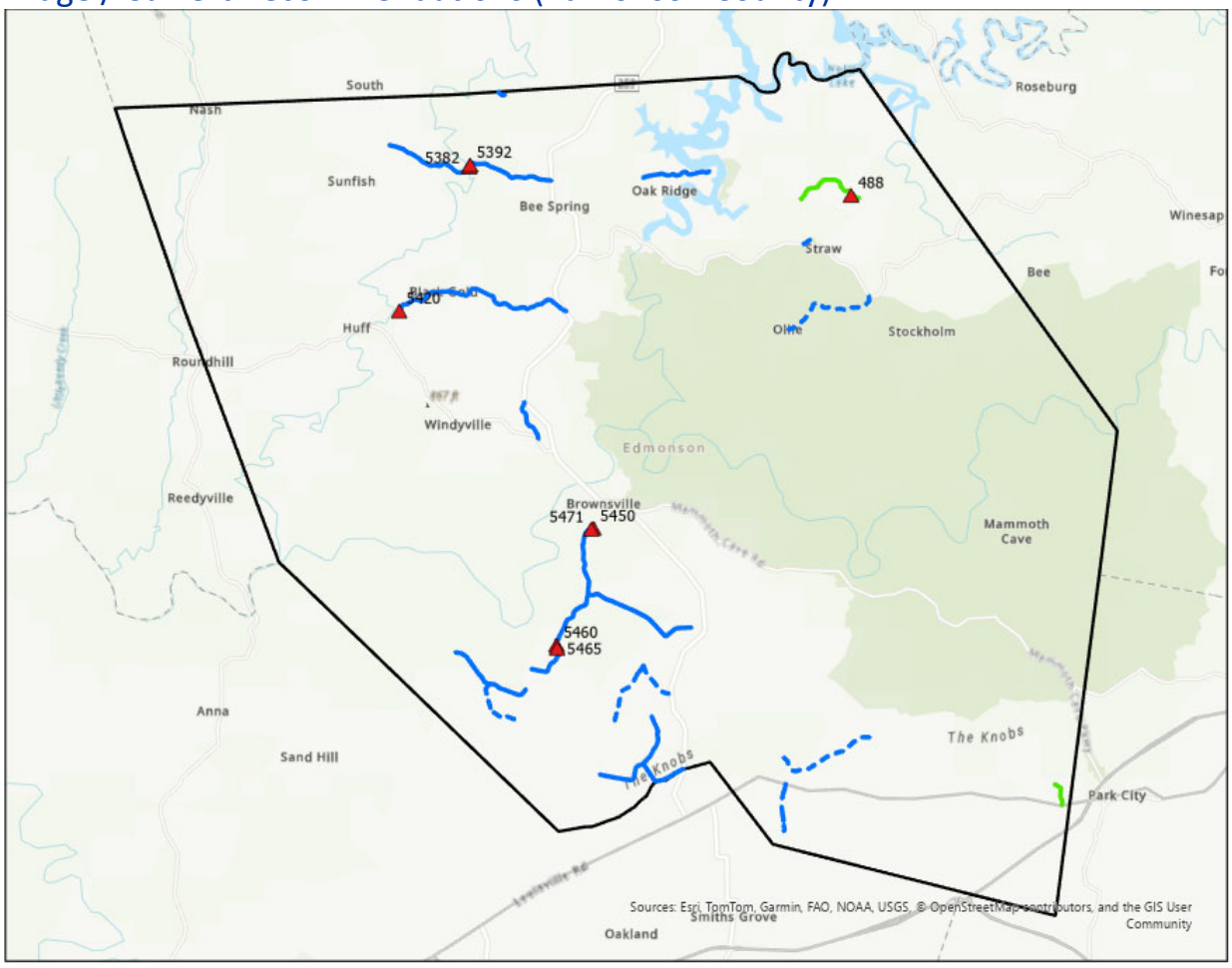


Exhibit Edmonson-12: Bridge / Culvert Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Bridge Width	Guardrail Present	OM Present	Recommendation
488	031-CR-1013 -000	BROOKS RD	Bridge or Large Culvert	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure; Consider Bridge Rehabilitation measures to improve overall condition.
5382	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Bridge or Large Culvert	15	1	0	Evaluate the need for guardrail on missing approaches. Type 3 Object Markers may be installed or serve as a Temporary measure.
5392	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Bridge or Large Culvert	15	1	0	Evaluate the need for guardrail on missing approaches. Type 3 Object Markers may be installed or serve as a Temporary measure.
5420	031-CR-1308 -000	BLACKGOLD RD	Bridge or Large Culvert	15	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5450	031-CR-1205 -000	OAK HILL RD	Bridge or Large Culvert	15	2	0	Evaluate the need for guardrail on missing approaches. Type 3 Object Markers may be installed or serve as a Temporary measure.
5460	031-CR-1205 -000	OAK HILL RD	Bridge or Large Culvert	15	4	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
5465	031-CR-1205 -000	OAK HILL RD	Bridge or Large Culvert	15	4	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
5471	031-CR-1205 -000	OAK HILL RD	Bridge or Large Culvert	15	4	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.

Exhibit Edmonson-13: Bridge / Culvert Recommendations

Curve Recommendations (Edmonson County)

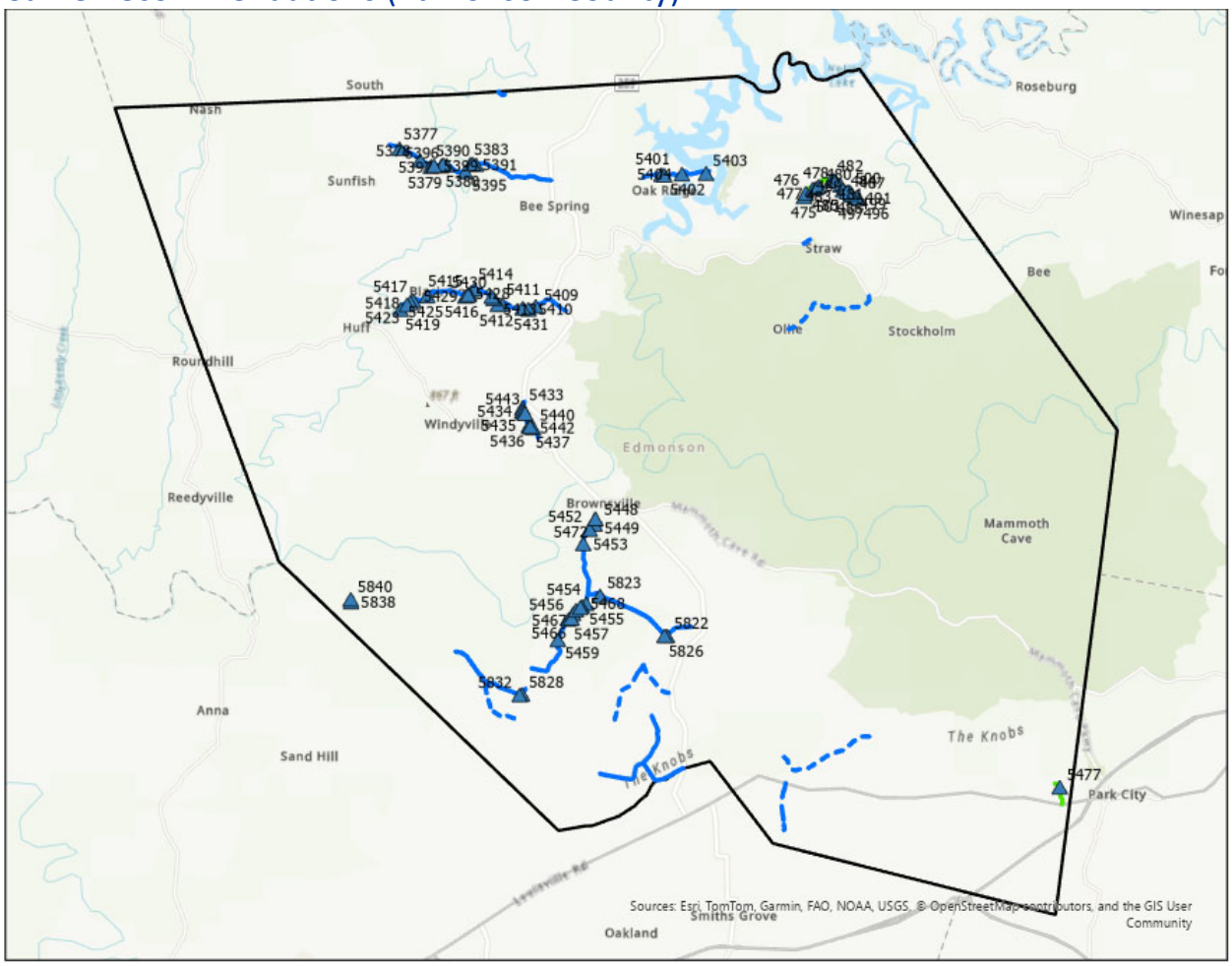


Exhibit Edmonson-14: Focus Road Curves

See Attachment for Curve Recommendations in Edmonson County

Point ID	RT_UNIQUE	Road Name	Issue Type	Comments	Vegetation	Recommendation
475	031-CR-1013 -000	BROOKS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
476	031-CR-1013 -000	BROOKS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
477	031-CR-1013 -000	BROOKS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
478	031-CR-1013 -000	BROOKS RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
480	031-CR-1013 -000	BROOKS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
481	031-CR-1013 -000	BROOKS RD	Curve Hazard	Curve_Obscured,Intersection_in_Curve	No	Install advance curve signing and chevrons
482	031-CR-1013 -000	BROOKS RD	Curve Hazard	vegetation,Curve_Obscured	Yes	Install advance curve signing and chevrons
483	031-CR-1013 -000	BROOKS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
484	031-CR-1013 -000	BROOKS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
485	031-CR-1013 -000	BROOKS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
486	031-CR-1013 -000	BROOKS RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
487	031-CR-1013 -000	BROOKS RD	Curve Hazard	Curve_Obscured,other	No	Install advance curve signing and chevrons
489	031-CR-1013 -000	BROOKS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
491	031-CR-1013 -000	BROOKS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
496	031-CR-1013 -000	BROOKS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
497	031-CR-1013 -000	BROOKS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
499	031-CR-1013 -000	BROOKS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
500	031-CR-1013 -000	BROOKS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
501	031-CR-1013 -000	BROOKS RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
875	016-CR-1031 -000	REGION RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
876	016-CR-1031 -000	REGION RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
877	016-CR-1031 -000	REGION RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
878	016-CR-1031 -000	REGION RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
879	016-CR-1031 -000	REGION RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons
880	016-CR-1031 -000	REGION RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
881	016-CR-1031 -000	REGION RD	Curve Hazard	Intersection_in_Curve	No	Install advance curve signing and chevrons
882	016-CR-1031 -000	REGION RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
887	016-CR-1031 -000	REGION RD	Curve Hazard	Intersection_in_Curve	No	Install advance curve signing and chevrons
888	016-CR-1031 -000	REGION RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
902	016-CR-1031 -000	REGION RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
903	016-CR-1031 -000	REGION RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
904	016-CR-1031 -000	REGION RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
905	016-CR-1031 -000	REGION RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
5377	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Curve Hazard	Curve_Obscured	Yes	Install advance curve signing and chevrons
5378	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5379	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5380	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Curve Hazard	Curve_Obscured	Yes	Install advance curve signing and chevrons
5383	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
5390	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
5391	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons
5395	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Curve Hazard	Curve_Obscured	Yes	Install advance curve signing and chevrons
5396	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5397	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5399	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Curve Hazard	vegetation,Curve_Obscured	Yes	Install advance curve signing and chevrons
5401	031-CR-1045 -000	NOAH STEVENSON RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5402	031-CR-1045 -000	NOAH STEVENSON RD	Curve Hazard	Curve_Obscured	Yes	Install advance curve signing and chevrons
5403	031-CR-1045 -000	NOAH STEVENSON RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5404	031-CR-1045 -000	NOAH STEVENSON RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5409	031-CR-1308 -000	BLACKGOLD RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
5410	031-CR-1308 -000	BLACKGOLD RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5411	031-CR-1308 -000	BLACKGOLD RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons
5412	031-CR-1308 -000	BLACKGOLD RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons
5413	031-CR-1308 -000	BLACKGOLD RD	Curve Hazard	Curve_Obscured	Yes	Install advance curve signing and chevrons
5414	031-CR-1308 -000	BLACKGOLD RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons
5415	031-CR-1308 -000	BLACKGOLD RD	Curve Hazard	Curve_Obscured	Yes	Install advance curve signing and chevrons
5416	031-CR-1308 -000	BLACKGOLD RD	Curve Hazard	Curve_Obscured	Yes	Install advance curve signing and chevrons
5417	031-CR-1308 -000	BLACKGOLD RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
5418	031-CR-1308 -000	BLACKGOLD RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons
5419	031-CR-1308 -000	BLACKGOLD RD	Curve Hazard	Curve_Obscured	Yes	Install advance curve signing and chevrons
5423	031-CR-1308 -000	BLACKGOLD RD	Curve Hazard	vegetation,Curve_Obscured	Yes	Install advance curve signing and chevrons
5425	031-CR-1308 -000	BLACKGOLD RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons
5428	031-CR-1308 -000	BLACKGOLD RD	Curve Hazard	Curve_Obscured	Yes	Install advance curve signing and chevrons
5429	031-CR-1308 -000	BLACKGOLD RD	Curve Hazard	Curve_Obscured	Yes	Install advance curve signing and chevrons
5430	031-CR-1308 -000	BLACKGOLD RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons
5431	031-CR-1308 -000	BLACKGOLD RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons
5433	031-CR-1300 -000	SANDY FLAT RD	Curve Hazard	Curve_Obscured	Yes	Install advance curve signing and chevrons
5434	031-CR-1300 -000	SANDY FLAT RD	Curve Hazard	Curve_Obscured	Yes	Install advance curve signing and chevrons
5435	031-CR-1300 -000	SANDY FLAT RD	Curve Hazard	Curve_Obscured	Yes	Install advance curve signing and chevrons
5436	031-CR-1300 -000	SANDY FLAT RD	Curve Hazard	Curve_Obscured	Yes	Install advance curve signing and chevrons
5437	031-CR-1300 -000	SANDY FLAT RD	Curve Hazard	Curve_Obscured	Yes	Install advance curve signing and chevrons

Point ID	RT_UNIQUE	Road Name	Issue Type	Comments	Vegetation	Recommendation
5440	031-CR-1300 -000	SANDY FLAT RD	Curve Hazard	Curve_Obscured	Yes	Install advance curve signing and chevrons
5442	031-CR-1300 -000	SANDY FLAT RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons
5443	031-CR-1300 -000	SANDY FLAT RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons
5448	031-CR-1205 -000	OAK HILL RD	Curve Hazard	Curve_Obscured	Yes	Install advance curve signing and chevrons
5449	031-CR-1205 -000	OAK HILL RD	Curve Hazard	vegetation,Curve_Obscured	Yes	Install advance curve signing and chevrons
5452	031-CR-1205 -000	OAK HILL RD	Curve Hazard	vegetation,Curve_Obscured	Yes	Install advance curve signing and chevrons
5453	031-CR-1205 -000	OAK HILL RD	Curve Hazard	Curve_Obscured,vegetation	No	Install advance curve signing and chevrons
5454	031-CR-1205 -000	OAK HILL RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
5455	031-CR-1205 -000	OAK HILL RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
5456	031-CR-1205 -000	OAK HILL RD	Curve Hazard	Curve_Obscured	Yes	Install advance curve signing and chevrons
5457	031-CR-1205 -000	OAK HILL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5459	031-CR-1205 -000	OAK HILL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5466	031-CR-1205 -000	OAK HILL RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
5467	031-CR-1205 -000	OAK HILL RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
5468	031-CR-1205 -000	OAK HILL RD	Curve Hazard	vegetation,Curve_Obscured	Yes	Install advance curve signing and chevrons
5472	031-CR-1205 -000	OAK HILL RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
5477	031-CR-1117 -000	PARK MAMMOTH RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
5822	031-CR-1143 -000	MOHAWK RD	Curve Hazard	Curve_Obscured,Intersection_in_Curve	No	Install advance curve signing and chevrons
5823	031-CR-1143 -000	MOHAWK RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
5826	031-CR-1143 -000	MOHAWK RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation. Consider installing edgelines and stop bar at intersection.
5828	031-CR-1222 -000	HENRY MEREDITH RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
5832	031-CR-1222 -000	HENRY MEREDITH RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5838	031-CR-1227 -000	WILLIAM SIMMONS RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons
5840	031-CR-1227 -000	WILLIAM SIMMONS RD	Curve Hazard	vegetation,Curve_Obscured	Yes	Install advance curve signing and chevrons

Roadside Drop Off Recommendations (Edmonson County)

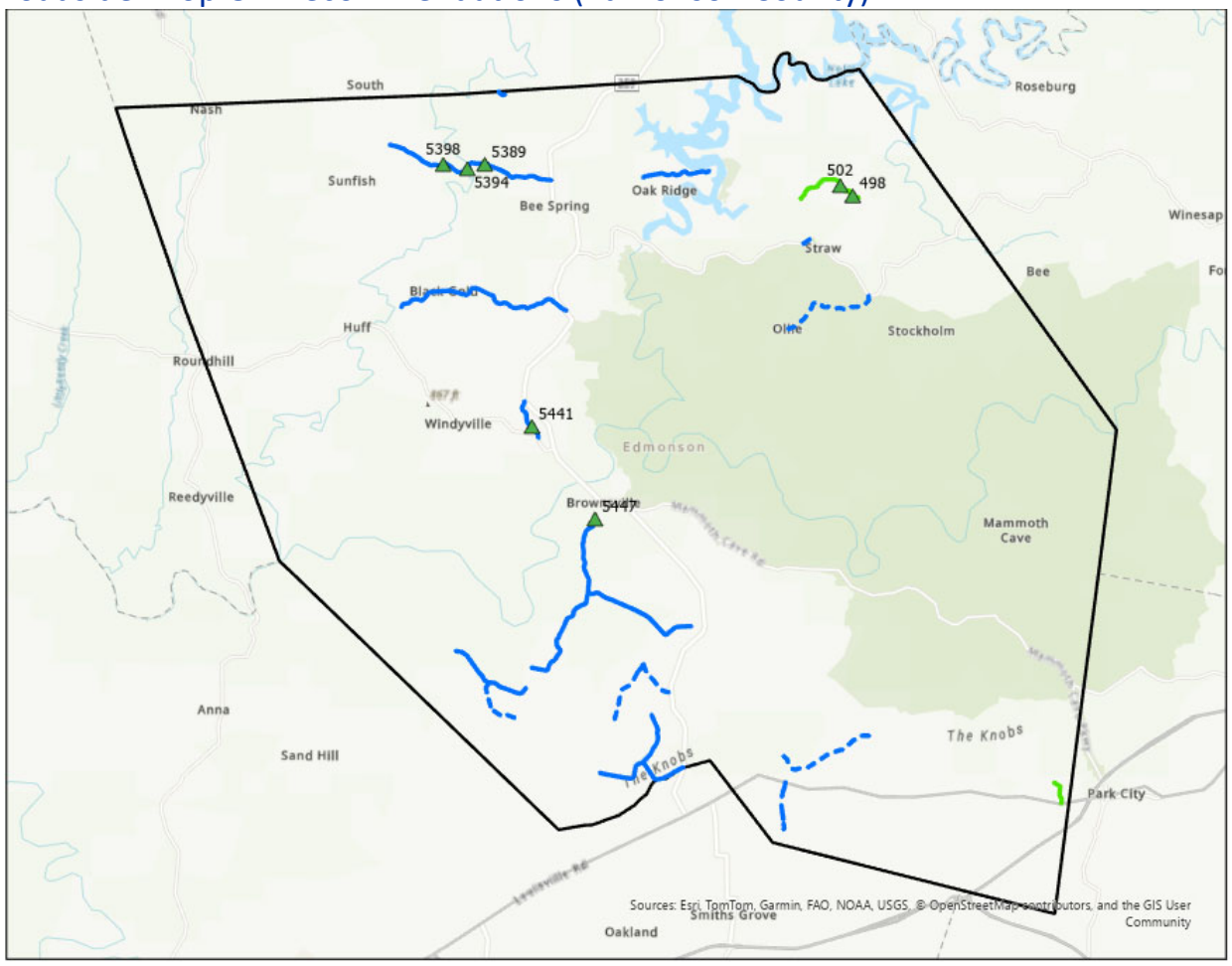


Exhibit Edmonson-16: Roadside Drop Off Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Drop Off Offset	Drop Off Height	Additional Comments	Recommendation
498	031-CR-1013 -000	BROOKS RD	Drop Off	1-3	2-5	Stream beside roadway, no bridge	Install Type 2 Object Marker
502	031-CR-1013 -000	BROOKS RD	Drop Off	>5	>10	Drop off into water	Evaluate roadway width, curvature and grade at drop off compared to other locations in county to evaluate need for guardrail
5389	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Drop Off	3-5	>10		Evaluate roadway width, curvature and grade at drop off compared to other locations in county to evaluate need for guardrail
5394	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Drop Off	3-5	>10		Evaluate roadway width, curvature and grade at drop off compared to other locations in county to evaluate need for guardrail
5398	031-CR-1345 -000	CEDAR GROVE CHURCH RD	Drop Off	0-1	>10		Evaluate roadway width, curvature and grade at drop off compared to other locations in county to evaluate need for guardrail
5441	031-CR-1300 -000	SANDY FLAT RD	Drop Off	>5	>10		--
5447	031-CR-1205 -000	OAK HILL RD	Drop Off	1-3	5-10		Install Type 2 Object Marker

Exhibit Edmonson-17: Roadside Drop Off Recommendations

Fixed Object Recommendations (Edmonson County)

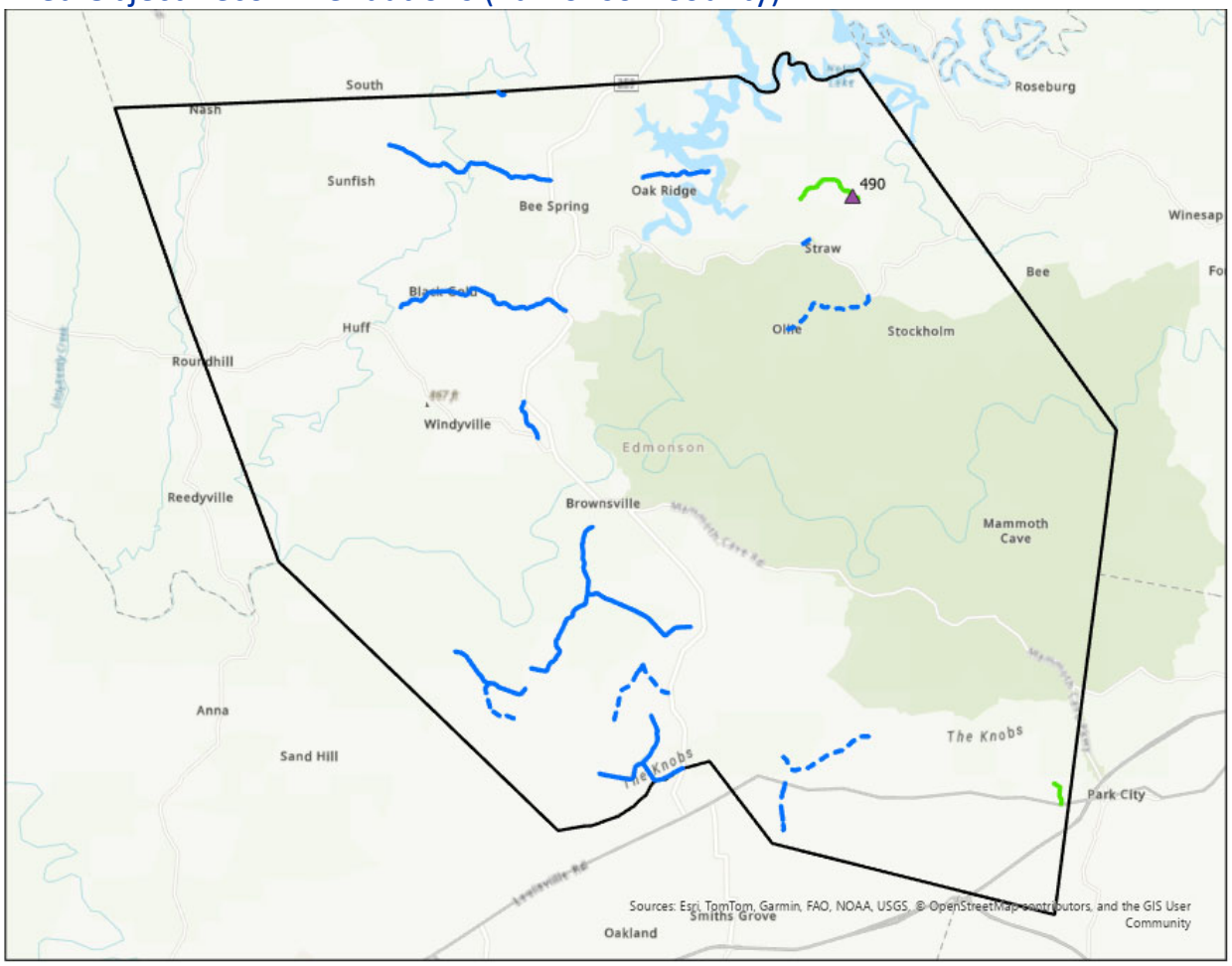


Exhibit Edmonson-18: Fixed Object Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Object	Single / Series	Offset	Recommendation
490	031-CR-1013 -000	BROOKS RD	Fixed Object	Tree	Single	1-3	Remove

Exhibit Edmonson-19: Fixed Object Recommendations

Intersection Recommendations (Edmonson County)

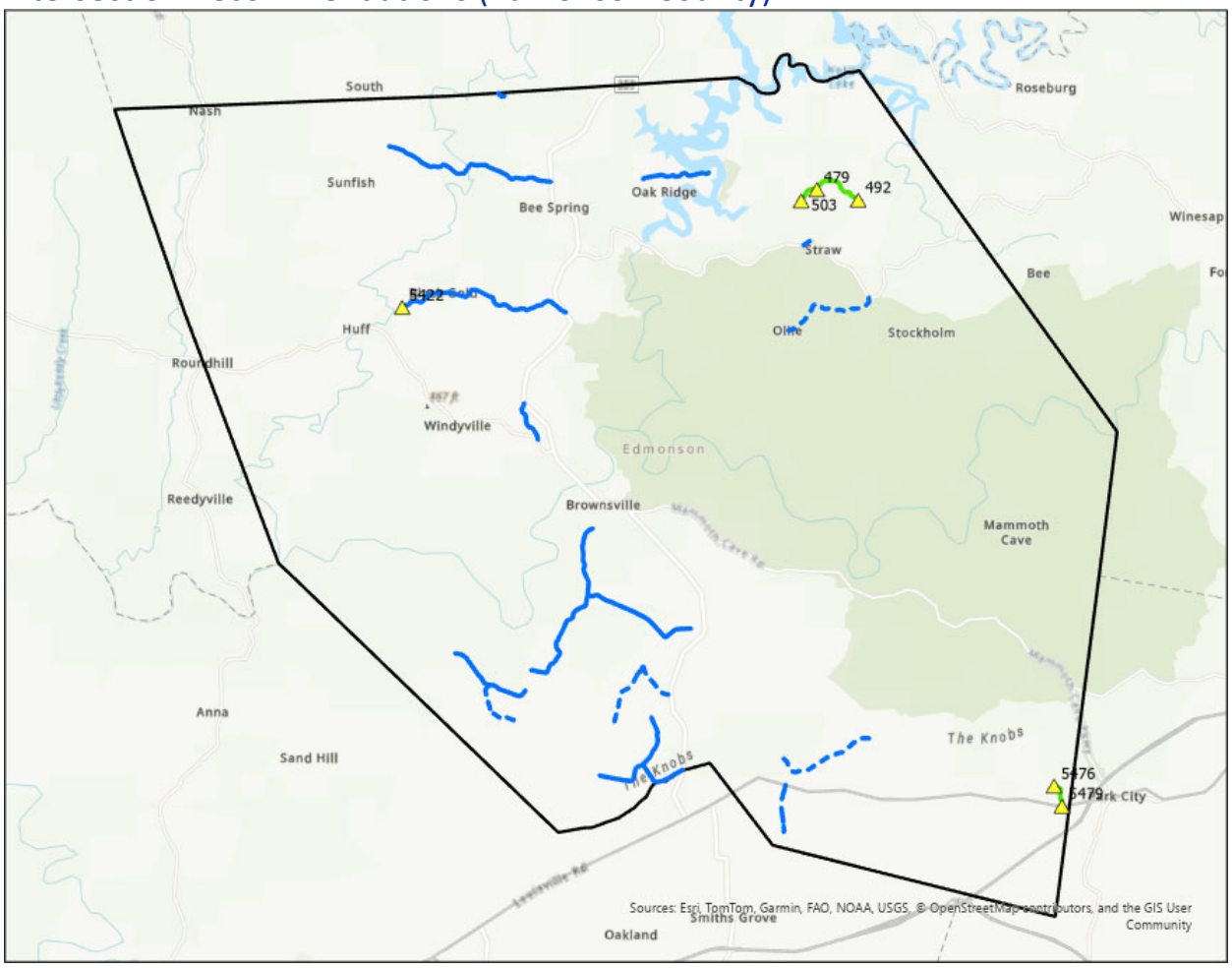


Exhibit Edmonson-20: Intersection Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Comments	Recommendations
479	031-CR-1013 -000	BROOKS RD	Intersection	No	Intersection_Obscured_on_Approa	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
492	031-CR-1013 -000	BROOKS RD	Intersection	No	other; No issue, end of road	--
503	031-CR-1013 -000	BROOKS RD	Intersection	No	other; End roadway, no issues	--
5422	031-CR-1308 -000	BLACKGOLD RD	Intersection	No	Intersection_Obscured_on_Approa,Intersection_Skew	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5476	031-CR-1117 -000	PARK MAMMOTH RD	Intersection	No	Intersection_Skew	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5479	031-CR-1117 -000	PARK MAMMOTH RD	Intersection	No	other; No issue, end of road	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs

Exhibit Edmonson-21: Intersection Recommendations (1 of 2)

Signing Recommendations (Edmonson County)

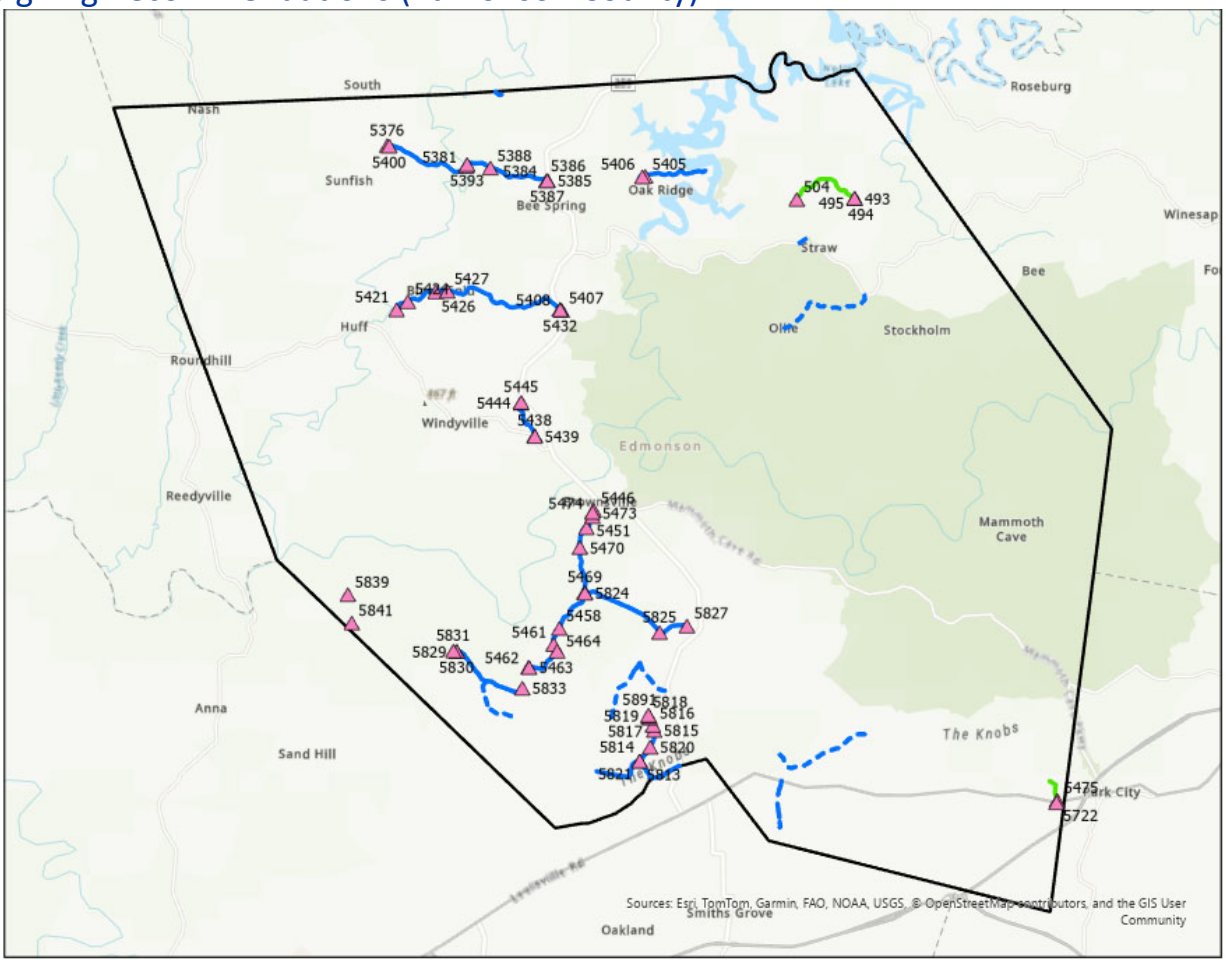


Exhibit Edmonson-22: Sign Locations

As part of the RSA data collection effort, existing signs were inventoried along reviewed Focus Roadways, including a condition assessment and a photo of each sign. Additionally, preliminary Advisory Speed recommendations were calculated for each focus roadway to assist in the installation of horizontal alignment (curve) signs. Signing and advisory speed information is provided in digital format at https://kyt2.uky.edu/braddSAP.

APPENDIX H: HART COUNTY SAFETY ACTION PLAN

Hart County Overview

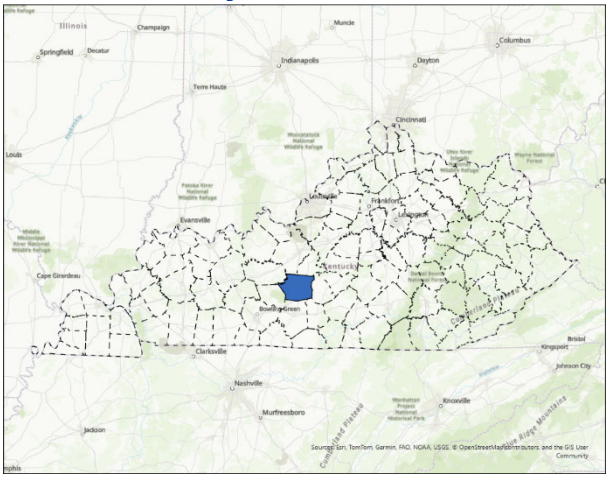


Exhibit Hart-1: Location Map

Key Information Table Hart County	
Population	19,724
Population in Persistent Poverty	24%
Underserved Community	**Yes**
Fatalities (All Roads)	25
Fatalities (County Roads)	1
Fatality Rate per 100,000 persons	**126.75**
County Road Mileage	414.5
State Road Mileage	292.8
Total Mileage	**707.3**

Exhibit Hart-2: Key Information

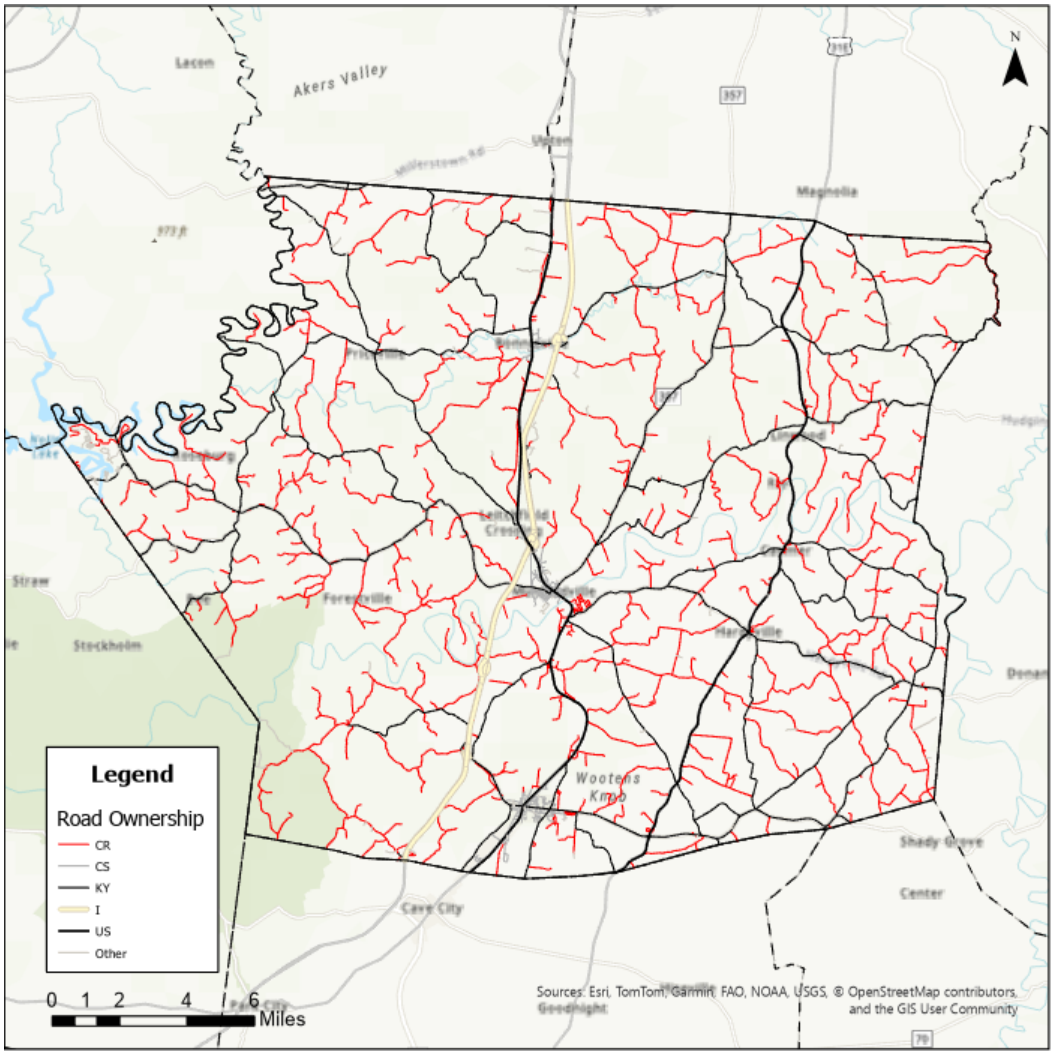


Exhibit Hart-3: Map of County Roadways

Crash Analysis

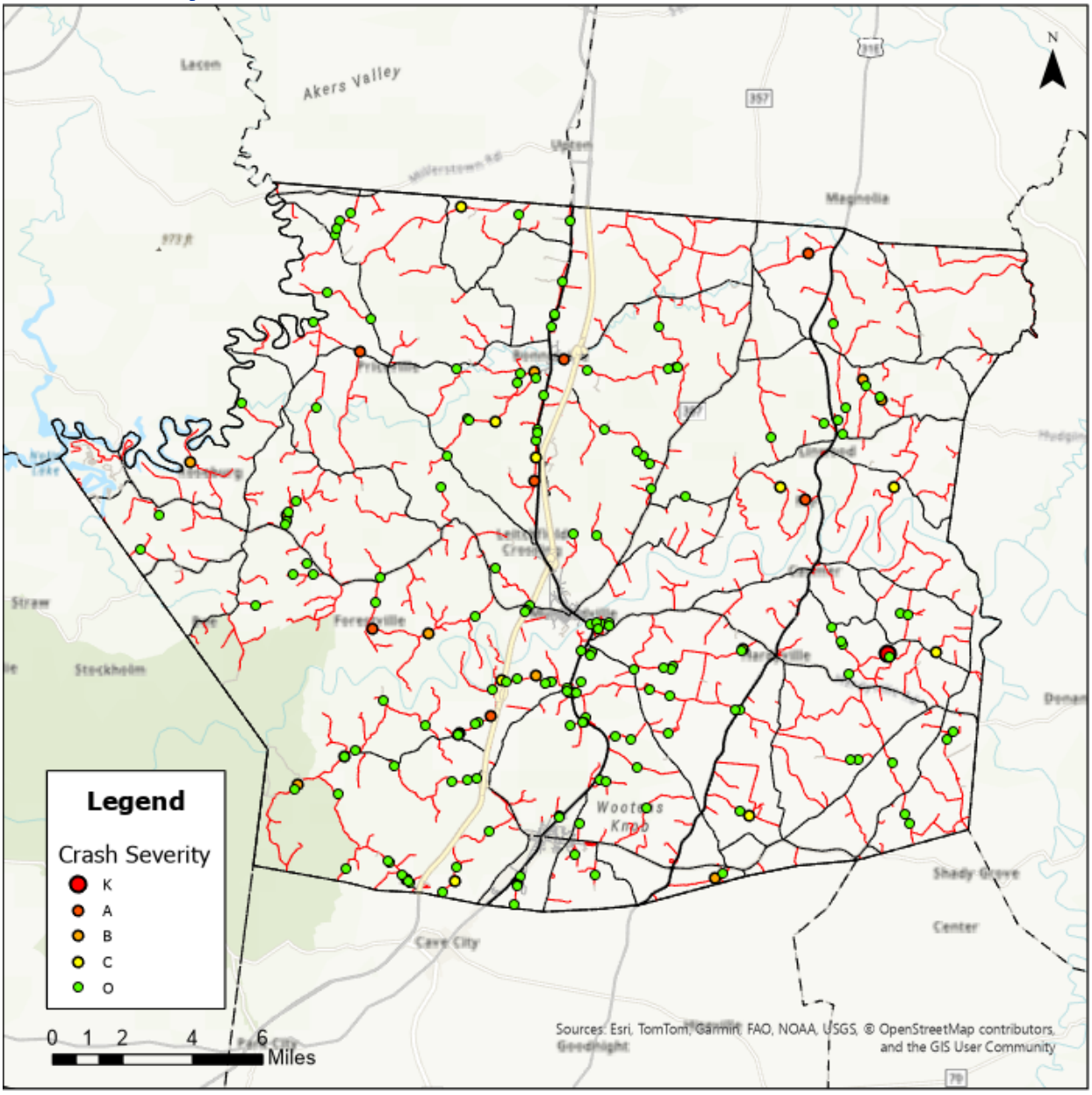
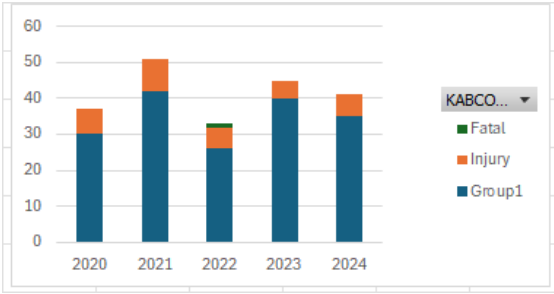


Exhibit Hart-4: Map of County Road Crashes



Year	Prop. Damage Only	Injury	Fatal	Total
2020	30	7	0	**37**
2021	42	9	0	**51**
2022	26	6	1	**33**
2023	40	5	0	**45**
2024	35	6	0	**41**

Exhibit Lextcher-5: Crash Distribution by Year

Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	8	1	0	**9**
BACKING	17	0	0	**17**
HEAD ON	6	3	0	**9**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	4	1	0	**5**
REAR TO REAR	1	0	0	**1**
SIDESWIPE-OPPOSITE	33	4	0	**37**
SIDESWIPE-SAME DIR	5	0	0	**5**
SINGLE VEHICLE	99	24	1	**124**

Exhibit Hart-6: Crash Frequency and Severity by Manner of Collision

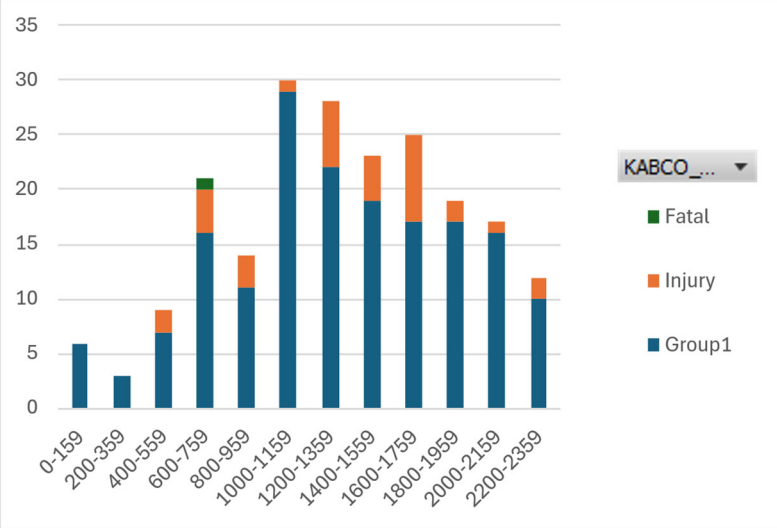


Figure Hart-7: Crashes and Severity by Time of Day

Focus Roadways

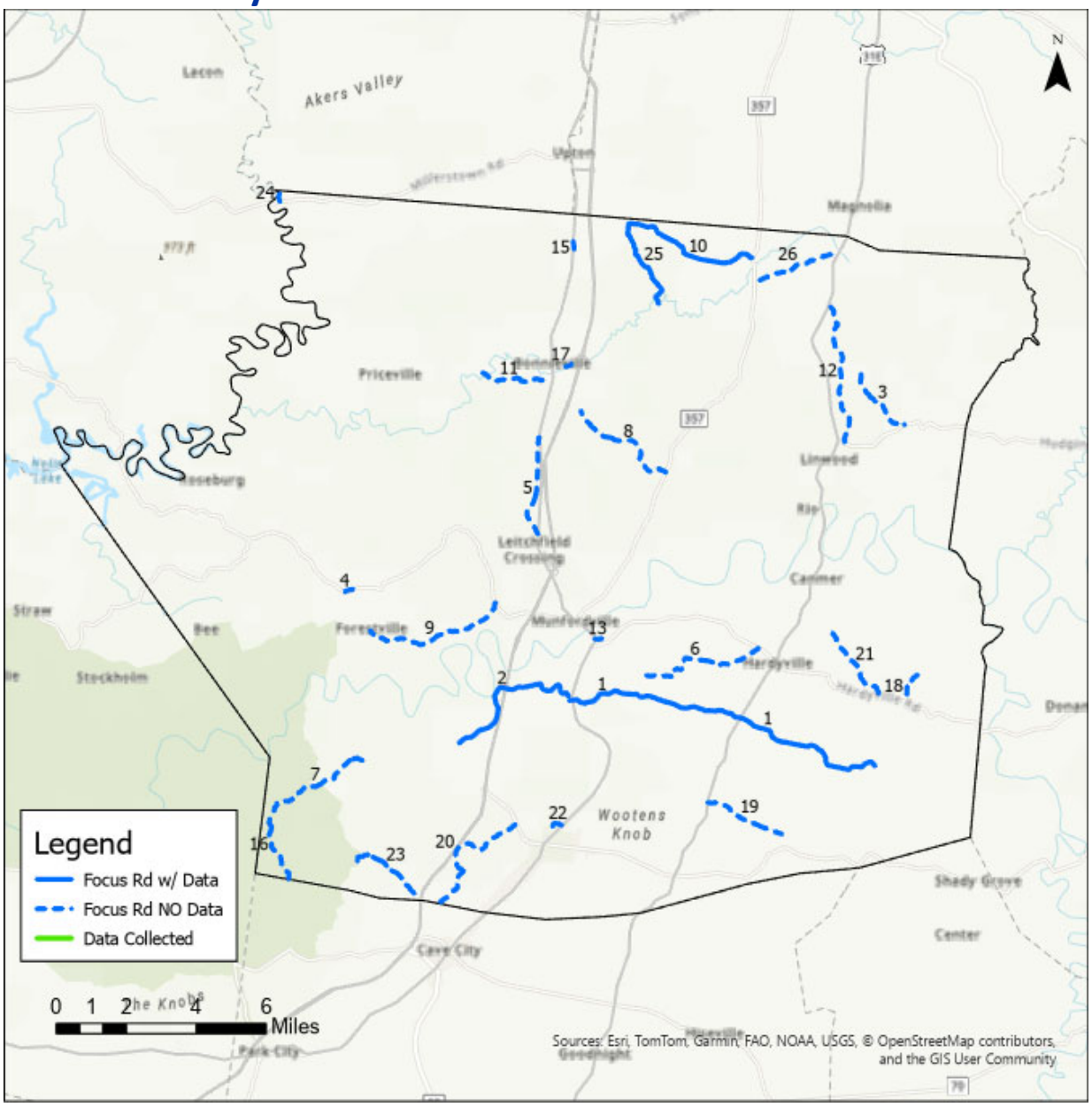


Exhibit Hart-8: Focus Roads

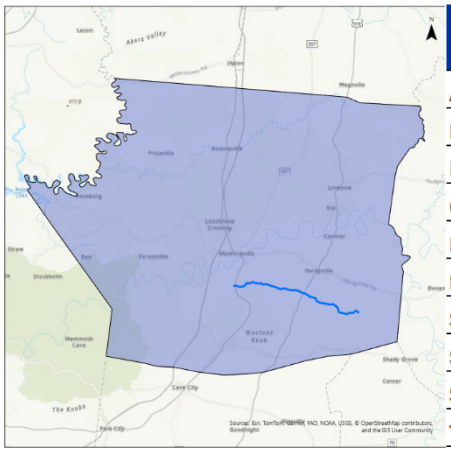
RT_UNIQUE	Length	County	Road Name	Injury Crash	Fatal Crash	PDO	Crash Score	Use Score	Rank	Focus Rd	Data
Hart											
050-CR-1181 -000	9.85	Hart	BUNNELL CROSSING RD	2	1	7	3.33	0.42	1	1	1
050-CR-1238 -000	4.69	Hart	ROWLETTS CAVE SPRINGS RD	1	1	9	2.31	0.68	2	1	1
050-CR-1034 -000	2.17	Hart	BALES RD	2	0	3	2.47	0.21	3	1	0
050-CR-1308 -000	0.32	Hart	CENTER POINT LOOP	0	0	0	0.00	4.17	4	1	0
050-CR-1415 -000	2.95	Hart	CONCORD CHURCH RD	1	1	2	1.88	0.14	5	1	0
050-CR-1185 -000	4.13	Hart	SHADY LANE CHURCH RD	1	1	1	1.82	0.19	6	1	0
050-CR-1304 -000	3.05	Hart	MAMMOTH CAVE PARK RD	1	1	0	1.76	0.23	7	1	0
050-CR-1068 -000	3.49	Hart	FRENCHMANS KNOB RD	1	0	5	1.45	0.51	8	1	0
050-CR-1293 -000	4.37	Hart	LOGSDON VALLEY RD	1	0	4	1.39	0.43	9	1	0
050-CR-1057 -000	4.09	Hart	LATON TURNER RD	1	0	1	1.20	0.31	10	1	1
050-CR-1407 -000	2.01	Hart	CAMPGROUND RD	1	0	2	1.27	0.18	11	1	0
050-CR-1033 -000	4.28	Hart	PIKEVIEW RD	1	0	2	1.27	0.10	12	1	0
050-CR-1212D -000	0.22	Hart	SYCAMORE LN	0	0	0	0.00	2.59	13	1	0
050-CR-1045 -000	3.28	Hart	MAGNOLIA GAS STORAGE RD	1	0	1	1.20	0.07	14	1	1
050-CR-1069 -000	0.35	Hart	CUCUMBER LOOP	0	0	0	0.00	2.50	15	1	0
050-CR-1275 -000	2.54	Hart	PARK RIDGE RD	1	0	0	1.14	0.18	16	1	0
050-CR-1406 -000	0.21	Hart	CREEK RD	1	0	0	1.14	0.17	17	1	0
050-CR-1133 -000	0.98	Hart	L W NEAL RD	1	0	0	1.14	0.10	18	1	0
050-CR-1155 -000	2.37	Hart	LITTLE BLUE SPRINGS RD	0	1	3	0.80	0.48	19	1	0
050-CR-1258 -000	4.08	Hart	HATCHER VALLEY RD	0	1	4	0.86	0.22	20	1	0
050-CR-1114 -000	2.36	Hart	GILEAD FAIRVIEW RD	0	0	5	0.31	1.21	21	1	0
050-CR-1253 -000	0.34	Hart	GUTHRIE ST	0	1	4	0.86	0.07	22	1	1
050-CR-1261 -000	3.28	Hart	N TOOHEY RIDGE RD	0	0	10	0.62	0.33	23	1	0
050-CR-1424 -000	0.33	Hart	ASHTOWN-MILLERSTOWN RD	0	0	0	0.00	1.56	24	1	0
050-CR-1058 -000	2.83	Hart	WABASH RD	0	1	0	0.62	0.17	25	1	1
050-CR-1051 -000	2.38	Hart	HAMMONSVILLE SCHOOLHOUSE RD	0	0	0	0.00	1.36	26	1	0

Exhibit Hart-9: List of Focus Roadways

Recommended Improvements (Top 5 Roads)

BUNNELL CROSSING RD(050-CR-1181 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	1	0	0	**1**
BACKING	1	0	0	**1**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	3	0	0	**3**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	3	1	0	**4**
Total	**8**	**1**	**0**	**9**

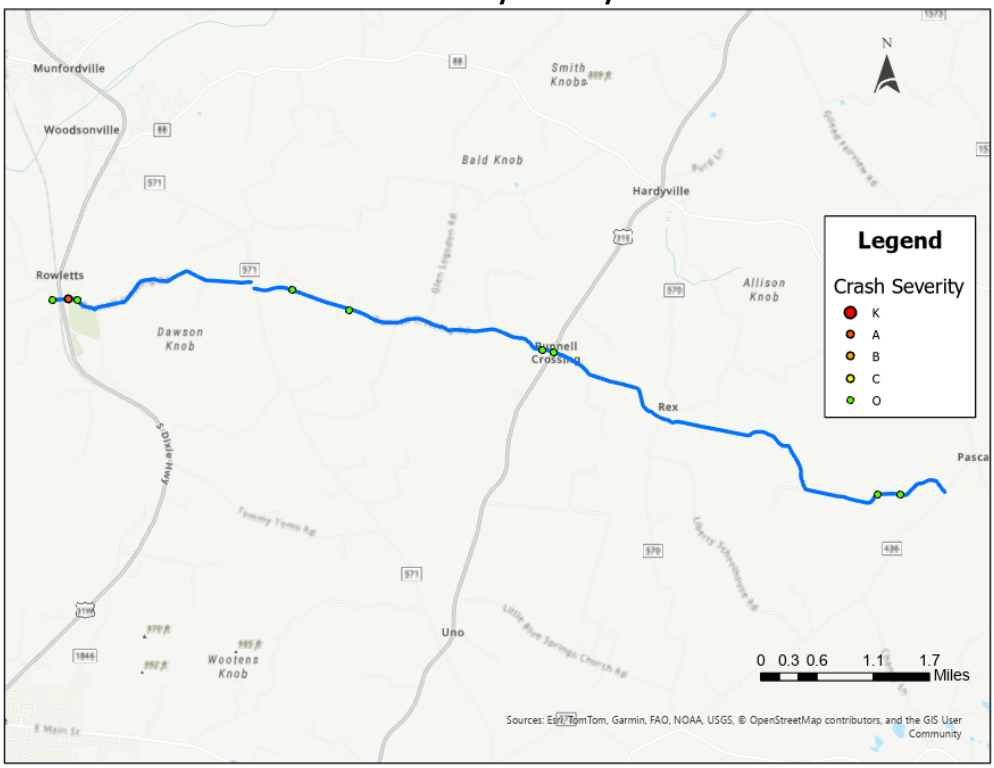
General Roadway Conditions

Roadway Section Information Not Collected

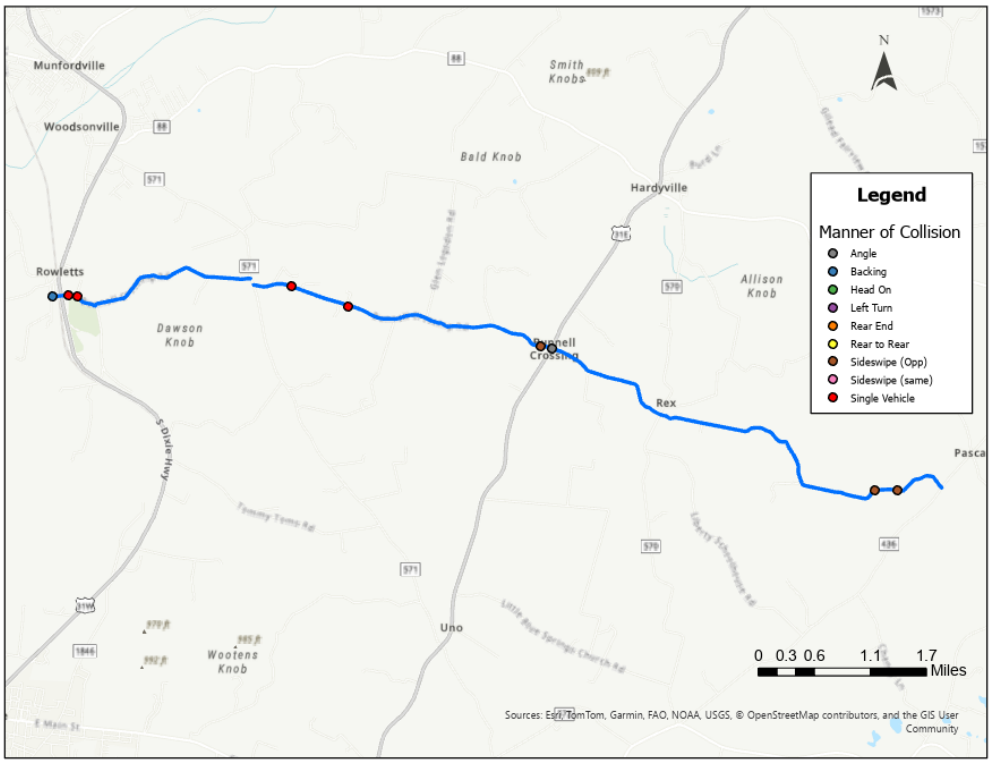
Roadway Typical Section



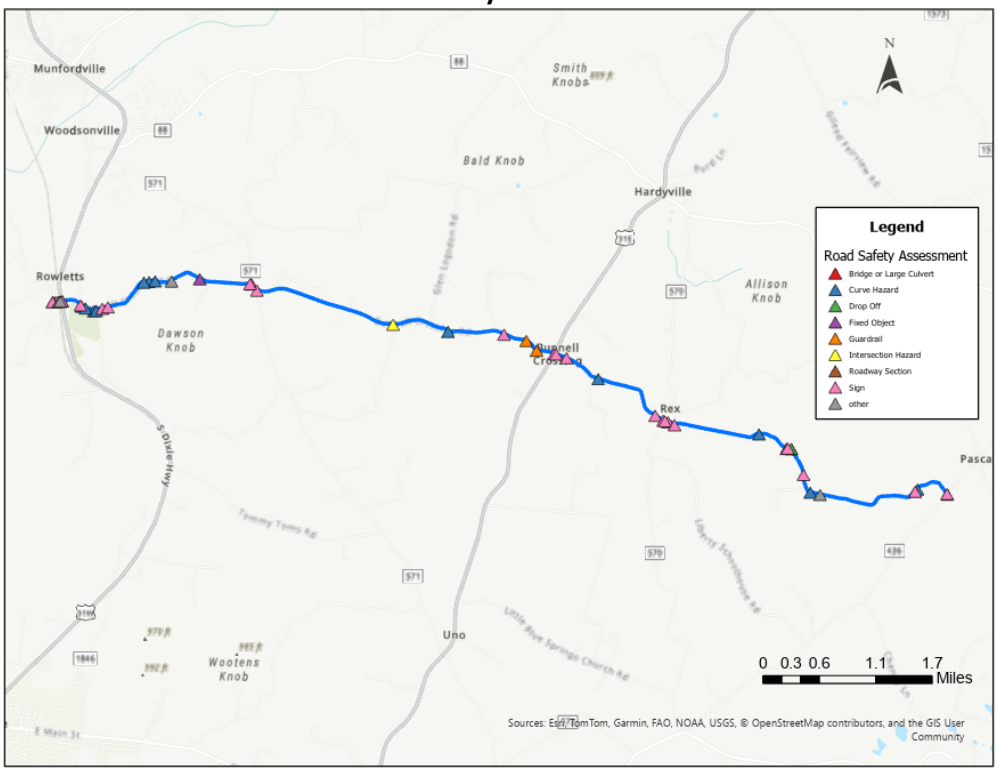
Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment



General Recommendations

5261	050-CR-1181 -000	BUNNELL CROSSING RD	Guardrail	Good	All_	--
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Recommendation**	
5234	050-CR-1181 -000	BUNNELL CROSSING RD	Intersection	No	Intersection_Obscured_on_Approa	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5246	050-CR-1181 -000	BUNNELL CROSSING RD	Intersection	No	other; End of road, no issue	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5269	050-CR-1181 -000	BUNNELL CROSSING RD	Intersection	No	other; Busy highway	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5272	050-CR-1181 -000	BUNNELL CROSSING RD	Intersection	No	other; End of road	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Comments**	**Recommendation**
5227	050-CR-1181 -000	BUNNELL CROSSING RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5228	050-CR-1181 -000	BUNNELL CROSSING RD	Curve Hazard	No	Intersection_in_Curve	Install advance curve signing and chevrons
5230	050-CR-1181 -000	BUNNELL CROSSING RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5235	050-CR-1181 -000	BUNNELL CROSSING RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5245	050-CR-1181 -000	BUNNELL CROSSING RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5250	050-CR-1181 -000	BUNNELL CROSSING RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5251	050-CR-1181 -000	BUNNELL CROSSING RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5253	050-CR-1181 -000	BUNNELL CROSSING RD	Curve Hazard	No	Curve_Obscured,Intersection_in_Curve	Install advance curve signing and chevrons
5255	050-CR-1181 -000	BUNNELL CROSSING RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5258	050-CR-1181 -000	BUNNELL CROSSING RD	Curve Hazard	No	Intersection_in_Curve,Curve_Obscured	Install advance curve signing and chevrons
5264	050-CR-1181 -000	BUNNELL CROSSING RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5265	050-CR-1181 -000	BUNNELL CROSSING RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5267	050-CR-1181 -000	BUNNELL CROSSING RD	Curve Hazard	No	Curve_Obscured,Intersection_in_Curve	Install advance curve signing and chevrons

General Recommendations (continued)

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	--	Recommendation	
2185	059-CR-1146 -000	INDEPENDENCE STATION RD	Intersection	Yes	--	Intersection Obscured on Approach, Insufficient Sight Distance at	Clear vegetation and evaluate sight distance ; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X); Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)
2221	059-CR-1146 -000	INDEPENDENCE STATION RD	Intersection	Yes	--	Intersection Obscured on Approach; Fence blocking view	Clear vegetation and evaluate sight distance ; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X); Consider removal of fence
2251	059-CR-1146 -000	INDEPENDENCE STATION RD	Intersection	No	--	Intersection Obscured on Approach, Insufficient Sight Distance at	Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X); Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)
2283	059-CR-1146 -000	INDEPENDENCE STATION RD	Intersection	No	--	Insufficient Sight Distance, Intersection Obscured on Approach; Intersection has good site distance both directions	Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X).

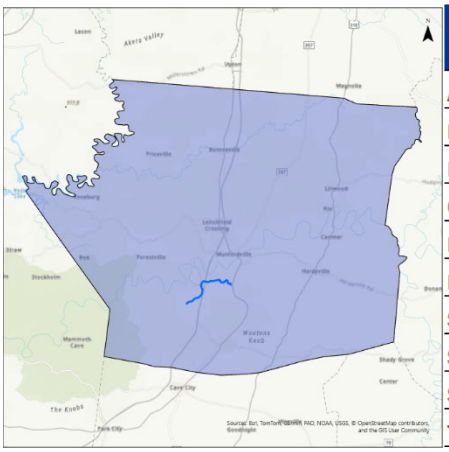
Point ID	RT_UNIQUE	Road Name	Issue Type	Bridge Width	Guardrail Present	OM Present	Recommendation
2215	059-CR-1146 -000	INDEPENDENCE STATION RD	Bridge or Large Culvert	22	1	4	Evaluate condition of existing and need for guardrail on approach.
2244	059-CR-1146 -000	INDEPENDENCE STATION RD	Bridge or Large Culvert	22	0	4	Evaluate need for guardrail on approach.

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	0	Comments	Recommendation
2192	059-CR-1146 -000	INDEPENDENCE STATION RD	Curve Hazard	No	--	other; Objects near road	Install Curve Warning Sign; Evaluate other obstructions
2210	059-CR-1146 -000	INDEPENDENCE STATION RD	Curve Hazard	No	--	other; No sign	Install Curve Warning Sign; Evaluate other obstructions
2216	059-CR-1146 -000	INDEPENDENCE STATION RD	Curve Hazard	Yes	--	other; Dangerous	Install Curve Warning Sign; Clear Vegetation
2261	059-CR-1146 -000	INDEPENDENCE STATION RD	Curve Hazard	No	--	other; No signs	Install Curve Warning Sign; Evaluate other obstructions
2264	059-CR-1146 -000	INDEPENDENCE STATION RD	Curve Hazard	No	--	other; No signs. Series	Install Curve Warning Sign; Evaluate other obstructions

Point ID	RT_UNIQUE	RD_NAME	Issue Type	--	--	Description	Recommendation
2184	059-CR-1146 -000	INDEPENDENCE STATION RD	other	--	--	Intersection with KY 17X	Review Intersection
2219	059-CR-1146 -000	INDEPENDENCE STATION RD	other	--	--	Intersection with Cody Rd	Review Intersection
2228	059-CR-1146 -000	INDEPENDENCE STATION RD	other	--	--	Intersection with Canberra Dr	Review Intersection
2234	059-CR-1146 -000	INDEPENDENCE STATION RD	other	--	--	RR crossing;	Review RR crossing
2245	059-CR-1146 -000	INDEPENDENCE STATION RD	other	--	--	Intersection with Mchugh Ln	Review Intersection
2249	059-CR-1146 -000	INDEPENDENCE STATION RD	other	--	--	Intersection with Justice Ln	Review Intersection
2253	059-CR-1146 -000	INDEPENDENCE STATION RD	other	--	--	Intersection with Gary Lee Hall Dr	Review Intersection
2257	059-CR-1146 -000	INDEPENDENCE STATION RD	other	--	--	Intersection with Webster Dr	Review Intersection
2259	059-CR-1146 -000	INDEPENDENCE STATION RD	other	--	--	Intersection with Meadow Glen	Review Intersection
2268	059-CR-1146 -000	INDEPENDENCE STATION RD	other	--	--	Intersection with Jam Ct	Review Intersection
2273	059-CR-1146 -000	INDEPENDENCE STATION RD	other	--	--	Intersection with Elite Dr	Review Intersection
2275	059-CR-1146 -000	INDEPENDENCE STATION RD	other	--	--	Intersection with Cody Rd	Review Intersection
2279	059-CR-1146 -000	INDEPENDENCE STATION RD	other	--	--	Intersection with Pearl Dr	Review Intersection
2281	059-CR-1146 -000	INDEPENDENCE STATION RD	other	--	--	Intersection with Willowview Dr	Review Intersection
2284	059-CR-1146 -000	INDEPENDENCE STATION RD	other	--	--	Intersection with Kimberly Dr	Review Intersection
2289	059-CR-1146 -000	INDEPENDENCE STATION RD	other	--	--	Intersection with KY 1303 (Turkeyfoot Rd)	Review Intersection

ROWLETTS CAVE SPRINGS RD(050-CR-1238 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	0	0	0	**0**
HEAD ON	0	1	0	**1**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	1	0	0	**1**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	2	0	0	**2**
SIDESWIPE-SAME DIR	1	0	0	**1**
SINGLE VEHICLE	5	4	0	**9**
Total	**9**	**5**	**0**	**14**

General Roadway Conditions

Roadway Section Information Not Collected

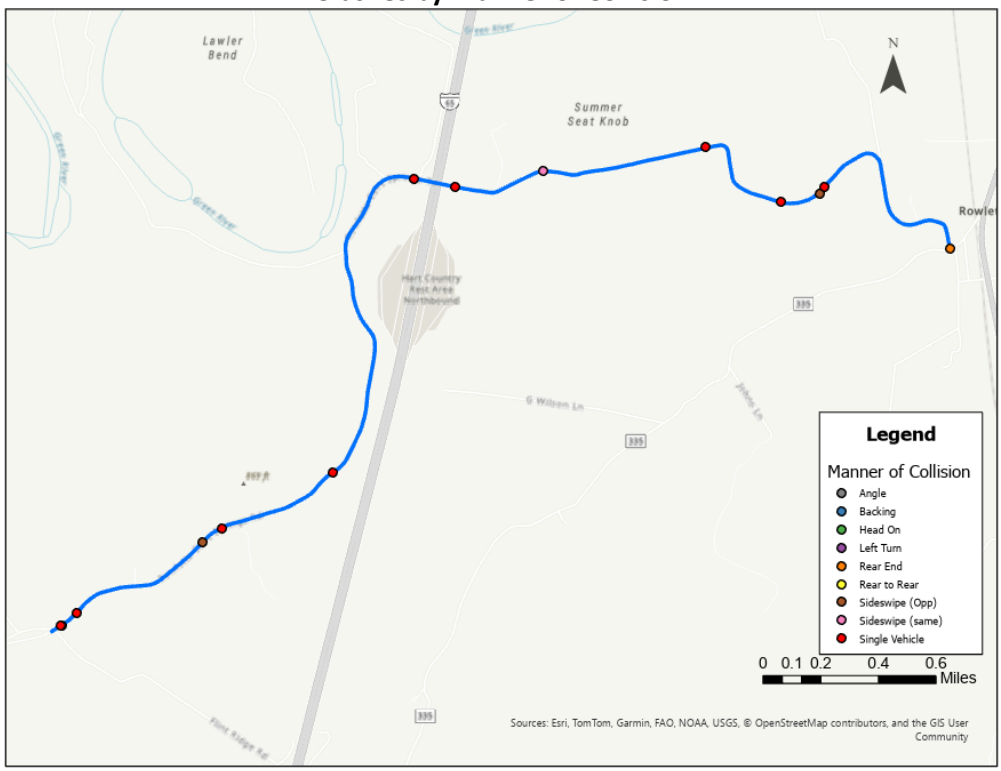
Roadway Typical Section



Crashes by Severity



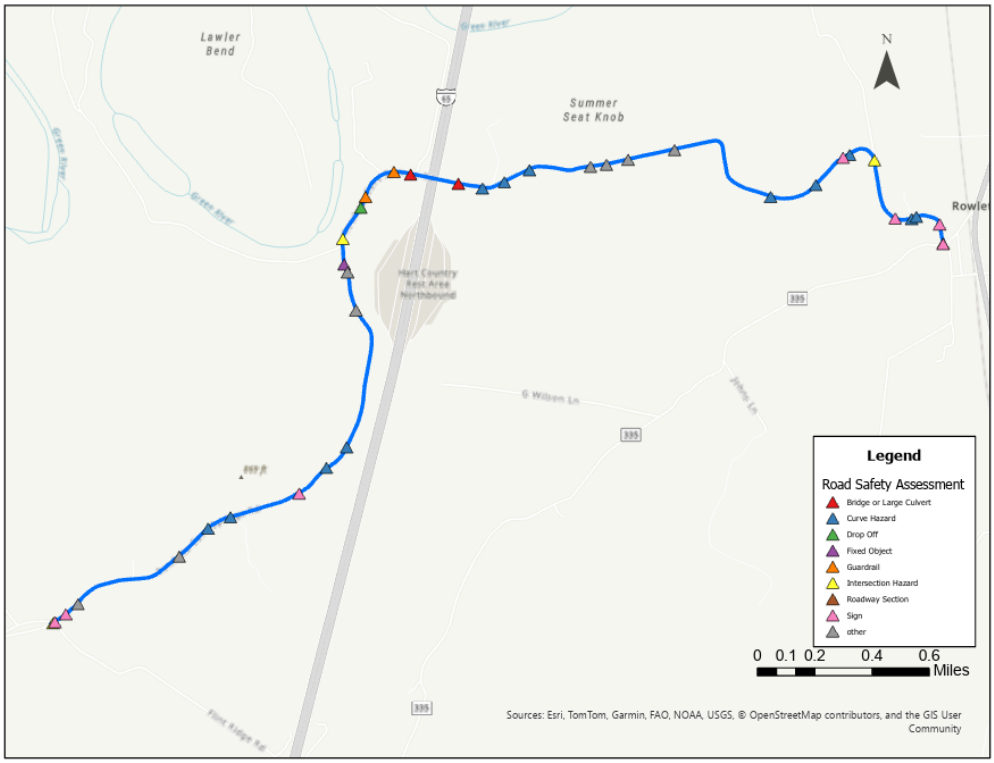
Crashes by Manner of Collision



Crashes by Road Condition



Road Safety Assessment

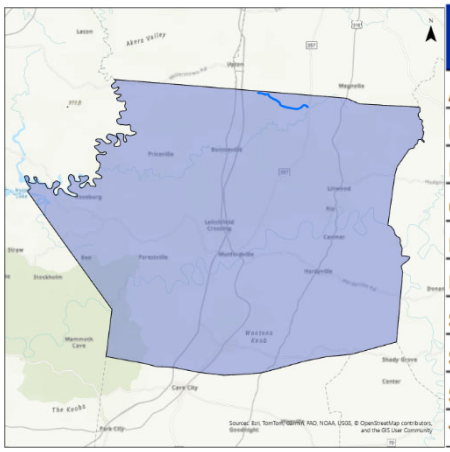


General Recommendations

Point ID	RT_UNIQUE	Road Name	Issue Type	Drop Off Offset	Comments	Recommendation
5212	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Drop Off	3-5	0	Evaluate roadway width, curvature and grade at drop off compared to other locations in county to evaluate need for guardrail
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Object**	**Offset**	**Recommendation**
5221	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Fixed Object	other; Utility marker	1-3	Install Type 2 Object Marker
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Condition**	**End Treatments**	**Recommendation**
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Condition**	**End Treatments**	**Recommendation**
5190	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Guardrail	Fair	All_	--
5211	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Guardrail	Fair	All_	--
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Recommendation**	
5199	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Intersection	No	other; No issue end of roadway	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5204	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Intersection	No	Intersection_Skew	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5213	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Intersection	No	Intersection_Obscured_on_Approa	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5219	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Intersection	No	Intersection_Skew	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Bridge Width**	**OM Present**	**Recommendation**
5191	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Bridge or Large Culvert	20	0	Install Type 3 Object Markers where missing.
5210	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Bridge or Large Culvert	20	0	Install Type 3 Object Markers where missing.
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Comments**	**Recommendation**
5187	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5192	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5193	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons
5196	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5197	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5198	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5202	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5206	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5209	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5215	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5216	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5217	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
Point ID	**RT_UNIQUE**	**RD_NAME**	**Issue Type**	**--**	**Description**	**Recommendation**
5186	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Other	0	Hill	Install "Hill Blocks Sight Distance" Sign.
5189	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Other	0	Hill	Install "Hill Blocks Sight Distance" Sign.
5194	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Other	0	Hill	Install "Hill Blocks Sight Distance" Sign.
5195	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Other	0	Hill	Install "Hill Blocks Sight Distance" Sign.
5207	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Other	0	Hill	Install "Hill Blocks Sight Distance" Sign.
5208	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Other	0	Hill	Install "Hill Blocks Sight Distance" Sign.
5214	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Other	0	Hill	Install "Hill Blocks Sight Distance" Sign.
5218	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Other	0	Hill	Install "Hill Blocks Sight Distance" Sign.

LATON TURNER RD(050-CR-1057 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	0	0	0	**0**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	0	0	0	**0**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	0	0	0	**0**
Total	**0**	**0**	**0**	**0**

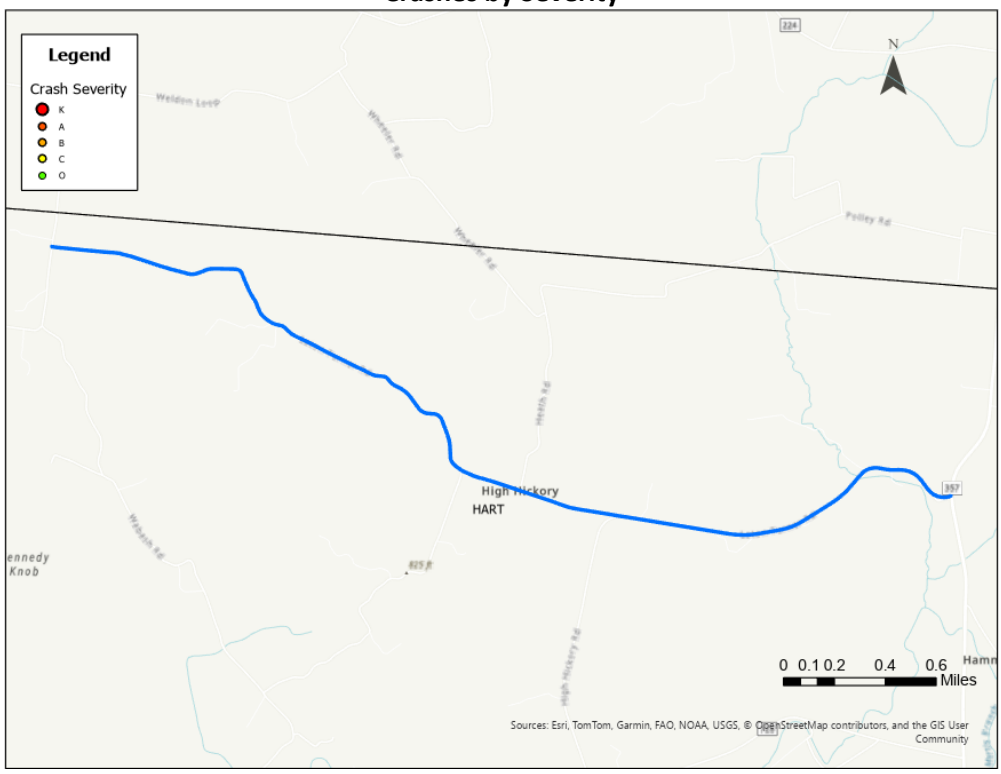
General Roadway Conditions

Roadway Section Information Not Collected

Roadway Typical Section



Crashes by Severity



Road Safety Assessment

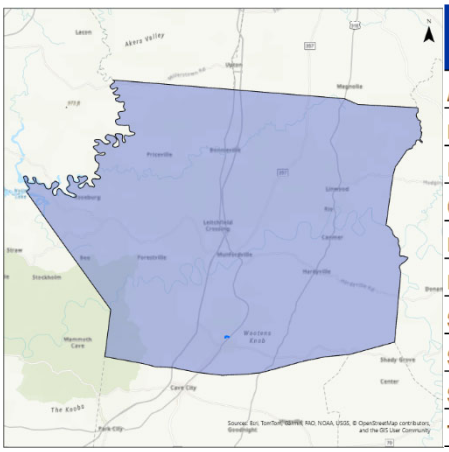


General Recommendations

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Recommendation	
5293	050-CR-1057 -000	LATON TURNER RD	Intersection	No	Intersection_Obscured_on_Approa,Intersection_Skew	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5294	050-CR-1057 -000	LATON TURNER RD	Intersection	No	Intersection_Skew,Intersection_Obscured_on_Approa	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5297	050-CR-1057 -000	LATON TURNER RD	Intersection	No	other; End of road	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5300	050-CR-1057 -000	LATON TURNER RD	Intersection	No	Intersection_Skew	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5304	050-CR-1057 -000	LATON TURNER RD	Intersection	No	other; End of road	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Bridge Width**	**OM Present**	**Recommendation**
5295	050-CR-1057 -000	LATON TURNER RD	Bridge or Large Culvert	15	3	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5296	050-CR-1057 -000	LATON TURNER RD	Bridge or Large Culvert	15	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5299	050-CR-1057 -000	LATON TURNER RD	Bridge or Large Culvert	15	4	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Comments**	**Recommendation**
5289	050-CR-1057 -000	LATON TURNER RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5291	050-CR-1057 -000	LATON TURNER RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5292	050-CR-1057 -000	LATON TURNER RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5302	050-CR-1057 -000	LATON TURNER RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
Point ID	**RT_UNIQUE**	**RD_NAME**	**Issue Type**	**--**	**Description**	**Recommendation**
5290	050-CR-1057 -000	LATON TURNER RD	Other	0	Hill	Install "Hill Blocks Sight Distance" Sign.
5301	050-CR-1057 -000	LATON TURNER RD	Other	0	Hill	Install "Hill Blocks Sight Distance" Sign.
5303	050-CR-1057 -000	LATON TURNER RD	Other	0	Big pothole	Repair Pothole

GUTHRIE ST(050-CR-1253 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	0	0	0	**0**
HEAD ON	1	0	0	**1**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	1	0	0	**1**
SIDESWIPE-OPPOSITE	2	0	0	**2**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	3	0	0	**3**
Total	**7**	**0**	**0**	**7**

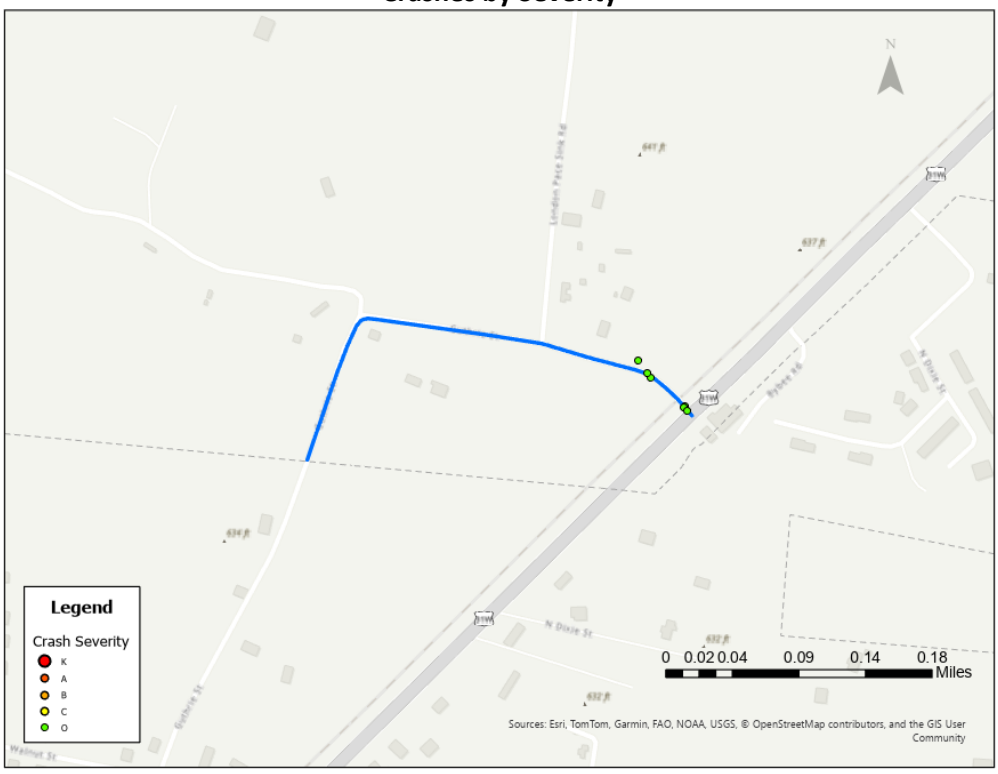
General Roadway Conditions

RT_UNIQUE	Road Name	Pvmt Width (f	Pavement Conditi	Roadside Hazard Rating	Shoulder Improve
050-CR-1253 -000	GUTHRIE ST	12	2	2	0-20

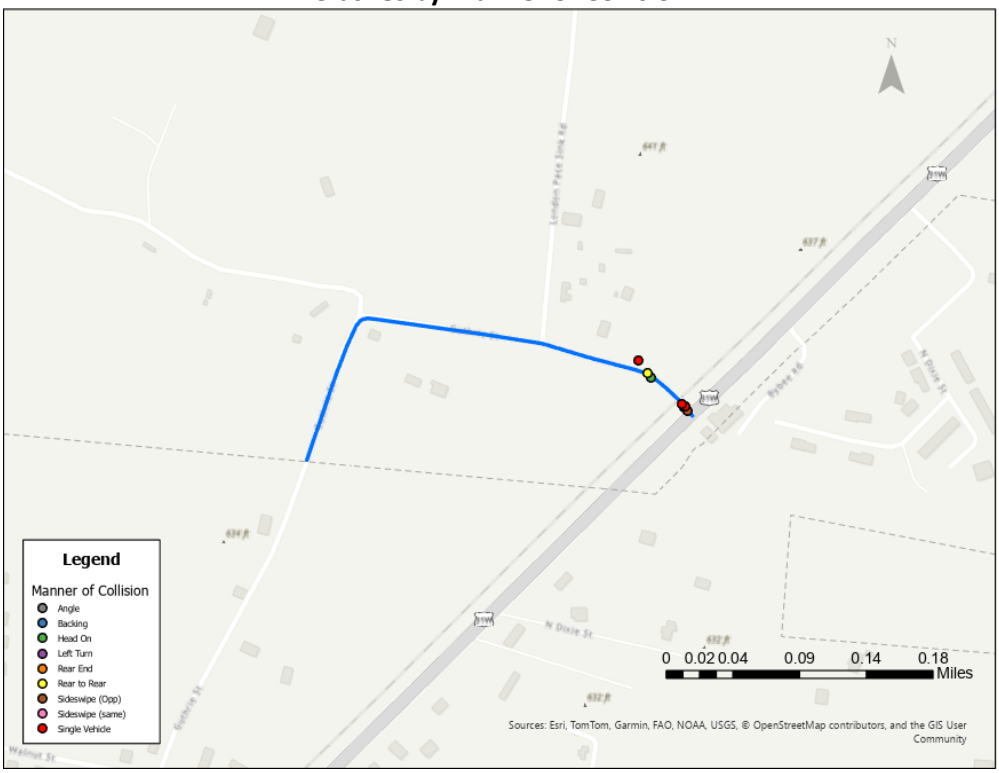
Roadway Typical Section



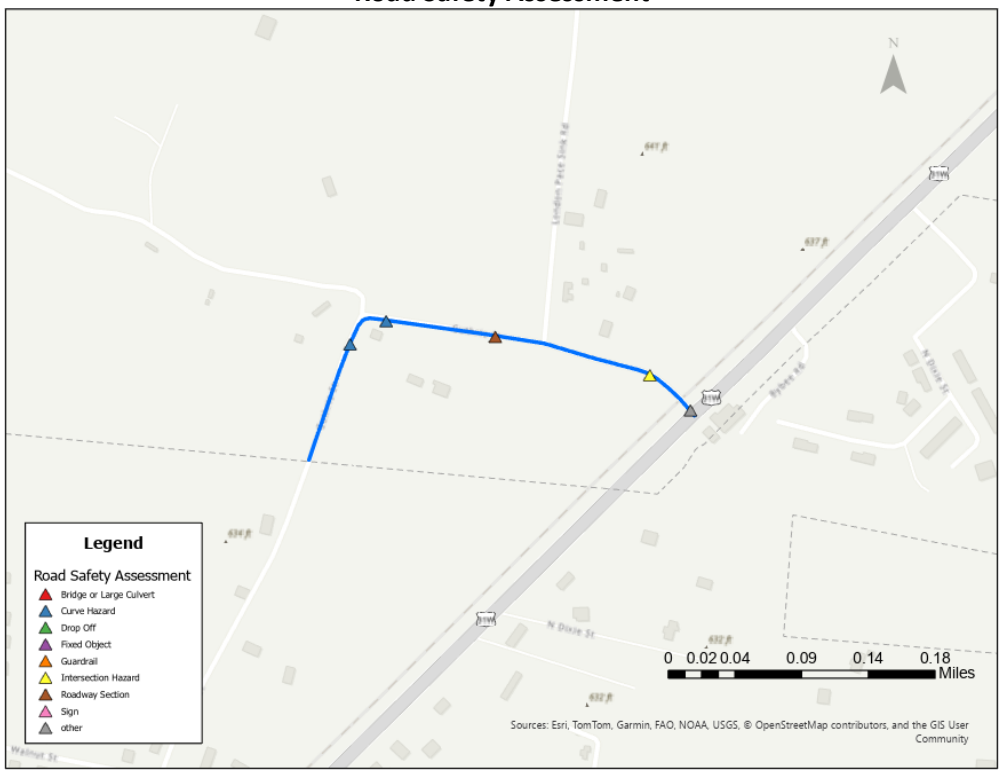
Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment



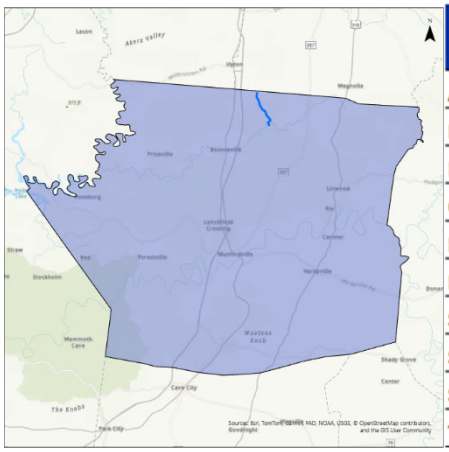
General Recommendations

Point ID	RT_UNIQUE	Road Name	Pvmt Width (ft	Pavement Conditi	Roadside Hazard Rating	Shoulder Improve	Additional Comments	Improve Should	Edgeline[1]	Curve Signin	Other Recommendations
5323	050-CR-1253 -000	GUTHRIE ST	12	2	2	0-20			✓	✓	Resurface

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Recommendation	
5326	050-CR-1253 -000	GUTHRIE ST	Intersection	No	Intersection_Obscured_on_Approa, other	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Comments**	**Recommendation**
5324	050-CR-1253 -000	GUTHRIE ST	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5325	050-CR-1253 -000	GUTHRIE ST	Curve Hazard	No	Intersection_in_Curve,Curve_Obscured	Install advance curve signing and chevrons
Point ID	**RT_UNIQUE**	**RD_NAME**	**Issue Type**	**--**	**Description**	**Recommendation**
5322	050-CR-1253 -000	GUTHRIE ST	Other	0	Railroad crossing	Install "RR Crossing" Sign

WABASH RD(050-CR-1058 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	0	0	0	**0**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	0	0	0	**0**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	0	0	0	**0**
Total	**0**	**0**	**0**	**0**

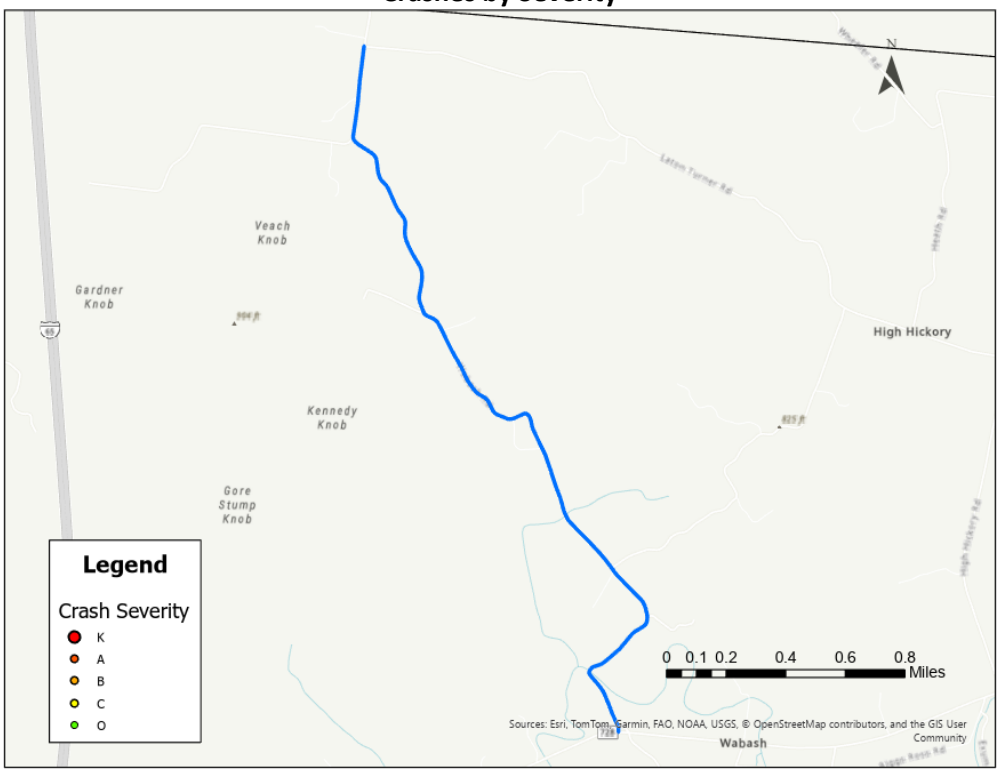
General Roadway Conditions

RT_UNIQUE	Road Name	Pvmt Width (f	Pavement Conditi	Roadside Hazard Rating	Shoulder Improve
050-CR-1058 -000	WABASH RD	15	3	3	20-40

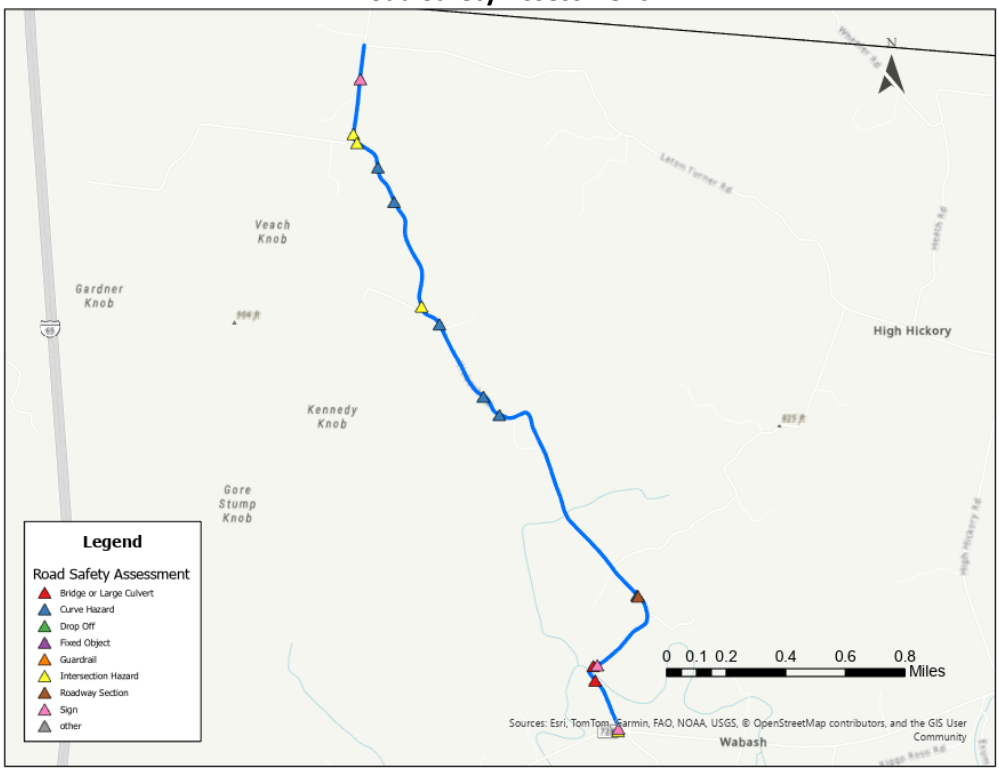
Roadway Typical Section



Crashes by Severity



Road Safety Assessment



General Recommendations

Point ID	RT_UNIQUE	Road Name	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve	Additional Comments	Improve Shoulder	Edgeline[1]	Curve Signing
5316	050-CR-1058 -000	WABASH RD	15	3	3	20-40			✓	✓

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Recommendation	
5306	050-CR-1058 -000	WABASH RD	Intersection	No	Intersection_Skew	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5308	050-CR-1058 -000	WABASH RD	Intersection	No	Intersection_Skew	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5313	050-CR-1058 -000	WABASH RD	Intersection	No	other; End of road, no issue	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5320	050-CR-1058 -000	WABASH RD	Intersection	No	Intersection_Skew	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Bridge Width**	**OM Present**	**Recommendation**
5312	050-CR-1058 -000	WABASH RD	Bridge or Large Culvert	15	2	Evaluate the need for guardrail on missing approaches. Type 3 Object Markers may be installed or serve as a Temporary measure.
5315	050-CR-1058 -000	WABASH RD	Bridge or Large Culvert	15	4	Evaluate the need for guardrail on missing approaches. Type 3 Object Markers may be installed or serve as a Temporary measure.
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Comments**	**Recommendation**
5307	050-CR-1058 -000	WABASH RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5309	050-CR-1058 -000	WABASH RD	Curve Hazard	No	Curve_Obscured,other	Install advance curve signing and chevrons
5310	050-CR-1058 -000	WABASH RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5317	050-CR-1058 -000	WABASH RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5318	050-CR-1058 -000	WABASH RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5319	050-CR-1058 -000	WABASH RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons

Other Roadways

General Roadway Conditions and Recommendations (Hart County)

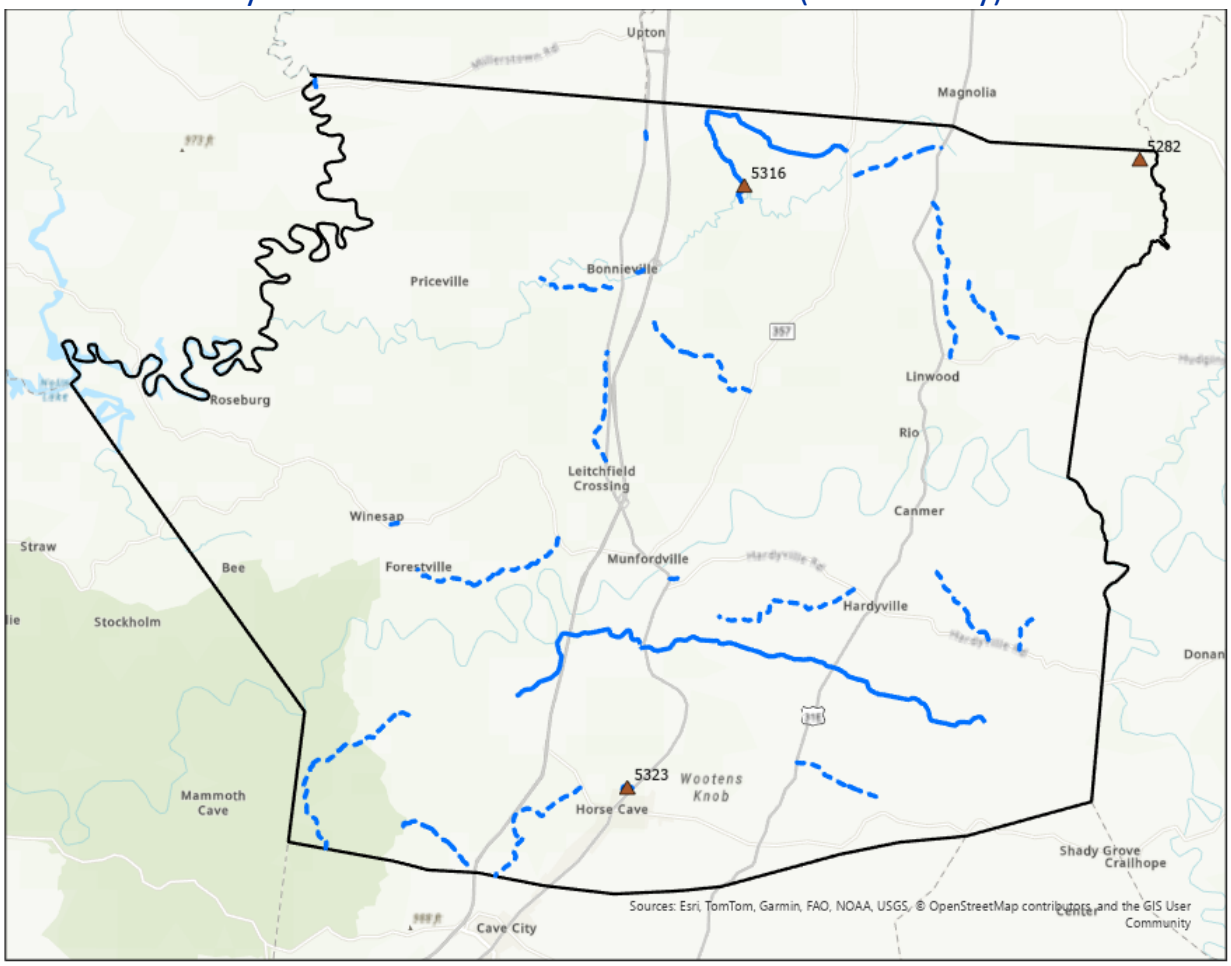


Exhibit Hart-10: General Roadway Conditions

Point ID	RT_UNIQUE	Road Name	Pvmt Width (f	Pavement Conditi	Roadside Hazard Rating	Shoulder Improve	Additional Comments	Improve Should	Edgeline	Curve Signin	Other Recommendations
5282	050-CR-1045 -000	MAGNOLIA GAS STORAGE RD	10	2	5	40-60	Very narrow, windy road, very little shoulder room, used for gas infrastructure access	✓	✓	✓	Resurface
5316	050-CR-1058 -000	WABASH RD	15	3	3	20-40			✓	✓	
5323	050-CR-1253 -000	GUTHRIE ST	12	2	2	0-20			✓	✓	Resurface

Exhibit Hart-11: General Roadway Recommendations

Bridge / Culvert Recommendations (Hart County)

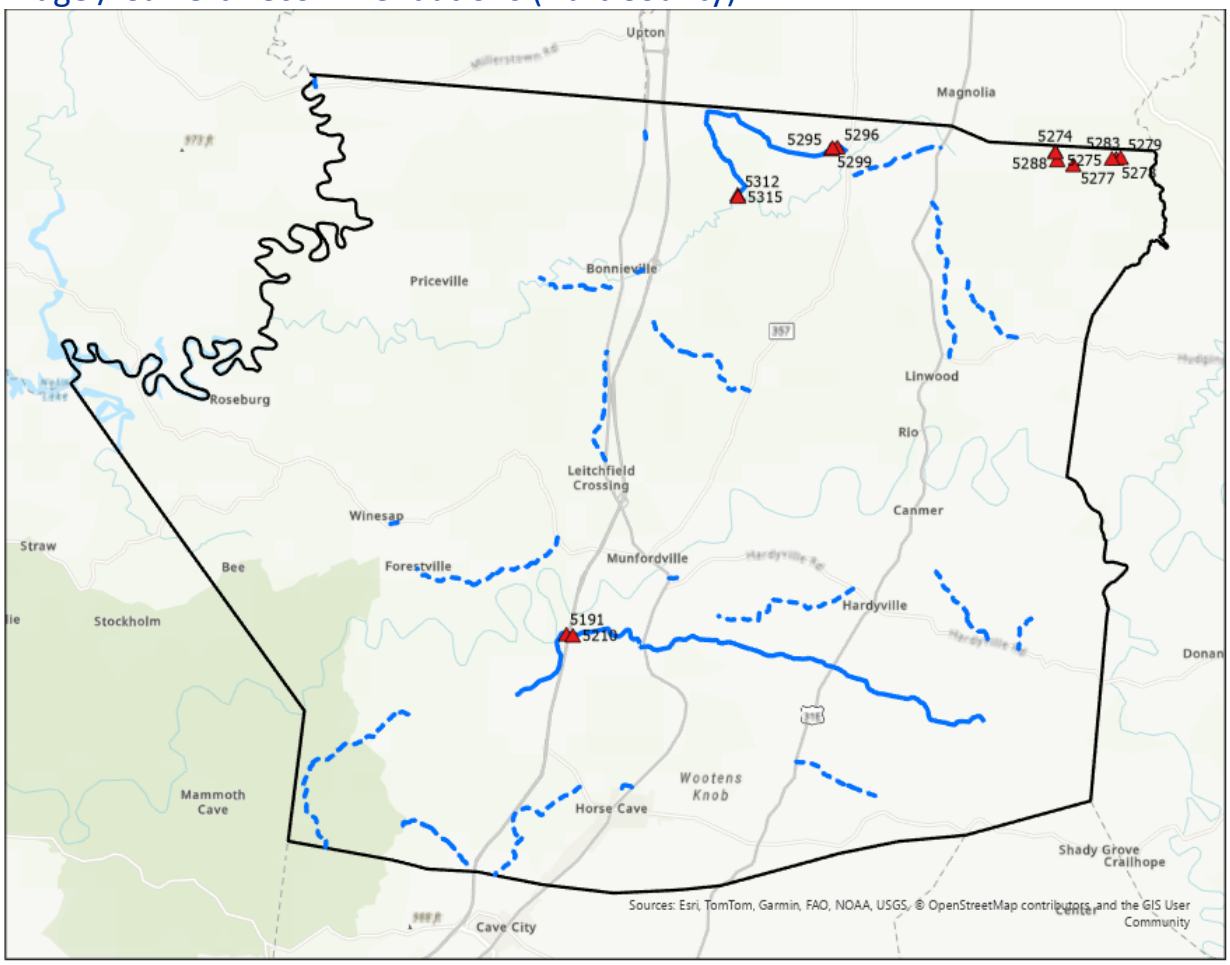


Exhibit Hart-12: Bridge / Culvert Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Bridge Width	Guardrail Present	OM Present	Recommendation
5191	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Bridge or Large Culvert	20	4	0	Install Type 3 Object Markers where missing.
5210	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Bridge or Large Culvert	20	4	0	Install Type 3 Object Markers where missing.
5274	050-CR-1045 -000	MAGNOLIA GAS STORAGE RD	Bridge or Large Culvert	15	0	4	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5275	050-CR-1045 -000	MAGNOLIA GAS STORAGE RD	Bridge or Large Culvert	15	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5277	050-CR-1045 -000	MAGNOLIA GAS STORAGE RD	Bridge or Large Culvert	15	4	4	Install "One Lane Bridge" (W5-1) Sign.
5278	050-CR-1045 -000	MAGNOLIA GAS STORAGE RD	Bridge or Large Culvert	10	0	1	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5279	050-CR-1045 -000	MAGNOLIA GAS STORAGE RD	Bridge or Large Culvert	10	0	1	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5283	050-CR-1045 -000	MAGNOLIA GAS STORAGE RD	Bridge or Large Culvert	10	0	1	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5288	050-CR-1045 -000	MAGNOLIA GAS STORAGE RD	Bridge or Large Culvert	15	0	4	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5295	050-CR-1057 -000	LATON TURNER RD	Bridge or Large Culvert	15	0	3	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5296	050-CR-1057 -000	LATON TURNER RD	Bridge or Large Culvert	15	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5299	050-CR-1057 -000	LATON TURNER RD	Bridge or Large Culvert	15	0	4	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5312	050-CR-1058 -000	WABASH RD	Bridge or Large Culvert	15	3	2	Evaluate the need for guardrail on missing approaches. Type 3 Object Markers may be installed or serve as a temporary measure; Install advanced curve warning sign on approach.
5315	050-CR-1058 -000	WABASH RD	Bridge or Large Culvert	15	3	4	Evaluate the need for guardrail on missing approaches. Type 3 Object Markers may be installed or serve as a Temporary measure.

Exhibit Hart-13: Bridge / Culvert Recommendations

Curve Recommendations (Hart County)

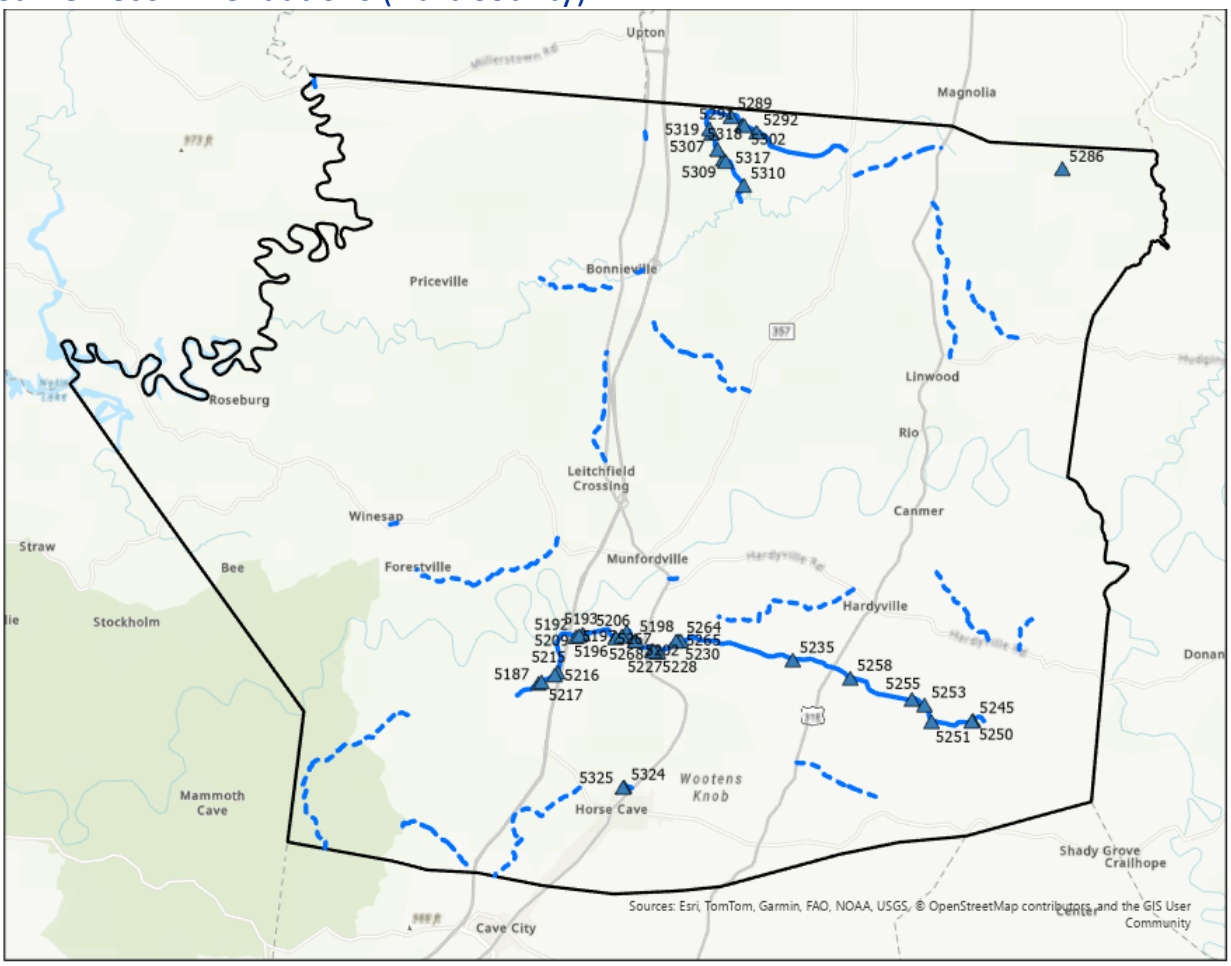


Exhibit Hart-14: Focus Road Curves

Point ID	RT_UNIQUE	Road Name	Issue Type	Comments	Vegetation	Recommendation
5187	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5192	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5193	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
5196	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5197	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5198	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5202	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5206	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5209	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5215	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5216	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5217	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5227	050-CR-1181 -000	BUNNELL CROSSING RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5228	050-CR-1181 -000	BUNNELL CROSSING RD	Curve Hazard	Intersection_in_Curve	No	Install advance curve signing and chevrons
5230	050-CR-1181 -000	BUNNELL CROSSING RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5235	050-CR-1181 -000	BUNNELL CROSSING RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5245	050-CR-1181 -000	BUNNELL CROSSING RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5250	050-CR-1181 -000	BUNNELL CROSSING RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5251	050-CR-1181 -000	BUNNELL CROSSING RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5253	050-CR-1181 -000	BUNNELL CROSSING RD	Curve Hazard	Curve_Obscured,Intersection_in_Curve	No	Install advance curve signing and chevrons
5255	050-CR-1181 -000	BUNNELL CROSSING RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5258	050-CR-1181 -000	BUNNELL CROSSING RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
5264	050-CR-1181 -000	BUNNELL CROSSING RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5265	050-CR-1181 -000	BUNNELL CROSSING RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5267	050-CR-1181 -000	BUNNELL CROSSING RD	Curve Hazard	Curve_Obscured,Intersection_in_Curve	No	Install advance curve signing and chevrons
5268	050-CR-1181 -000	BUNNELL CROSSING RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5286	050-CR-1045 -000	MAGNOLIA GAS STORAGE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5289	050-CR-1057 -000	LATON TURNER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5291	050-CR-1057 -000	LATON TURNER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5292	050-CR-1057 -000	LATON TURNER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5302	050-CR-1057 -000	LATON TURNER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5307	050-CR-1058 -000	WABASH RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5309	050-CR-1058 -000	WABASH RD	Curve Hazard	Curve_Obscured,other	No	Install advance curve signing and chevrons
5310	050-CR-1058 -000	WABASH RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5317	050-CR-1058 -000	WABASH RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5318	050-CR-1058 -000	WABASH RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5319	050-CR-1058 -000	WABASH RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5324	050-CR-1253 -000	GUTHRIE ST	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5325	050-CR-1253 -000	GUTHRIE ST	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection

Page 1

Exhibit Hart-15: Curve Recommendations

Roadside Drop Off Recommendations (Hart County)

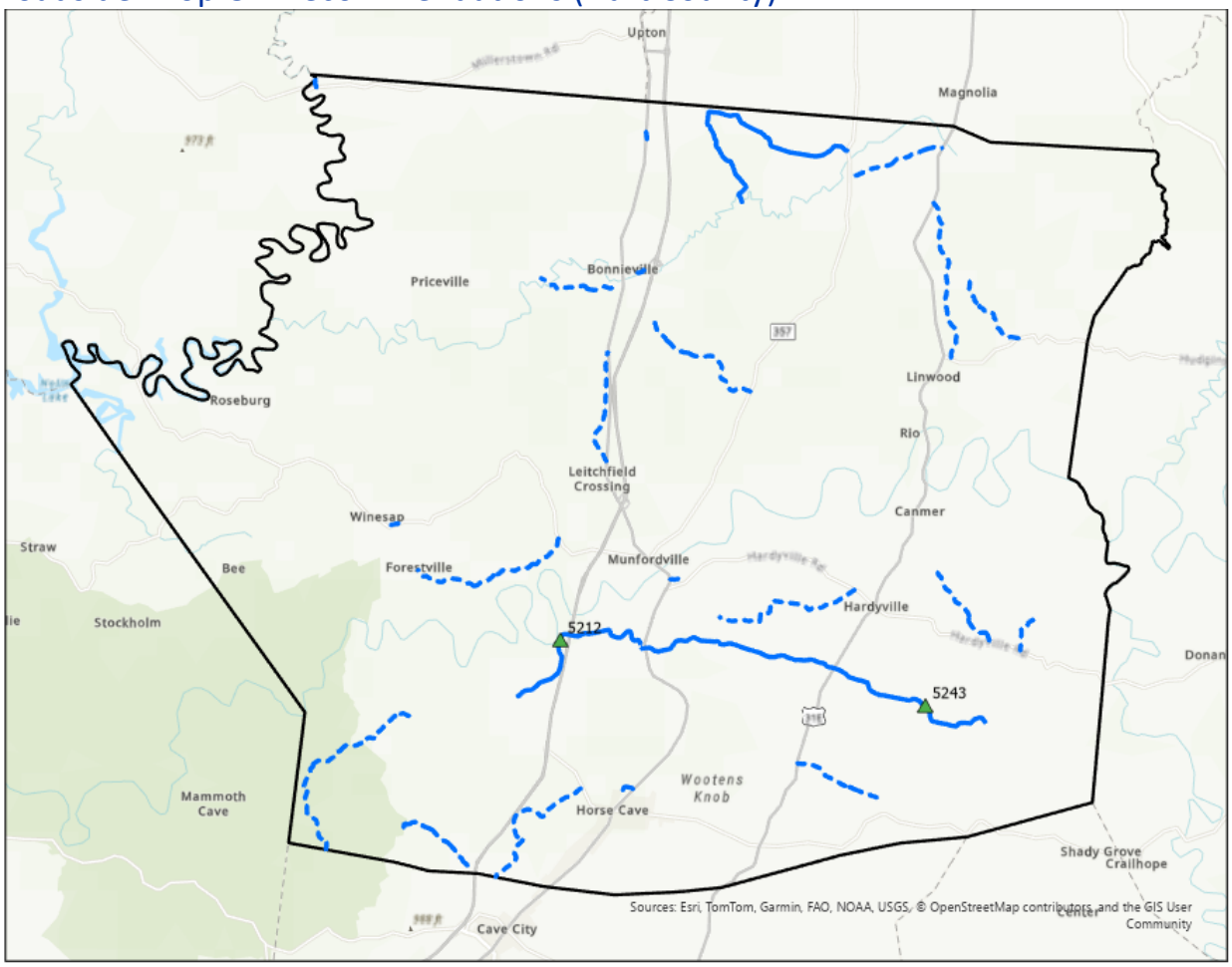


Exhibit Hart-16: Roadside Drop Off Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Drop Off Offset	Drop Off Height	Additional Comments	Recommendation
5212	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Drop Off	3-5	>10		Evaluate roadway width, curvature and grade at drop off compared to other locations in county to evaluate need for guardrail
5243	050-CR-1181 -000	BUNNELL CROSSING RD	Drop Off	>5	>10		--

Exhibit Hart-17: Roadside Drop Off Recommendations

Fixed Object Recommendations (Hart County)

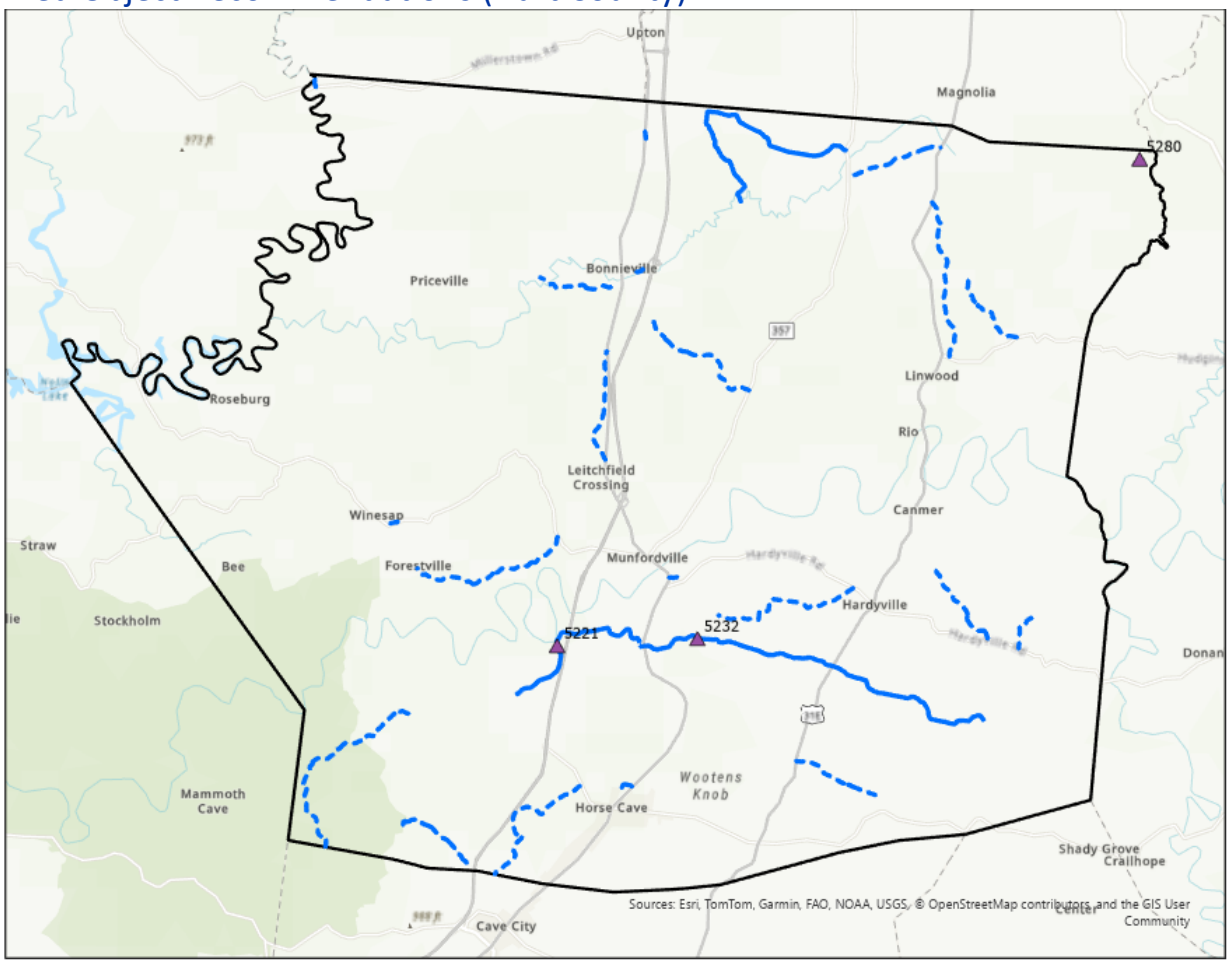


Exhibit Hart-18: Fixed Object Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Object	Single / Series	Offset	Recommendation
5221	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Fixed Object	other; Utility marker	Single	1-3	Install Type 2 Object Marker
5232	050-CR-1181 -000	BUNNELL CROSSING RD	Fixed Object	Tree	Series	3-5	Remove if possible
5280	050-CR-1045 -000	MAGNOLIA GAS STORAGE RD	Fixed Object	other; Gas infrastructure	Single	3-5	Install Type 2 Object Marker

Exhibit Hart-19: Fixed Object Recommendations

Guardrail Recommendations (Hart County)

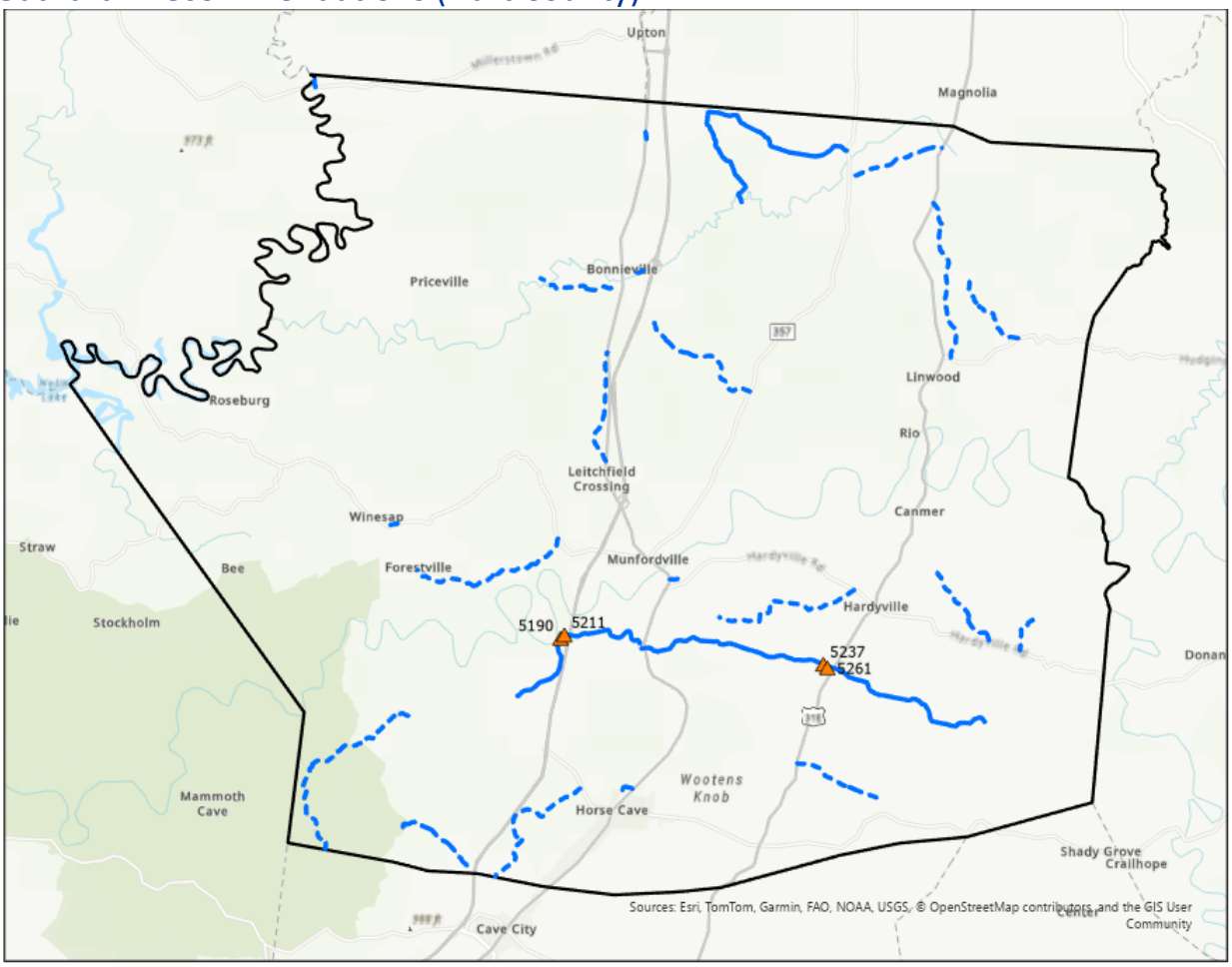


Exhibit Hart-20: Guardrail Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Condition	Meet Warrant	End Treatmen	Recommendation
5190	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Guardrail	Fair	Yes	All_	--
5211	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Guardrail	Fair	Yes	All_	--
5237	050-CR-1181 -000	BUNNELL CROSSING RD	Guardrail	Good	Yes	All_	--
5261	050-CR-1181 -000	BUNNELL CROSSING RD	Guardrail	Good	Yes	All_	--

Exhibit Hart-21: Guardrail Recommendations

Intersection Recommendations (Hart County)

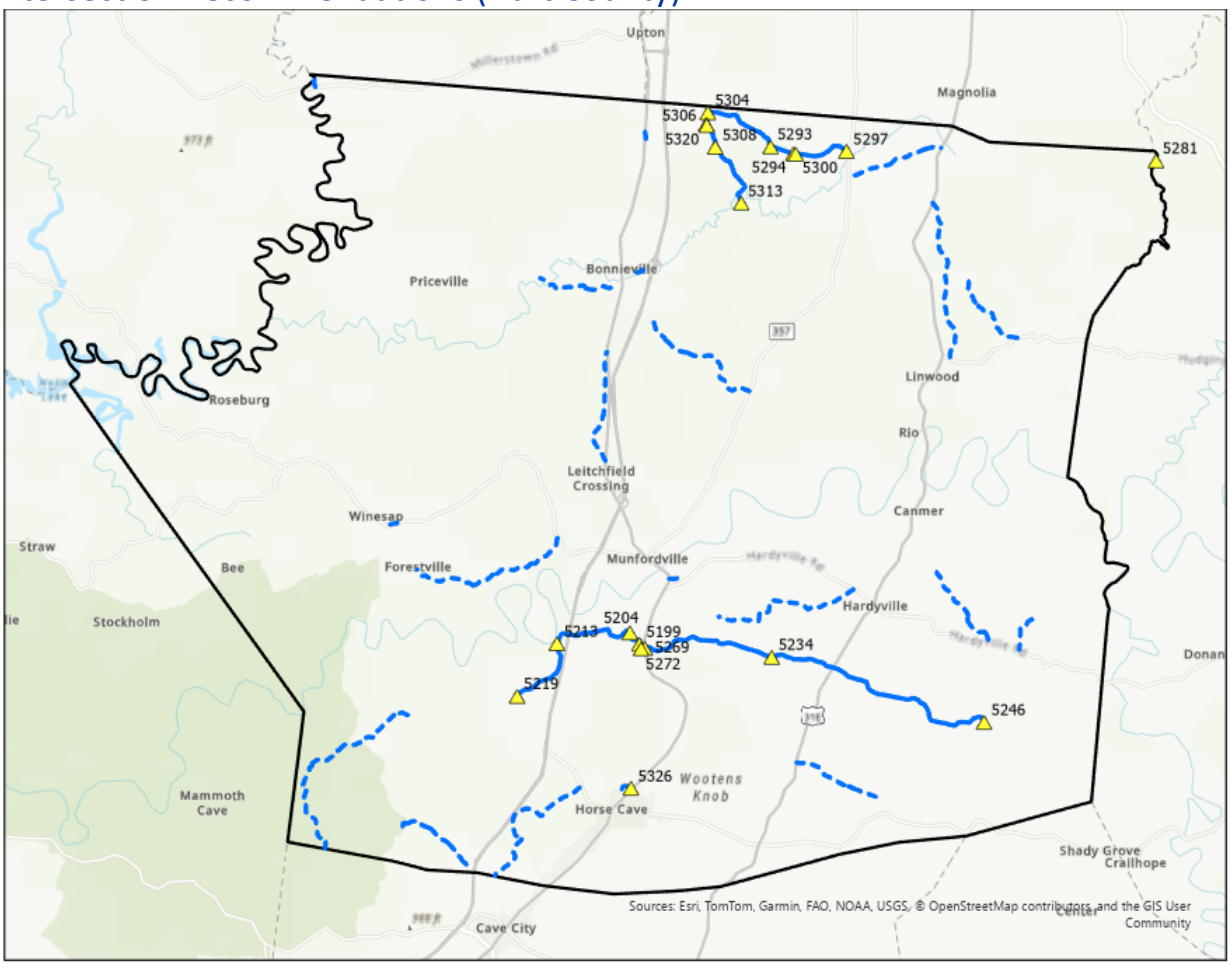


Exhibit Hart-22: Intersection Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Comments	Recommendations
5199	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Intersection	No	other; No issue end of roadway	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5204	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Intersection	No	Intersection_Skew	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5213	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Intersection	No	Intersection_Obscured_on_Approa	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5219	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Intersection	No	Intersection_Skew	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5234	050-CR-1181 -000	BUNNELL CROSSING RD	Intersection	No	Intersection_Obscured_on_Approa	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5246	050-CR-1181 -000	BUNNELL CROSSING RD	Intersection	No	other; End of road, no issue	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5269	050-CR-1181 -000	BUNNELL CROSSING RD	Intersection	No	other; Busy highway	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5272	050-CR-1181 -000	BUNNELL CROSSING RD	Intersection	No	other; End of road	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5281	050-CR-1045 -000	MAGNOLIA GAS STORAGE RD	Intersection	No	Intersection_Skew	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5293	050-CR-1057 -000	LATON TURNER RD	Intersection	No	Intersection_Obscured_on_Approa,Intersection_Skew	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5294	050-CR-1057 -000	LATON TURNER RD	Intersection	No	Intersection_Skew,Intersection_Obscured_on_Approa	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5297	050-CR-1057 -000	LATON TURNER RD	Intersection	No	other; End of road	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5300	050-CR-1057 -000	LATON TURNER RD	Intersection	No	Intersection_Skew	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5304	050-CR-1057 -000	LATON TURNER RD	Intersection	No	other; End of road	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5306	050-CR-1058 -000	WABASH RD	Intersection	No	Intersection_Skew	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5308	050-CR-1058 -000	WABASH RD	Intersection	No	Intersection_Skew	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5313	050-CR-1058 -000	WABASH RD	Intersection	No	other; End of road, no issue	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5320	050-CR-1058 -000	WABASH RD	Intersection	No	Intersection_Skew	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5326	050-CR-1253 -000	GUTHRIE ST	Intersection	No	Intersection_Obscured_on_Approa,other	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs

Exhibit Hart-23: Intersection Recommendations

Other Recommendations (Hart County)

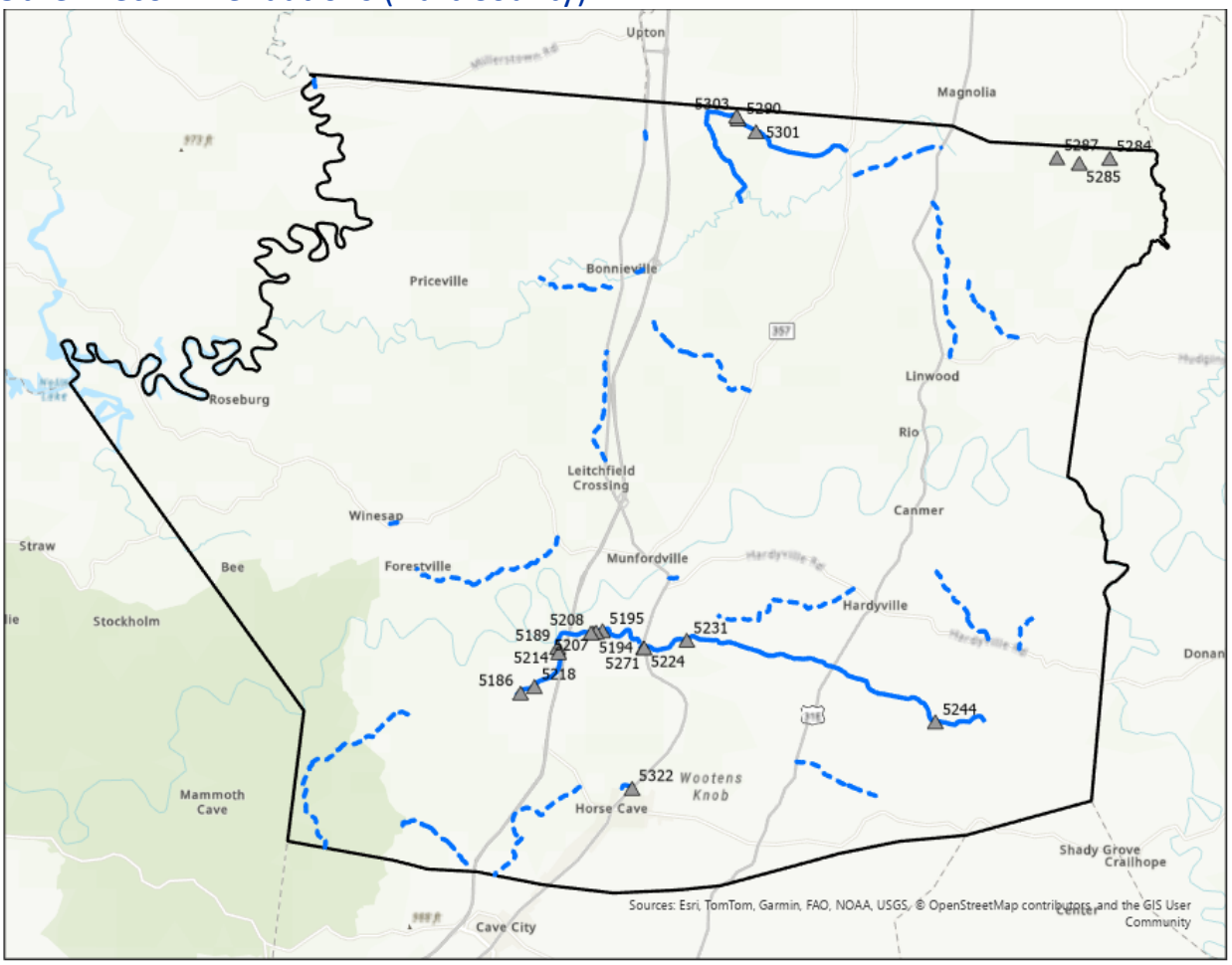


Exhibit Hart-24: Other Item Locations

Point ID	RT_UNIQUE	RD_NAME	Issue Type			Description	Recommendation
5186	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Other			Hill	Install "Hill Blocks Sight Distance" Sign.
5189	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Other			Hill	Install "Hill Blocks Sight Distance" Sign.
5194	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Other			Hill	Install "Hill Blocks Sight Distance" Sign.
5195	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Other			Hill	Install "Hill Blocks Sight Distance" Sign.
5207	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Other			Hill	Install "Hill Blocks Sight Distance" Sign.
5208	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Other			Hill	Install "Hill Blocks Sight Distance" Sign.
5214	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Other			Hill	Install "Hill Blocks Sight Distance" Sign.
5218	050-CR-1238 -000	ROWLETTS CAVE SPRINGS RD	Other			Hill	Install "Hill Blocks Sight Distance" Sign.
5224	050-CR-1181 -000	BUNNELL CROSSING RD	Other			Railroad crossing	Install "RR Crossing" Sign
5231	050-CR-1181 -000	BUNNELL CROSSING RD	Other			Large hill	Install "Hill Blocks Sight Distance" Sign.
5244	050-CR-1181 -000	BUNNELL CROSSING RD	Other			Hill	Install "Hill Blocks Sight Distance" Sign.
5271	050-CR-1181 -000	BUNNELL CROSSING RD	Other			Railroad crossing	Install "RR Crossing" Sign
5284	050-CR-1045 -000	MAGNOLIA GAS STORAGE RD	Other			Hill	Install "Hill Blocks Sight Distance" Sign.
5285	050-CR-1045 -000	MAGNOLIA GAS STORAGE RD	Other			Hill	Install "Hill Blocks Sight Distance" Sign.
5287	050-CR-1045 -000	MAGNOLIA GAS STORAGE RD	Other			No shoulder room	--
5290	050-CR-1057 -000	LATON TURNER RD	Other			Hill	Install "Hill Blocks Sight Distance" Sign.
5301	050-CR-1057 -000	LATON TURNER RD	Other			Hill	Install "Hill Blocks Sight Distance" Sign.
5303	050-CR-1057 -000	LATON TURNER RD	Other			Big pothole	Repair Pothole
5322	050-CR-1253 -000	GUTHRIE ST	Other			Railroad crossing	Install "RR Crossing" Sign

Exhibit Hart-25: Other Item Recommendations

Signing Recommendations (Hart County)

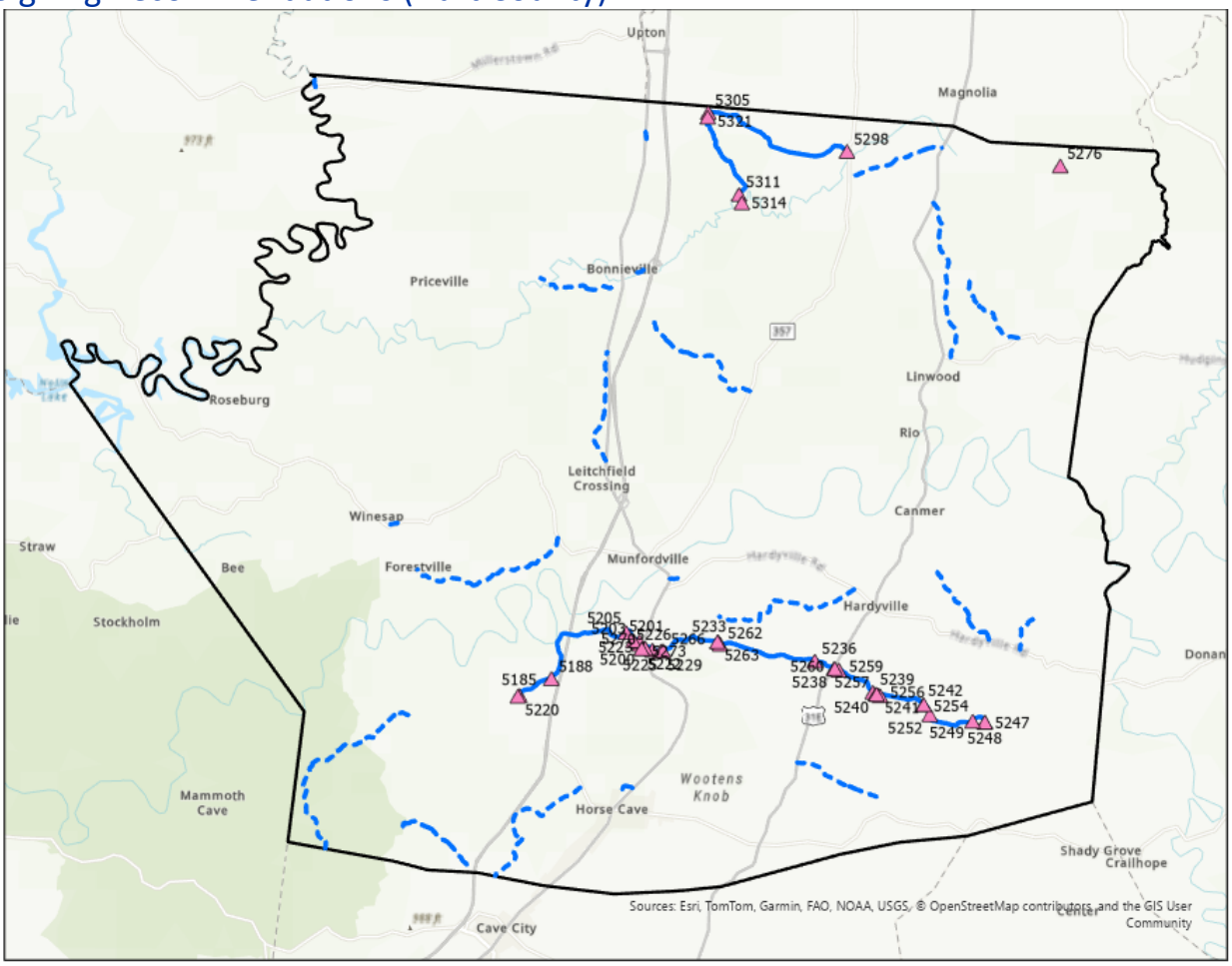


Exhibit Hart-26: Sign Locations

As part of the RSA data collection effort, existing signs were inventoried along reviewed Focus Roadways, including a condition assessment and a photo of each sign. Additionally, preliminary Advisory Speed recommendations were calculated for each focus roadway to assist in the installation of horizontal alignment (curve) signs. Signing and advisory speed information is provided in digital format at https://kyt2.uky.edu/braddSAP.

APPENDIX I: LOGAN COUNTY SAFETY ACTION PLAN

Logan County Overview

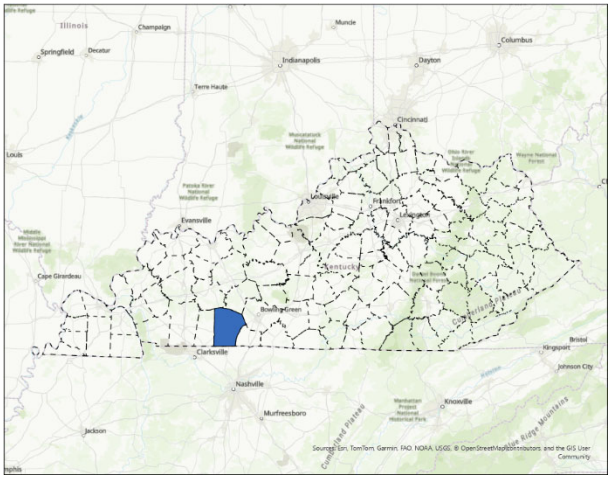


Exhibit Logan-1: Location Map

Key Information Table Logan County	
Population	28,283
Population in Persistent Poverty	20%
Underserved Community	**No**
Fatalities (All Roads)	31
Fatalities (County Roads)	3
Fatality Rate per 100,000 persons	**109.61**
County Road Mileage	499.1
State Road Mileage	367.9
Total Mileage	**867.1**

Exhibit Logan-2: Key Information

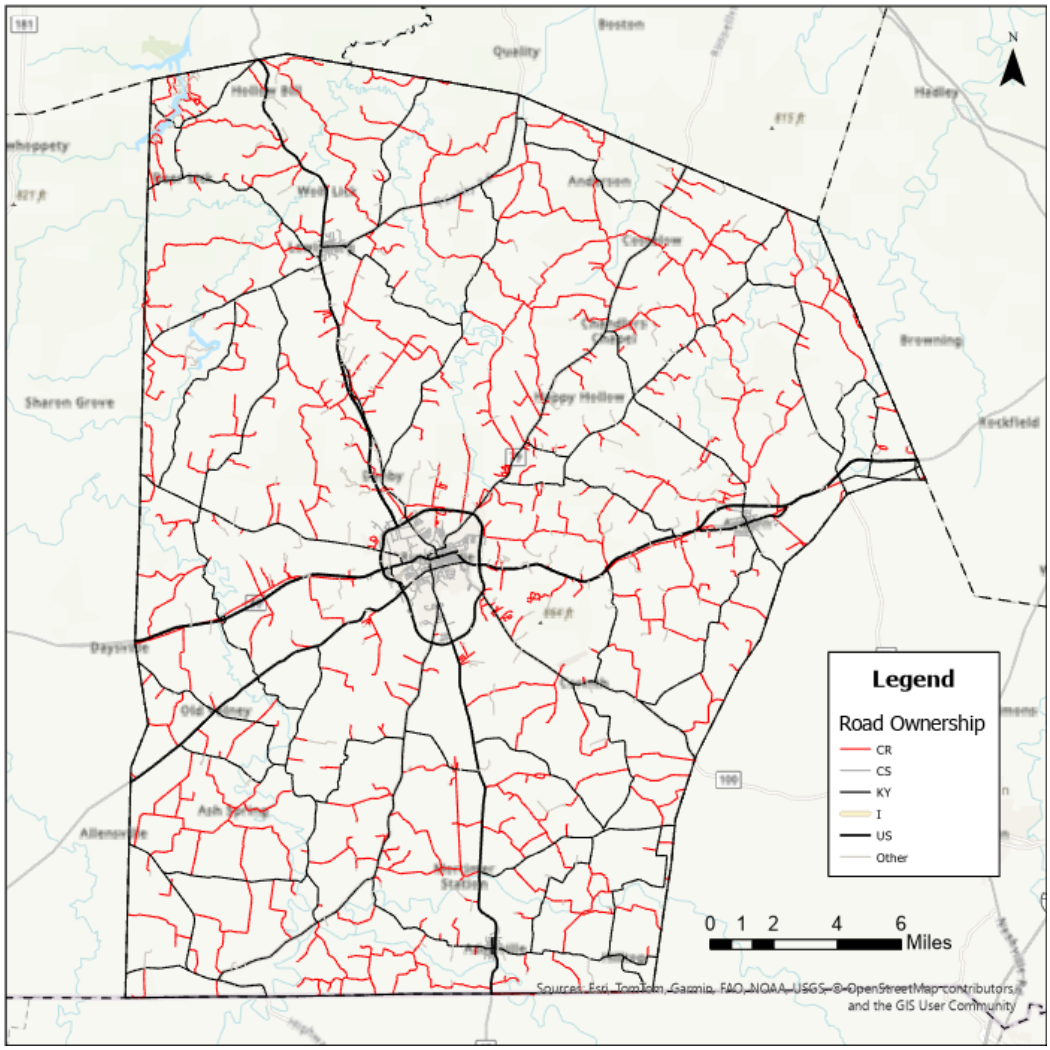


Figure Logan-3: Map of County Roadways

Crash Analysis

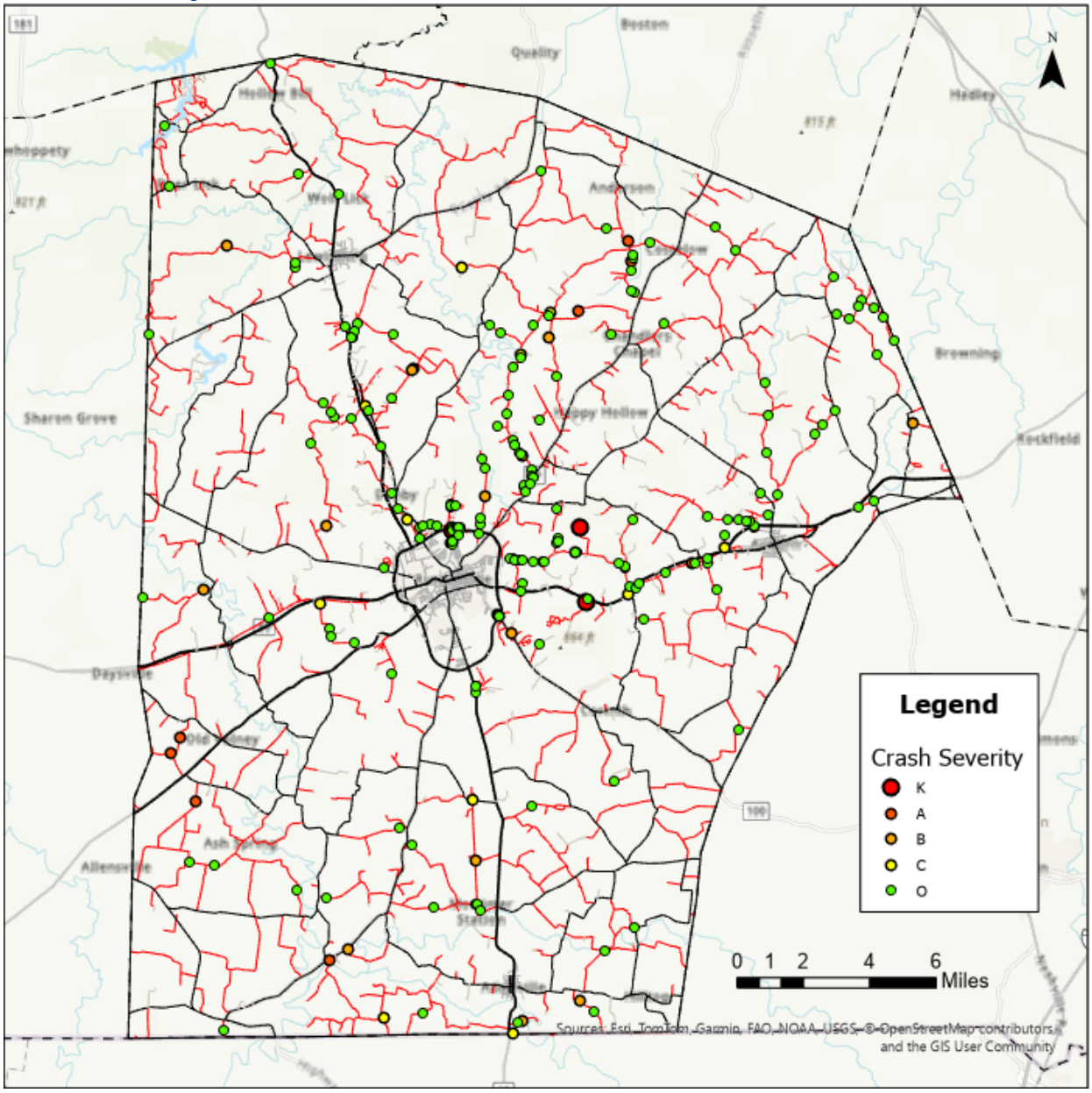
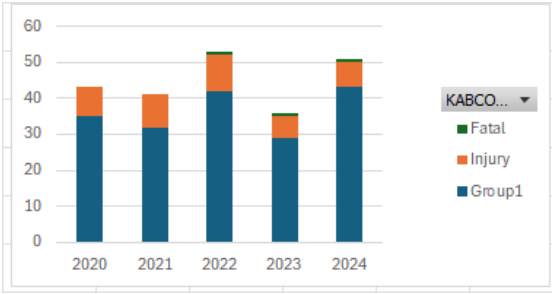


Figure Logan-4: Map of County Road Crashes



Year	Prop. Damage Only	Injury	Fatal	Total
2020	35	8	0	**43**
2021	32	9	0	**41**
2022	42	10	1	**53**
2023	29	6	1	**36**
2024	43	7	1	**51**

Table Logan-5: Crash Distribution by Year

Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	12	4	0	**16**
BACKING	13	0	0	**13**
HEAD ON	7	2	0	**9**
OPPOSING LEFT TURN	2	0	1	**3**
REAR END	5	0	0	**5**
REAR TO REAR	1	0	0	**1**
SIDESWIPE-OPPOSITE	33	3	0	**36**
SIDESWIPE-SAME DIR	5	0	0	**5**
SINGLE VEHICLE	103	31	2	**136**

Exhibit Logan-6: Crash Frequency and Severity by Manner of Collision

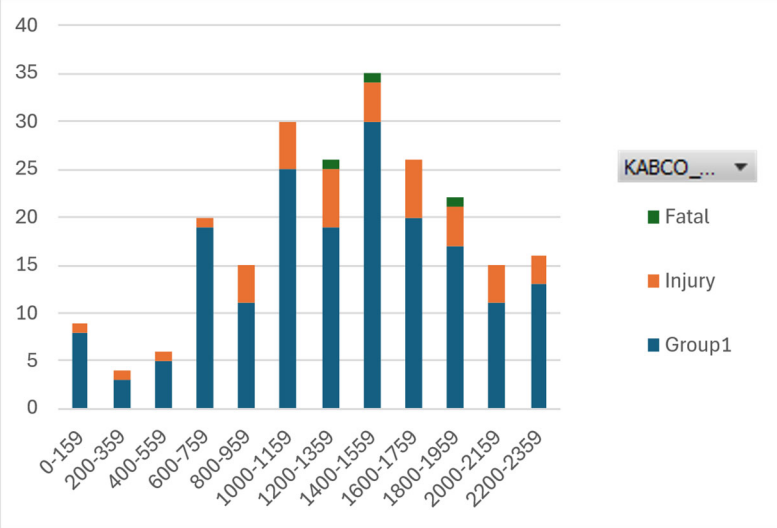


Exhibit Logan-7: Crashes and Severity by Time of Day

Focus Roadways

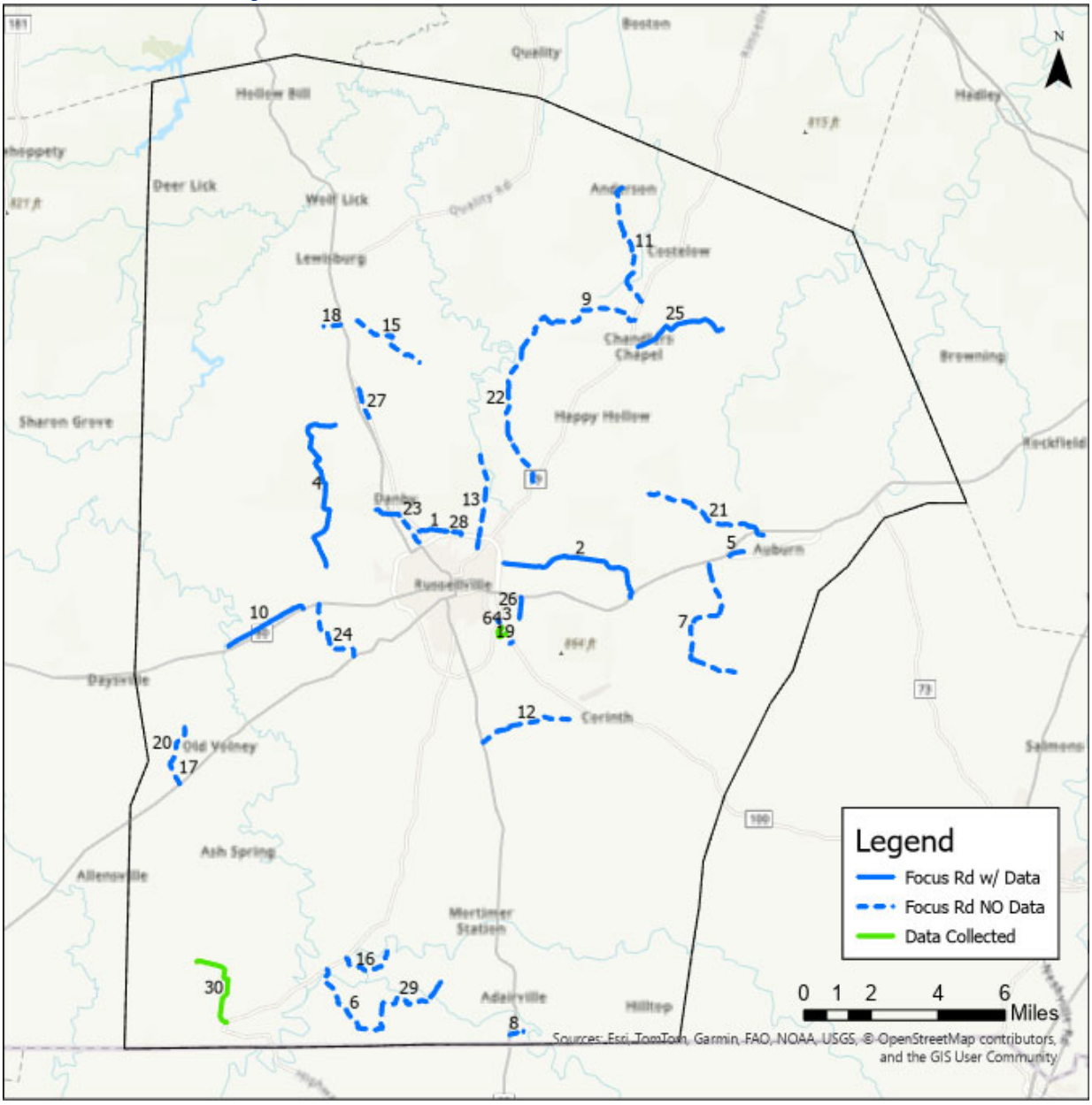


Exhibit Logan-8: Focus Roads

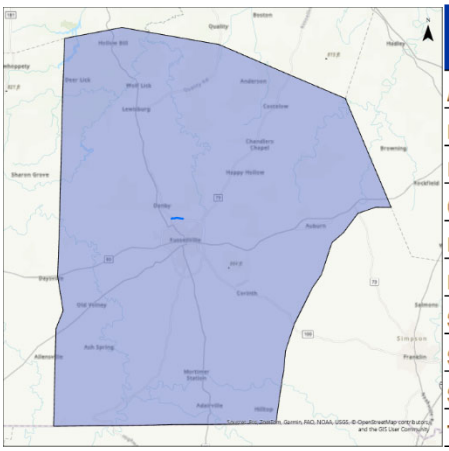
RT_UNIQUE	Length	County	Road Name	Injury Crash	Fatal Crash	PDO	Crash Score	Use Score	Rank	Focus Rd	Data
Logan											
071-CR-1334 -000	0.89	Logan	CATES BY PASS RD	1	1	2	2.07	3.66	1	1	1
071-CR-1118 -000	4.80	Logan	STEVENSON MILL RD	2	0	13	3.33	0.71	2	1	1
071-CR-1201 -000	0.10	Logan	FRANKLIN RD	1	1	1	1.99	2.91	3	1	0
071-CR-1429 -000	5.93	Logan	BUENA VISTA RD	2	0	1	2.46	0.33	4	1	1
071-CR-1011 -000	0.47	Logan	PETERSON AVE	2	0	0	2.39	0.17	5	1	1
071-CR-1256 -000	2.98	Logan	DOT RD	1	0	3	1.41	0.55	6	1	0
071-CR-1133 -000	5.02	Logan	MONTGOMERY RD	1	0	3	1.41	0.47	7	1	0
071-CR-1167 -000	0.44	Logan	TRAUGHBER RD	1	0	1	1.27	0.44	8	1	0
071-CR-1086 -000	3.34	Logan	HOMER CHAPEL RD	1	0	1	1.27	0.41	9	1	0
071-CR-1713 -000	2.61	Logan	STEPHANIE RD	1	0	2	1.34	0.22	10	1	1
071-CR-1074 -000	4.03	Logan	SHARP GARDEN RD	1	0	2	1.34	0.16	11	1	0
071-CR-1196 -000	3.05	Logan	ELLIS RD	1	0	1	1.27	0.25	12	1	0
071-CR-1326 -000	2.83	Logan	CONCORD RD	0	0	4	0.29	2.14	13	1	0
071-CR-1169 -000	1.77	Logan	BARNES RD	1	0	1	1.27	0.14	14	1	0
071-CR-1336 -000	2.61	Logan	EDWARDS RD	1	0	0	1.20	0.19	15	1	0
071-CR-1249 -000	1.81	Logan	LOGAN MILL RD	1	0	0	1.20	0.14	16	1	0
071-CR-1285 -000	1.58	Logan	LYNE JOHNSON RD	1	0	0	1.20	0.14	17	1	0
071-CR-1421A -000	0.53	Logan	SKIPWORTH RD	1	0	0	1.20	0.12	18	1	0
071-CR-1212 -000	0.11	Logan	COTTONWOOD DR	1	0	0	1.20	0.06	19	1	0
071-CR-1286 -000	1.30	Logan	COLEMAN RD	1	0	0	1.20	0.04	20	1	0
071-CR-1613 -000	3.96	Logan	CEMETERY RD	0	1	4	1.01	0.27	21	1	0
071-CR-1090 -000	5.59	Logan	HOMER RD	0	0	11	0.80	0.64	22	1	0
071-CR-1433 -000	1.96	Logan	STUART SMOTHERMAN RD	0	1	1	0.80	0.56	23	1	0
071-CR-1301 -000	2.47	Logan	MILTON RILEY RD	0	1	3	0.94	0.23	24	1	0
071-CR-1054 -000	3.08	Logan	TURNER RD	0	1	2	0.87	0.20	25	1	1
071-CR-1120 -000	0.66	Logan	C DODSON LN	0	1	0	0.72	0.43	26	1	1
071-CR-1395 -000	0.94	Logan	RAY WALKER RD	0	1	0	0.72	0.33	27	1	0
071-CR-1328 -000	0.38	Logan	W H BROWN RD	0	0	0	0.00	1.80	28	1	0
071-CR-1253 -000	3.73	Logan	BARREN PLAINS RD	0	1	0	0.72	0.31	29	1	0
071-CR-1265 -000	2.78	Logan	PRENTISS-LAWRENCE RD	0	1	0	0.72	0.15	30	0	1
071-CR-1187 -000	0.63	Logan	CIRCLE DR	0	0	1	0.07	0.30	64	0	1

Exhibit Logan-9: List of Focus Roadways

Recommended Improvements (Top 5 Roads)

CATES BY PASS RD(071-CR-1334 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	0	0	0	**0**
HEAD ON	1	0	0	**1**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	2	0	0	**2**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	1	0	0	**1**
Total	**4**	**0**	**0**	**4**

General Roadway Conditions

Roadway Section Information Not Collected

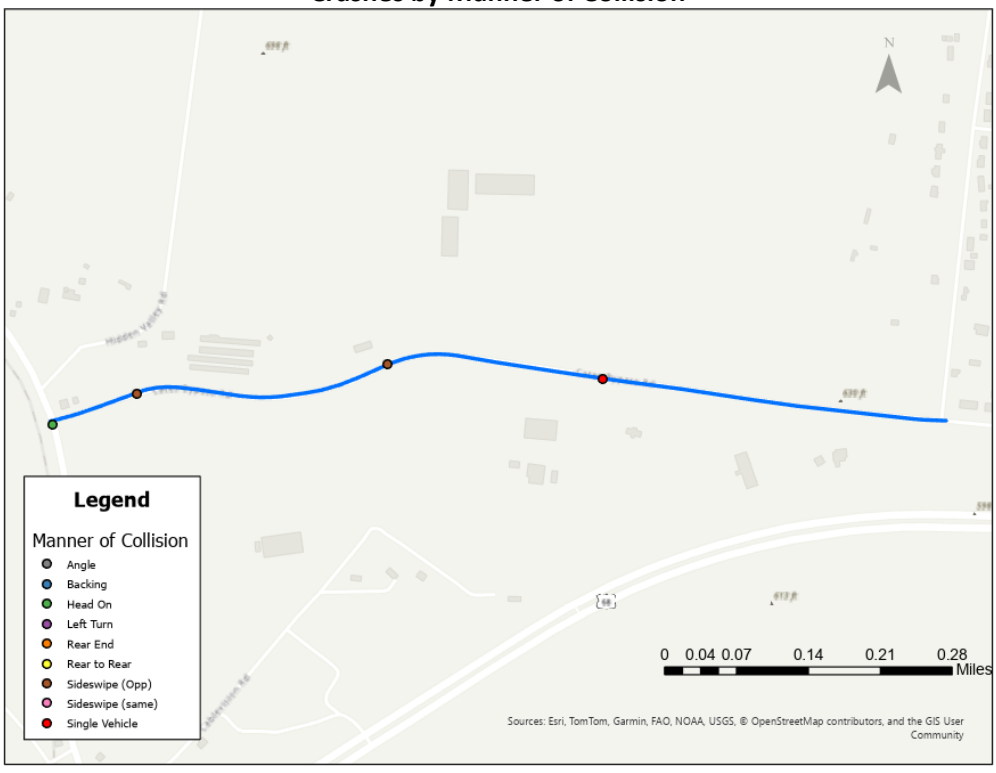
Roadway Typical Section



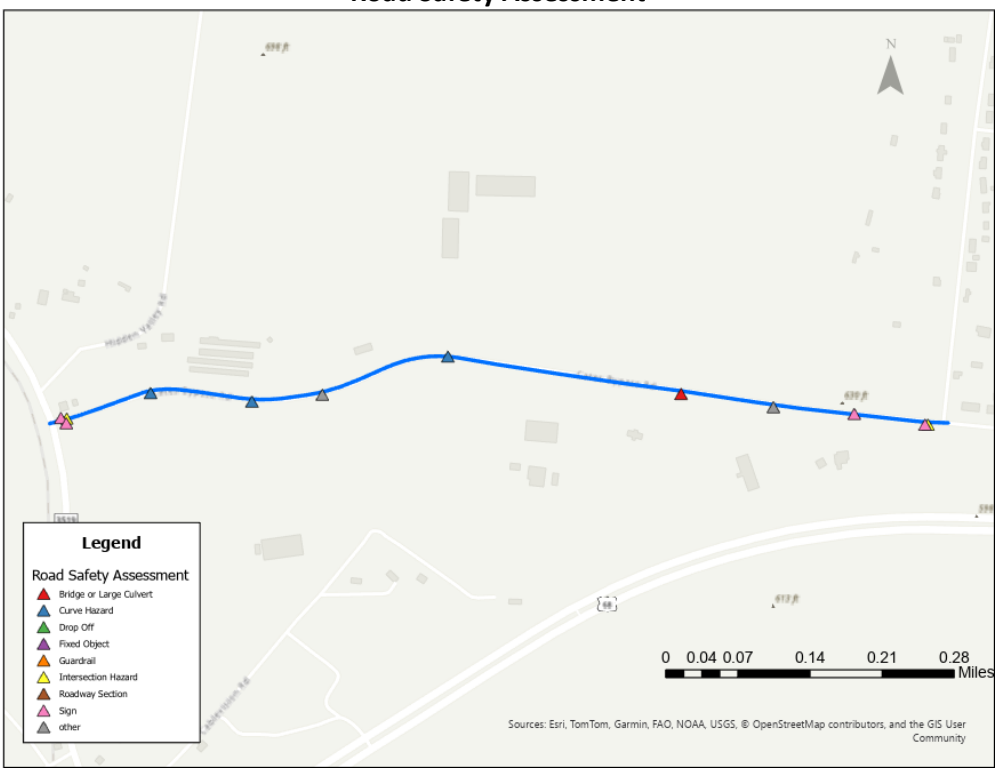
Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment

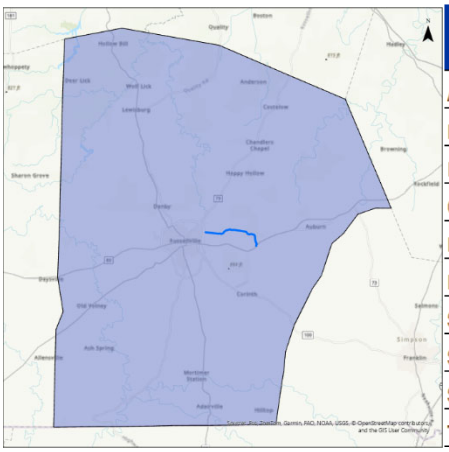


General Recommendations

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Recommendation	
4625	071-CR-1334 -000	CATES BY PASS RD	Intersection	No	other; End of roadway	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
4701	071-CR-1334 -000	CATES BY PASS RD	Intersection	No	other; End of roadway	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Bridge Width**	**OM Present**	**Recommendation**
4702	071-CR-1334 -000	CATES BY PASS RD	Bridge or Large Culvert	15	1	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Comments**	**Recommendation**
4624	071-CR-1334 -000	CATES BY PASS RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
4628	071-CR-1334 -000	CATES BY PASS RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
4629	071-CR-1334 -000	CATES BY PASS RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
Point ID	**RT_UNIQUE**	**RD_NAME**	**Issue Type**	**--**	**Description**	**Recommendation**
4698	071-CR-1334 -000	CATES BY PASS RD	Other	0	Hill	Install "Hill Blocks Sight Distance" Sign.
4699	071-CR-1334 -000	CATES BY PASS RD	Other	0	Hill	Install "Hill Blocks Sight Distance" Sign.

STEVENSON MILL RD(071-CR-1118 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	0	0	0	**0**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	5	0	0	**5**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	9	2	0	**11**
Total	**14**	**2**	**0**	**16**

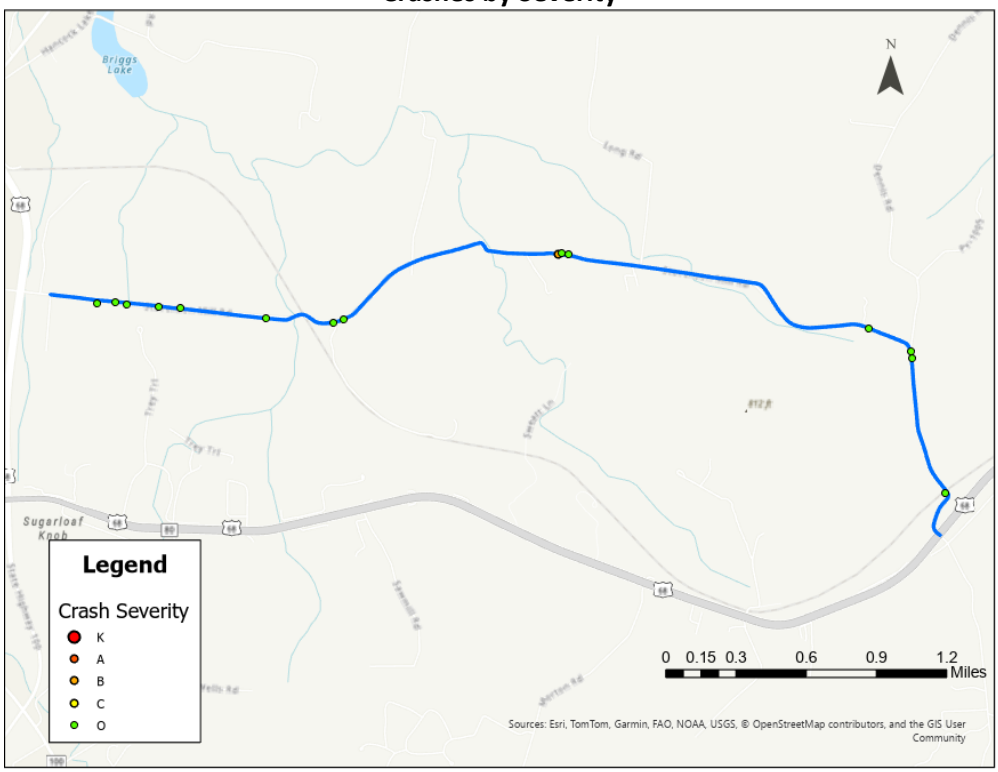
General Roadway Conditions

Roadway Section Information Not Collected

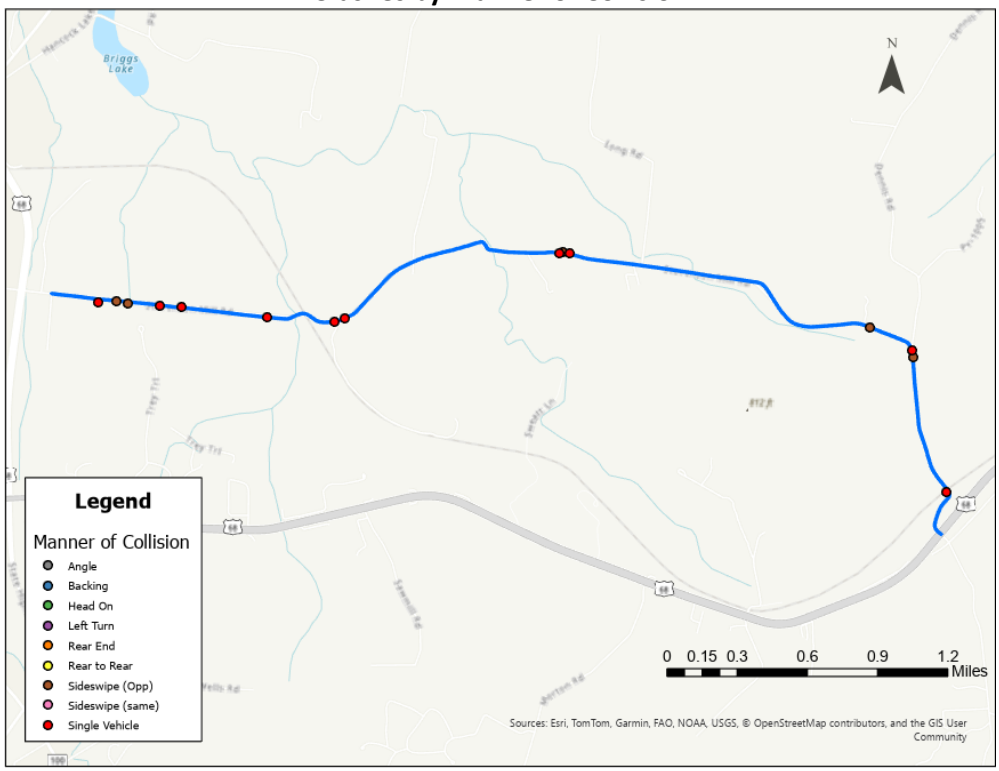
Roadway Typical Section



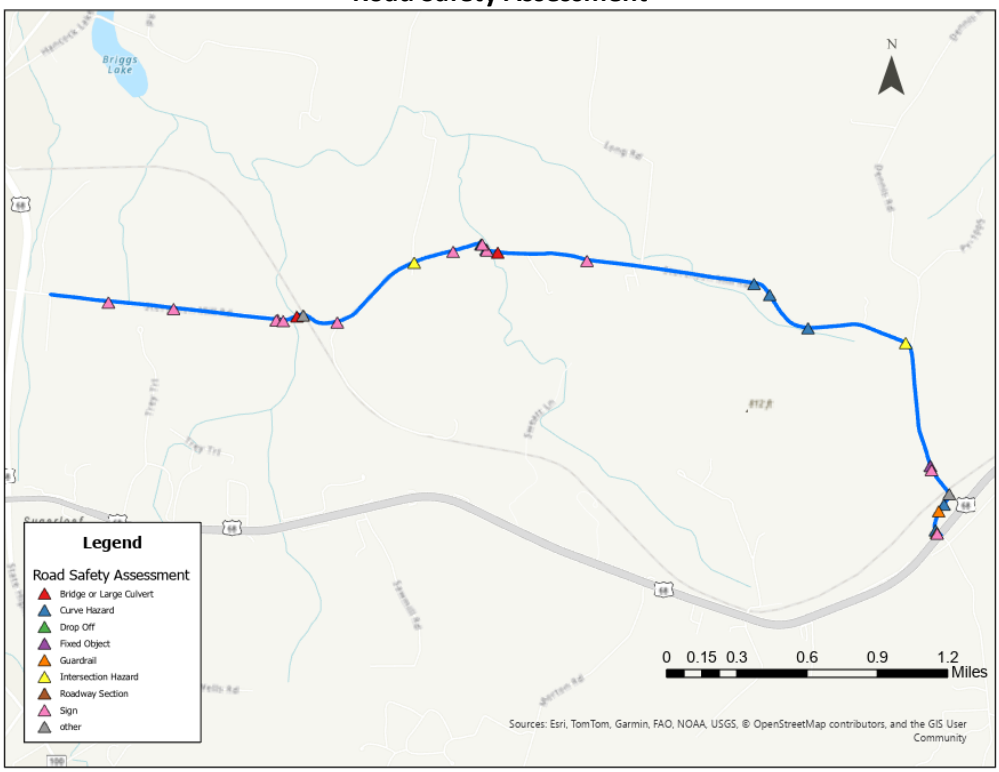
Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment

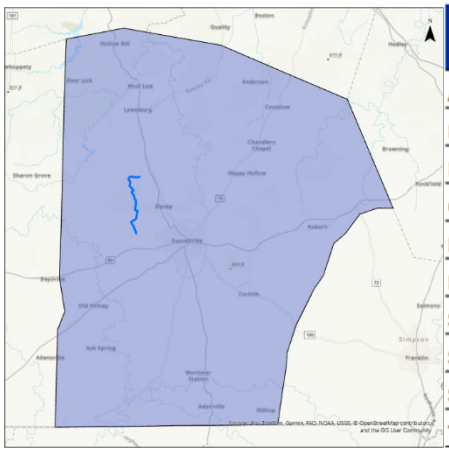


General Recommendations

Point ID	RT_UNIQUE	Road Name	Issue Type	Object	Offset	Recommendation
736	071-CR-1118 -000	STEVENSON MILL RD	Fixed Object	other; Stone mailbox	1-3	Work with homeowner to replace if possible
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Condition**	**End Treatments**	**Recommendation**
758	071-CR-1118 -000	STEVENSON MILL RD	Guardrail	Good	All_	--
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Recommendation**	
742	071-CR-1118 -000	STEVENSON MILL RD	Intersection	Yes	Intersection_Obscured_on_Approa	Investigate Sight Distance Restriction/Clear Vegetation; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
756	071-CR-1118 -000	STEVENSON MILL RD	Intersection	No	Intersection_Obscured_on_Approa	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
759	071-CR-1118 -000	STEVENSON MILL RD	Intersection	No	other; No issue, end of road	--
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Bridge Width**	**OM Present**	**Recommendation**
739	071-CR-1118 -000	STEVENSON MILL RD	Bridge or Large Culvert	15	0	Install Advanced Curve Warning Sign; Install "One lane Bridge" (W5-1) Sign; Install Type 3 Object Markers where missing.
745	071-CR-1118 -000	STEVENSON MILL RD	Bridge or Large Culvert	12	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Comments**	**Recommendation**
733	071-CR-1118 -000	STEVENSON MILL RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons; Remove Vegetation
734	071-CR-1118 -000	STEVENSON MILL RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
737	071-CR-1118 -000	STEVENSON MILL RD	Curve Hazard	Yes	vegetation	Install advance curve signing and chevrons; Remove Vegetation
738	071-CR-1118 -000	STEVENSON MILL RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
741	071-CR-1118 -000	STEVENSON MILL RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons; Remove Vegetation
752	071-CR-1118 -000	STEVENSON MILL RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons; Remove Vegetation
755	071-CR-1118 -000	STEVENSON MILL RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons; Remove Vegetation
Point ID	**RT_UNIQUE**	**RD_NAME**	**Issue Type**	**--**	**Description**	**Recommendation**
735	071-CR-1118 -000	STEVENSON MILL RD	Other	0	Railway crossing after curve, no sign before	Install "RR Crossing Ahead" Sign
744	071-CR-1118 -000	STEVENSON MILL RD	Other	0	Railway crossing	Install "RR Crossing" Sign

BUENA VISTA RD(071-CR-1429 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	0	0	0	**0**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	0	0	0	**0**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	0	0	0	**0**
Total	**0**	**0**	**0**	**0**

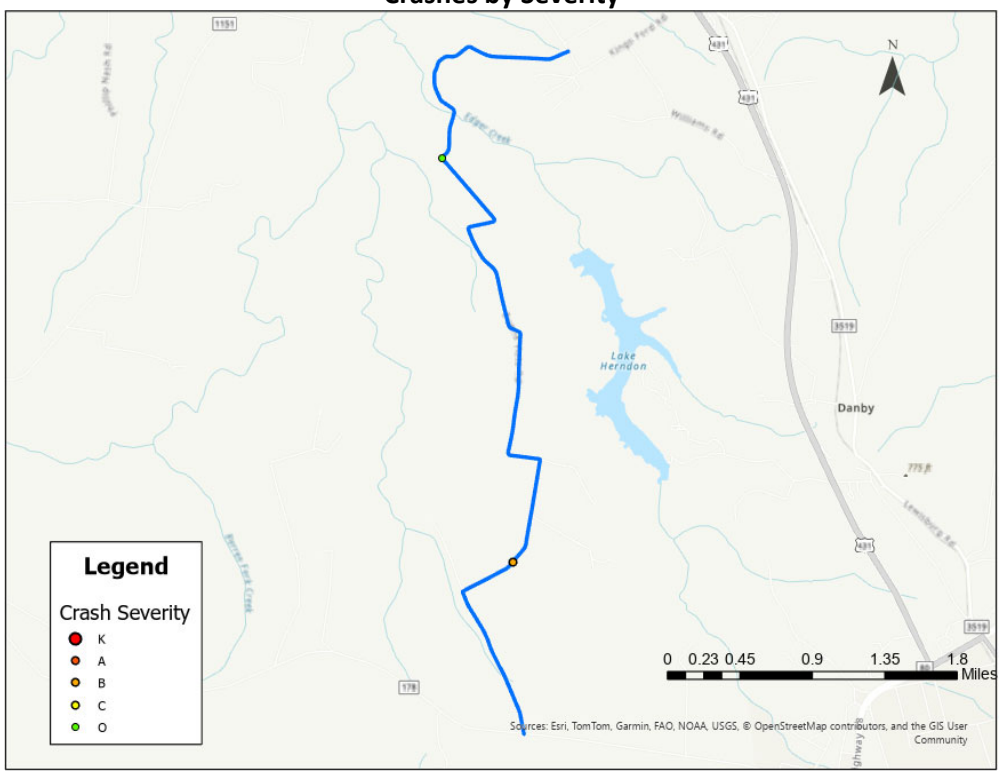
General Roadway Conditions

RT_UNIQUE	Road Name	Pvmt Width (f	Pavement Conditi	Roadside Hazard Rating	Shoulder Improve
071-CR-1429 -000	BUENA VISTA RD	12	4	5	40-60

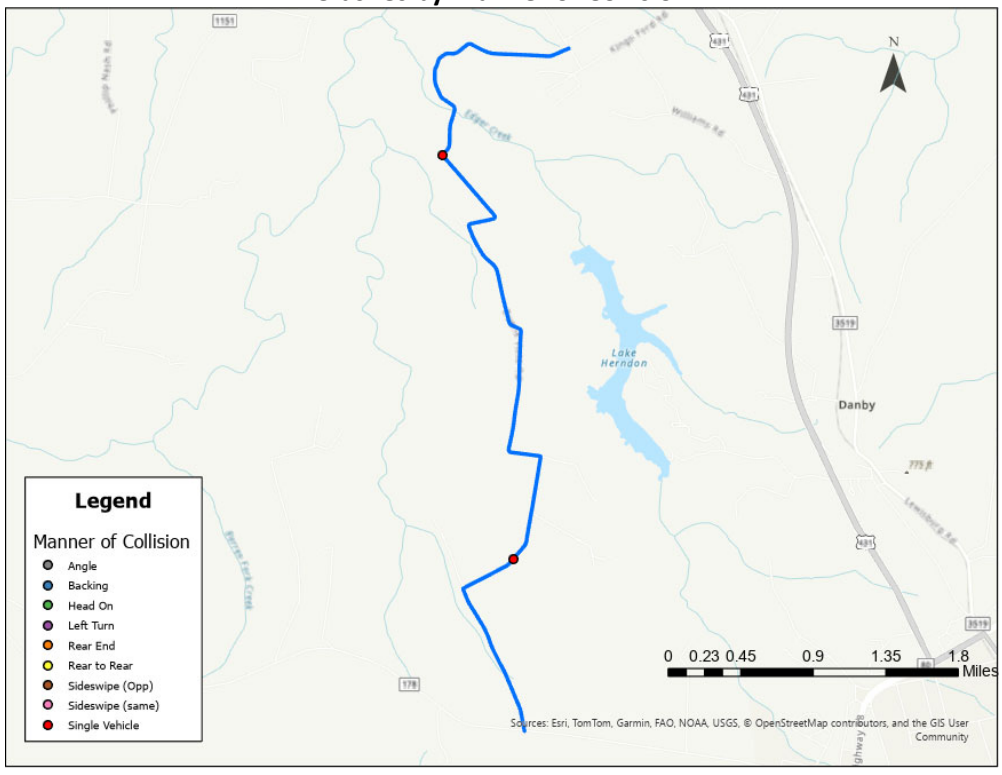
Roadway Typical Section



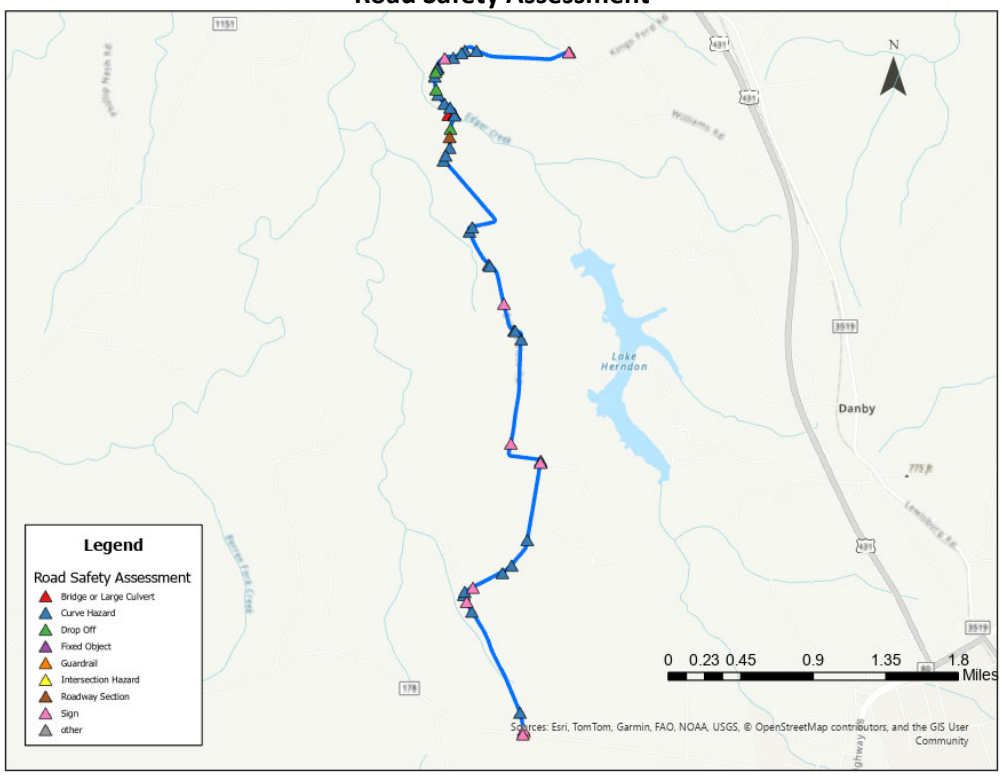
Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment



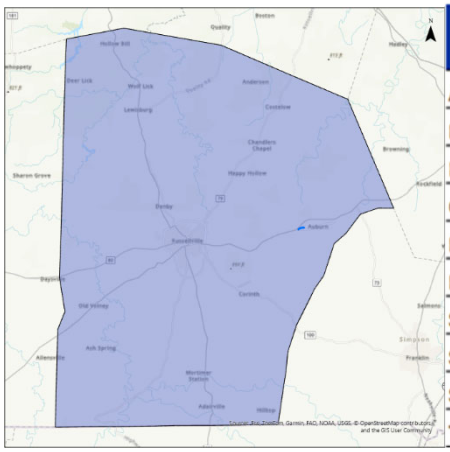
General Recommendations

Point ID	RT_UNIQUE	Road Name	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve	Additional Comments	Improve Shoulder	Edgeline[1]	Curve Signing
4752	071-CR-1429 -000	BUENA VISTA RD	12	4	5	40-60	Narrow with trees and ditches	✓	✓	✓

Point ID	RT_UNIQUE	Road Name	Issue Type	Drop Off Offset	Comments	Recommendation
4736	071-CR-1429 -000	BUENA VISTA RD	Drop Off	1-3	Has markers	Evaluate roadway width, curvature and grade at drop off compared to other locations in county to evaluate need for guardrail
4747	071-CR-1429 -000	BUENA VISTA RD	Drop Off	3-5	Has object marker	Evaluate roadway width, curvature and grade at drop off compared to other locations in county to evaluate need for guardrail
4751	071-CR-1429 -000	BUENA VISTA RD	Drop Off	1-3	0	Install Type 2 Object Marker
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Recommendation**	
4741	071-CR-1429 -000	BUENA VISTA RD	Intersection	No	other; End of roadway	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
4765	071-CR-1429 -000	BUENA VISTA RD	Intersection	No	other; End of roadway	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Bridge Width**	**OM Present**	**Recommendation**
4733	071-CR-1429 -000	BUENA VISTA RD	Bridge or Large Culvert	15	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
4750	071-CR-1429 -000	BUENA VISTA RD	Bridge or Large Culvert	15	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Comments**	**Recommendation**
4721	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
4722	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons
4724	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	No	Intersection_in_Curve	Install advance curve signing and chevrons
4725	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
4726	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	No	Intersection_in_Curve	Install advance curve signing and chevrons
4727	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
4728	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons
4730	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
4731	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	No	other	Install advance curve signing and chevrons
4732	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	No	Intersection_in_Curve,Curve_Obscured	Install advance curve signing and chevrons
4734	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
4735	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
4737	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
4738	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
4739	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
4740	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
4743	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Yes	Intersection_in_Curve,Curve_Obscured,vegetation	Install advance curve signing and chevrons
4744	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Yes	Curve_Obscured	Install advance curve signing and chevrons
4746	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
4748	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Yes	vegetation,Entrance_in_Curve	Install advance curve signing and chevrons
4749	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons
4753	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
4754	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
4755	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
4756	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Yes	Curve_Obscured	Install advance curve signing and chevrons
4757	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons
4759	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	No	Intersection_in_Curve	Install advance curve signing and chevrons
4761	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons
4762	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons
4764	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	No	Intersection_in_Curve	Install advance curve signing and chevrons

PETERSON AVE(071-CR-1011 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	0	0	0	**0**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	0	0	0	**0**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	0	0	0	**0**
Total	**0**	**0**	**0**	**0**

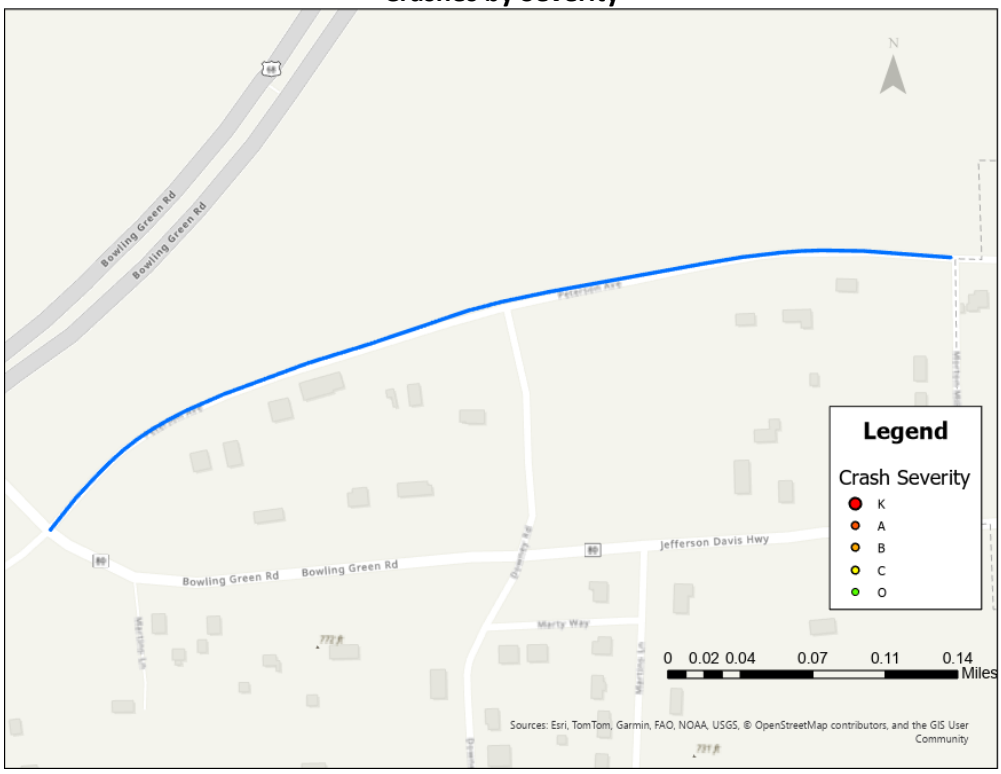
General Roadway Conditions

Roadway Section Information Not Collected

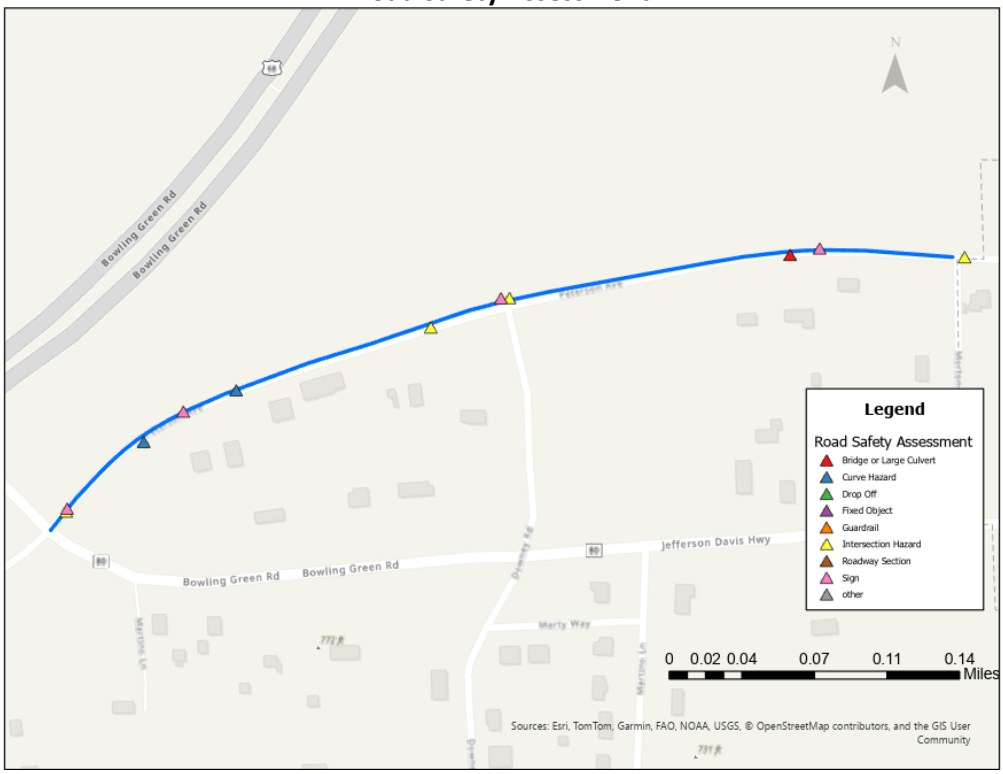
Roadway Typical Section



Crashes by Severity



Road Safety Assessment

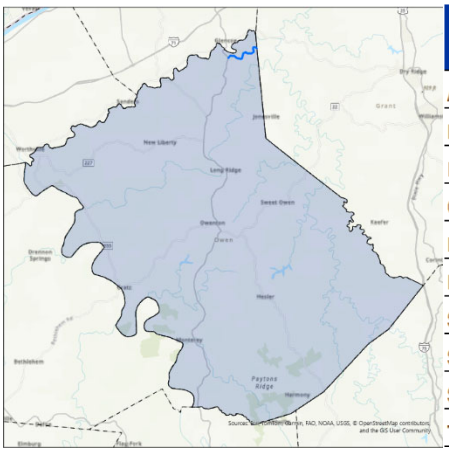


General Recommendations

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Recommendation	Comments
722	071-CR-1011 -000	PETERSON AVE	Intersection	No	Intersection_Obscured_on_Approa	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
724	071-CR-1011 -000	PETERSON AVE	Intersection	Yes	Intersection_Obscured_on_Approa	Investigate Sight Distance Restriction/Clear Vegetation; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
728	071-CR-1011 -000	PETERSON AVE	Intersection	No	other; Curve before intersection, end of roadway	Install "Stop Ahead" intersection on approach to intersection
731	071-CR-1011 -000	PETERSON AVE	Intersection	No	Intersection_Obscured_on_Approa, other	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Bridge Width**	**OM Present**	**Recommendation**
732	071-CR-1011 -000	PETERSON AVE	Bridge or Large Culvert	10	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Comments**	**Recommendation**
726	071-CR-1011 -000	PETERSON AVE	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
730	071-CR-1011 -000	PETERSON AVE	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons

STEPHANIE RD (071-CR-1713 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	1	0	0	**1**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	0	0	0	**0**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	0	0	0	**0**
Total	**1**	**0**	**0**	**1**

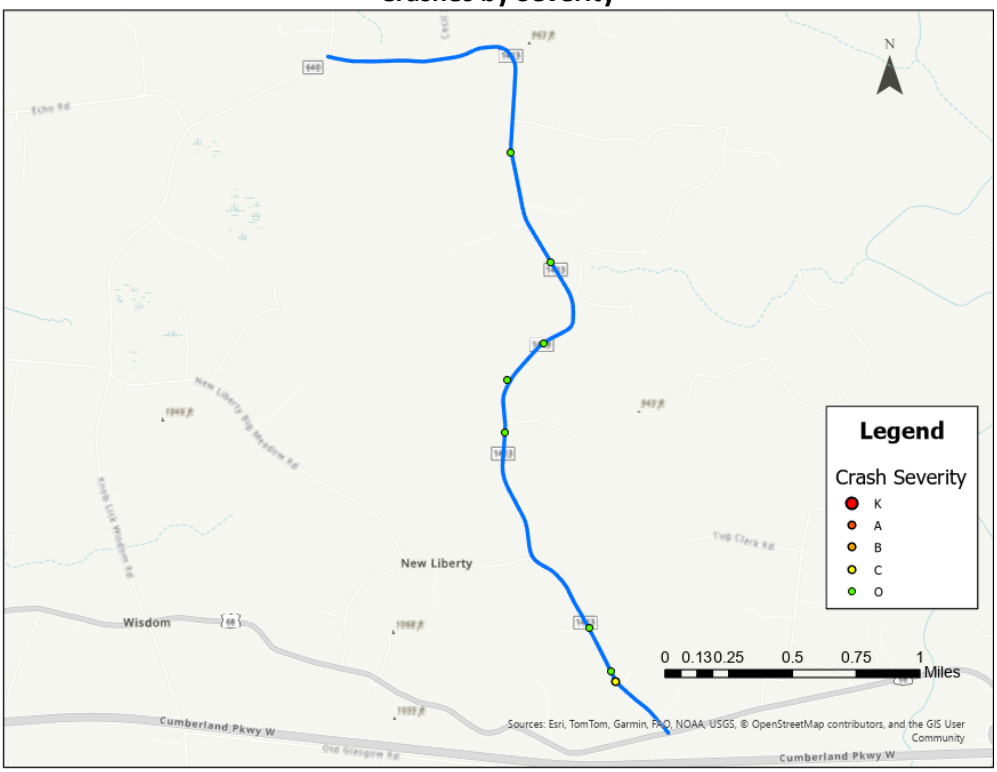
General Roadway Conditions

Roadway Section Information Not Collected

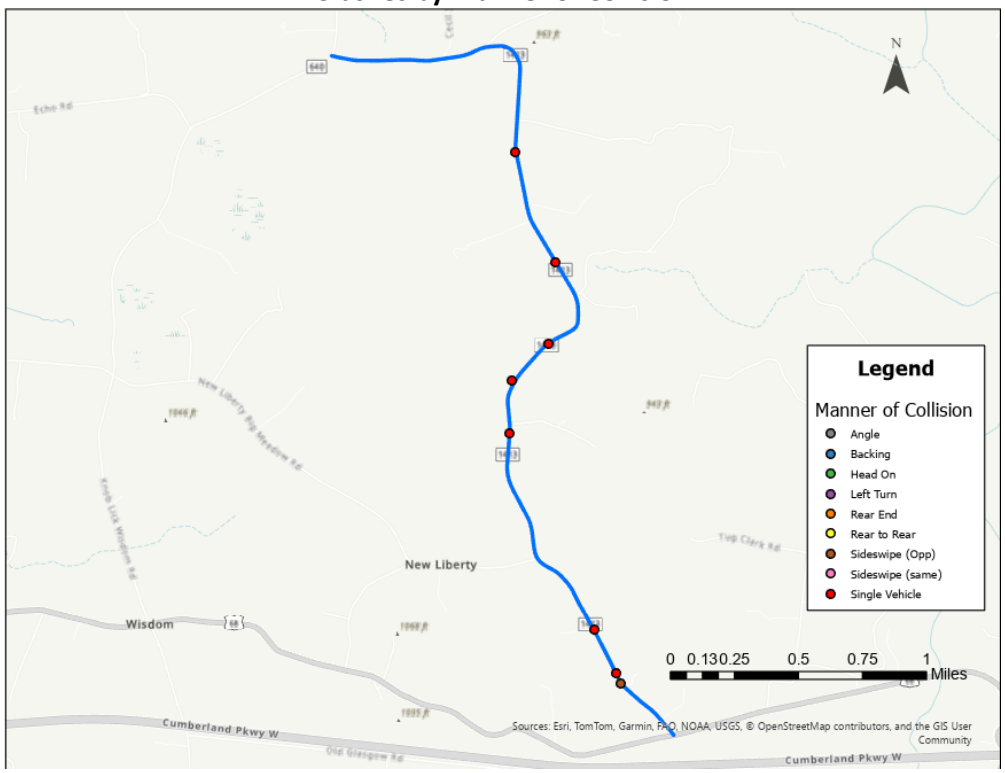
Roadway Typical Section



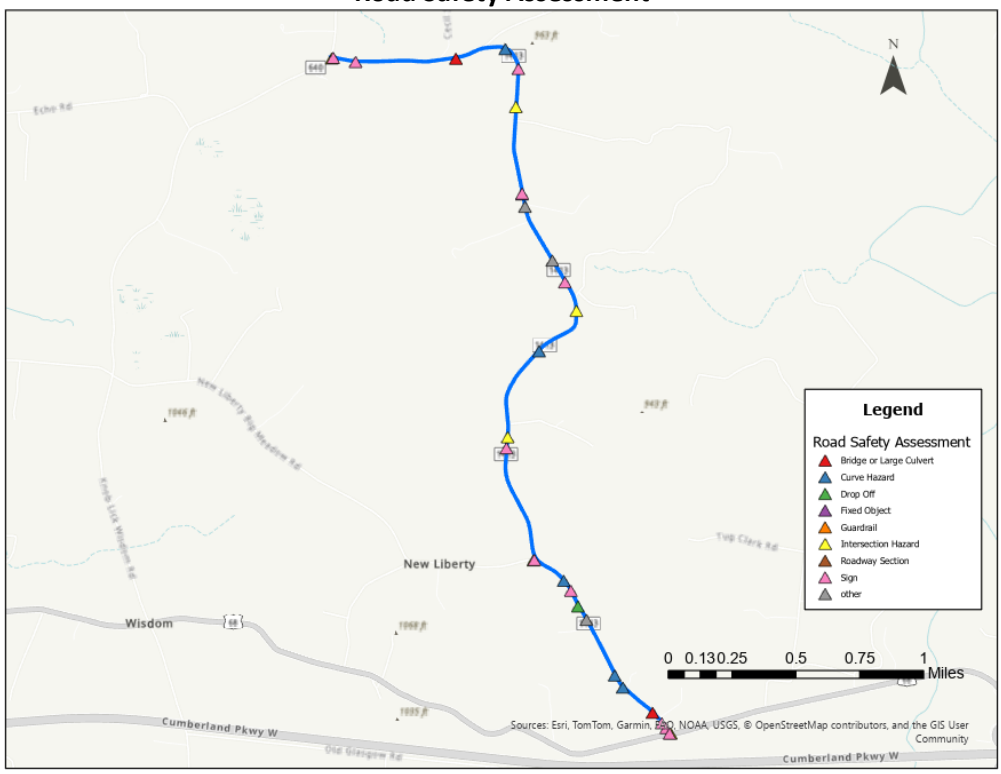
Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment



General Recommendations

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Recommendation	Comments
4708	071-CR-1713 -000	STEPHANIE RD	Intersection	Yes	Intersection_Obscured_on_Approa	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
4712	071-CR-1713 -000	STEPHANIE RD	Intersection	No	other; Ends at busy highway	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
4715	071-CR-1713 -000	STEPHANIE RD	Intersection	Yes	other;	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
4716	071-CR-1713 -000	STEPHANIE RD	Intersection	Yes	Intersection_Obscured_on_Approa	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Comments**	**Recommendation**
4706	071-CR-1713 -000	STEPHANIE RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
4711	071-CR-1713 -000	STEPHANIE RD	Curve Hazard	No	Intersection_in_Curve	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection; Clear vegetation

Other Roadways

General Roadway Conditions and Recommendations (Logan County)

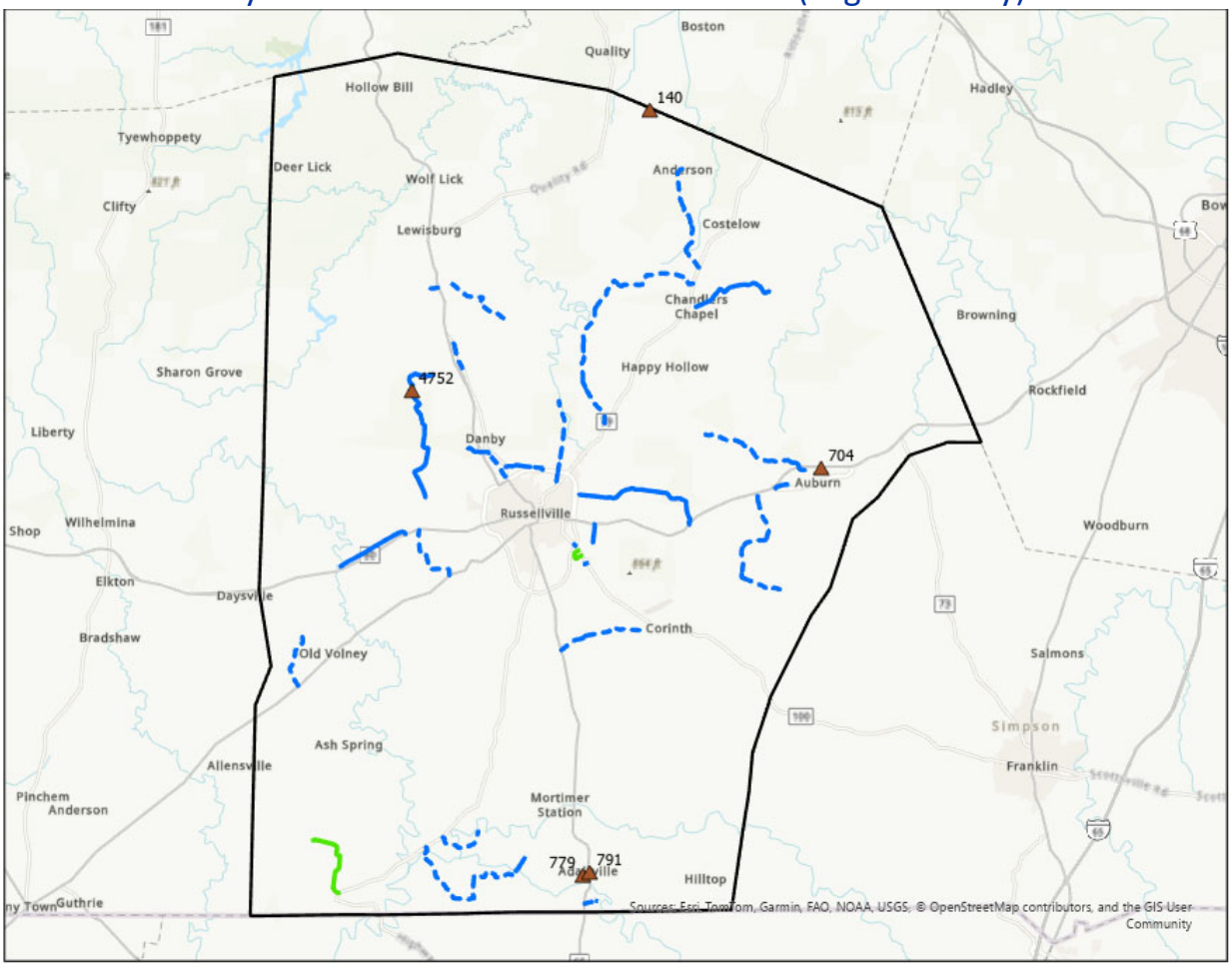


Exhibit Logan-10: General Roadway Conditions

Point ID	RT_UNIQUE	Road Name	Pvmt Width (f	Pavement Conditi	Roadside Hazard Rating	Shoulder Improve	Additional Comments	Improve Should	Edgeline[1]	Curve Signin
4752	071-CR-1429 -000	BUENA VISTA RD	12	4	5	40-60	Narrow with trees and ditches	✓	✓	✓

Exhibit Logan-11: General Roadway Recommendations

Bridge / Culvert Recommendations (Logan County)

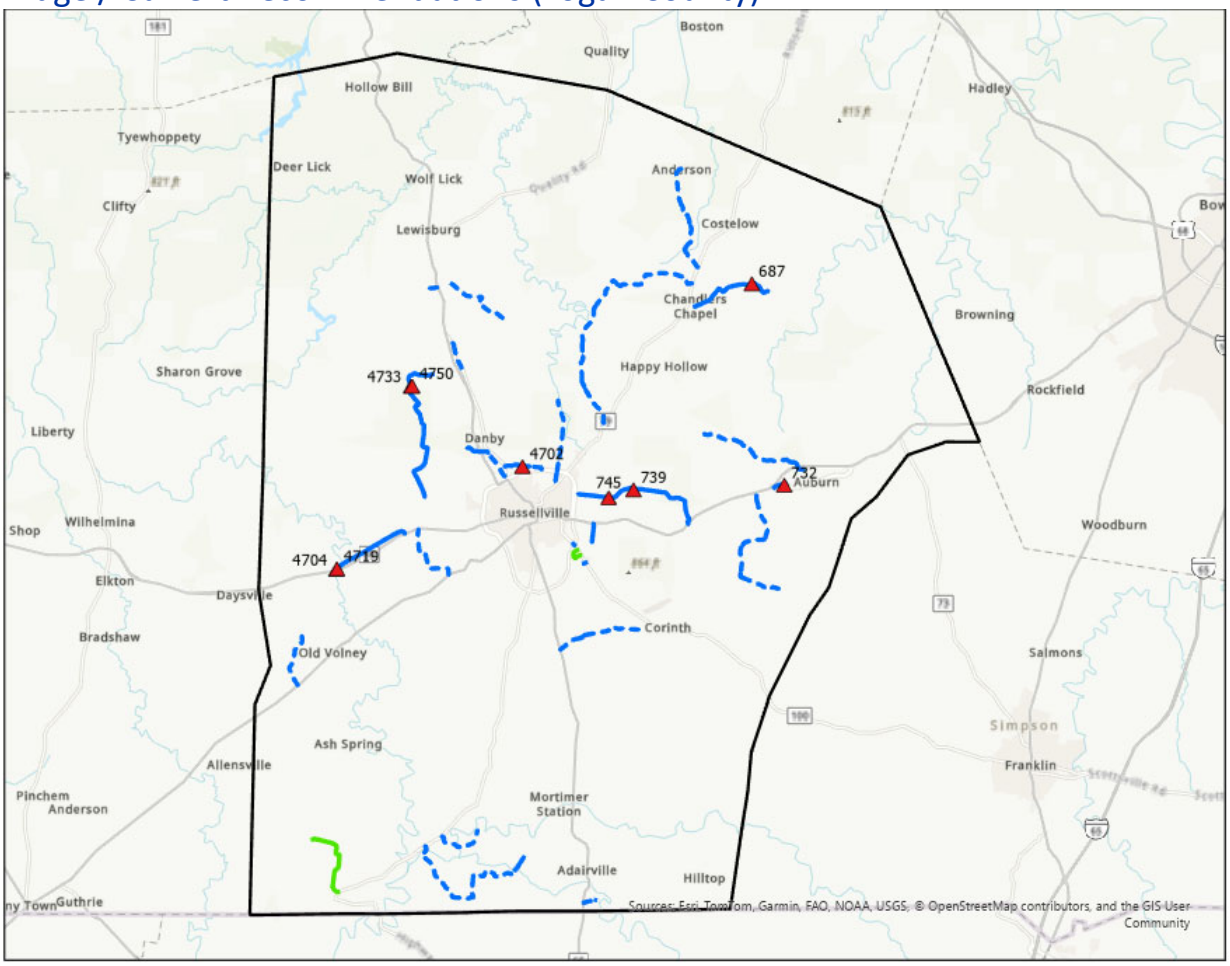


Exhibit Logan-12: Bridge / Culvert Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Bridge Width	Guardrail Present	OM Present	Recommendation
687	071-CR-1054 -000	TURNER RD	Bridge or Large Culvert	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
732	071-CR-1011 -000	PETERSON AVE	Bridge or Large Culvert	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
739	071-CR-1118 -000	STEVENSON MILL RD	Bridge or Large Culvert	15	4	0	Install Advanced Curve Warning Sign; Install "One lane Bridge" (W5-1) Sign; Install Type 3 Object Markers where missing.
745	071-CR-1118 -000	STEVENSON MILL RD	Bridge or Large Culvert	12	4	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
4702	071-CR-1334 -000	CATES BY PASS RD	Bridge or Large Culvert	15	0	1	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
4733	071-CR-1429 -000	BUENA VISTA RD	Bridge or Large Culvert	15	4	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
4750	071-CR-1429 -000	BUENA VISTA RD	Bridge or Large Culvert	15	4	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.

Exhibit Logan-13: Bridge / Culvert Recommendations

Curve Recommendations (Logan County)

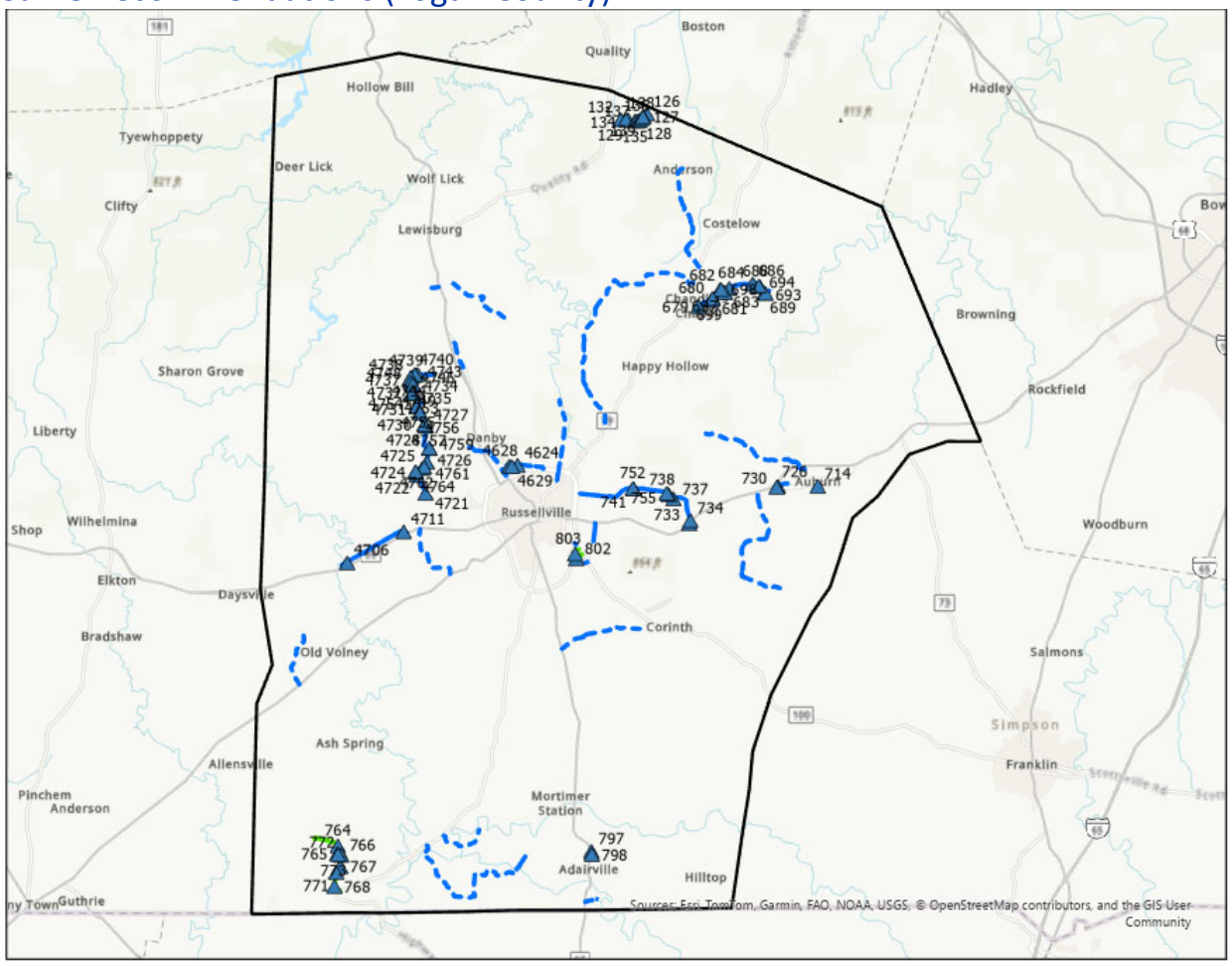


Exhibit Logan-14: Focus Road Curves

See Attachment for Curve Recommendations in Edmonson County

Point ID	RT_UNIQUE	Road Name	Issue Type	Comments	Vegetation	Recommendation
679	071-CR-1054 -000	TURNER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
680	071-CR-1054 -000	TURNER RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
681	071-CR-1054 -000	TURNER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
682	071-CR-1054 -000	TURNER RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
683	071-CR-1054 -000	TURNER RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
684	071-CR-1054 -000	TURNER RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
686	071-CR-1054 -000	TURNER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
688	071-CR-1054 -000	TURNER RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
689	071-CR-1054 -000	TURNER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
693	071-CR-1054 -000	TURNER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
694	071-CR-1054 -000	TURNER RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
697	071-CR-1054 -000	TURNER RD	Curve Hazard	Curve_Obscured,Intersection_in_Curve,vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation. Consider installing edgelines and stop bar at intersection.
698	071-CR-1054 -000	TURNER RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation. Consider installing edgelines and stop bar at intersection.
699	071-CR-1054 -000	TURNER RD	Curve Hazard	Curve_Obscured,vegetation,Intersection_in_Curve	Yes	Install advance curve signing and chevrons; Clear vegetation. Consider installing edgelines and stop bar at intersection.
714	071-CS-4026 -000	#N/A	Curve Hazard	other	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection; Clear vegetation
726	071-CR-1011 -000	PETERSON AVE	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
730	071-CR-1011 -000	PETERSON AVE	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
733	071-CR-1118 -000	STEVENSON MILL RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
734	071-CR-1118 -000	STEVENSON MILL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
737	071-CR-1118 -000	STEVENSON MILL RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
738	071-CR-1118 -000	STEVENSON MILL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
741	071-CR-1118 -000	STEVENSON MILL RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
752	071-CR-1118 -000	STEVENSON MILL RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
755	071-CR-1118 -000	STEVENSON MILL RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
764	071-CR-1265 -000	PRENTISS-LAWRENCE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
765	071-CR-1265 -000	PRENTISS-LAWRENCE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
766	071-CR-1265 -000	PRENTISS-LAWRENCE RD	Curve Hazard	Intersection_in_Curve	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection; Clear vegetation
767	071-CR-1265 -000	PRENTISS-LAWRENCE RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
768	071-CR-1265 -000	PRENTISS-LAWRENCE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
771	071-CR-1265 -000	PRENTISS-LAWRENCE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
772	071-CR-1265 -000	PRENTISS-LAWRENCE RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
773	071-CR-1265 -000	PRENTISS-LAWRENCE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
797	071-CS-2001 -000	#N/A	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
798	071-CS-2001 -000	#N/A	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
802	071-CR-1187 -000	CIRCLE DR	Curve Hazard	Intersection_in_Curve	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection; Clear vegetation
803	071-CR-1187 -000	CIRCLE DR	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4624	071-CR-1334 -000	CATES BY PASS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4628	071-CR-1334 -000	CATES BY PASS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4629	071-CR-1334 -000	CATES BY PASS RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4706	071-CR-1713 -000	STEPHANIE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4711	071-CR-1713 -000	STEPHANIE RD	Curve Hazard	Intersection_in_Curve	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection; Clear vegetation
4721	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4722	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
4724	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Intersection_in_Curve	No	Install advance curve signing and chevrons
4725	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4726	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Intersection_in_Curve	No	Install advance curve signing and chevrons
4727	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4728	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
4730	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4731	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	other	No	Install advance curve signing and chevrons
4732	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
4734	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4735	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons

Point ID	RT_UNIQUE	Road Name	Issue Type	Comments	Vegetation	Recommendation
4737	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4738	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4739	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4740	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4743	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation. Consider installing edgelines and stop bar at intersection.
4744	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Curve_Obscured	Yes	Install advance curve signing and chevrons
4746	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4748	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	vegetation,Entrance_in_Curve	Yes	Install advance curve signing and chevrons
4749	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
4753	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4754	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4755	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4756	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Curve_Obscured	Yes	Install advance curve signing and chevrons
4757	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
4759	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Intersection_in_Curve	No	Install advance curve signing and chevrons
4761	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
4762	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
4764	071-CR-1429 -000	BUENA VISTA RD	Curve Hazard	Intersection_in_Curve	No	Install advance curve signing and chevrons

Roadside Drop Off Recommendations (Logan County)

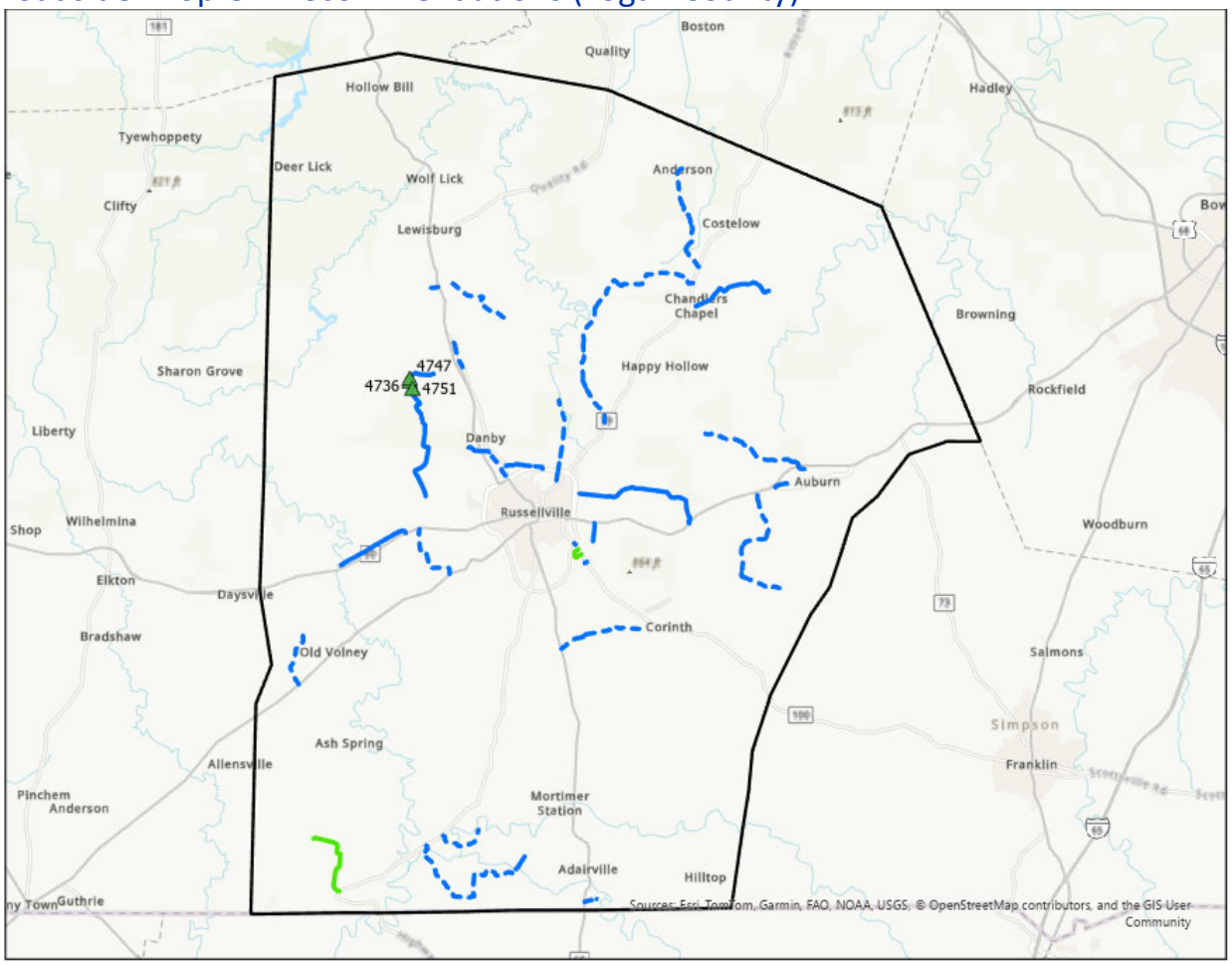


Exhibit Logan-15: Roadside Drop Off Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Drop Off Offset	Drop Off Height	Additional Comments	Recommendation
4736	071-CR-1429 -000	BUENA VISTA RD	Drop Off	1-3	>10	Has markers	Evaluate roadway width, curvature and grade at drop off compared to other locations in county to evaluate need for guardrail
4747	071-CR-1429 -000	BUENA VISTA RD	Drop Off	3-5	>10	Has object marker	Evaluate roadway width, curvature and grade at drop off compared to other locations in county to evaluate need for guardrail
4751	071-CR-1429 -000	BUENA VISTA RD	Drop Off	1-3	5-10		Install Type 2 Object Marker

Exhibit Logan-16: Roadside Drop Off Recommendations

Fixed Object Recommendations (Logan County)

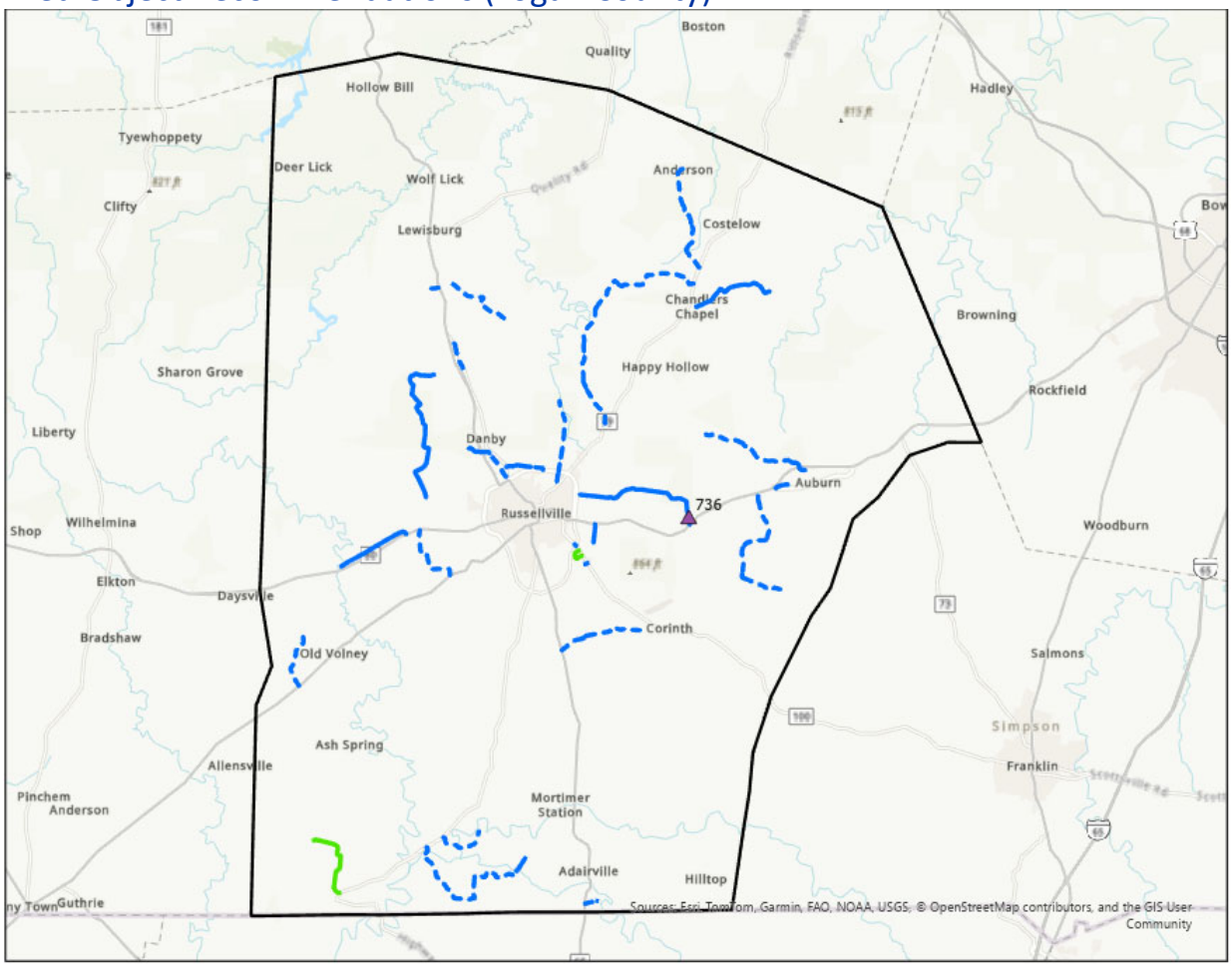


Exhibit Logan-17: Fixed Object Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Object	Single / Series	Offset	Recommendation
736	071-CR-1118 -000	STEVENSON MILL RD	Fixed Object	other; Stone mailbox	Single	1-3	Work with homeowner to replace if possible

Exhibit Hart-18: Fixed Object Recommendations

Guardrail Recommendations (Logan County)

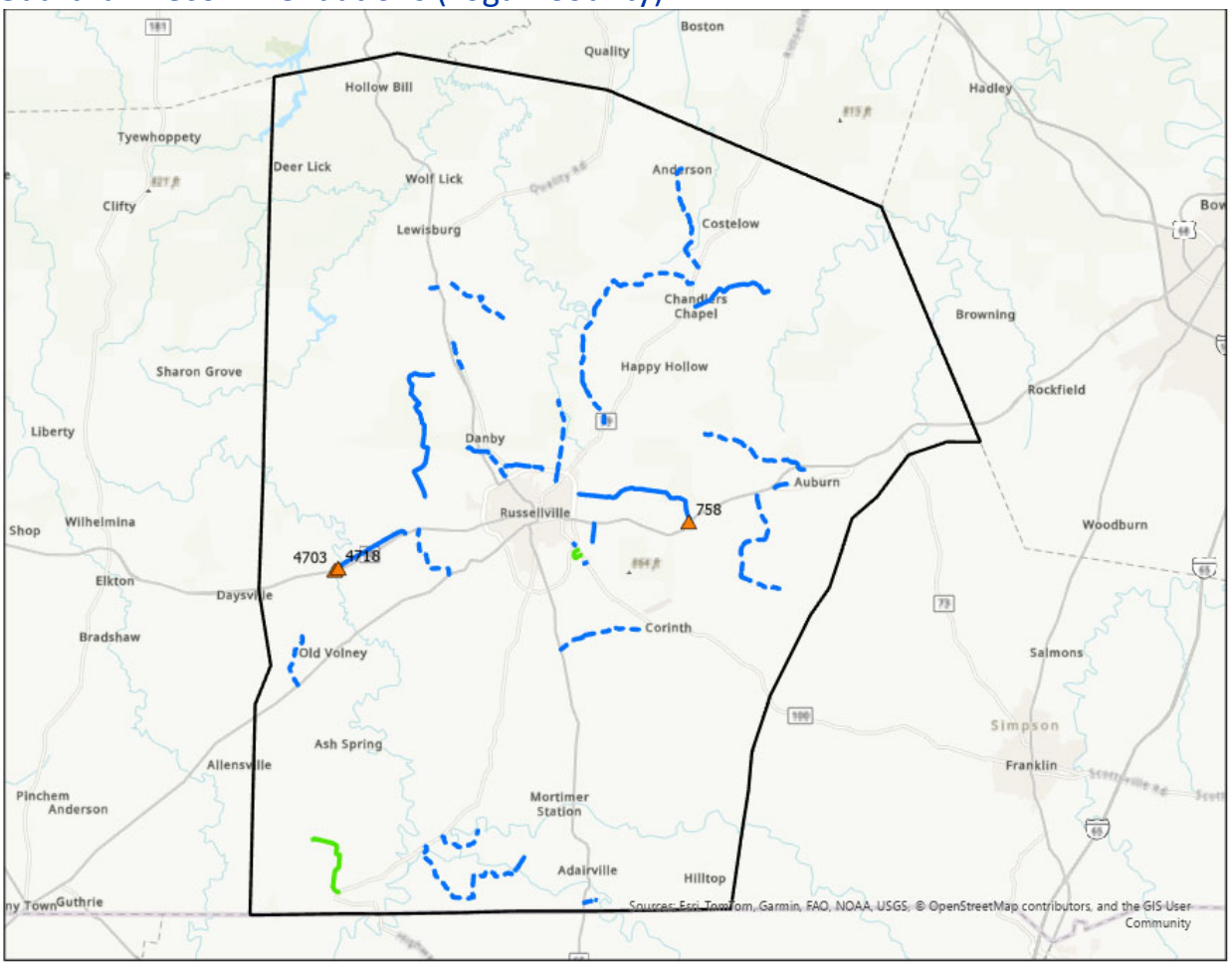


Exhibit Logan-19: Guardrail Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Condition	Meet Warrant	End Treatmen	Recommendation
758	071-CR-1118 -000	STEVENSON MILL RD	Guardrail	Good	Yes	All_	--

Exhibit Logan-20: Guardrail Recommendations

Intersection Recommendations (Logan County)

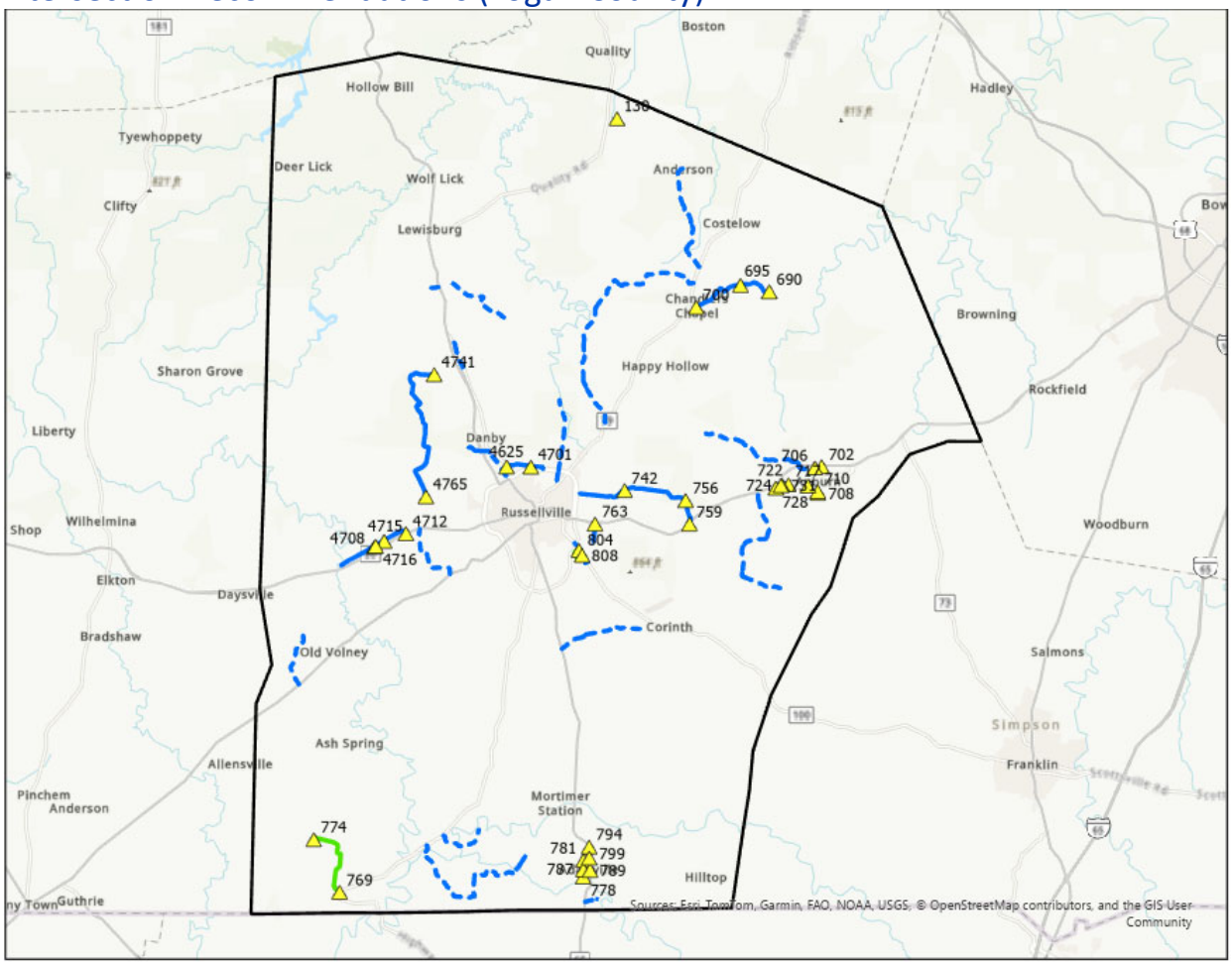


Exhibit Logan-21: Intersection Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Comments	Recommendations
690	071-CR-1054 -000	TURNER RD	Intersection	No	other; End, no issues	--
695	071-CR-1054 -000	TURNER RD	Intersection	Yes	Intersection_Obscured_on_Appro a	Investigate Sight Distance Restriction/Clear Vegetation; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
700	071-CR-1054 -000	TURNER RD	Intersection	No	other; End of roadway, no issues	--
722	071-CR-1011 -000	PETERSON AVE	Intersection	No	Intersection_Obscured_on_Appro a	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
724	071-CR-1011 -000	PETERSON AVE	Intersection	Yes	Intersection_Obscured_on_Appro a	Investigate Sight Distance Restriction/Clear Vegetation; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
728	071-CR-1011 -000	PETERSON AVE	Intersection	No	other; Curve before intersection, end of roadway	Install "Stop Ahead" intersection on approach to intersection
731	071-CR-1011 -000	PETERSON AVE	Intersection	No	Intersection_Obscured_on_Appro a,other	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
742	071-CR-1118 -000	STEVENSON MILL RD	Intersection	Yes	Intersection_Obscured_on_Appro a	Investigate Sight Distance Restriction/Clear Vegetation; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
756	071-CR-1118 -000	STEVENSON MILL RD	Intersection	No	Intersection_Obscured_on_Appro a	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
759	071-CR-1118 -000	STEVENSON MILL RD	Intersection	No	other; No issue, end of road	--
763	071-CR-1120 -000	C DODSON LN	Intersection	No	other; High traffic intersection	Consider installing Stop Bar and/or dual mounted stop signs and advance warning signs due to high volume intersection.
769	071-CR-1265 -000	PRENTISS-LAWRENCE RD	Intersection	No	other; No issues, end of roadway	--
774	071-CR-1265 -000	PRENTISS-LAWRENCE RD	Intersection	No	other; No issue, end roadway	--
804	071-CR-1187 -000	CIRCLE DR	Intersection	No	other; Busy intersection	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
808	071-CR-1187 -000	CIRCLE DR	Intersection	No	other; Busy intersection	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
4625	071-CR-1334 -000	CATES BY PASS RD	Intersection	No	other; End of roadway	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
4701	071-CR-1334 -000	CATES BY PASS RD	Intersection	No	other; End of roadway	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
4708	071-CR-1713 -000	STEPHANIE RD	Intersection	Yes	Intersection_Obscured_on_Appro a	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
4712	071-CR-1713 -000	STEPHANIE RD	Intersection	No	other; Ends at busy highway	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
4715	071-CR-1713 -000	STEPHANIE RD	Intersection	Yes	other;	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
4716	071-CR-1713 -000	STEPHANIE RD	Intersection	Yes	Intersection_Obscured_on_Appro a	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
4741	071-CR-1429 -000	BUENA VISTA RD	Intersection	No	other; End of roadway	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
4765	071-CR-1429 -000	BUENA VISTA RD	Intersection	No	other; End of roadway	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs

Exhibit Logan-22: Intersection Recommendations

Other Recommendations (Logan County)

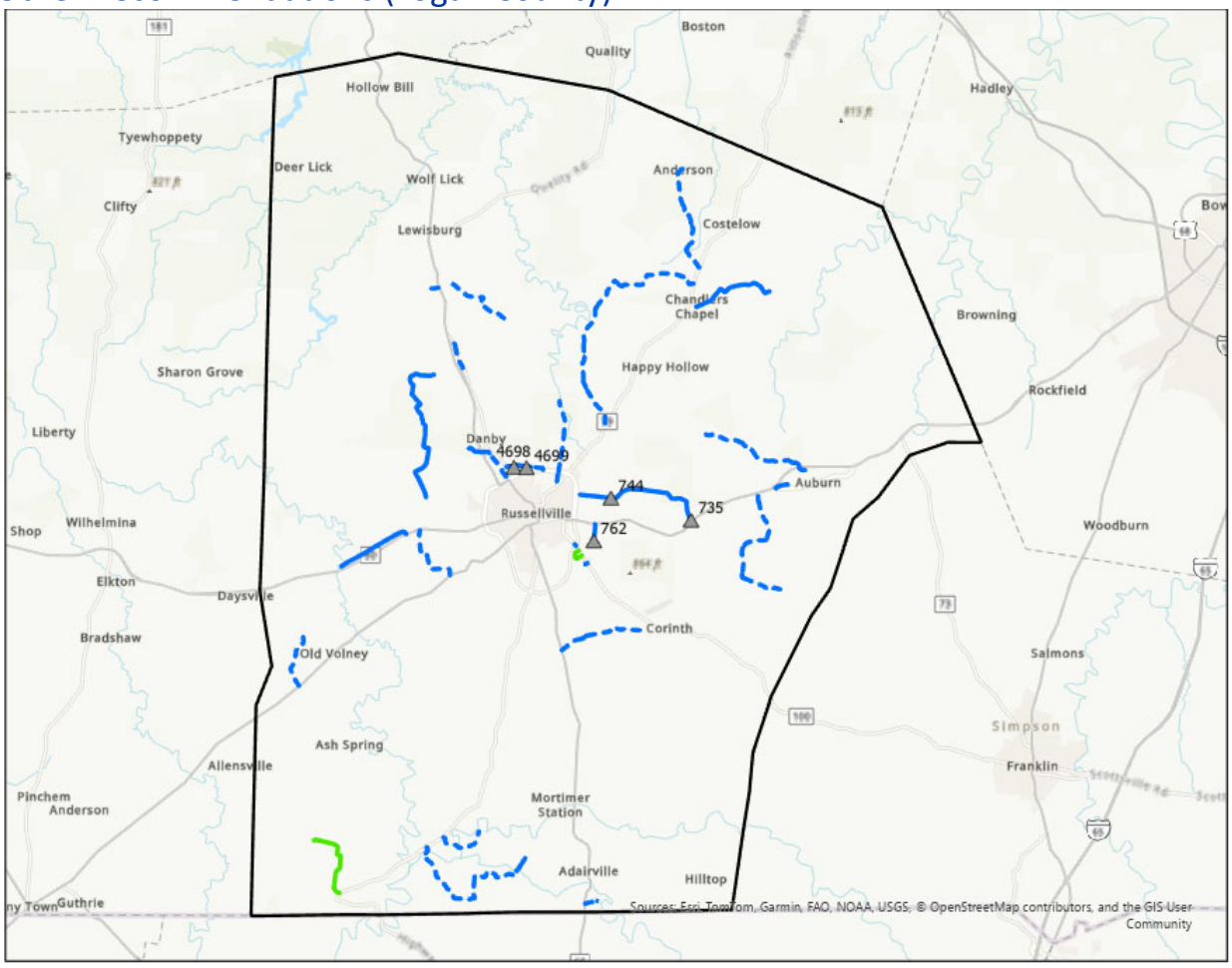


Exhibit Logan-23: Intersection Locations

Point ID	RT_UNIQUE	RD_NAME	Issue Type			Description	Recommendation
735	071-CR-1118 -000	STEVENSON MILL RD	Other			Railway crossing after curve, no sign before	Install "RR Crossing Ahead" Sign
744	071-CR-1118 -000	STEVENSON MILL RD	Other			Railway crossing	Install "RR Crossing" Sign
762	071-CR-1120 -000	C DODSON LN	Other			Narrow hill blocking view	Install "Hill Blocks Sight Distance" Sign.
4698	071-CR-1334 -000	CATES BY PASS RD	Other			Hill	Install "Hill Blocks Sight Distance" Sign.
4699	071-CR-1334 -000	CATES BY PASS RD	Other			Hill	Install "Hill Blocks Sight Distance" Sign.

Exhibit Logan-24: Intersection Recommendations

Signing Recommendations (Logan County)

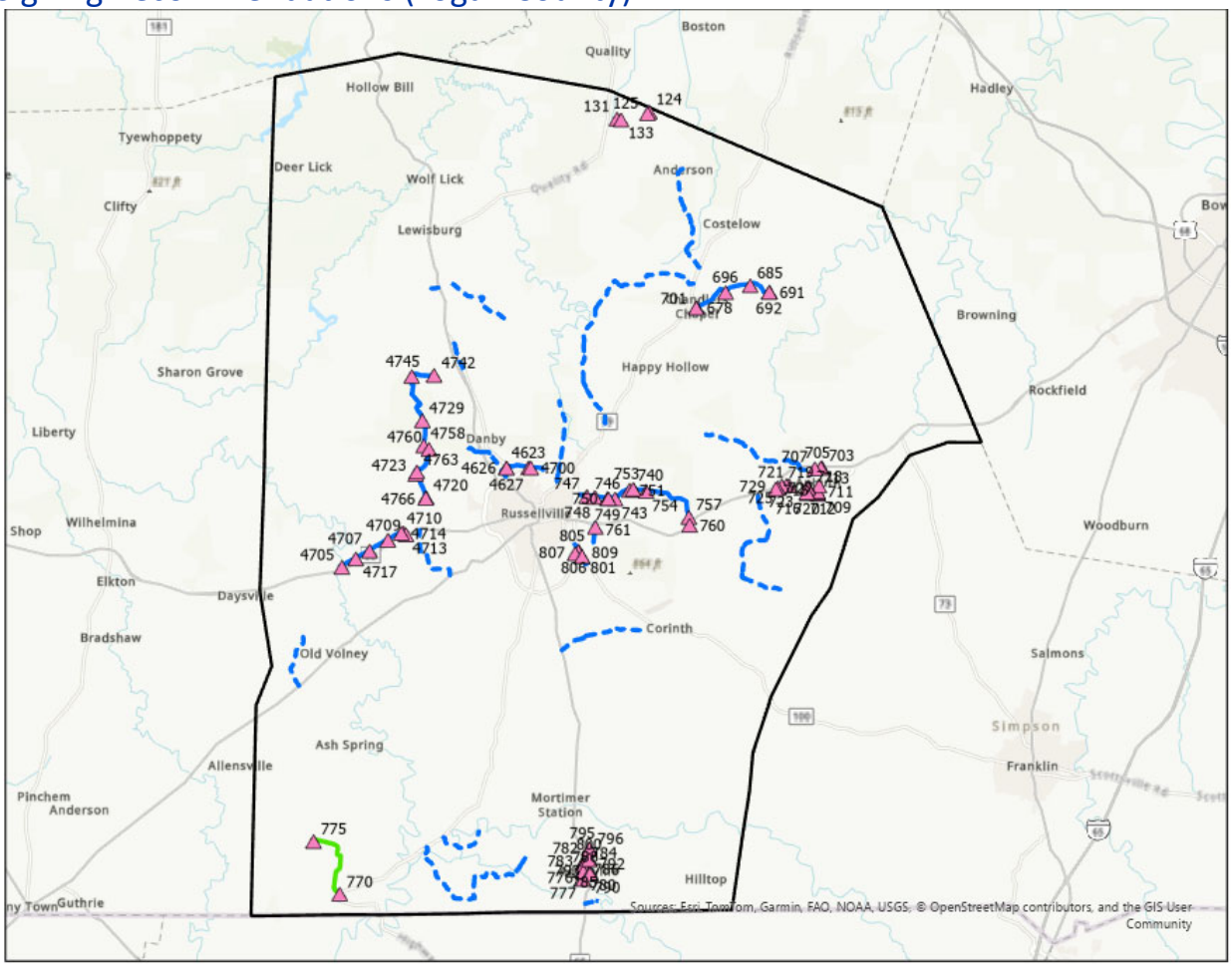


Exhibit Logan-25: Sign Locations

As part of the RSA data collection effort, existing signs were inventoried along reviewed Focus Roadways, including a condition assessment and a photo of each sign. Additionally, preliminary Advisory Speed recommendations were calculated for each focus roadway to assist in the installation of horizontal alignment (curve) signs. Signing and advisory speed information is provided in digital format at https://kyt2.uky.edu/braddSAP.

APPENDIX J: METCALFE COUNTY SAFETY ACTION PLAN

Metcalfe County Overview

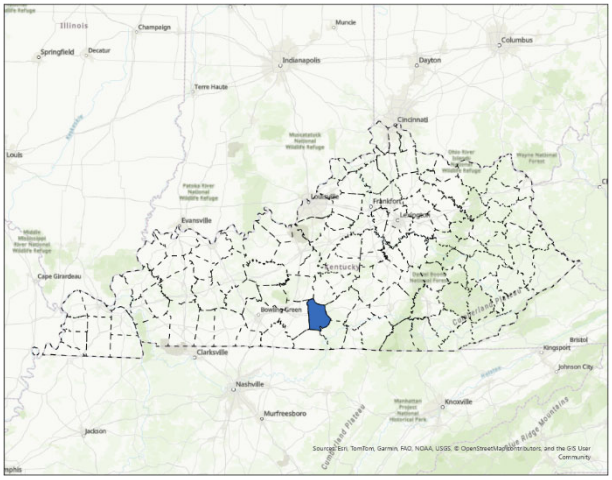


Exhibit Metcalfe-1: Location Map

Key Information Table Metcalfe County	
Population	10,482
Population in Persistent Poverty	24%
Underserved Community	**Yes**
Fatalities (All Roads)	9
Fatalities (County Roads)	2
Fatality Rate per 100,000 persons	**85.86**
County Road Mileage	358.1
State Road Mileage	190.9
Total Mileage	**549.0**

Exhibit Metcalfe-2: Key Information

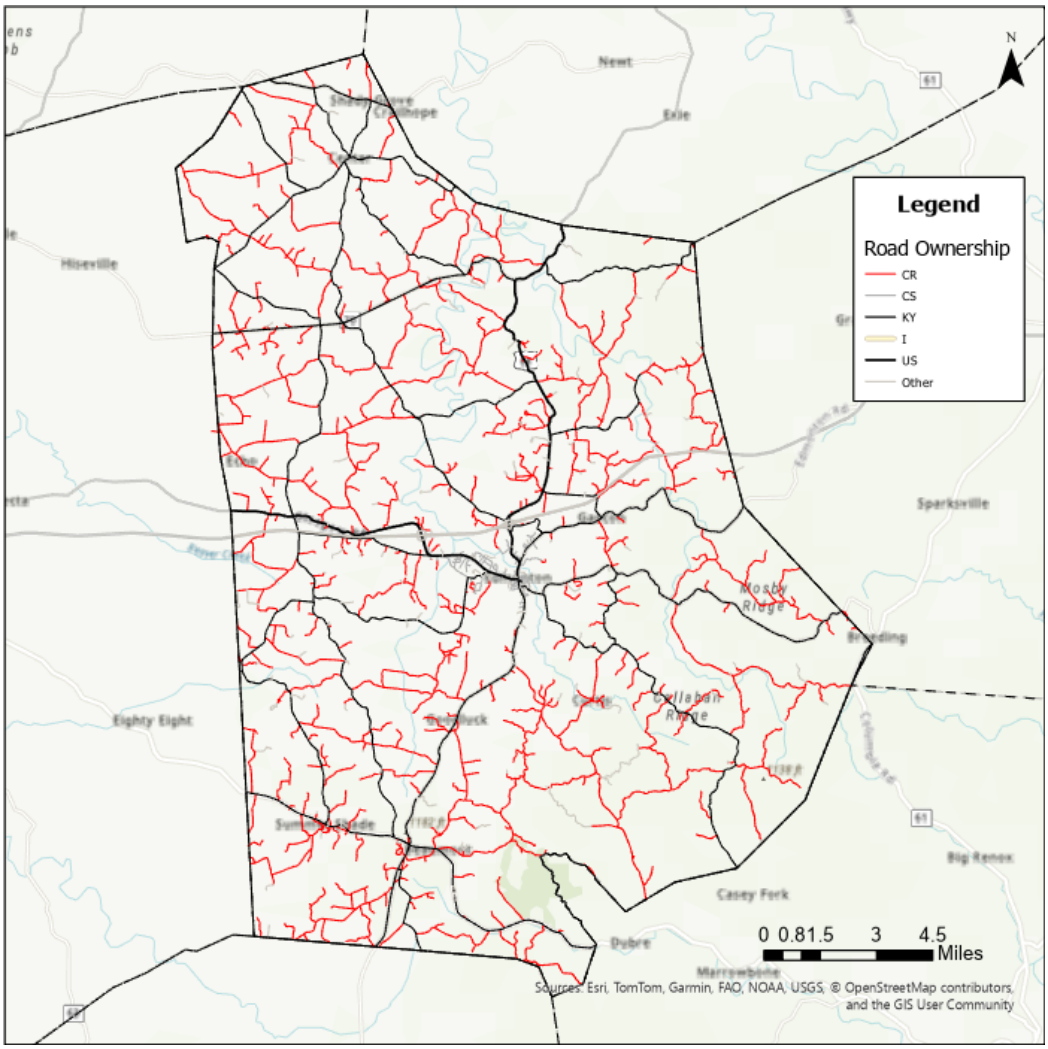


Figure Metcalfe-3: Map of County Roadways

Crash Analysis

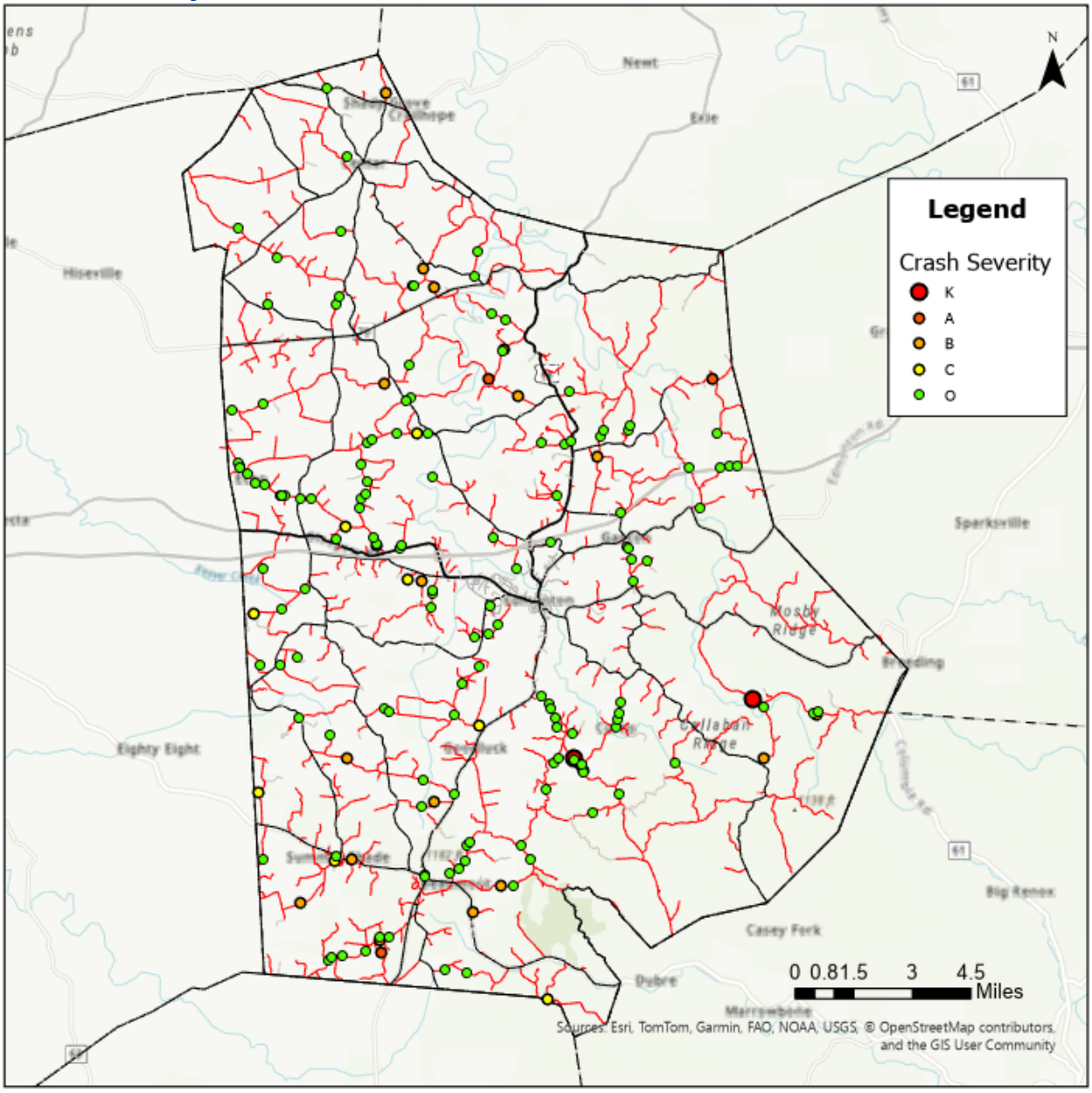
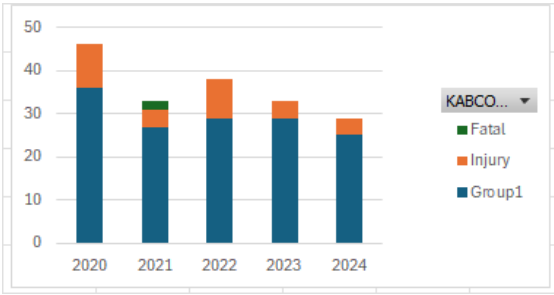


Figure Metcalfe-4: Map of County Road Crashes



Year	Prop. Damage Only	Injury	Fatal	Total
2020	36	10	0	**46**
2021	27	4	2	**33**
2022	29	9	0	**38**
2023	29	4	0	**33**
2024	25	4	0	**29**

Table Metcalfe-5: Crash Distribution by Year

Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	9	0	0	**9**
BACKING	4	0	0	**4**
HEAD ON	1	1	1	**3**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	2	0	0	**2**
REAR TO REAR	2	0	0	**2**
SIDESWIPE-OPPOSITE	23	3	0	**26**
SIDESWIPE-SAME DIR	2	1	0	**3**
SINGLE VEHICLE	103	26	1	**130**

Exhibit Metcalfe-6: Crash Frequency and Severity by Manner of Collision

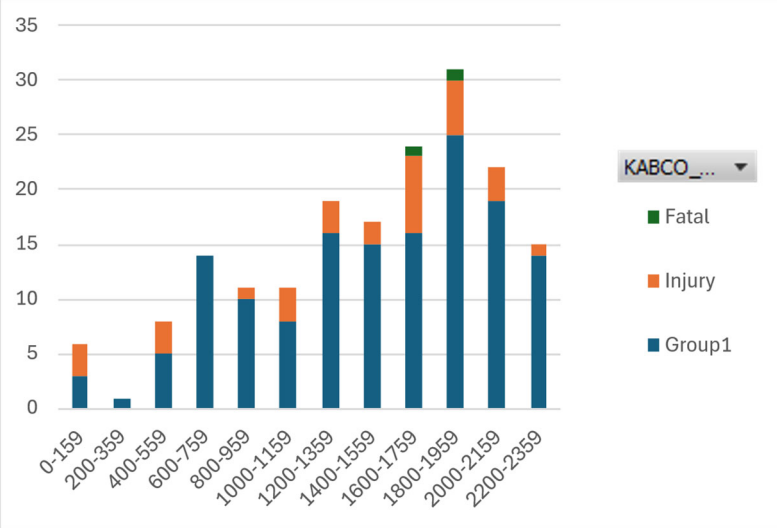


Exhibit Metcalfe-7: Crashes and Severity by Time of Day

Focus Roadways

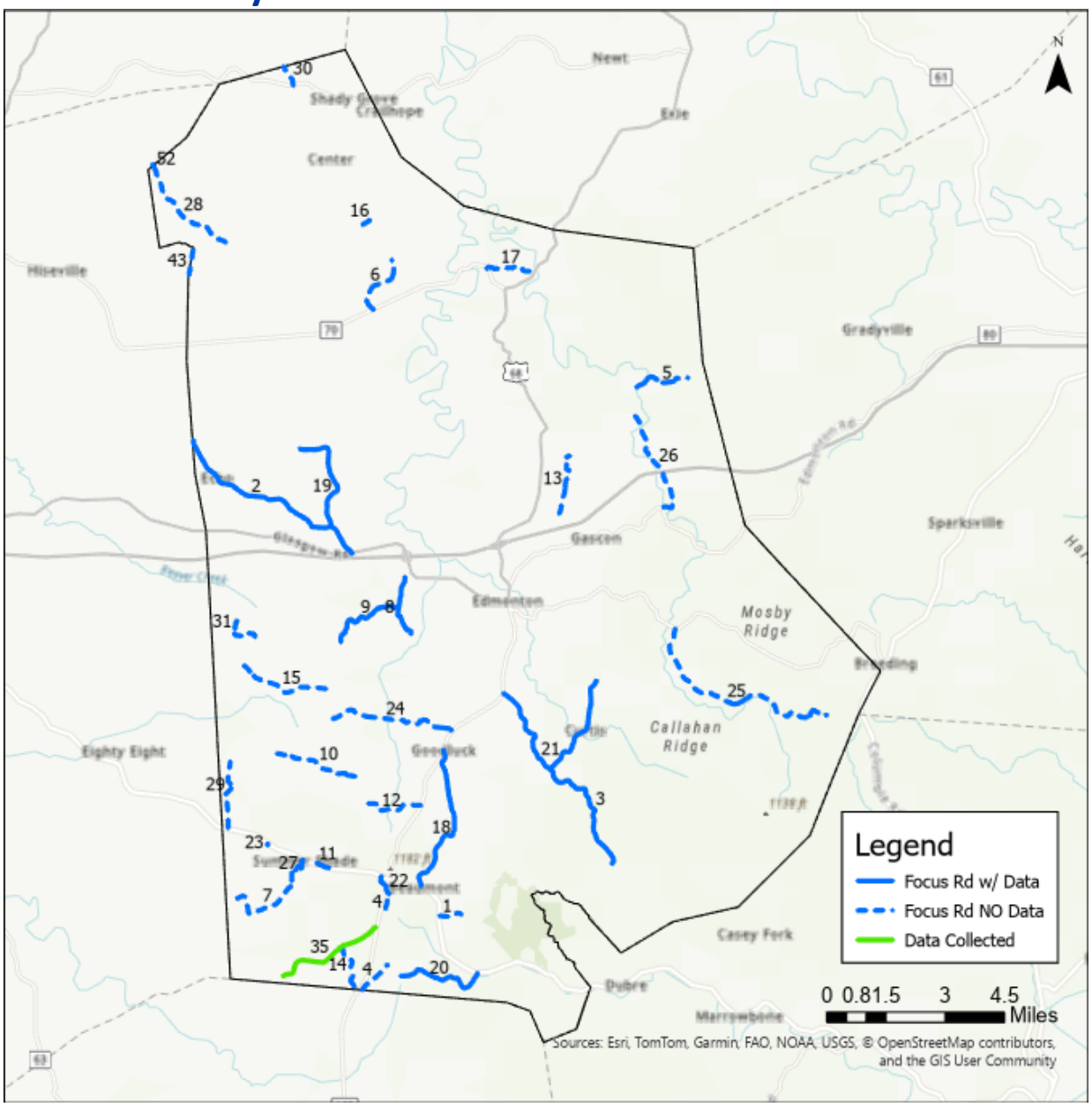


Exhibit Metcalfe-8: Focus Roads

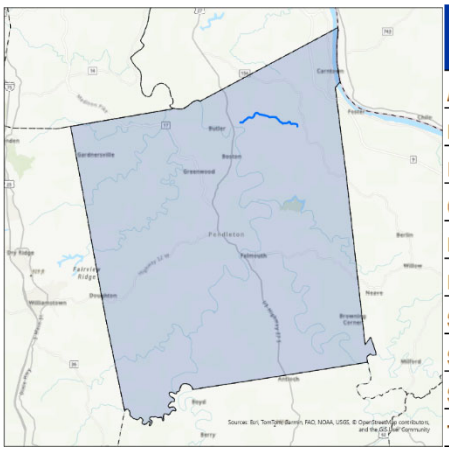
RT_UNIQUE	Length	County	Road Name	Injury Crash	Fatal Crash	PDO	Crash Score	Use Score	Rank	Focus Rd	Data
Metcalfe											
085-CR-1291 -000	0.59	Metcalfe	MARTIN CEMETERY RD	1	0	0	3.70	0.06	1	1	0
085-CR-1393 -000	4.58	Metcalfe	NEW LIBERTY BIG MEADOW RD	1	0	11	2.83	0.63	2	1	1
085-CR-1142 -000	3.44	Metcalfe	GLEN SHAW RD	1	0	2	2.17	1.66	3	1	1
085-CR-1340 -000	1.19	Metcalfe	OLD TOMPKINSVILLE RD	1	0	1	2.10	1.72	4	1	0
085-CR-1029 -000	2.05	Metcalfe	BRIDGEPORT KELTNER RD	1	0	1	2.10	1.10	5	1	0
085-CR-1314 -000	1.72	Metcalfe	BILL POYNTER RD	1	0	3	2.25	0.31	6	1	0
085-CR-1241 -000	2.95	Metcalfe	NOBOB SUMMER SHADE RD	1	0	3	2.25	0.16	7	1	0
085-CR-1278 -000	1.65	Metcalfe	SPRADLIN RD	1	0	2	2.17	0.26	8	1	1
085-CR-1274 -000	2.13	Metcalfe	COOMER RD	1	0	1	2.10	0.08	9	1	1
085-CR-1257 -000	2.17	Metcalfe	LYRON ESTES RD	1	0	0	2.03	0.21	10	1	0
085-CR-1247J -000	0.35	Metcalfe	CEMETERY RD	1	0	1	2.10	0.04	11	1	0
085-CR-1214 -000	1.63	Metcalfe	EARL SHIVES RD	1	0	0	2.03	0.15	12	1	0
085-CR-1009 -000	1.63	Metcalfe	JOE ACREE RD	1	0	0	2.03	0.10	13	1	0
085-CR-1231 -000	1.33	Metcalfe	GOODSON SCHOOL CYCLONE RD	1	0	0	2.03	0.05	14	1	0
085-CR-1264 -000	2.41	Metcalfe	WILBUR GLASS RD	1	0	0	2.03	0.05	15	1	0
085-CR-1410 -000	0.24	Metcalfe	GOT MILK RD	1	0	0	2.03	0.05	16	1	0
085-CR-1040 -000	1.33	Metcalfe	CEDAR TOP CHURCH RD	1	0	0	2.03	0.02	17	1	0
085-CR-1211 -000	4.03	Metcalfe	GOODLUCK BEAUMONT RD	0	2	3	1.67	0.30	18	1	1
085-CR-1368 -000	3.79	Metcalfe	CAVE RIDGE NEW LIBERTY RD	0	1	9	1.38	0.32	19	1	1
085-CR-1223 -000	2.45	Metcalfe	PECKERWOOD RIDGE RD	0	0	2	0.14	2.45	20	1	1
085-CR-1141 -000	5.27	Metcalfe	CEDAR FLAT CURTIS RD	0	0	10	0.72	1.15	21	1	1
085-CR-1221A -000	0.55	Metcalfe	BRANSTETTER PARK OLD TRACE RD	0	0	0	0.00	2.61	22	1	0
085-CR-1740 -000	0.05	Metcalfe	GILLIAM RD	0	0	0	0.00	2.54	23	1	0
085-CR-1206 -000	3.36	Metcalfe	RANDOLPH GOODLUCK RD	0	1	5	1.09	0.25	24	1	0
085-CR-1114 -000	6.70	Metcalfe	REESE HURT RD	0	1	2	0.87	0.38	25	1	0
085-CR-1020 -000	2.95	Metcalfe	JACK SPARKS RD	0	1	3	0.94	0.18	26	1	0
085-CR-1247C -000	0.24	Metcalfe	BRONSTON HOWARD RD	0	1	2	0.87	0.32	27	1	0
085-CR-1337 -000	2.90	Metcalfe	SAVOYARD PARK RD	0	0	4	0.29	1.24	28	1	0
085-CR-1252 -000	2.09	Metcalfe	FROEDGE DUBRE RD	0	1	0	0.72	0.21	29	1	0
085-CR-1329 -000	0.55	Metcalfe	ATWELL RD	0	0	2	0.14	1.31	30	1	0
085-CR-1267 -000	1.21	Metcalfe	MCCOY WITTY RD	0	1	0	0.72	0.10	31	1	0
085-CR-1227 -000	3.18	Metcalfe	APPLE GROVE RD	0	0	5	0.36	0.75	35	0	1

Exhibit Metcalfe-9: List of Focus Roadways

Recommended Improvements (Top 5 Roads)

NEW LIBERTY BIG MEADOW RD (085-CR-1393 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	0	0	0	**0**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	4	0	0	**4**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	7	1	0	**8**
Total	**11**	**1**	**0**	**12**

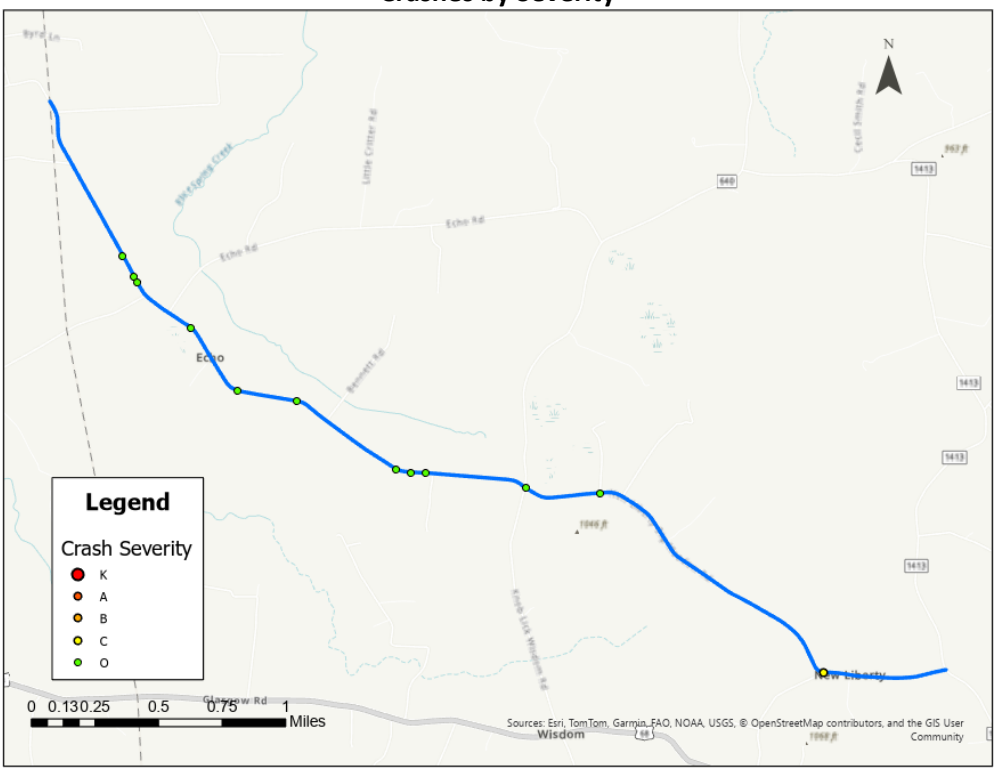
General Roadway Conditions

RT_UNIQUE	Road Name	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve
085-CR-1393 -000	NEW LIBERTY BIG MEADOW RD	15	4	1	0-20

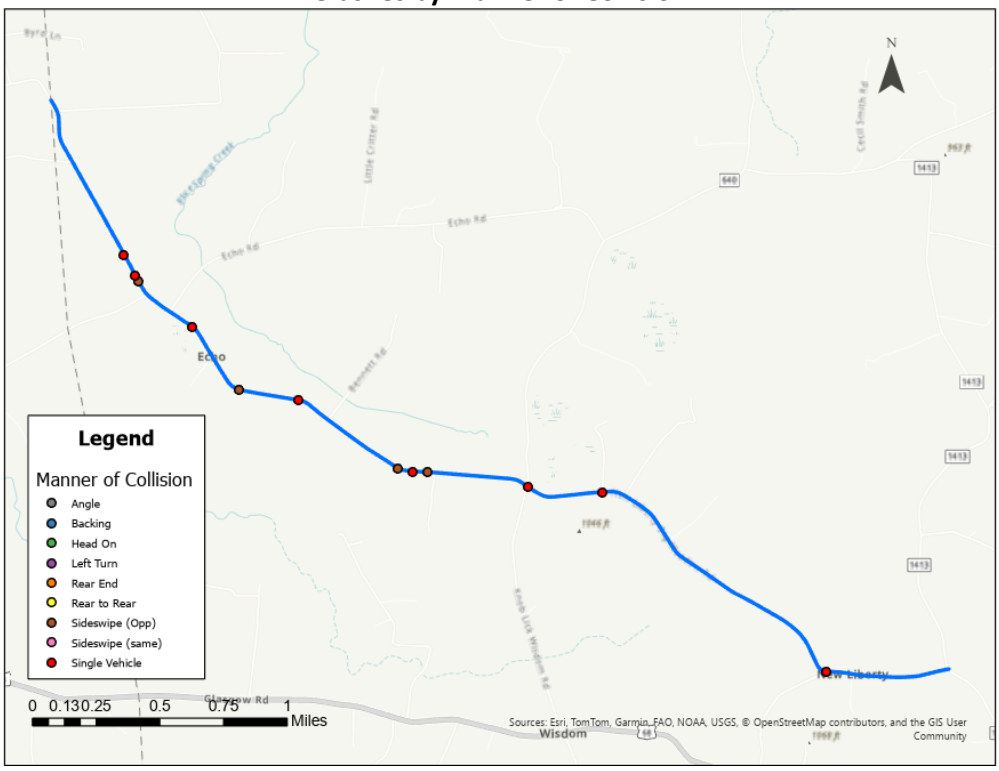
Roadway Typical Section



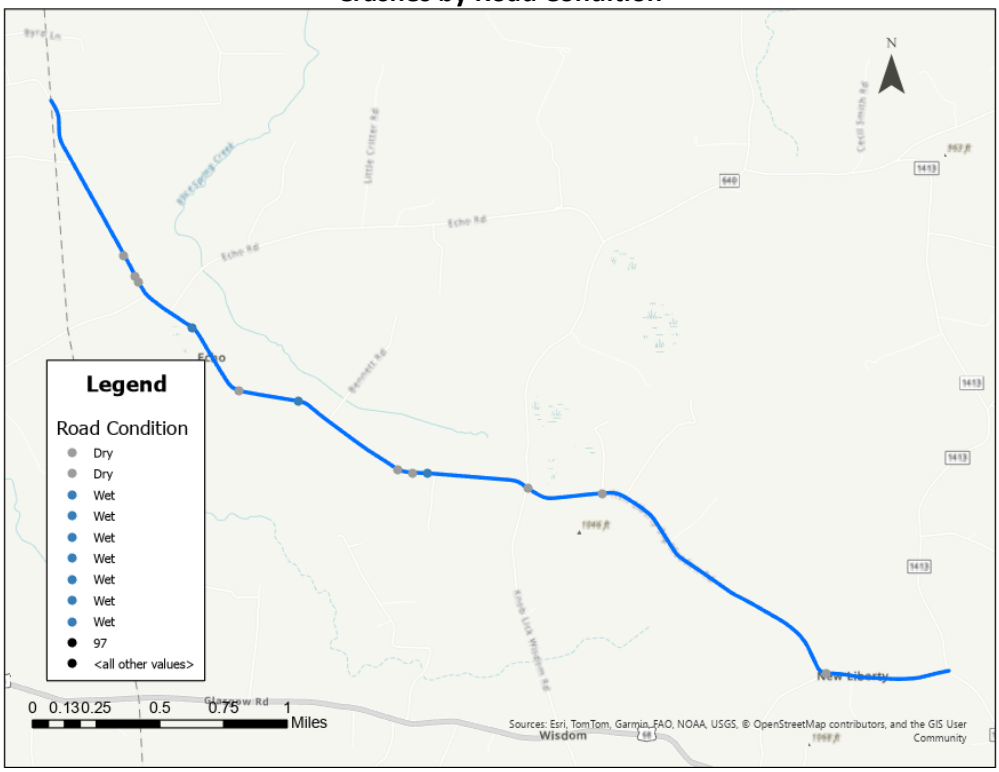
Crashes by Severity



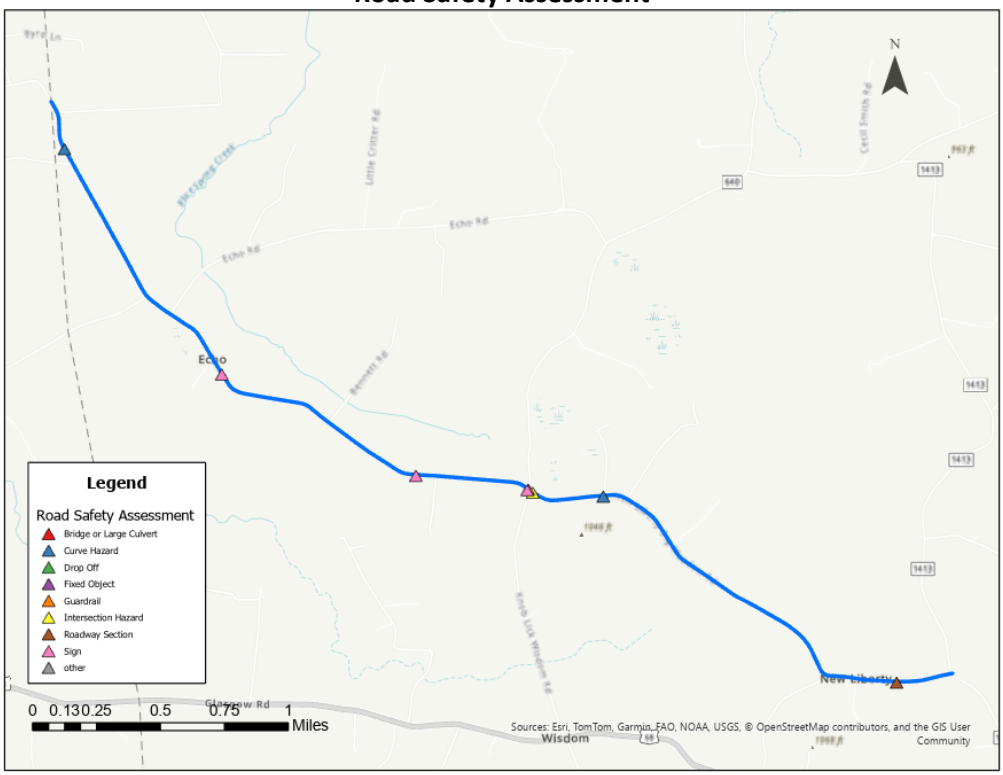
Crashes by Manner of Collision



Crashes by Road Condition



Road Safety Assessment



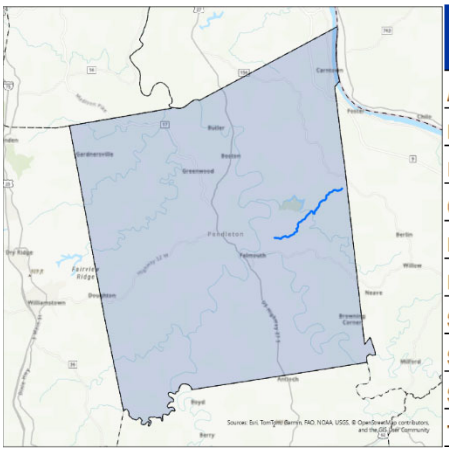
General Recommendations

Point ID	RT_UNIQUE	Road Name	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve	Additional Comments	Improve Shoulder	Edgeline[1]	Curve Signing
5056	085-CR-1393 -000	NEW LIBERTY BIG MEADOW RD	15	4	1	0-20	In good shape, few issues		✓	✓

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Recommendation	Comments
5049	085-CR-1393 -000	NEW LIBERTY BIG MEADOW RD	Intersection	No	Intersection_Skew	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Comments**	**Recommendation**
5051	085-CR-1393 -000	NEW LIBERTY BIG MEADOW RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5055	085-CR-1393 -000	NEW LIBERTY BIG MEADOW RD	Curve Hazard	No	Intersection_in_Curve,Entrance_in_Curve,Curve_Obscured	Install advance curve signing and chevrons

GLEN SHAW RD (085-CR-1142 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	0	0	0	**0**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	0	0	0	**0**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	3	1	0	**4**
Total	**3**	**1**	**0**	**4**

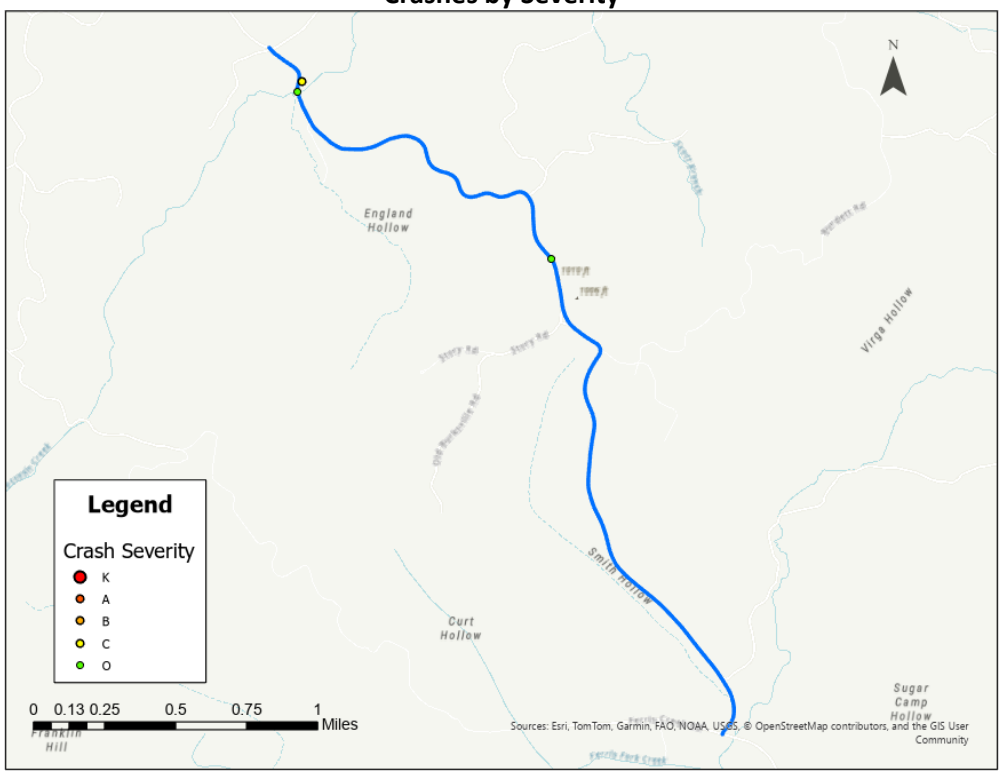
General Roadway Conditions

RT_UNIQUE	Road Name	Pvmt Width (f	Pavement Conditio	Roadside Hazard Rating	Shoulder Improve
085-CR-1142 -000	GLEN SHAW RD	15	3	3	0-20

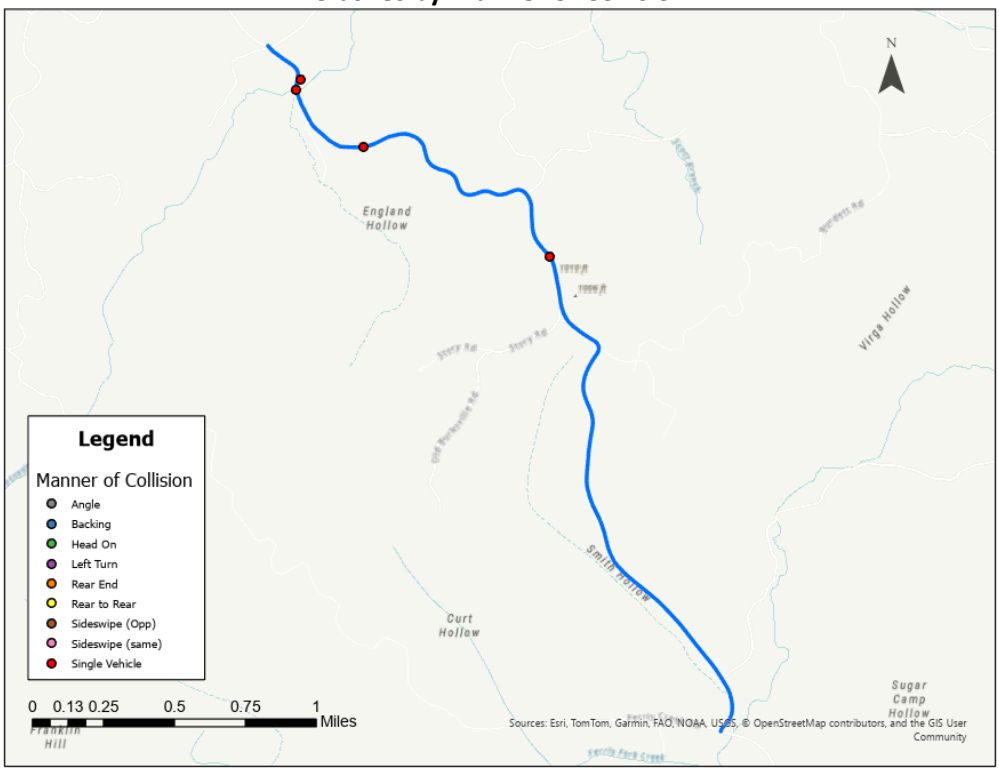
Roadway Typical Section



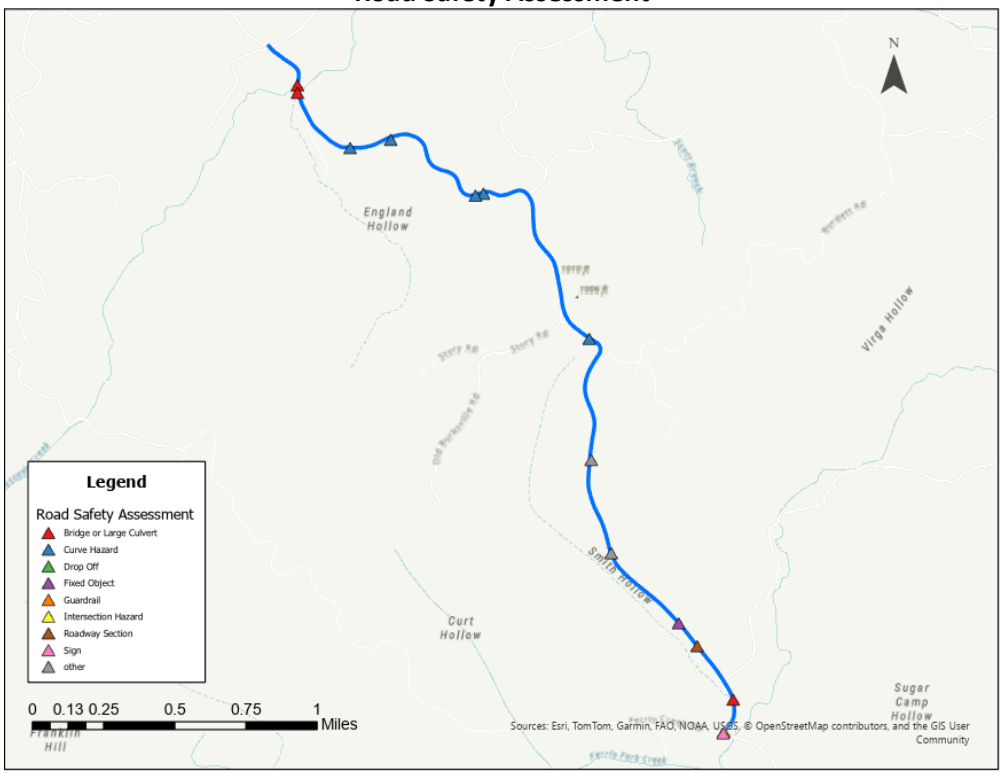
Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment



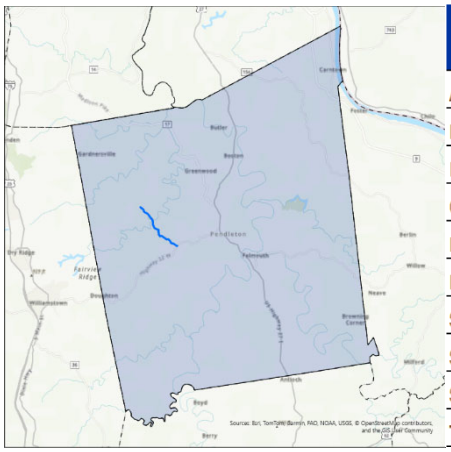
General Recommendations

Point ID	RT_UNIQUE	Road Name	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve	Additional Comments	Improve Shoulder	Edgeline[1]	Curve Signing
5094	085-CR-1142 -000	GLEN SHAW RD	15	3	3	0-20			✓	✓

Point ID	RT_UNIQUE	Road Name	Issue Type	Object	Offset	Recommendation
5095	085-CR-1142 -000	GLEN SHAW RD	Fixed Object	Utility Pole	1-3	Install Type 2 Object Marker
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Recommendation**	**Comments**
5091	085-CR-1142 -000	GLEN SHAW RD	Intersection	No	other; End of roadway	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Bridge Width**	**OM Present**	**Recommendation**
5086	085-CR-1142 -000	GLEN SHAW RD	Bridge or Large Culvert	15	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
5093	085-CR-1142 -000	GLEN SHAW RD	Bridge or Large Culvert	15	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5099	085-CR-1142 -000	GLEN SHAW RD	Bridge or Large Culvert	15	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Comments**	**Recommendation**
5087	085-CR-1142 -000	GLEN SHAW RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5088	085-CR-1142 -000	GLEN SHAW RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons
5089	085-CR-1142 -000	GLEN SHAW RD	Curve Hazard	No	Entrance_in_Curve,Curve_Obscured	Install advance curve signing and chevrons
5097	085-CR-1142 -000	GLEN SHAW RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons
5098	085-CR-1142 -000	GLEN SHAW RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
Point ID	**RT_UNIQUE**	**RD_NAME**	**Issue Type**	**--**	**Description**	**Recommendation**
5090	085-CR-1142 -000	GLEN SHAW RD	Other	0	Hill	Install "Hill Blocks Sight Distance" Sign.
5096	085-CR-1142 -000	GLEN SHAW RD	Other	0	Hill	Install "Hill Blocks Sight Distance" Sign.

SPRADLIN RD(085-CR-1278 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	1	0	0	**1**
BACKING	0	0	0	**0**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	0	0	0	**0**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	2	0	0	**2**
Total	**3**	**0**	**0**	**3**

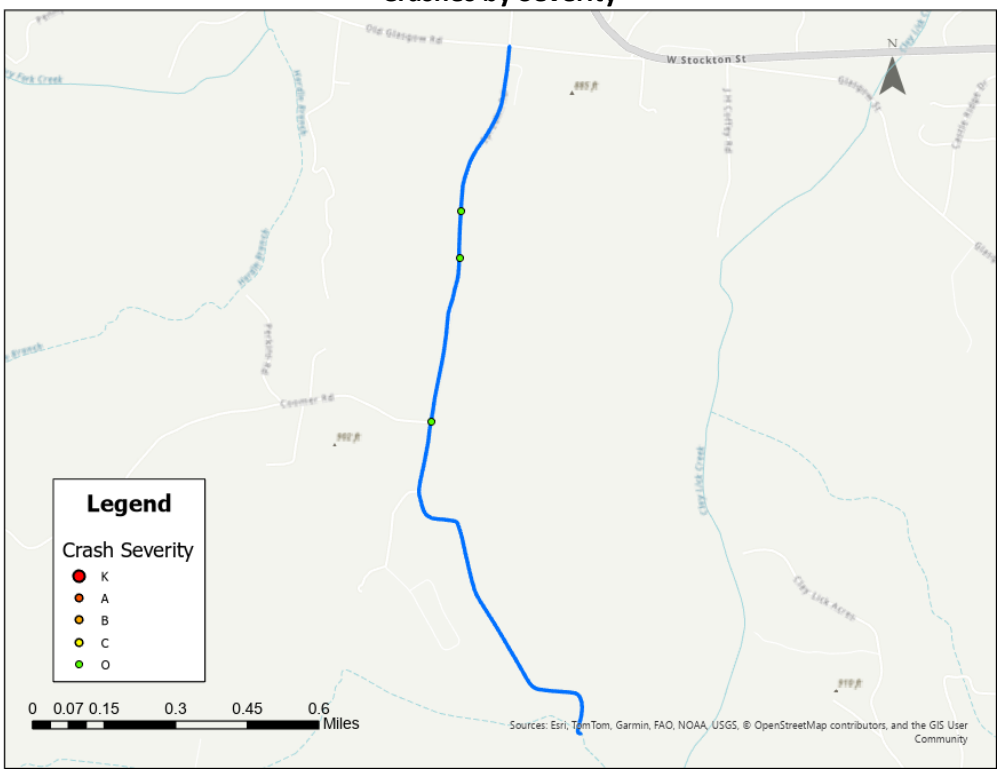
General Roadway Conditions

RT_UNIQUE	Road Name	Pvmt Width (f	Pavement Conditi	Roadside Hazard Rating	Shoulder Improve
085-CR-1278 -000	SPRADLIN RD	10	4	3	60-80

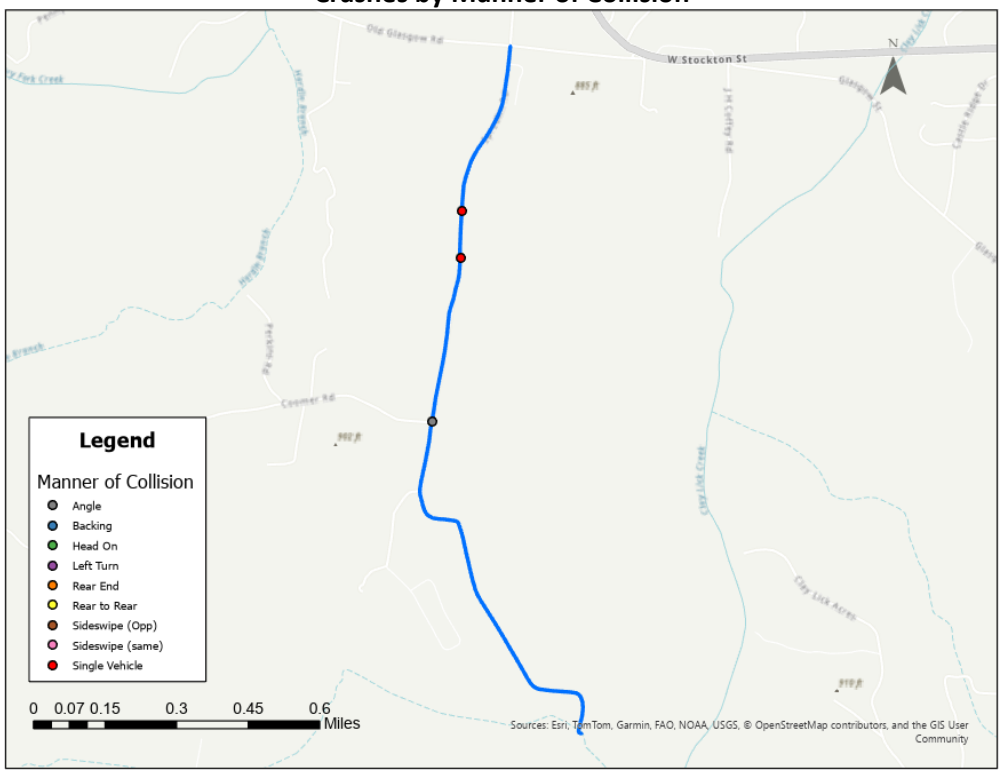
Roadway Typical Section



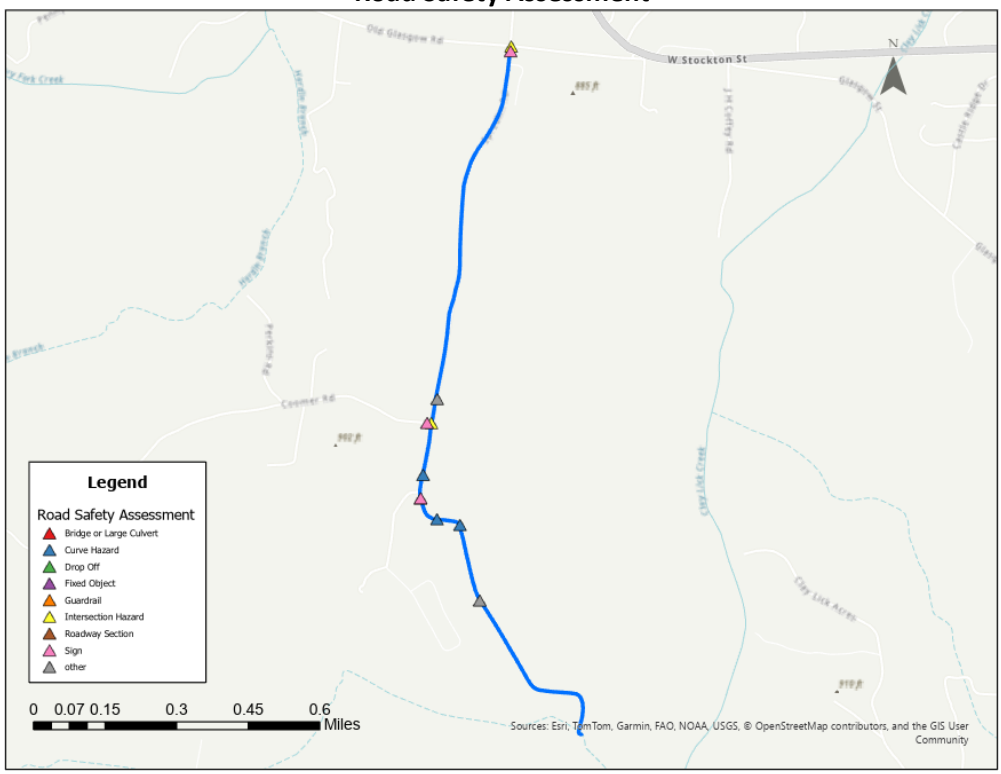
Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment



General Recommendations

Point ID	RT_UNIQUE	Road Name	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve	Additional Comments	Improve Shoulder	Edgeline[1]	Curve Signing
5061	085-CR-1278 -000	SPRADLIN RD	10	4	3	60-80	Very narrow section, no room for two cars	✓	✓	✓

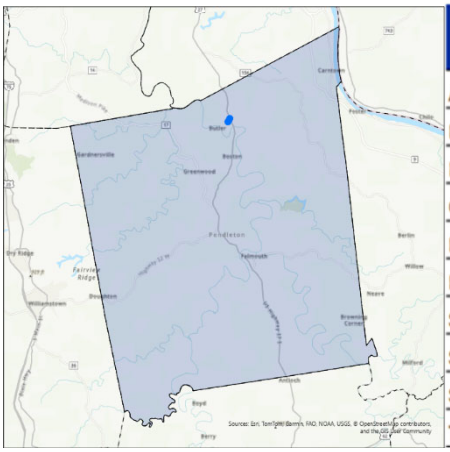
Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Recommendation	Comments
5066	085-CR-1278 -000	SPRADLIN RD	Intersection	No	other; End of road	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5084	085-CR-1278 -000	SPRADLIN RD	Intersection	No	other; End of road, no issues	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Comments	Recommendation
5059	085-CR-1278 -000	SPRADLIN RD	Curve Hazard	No	Intersection_in_Curve,Curve_Obscured	Install advance curve signing and chevrons
5063	085-CR-1278 -000	SPRADLIN RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5064	085-CR-1278 -000	SPRADLIN RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons

Point ID	RT_UNIQUE	RD_NAME	Issue Type	--	Description	Recommendation
5062	085-CR-1278 -000	SPRADLIN RD	Other	0	Hill	Install "Hill Blocks Sight Distance" Sign.
5065	085-CR-1278 -000	SPRADLIN RD	Other	0	Hill	Install "Hill Blocks Sight Distance" Sign.

COOMER RD (085-CR-1274 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	0	0	0	**0**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	0	0	0	**0**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	0	0	0	**0**
Total	**0**	**0**	**0**	**0**

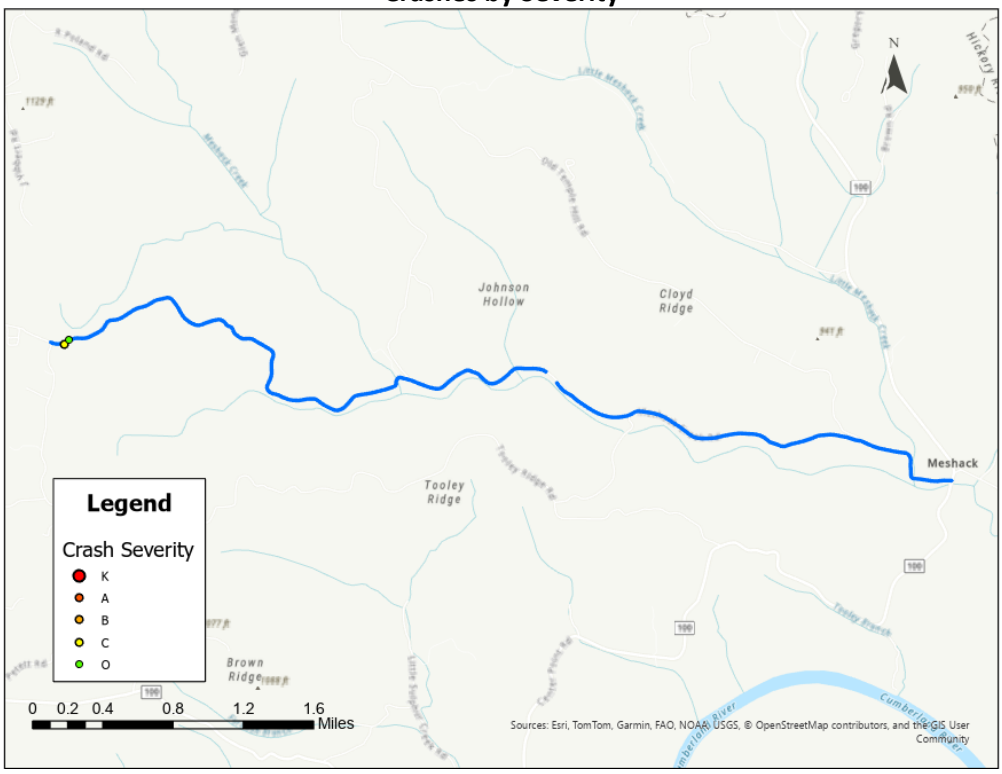
General Roadway Conditions

Roadway Section Data Not Collected

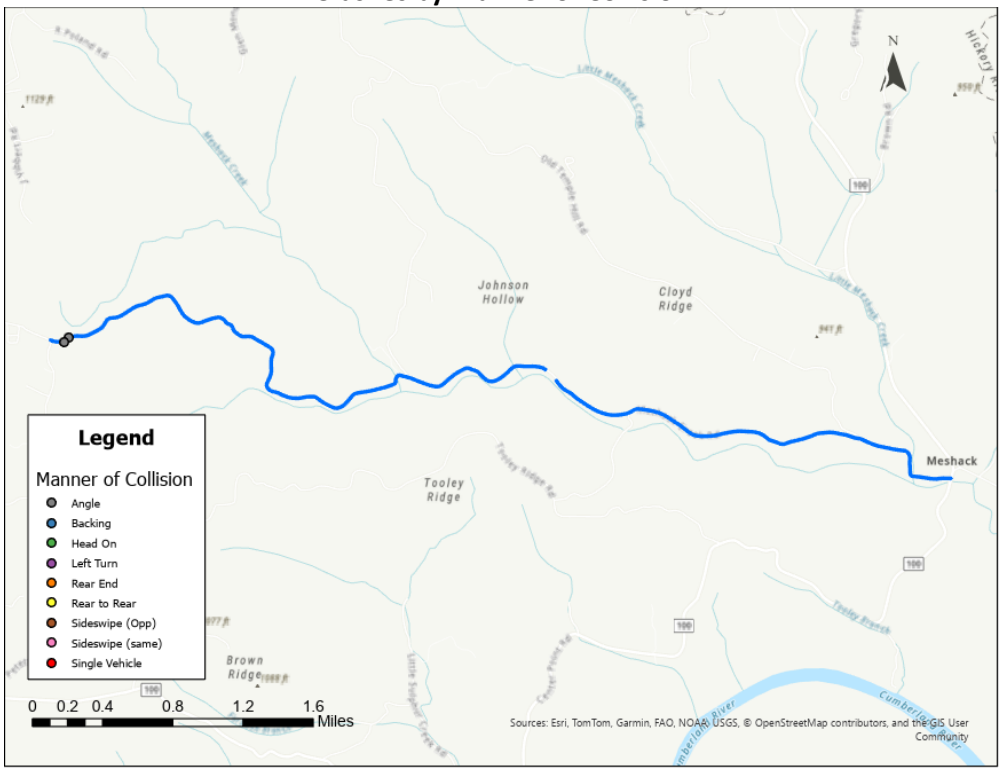
Roadway Typical Section



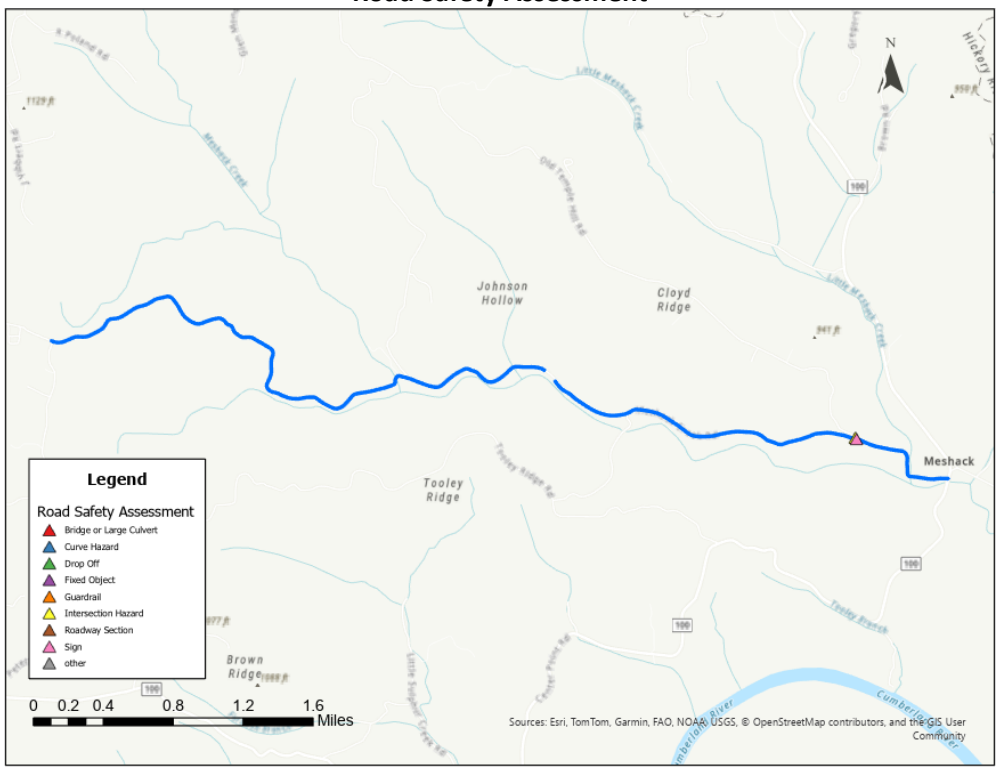
Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment

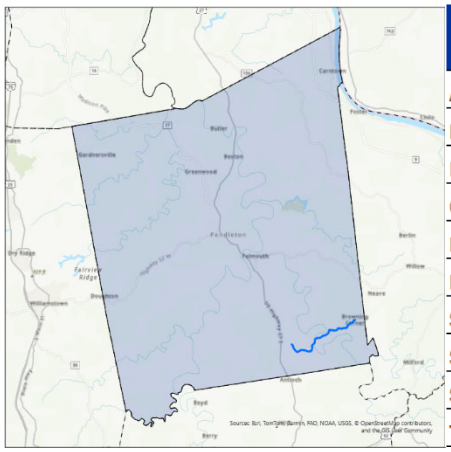


General Recommendations

Point ID	RT_UNIQUE	Road Name	Issue Type	Object	Offset	Recommendation
5080	085-CR-1274 -000	COOMER RD	Fixed Object	other; Transmission line	1-3	Install Type 2 Object Marker
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Recommendation**	**Comments**
5075	085-CR-1274 -000	COOMER RD	Intersection	No	Insufficient_Sight_Distance_at_,Intersection_Obscured_on_Approa	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Comments**	**Recommendation**
5069	085-CR-1274 -000	COOMER RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5070	085-CR-1274 -000	COOMER RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5071	085-CR-1274 -000	COOMER RD	Curve Hazard	Yes	Curve_Obscured	Install advance curve signing and chevrons
5072	085-CR-1274 -000	COOMER RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5073	085-CR-1274 -000	COOMER RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons
5074	085-CR-1274 -000	COOMER RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5077	085-CR-1274 -000	COOMER RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5078	085-CR-1274 -000	COOMER RD	Curve Hazard	Yes	vegetation	Install advance curve signing and chevrons
5079	085-CR-1274 -000	COOMER RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5081	085-CR-1274 -000	COOMER RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
Point ID	**RT_UNIQUE**	**RD_NAME**	**Issue Type**	**--**	**Description**	**Recommendation**
5083	085-CR-1274 -000	COOMER RD	Other	0	Hill	Install "Hill Blocks Sight Distance" Sign.

CLEMENTSVILLE RD (085-CR-1211 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	0	0	0	**0**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	2	0	0	**2**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	4	0	0	**4**
Total	**6**	**0**	**0**	**6**

General Roadway Conditions

RT_UNIQUE	Road Name	Pvmt Width (f	Pavement Conditi	Roadside Hazard Rating	Shoulder Improve
085-CR-1211 -000	GOODLUCK BEAUMONT RD	15	3	2	0-20

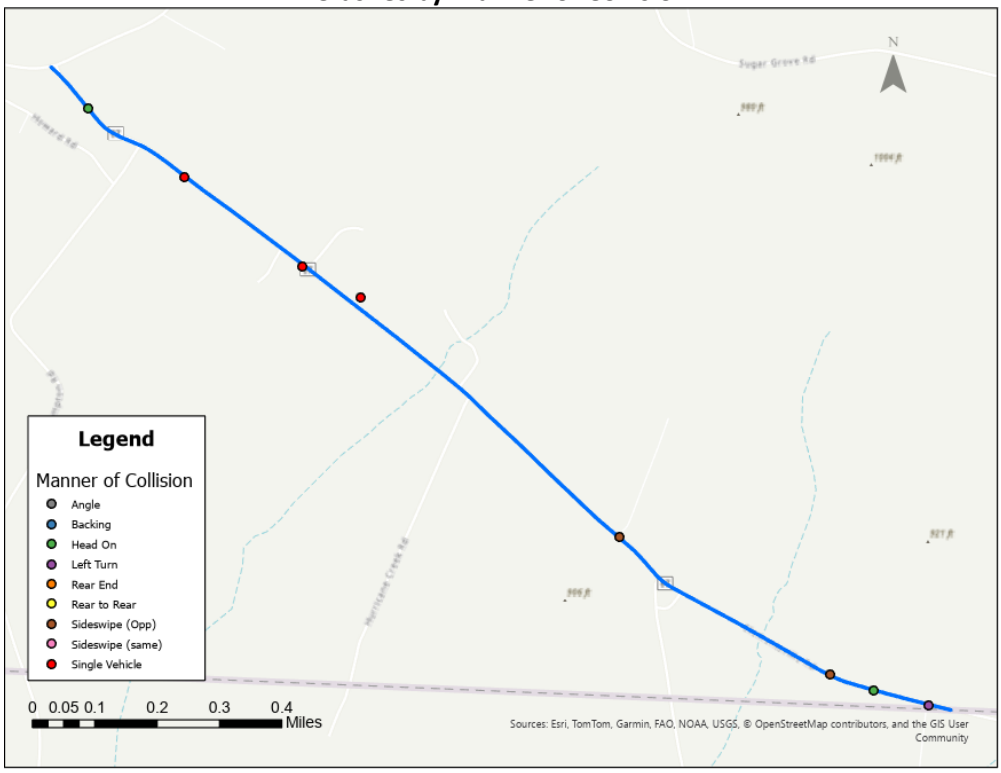
Roadway Typical Section



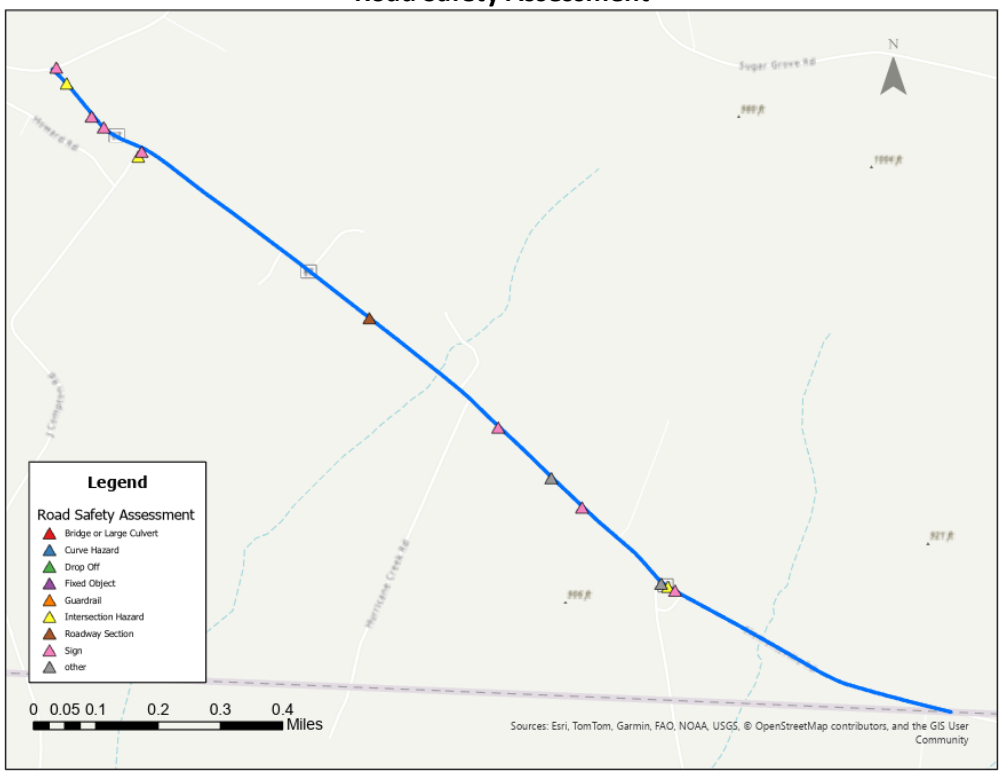
Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment



General Recommendations

Point ID	RT_UNIQUE	Road Name	Pvmt Width (ft	Pavement Conditi	Roadside Hazard Rating	Shoulder Improve	Additional Comments	Improve Should	Edgeline[1]	Curve Signin	Other Recommendations
5111	085-CR-1211 -000	GOODLUCK BEAUMONT RD	15	3	2	0-20	Lots of cracks on roadway		✓	✓	Consider crack sealing/seal coat

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Recommendation	Comments
5108	085-CR-1211 -000	GOODLUCK BEAUMONT RD	Intersection	No	other; No issue	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5110	085-CR-1211 -000	GOODLUCK BEAUMONT RD	Intersection	No	Intersection_Obscured_on_Approa	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5113	085-CR-1211 -000	GOODLUCK BEAUMONT RD	Intersection	Yes	Insufficient_Sight_Distance_at_,Intersection_Skew	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5114	085-CR-1211 -000	GOODLUCK BEAUMONT RD	Intersection	No	other; End of road, no issues	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Bridge Width**	**OM Present**	**Recommendation**
5102	085-CR-1211 -000	GOODLUCK BEAUMONT RD	Bridge or Large Culvert	15	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
5106	085-CR-1211 -000	GOODLUCK BEAUMONT RD	Bridge or Large Culvert	15	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5107	085-CR-1211 -000	GOODLUCK BEAUMONT RD	Bridge or Large Culvert	15	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
Point ID	**RT_UNIQUE**	**RD_NAME**	**Issue Type**	**--**	**Description**	**Recommendation**
5103	085-CR-1211 -000	GOODLUCK BEAUMONT RD	Other	0	Hill	Install "Hill Blocks Sight Distance" Sign.
5104	085-CR-1211 -000	GOODLUCK BEAUMONT RD	Other	0	Hill	Install "Hill Blocks Sight Distance" Sign.
5112	085-CR-1211 -000	GOODLUCK BEAUMONT RD	Other	0	Hill	Install "Hill Blocks Sight Distance" Sign.

Other Roadways

General Roadway Conditions and Recommendations (Metcalfe County)

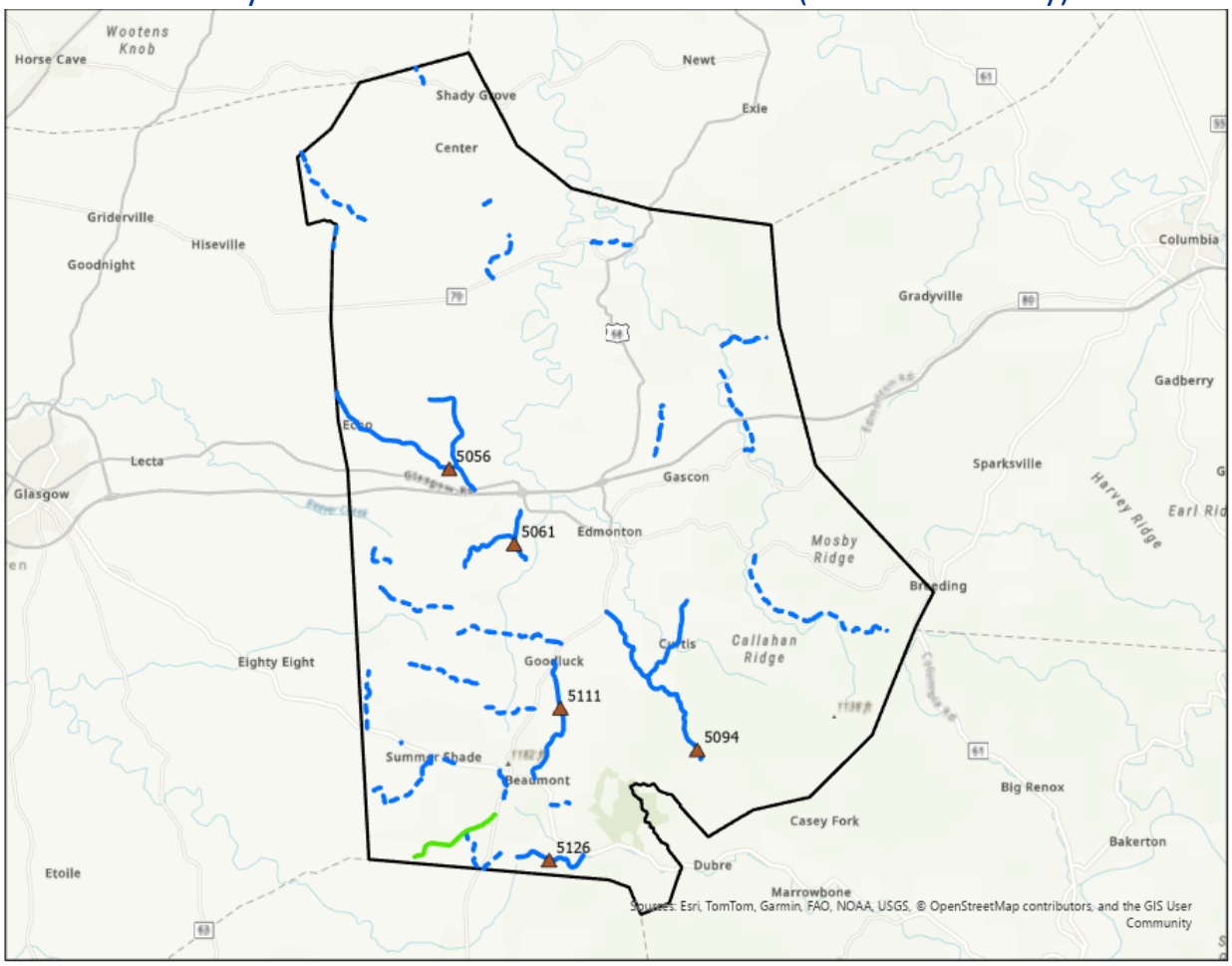


Exhibit Metcalfe-10: General Roadway Conditions

Point ID	RT_UNIQUE	Road Name	Pvmt Width (f	Pavement Conditi	Roadside Hazard Rating	Shoulder Improve	Additional Comments	Improve Should	Edgeline[1]	Curve Signin	Other Recommendations
5056	085-CR-1393 -000	NEW LIBERTY BIG MEADOW RD	15	4	1	0-20	In good shape, few issues		✓	✓	
5061	085-CR-1278 -000	SPRADLIN RD	10	4	3	60-80	Very narrow section, no room for two cars	✓	✓	✓	
5094	085-CR-1142 -000	GLEN SHAW RD	15	3	3	0-20			✓	✓	
5111	085-CR-1211 -000	GOODLUCK BEAUMONT RD	15	3	2	0-20	Lots of cracks on roadway		✓	✓	Consider crack sealing/seal coat
5126	085-CR-1223 -000	PECKERWOOD RIDGE RD	15	3	3	0-20	Several potholes throughout		✓	✓	Patch Potholes/Resurface

Exhibit Metcalfe-11: General Roadway Recommendations

Bridge / Culvert Recommendations (Metcalfe County)

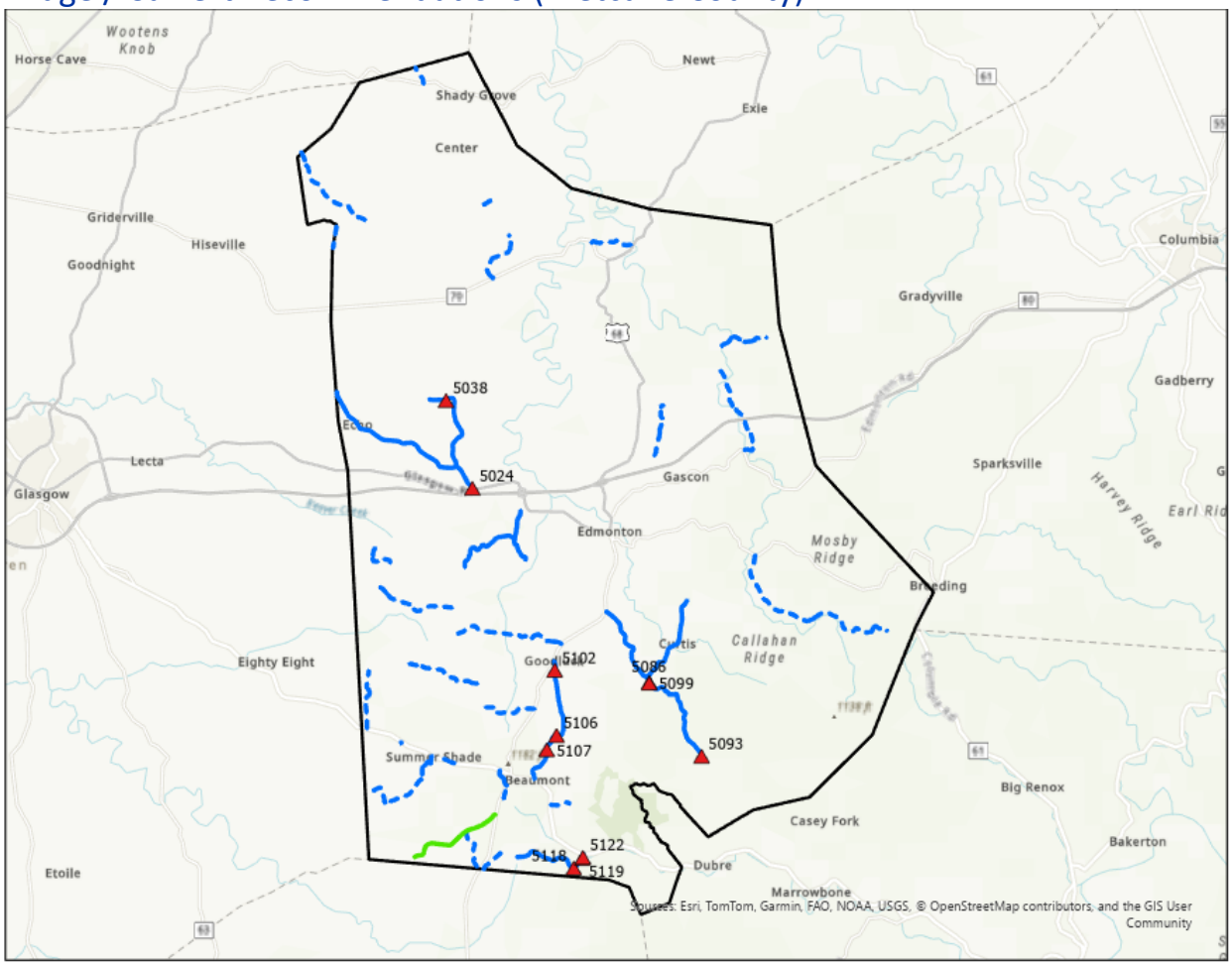


Exhibit Metcalfe-12: Bridge / Culvert Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Bridge Width	Guardrail Present	OM Present	Recommendation
5024	085-CR-1368 -000	CAVE RIDGE NEW LIBERTY RD	Bridge or Large Culvert	20	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure; Investigate identified gap between culvert and road.
5038	085-CR-1368 -000	CAVE RIDGE NEW LIBERTY RD	Bridge or Large Culvert	20	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5086	085-CR-1142 -000	GLEN SHAW RD	Bridge or Large Culvert	15	4	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
5093	085-CR-1142 -000	GLEN SHAW RD	Bridge or Large Culvert	15	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5099	085-CR-1142 -000	GLEN SHAW RD	Bridge or Large Culvert	15	4	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
5102	085-CR-1211 -000	GOODLUCK BEAUMONT RD	Bridge or Large Culvert	15	4	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
5106	085-CR-1211 -000	GOODLUCK BEAUMONT RD	Bridge or Large Culvert	15	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5107	085-CR-1211 -000	GOODLUCK BEAUMONT RD	Bridge or Large Culvert	15	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5118	085-CR-1223 -000	PECKERWOOD RIDGE RD	Bridge or Large Culvert	20	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5119	085-CR-1223 -000	PECKERWOOD RIDGE RD	Bridge or Large Culvert	15	4	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
5122	085-CR-1223 -000	PECKERWOOD RIDGE RD	Bridge or Large Culvert	15	4	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.

Exhibit Metcalfe-13: Bridge / Culvert Recommendations

Curve Recommendations (Metcalfe County)

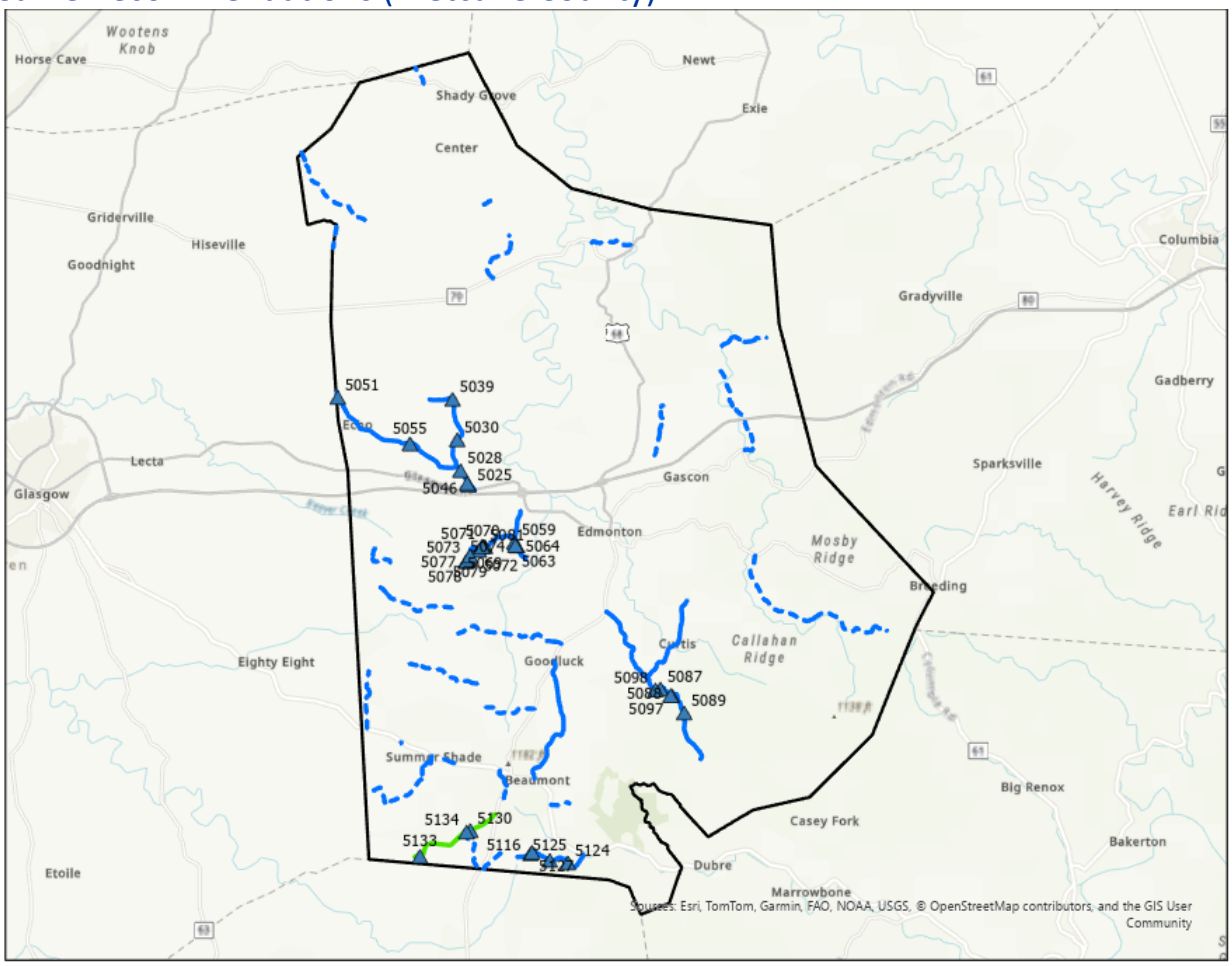


Exhibit Metcalfe-15: Curve Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Comments	Vegetation	Recommendation
5025	085-CR-1368 -000	CAVE RIDGE NEW LIBERTY RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5028	085-CR-1368 -000	CAVE RIDGE NEW LIBERTY RD	Curve Hazard	Curve_Obscured,Entrance_in_Curve	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection; Clear vegetation
5030	085-CR-1368 -000	CAVE RIDGE NEW LIBERTY RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
5039	085-CR-1368 -000	CAVE RIDGE NEW LIBERTY RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5046	085-CR-1368 -000	CAVE RIDGE NEW LIBERTY RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5051	085-CR-1393 -000	NEW LIBERTY BIG MEADOW RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5055	085-CR-1393 -000	NEW LIBERTY BIG MEADOW RD	Curve Hazard	Intersection_in_Curve,Entrance_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons
5059	085-CR-1278 -000	SPRADLIN RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
5063	085-CR-1278 -000	SPRADLIN RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5064	085-CR-1278 -000	SPRADLIN RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5069	085-CR-1274 -000	COOMER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5070	085-CR-1274 -000	COOMER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5071	085-CR-1274 -000	COOMER RD	Curve Hazard	Curve_Obscured	Yes	Install advance curve signing and chevrons
5072	085-CR-1274 -000	COOMER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5073	085-CR-1274 -000	COOMER RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
5074	085-CR-1274 -000	COOMER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5077	085-CR-1274 -000	COOMER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5078	085-CR-1274 -000	COOMER RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons
5079	085-CR-1274 -000	COOMER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5081	085-CR-1274 -000	COOMER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5087	085-CR-1142 -000	GLEN SHAW RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5088	085-CR-1142 -000	GLEN SHAW RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
5089	085-CR-1142 -000	GLEN SHAW RD	Curve Hazard	Entrance_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons
5097	085-CR-1142 -000	GLEN SHAW RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
5098	085-CR-1142 -000	GLEN SHAW RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5116	085-CR-1223 -000	PECKERWOOD RIDGE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5124	085-CR-1223 -000	PECKERWOOD RIDGE RD	Curve Hazard	Curve_Obscured,Entrance_in_Curve	No	Install advance curve signing and chevrons
5125	085-CR-1223 -000	PECKERWOOD RIDGE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5127	085-CR-1223 -000	PECKERWOOD RIDGE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5130	085-CR-1227 -000	APPLE GROVE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5133	085-CR-1227 -000	APPLE GROVE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5134	085-CR-1227 -000	APPLE GROVE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons

Exhibit Metcalfe-16: Curve Recommendations

Roadside Drop Off Recommendations (Metcalfe County)

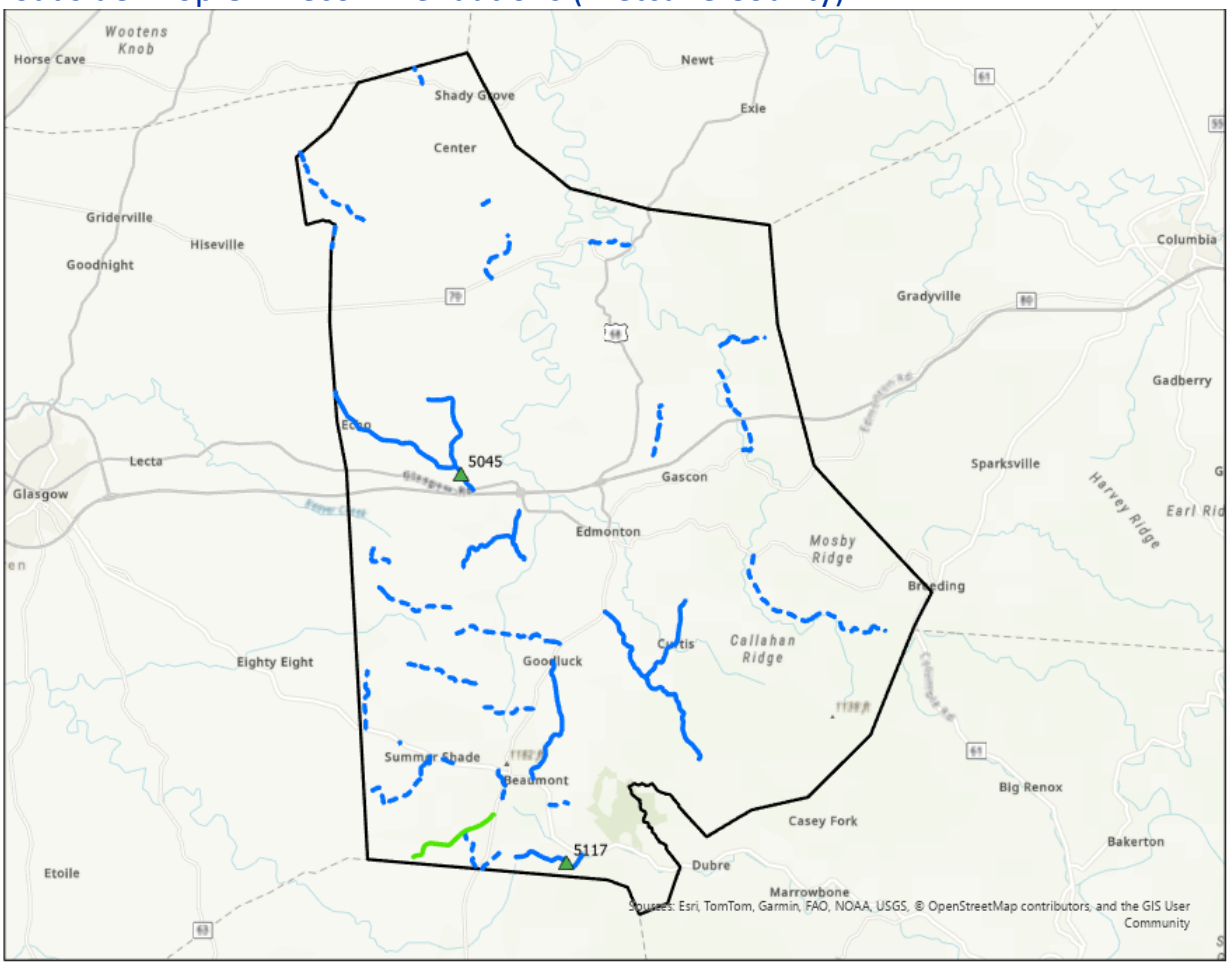


Exhibit Metcalfe-17: Roadside Drop Off Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Drop Off Offset	Drop Off Height	Additional Comments	Recommendation
5045	085-CR-1368 -000	CAVE RIDGE NEW LIBERTY RD	Drop Off	>5	>10		--
5117	085-CR-1223 -000	PECKERWOOD RIDGE RD	Drop Off	>5	>10		--

Exhibit Metcalfe-18: Roadside Drop Off Recommendations

Fixed Object Recommendations (Metcalfe County)

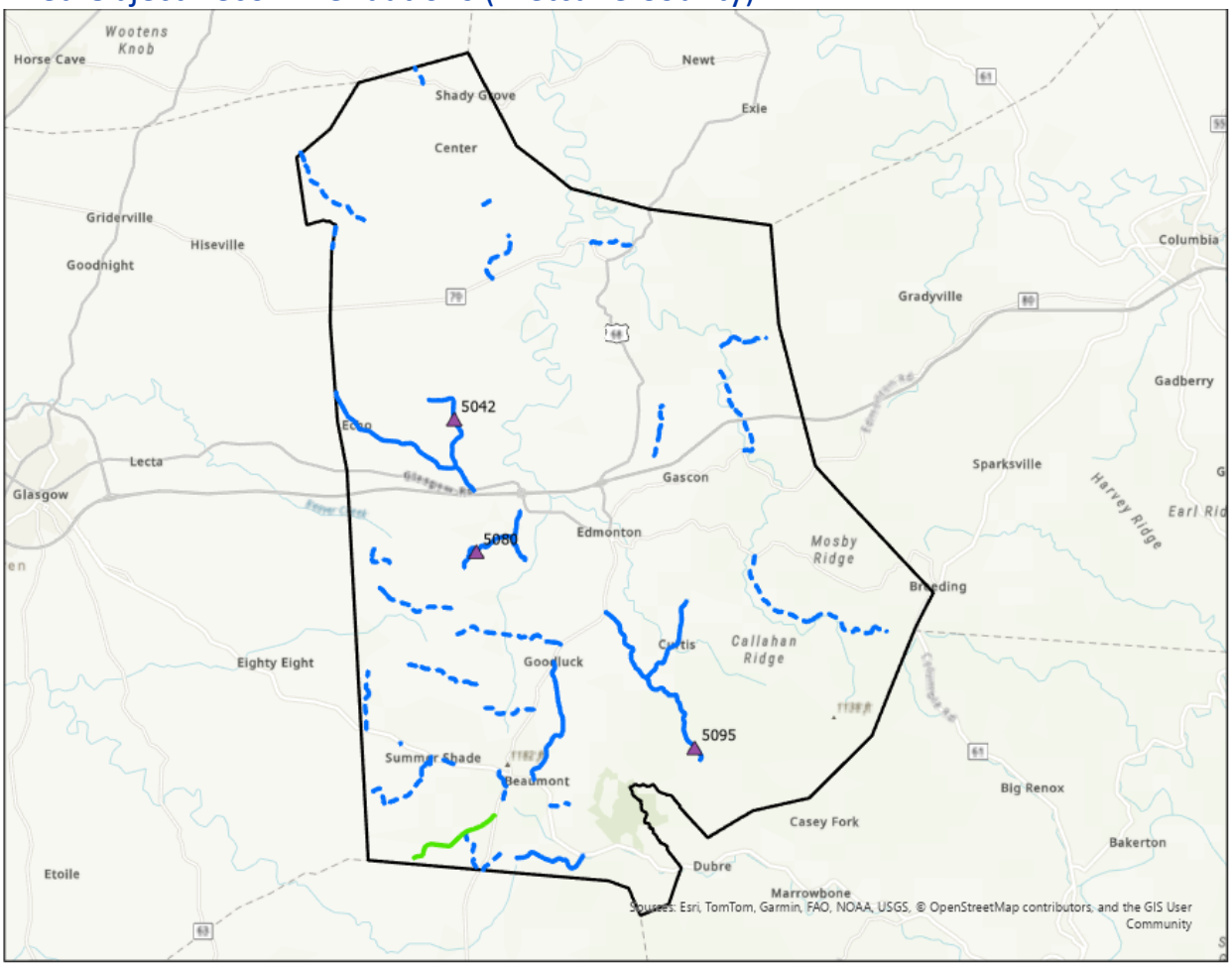


Exhibit Metcalfe-19: Fixed Object Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Object	Single / Series	Offset	Recommendation
5042	085-CR-1368 -000	CAVE RIDGE NEW LIBERTY RD	Fixed Object	Tree	Series	3-5	Remove if possible
5080	085-CR-1274 -000	COOMER RD	Fixed Object	other; Transmission line	Single	1-3	Install Type 2 Object Marker
5095	085-CR-1142 -000	GLEN SHAW RD	Fixed Object	Utility Pole	Single	1-3	Install Type 2 Object Marker

Exhibit Metcalfe-20: Fixed Object Recommendations

Guardrail Recommendations (Metcalfe County)

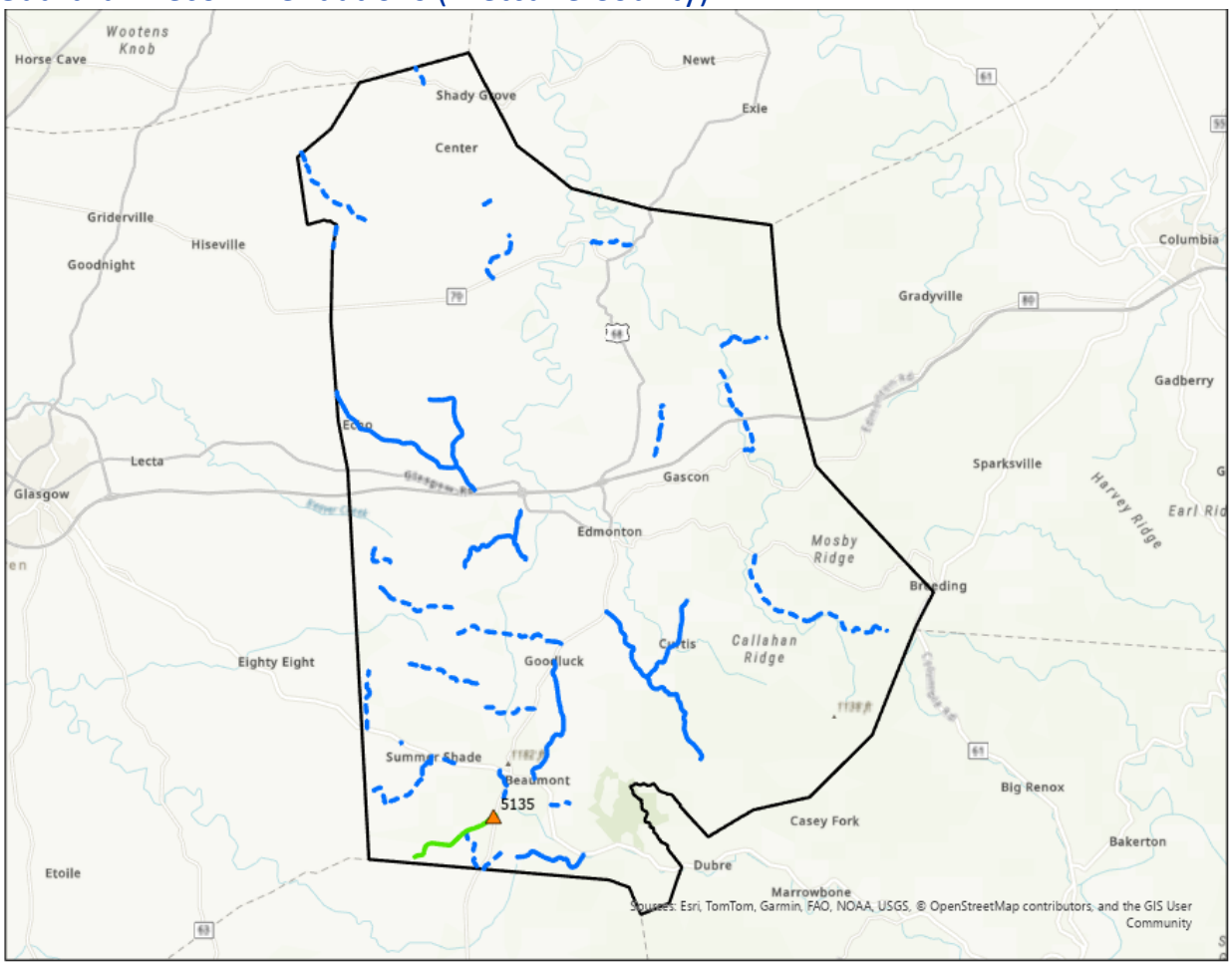


Exhibit Metcalfe-21: Guardrail Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Condition	Meet Warrant	End Treatmen	Recommendation
5135	085-CR-1227 -000	APPLE GROVE RD	Guardrail	Good	Yes	All_	--

Exhibit Metcalfe-22: Guardrail Recommendations

Intersection Recommendations (Metcalfe County)

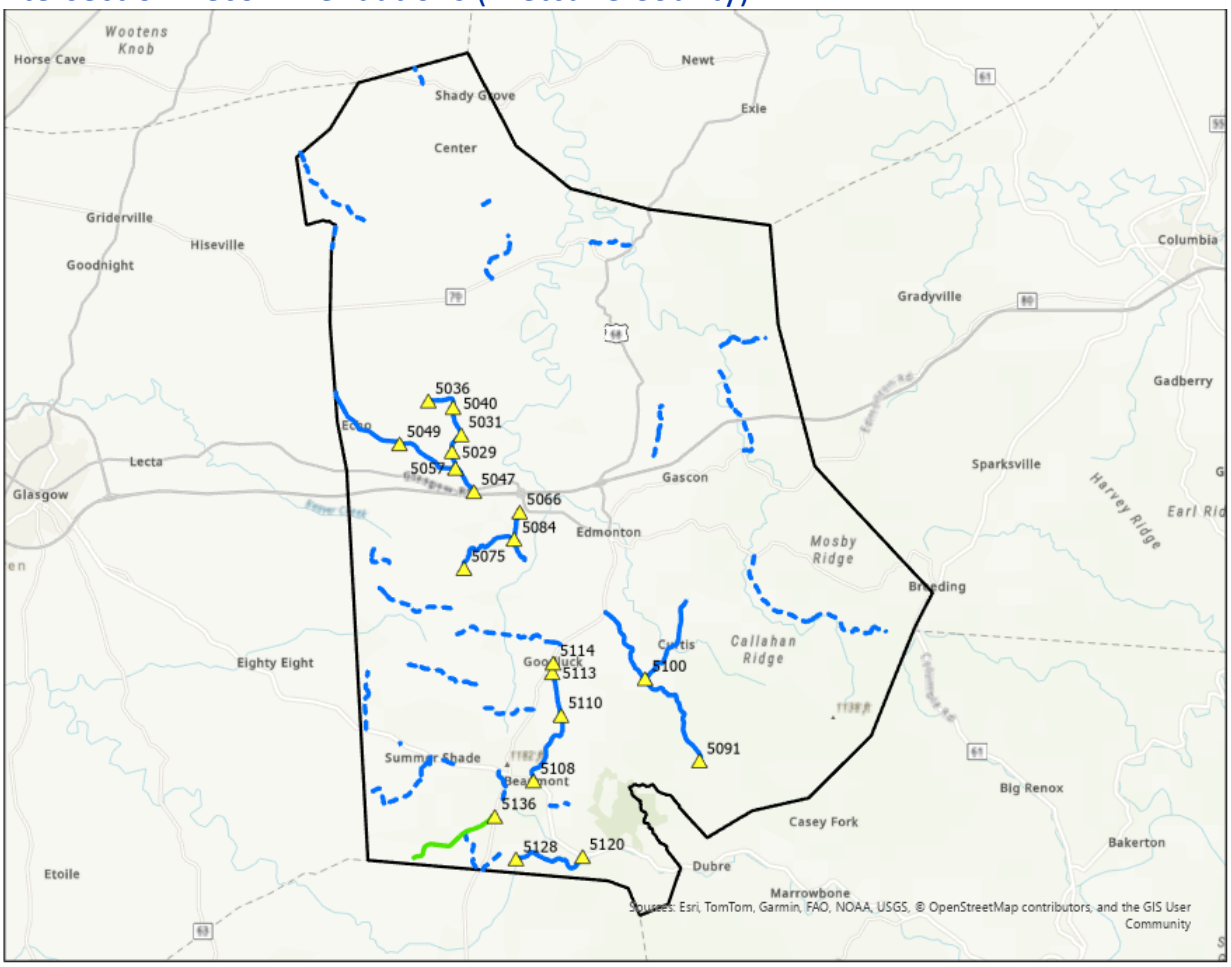


Exhibit Metcalfe-23: Intersection Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Comments	Recommendations
5029	085-CR-1368 -000	CAVE RIDGE NEW LIBERTY RD	Intersection	Yes	Intersection_Obscured_on_Appro a	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5031	085-CR-1368 -000	CAVE RIDGE NEW LIBERTY RD	Intersection	No	Intersection_Obscured_on_Appro a	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5036	085-CR-1368 -000	CAVE RIDGE NEW LIBERTY RD	Intersection	No	Intersection_Obscured_on_Appro a	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5040	085-CR-1368 -000	CAVE RIDGE NEW LIBERTY RD	Intersection	No	Intersection_Obscured_on_Appro a	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5047	085-CR-1368 -000	CAVE RIDGE NEW LIBERTY RD	Intersection	No	other; End of road	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5049	085-CR-1393 -000	NEW LIBERTY BIG MEADOW RD	Intersection	No	Intersection_Skew	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5057	085-CR-1368 -000	CAVE RIDGE NEW LIBERTY RD	Intersection	No	other; End of roadway	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5066	085-CR-1278 -000	SPRADLIN RD	Intersection	No	other; End of road	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5075	085-CR-1274 -000	COOMER RD	Intersection	No	Insufficient_Sight_Distance_at_,I ntersection_Obscured_on_Appro a	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5084	085-CR-1278 -000	SPRADLIN RD	Intersection	No	other; End of road, no issues	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5091	085-CR-1142 -000	GLEN SHAW RD	Intersection	No	other; End of roadway	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5100	085-CR-1141 -000	CEDAR FLAT CURTIS RD	Intersection	No	other; No issues, end of roadway	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5108	085-CR-1211 -000	GOODLUCK BEAUMONT RD	Intersection	No	other; No issue	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5110	085-CR-1211 -000	GOODLUCK BEAUMONT RD	Intersection	No	Intersection_Obscured_on_Appro a	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5113	085-CR-1211 -000	GOODLUCK BEAUMONT RD	Intersection	Yes	Insufficient_Sight_Distance_at_,I ntersection_Skew	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5114	085-CR-1211 -000	GOODLUCK BEAUMONT RD	Intersection	No	other; End of road, no issues	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5120	085-CR-1223 -000	PECKERWOOD RIDGE RD	Intersection	No	other; No issues, end	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5128	085-CR-1223 -000	PECKERWOOD RIDGE RD	Intersection	No	other; End of road, no issue	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
5136	085-CR-1227 -000	APPLE GROVE RD	Intersection	No	other; Busy roadway	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs

Exhibit Metcalfe-24: Intersection Recommendations

Other Recommendations (Metcalfe County)

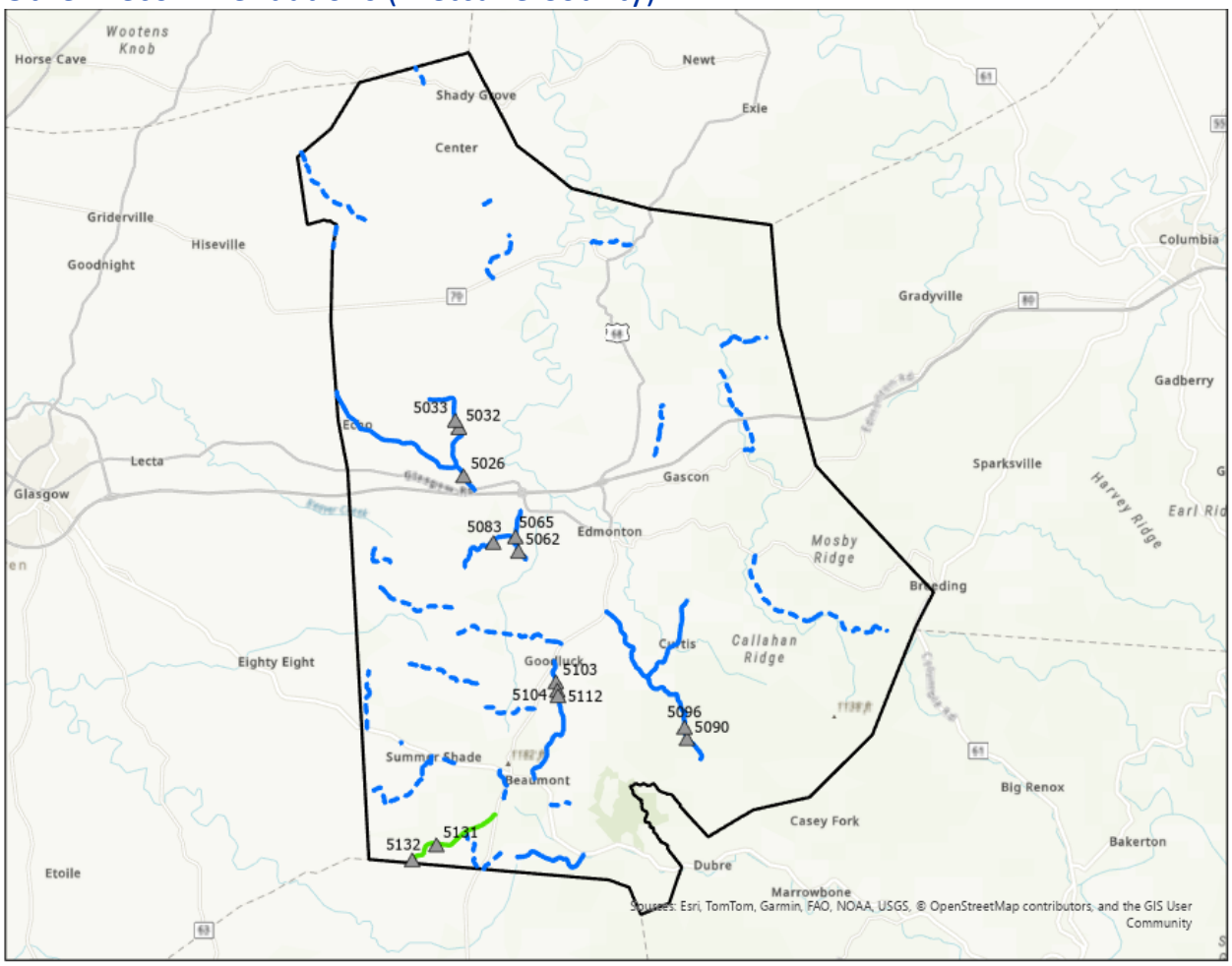


Exhibit Metcalfe-25: Intersection Locations

Point ID	RT_UNIQUE	RD_NAME	Issue Type	Description	Recommendation
5026	085-CR-1368 -000	CAVE RIDGE NEW LIBERTY RD	Other	Hill	Install "Hill Blocks Sight Distance" Sign.
5032	085-CR-1368 -000	CAVE RIDGE NEW LIBERTY RD	Other	Hill	Install "Hill Blocks Sight Distance" Sign.
5033	085-CR-1368 -000	CAVE RIDGE NEW LIBERTY RD	Other	Hill	Install "Hill Blocks Sight Distance" Sign.
5062	085-CR-1278 -000	SPRADLIN RD	Other	Hill	Install "Hill Blocks Sight Distance" Sign.
5065	085-CR-1278 -000	SPRADLIN RD	Other	Hill	Install "Hill Blocks Sight Distance" Sign.
5083	085-CR-1274 -000	COOMER RD	Other	Hill	Install "Hill Blocks Sight Distance" Sign.
5090	085-CR-1142 -000	GLEN SHAW RD	Other	Hill	Install "Hill Blocks Sight Distance" Sign.
5096	085-CR-1142 -000	GLEN SHAW RD	Other	Hill	Install "Hill Blocks Sight Distance" Sign.
5103	085-CR-1211 -000	GOODLUCK BEAUMONT RD	Other	Hill	Install "Hill Blocks Sight Distance" Sign.
5104	085-CR-1211 -000	GOODLUCK BEAUMONT RD	Other	Hill	Install "Hill Blocks Sight Distance" Sign.
5112	085-CR-1211 -000	GOODLUCK BEAUMONT RD	Other	Hill	Install "Hill Blocks Sight Distance" Sign.
5131	085-CR-1227 -000	APPLE GROVE RD	Other	Hill	Install "Hill Blocks Sight Distance" Sign.
5132	085-CR-1227 -000	APPLE GROVE RD	Other	Hill	Install "Hill Blocks Sight Distance" Sign.

Exhibit Metcalfe-26: Intersection Recommendations

Signing Recommendations (Metcalfe County)

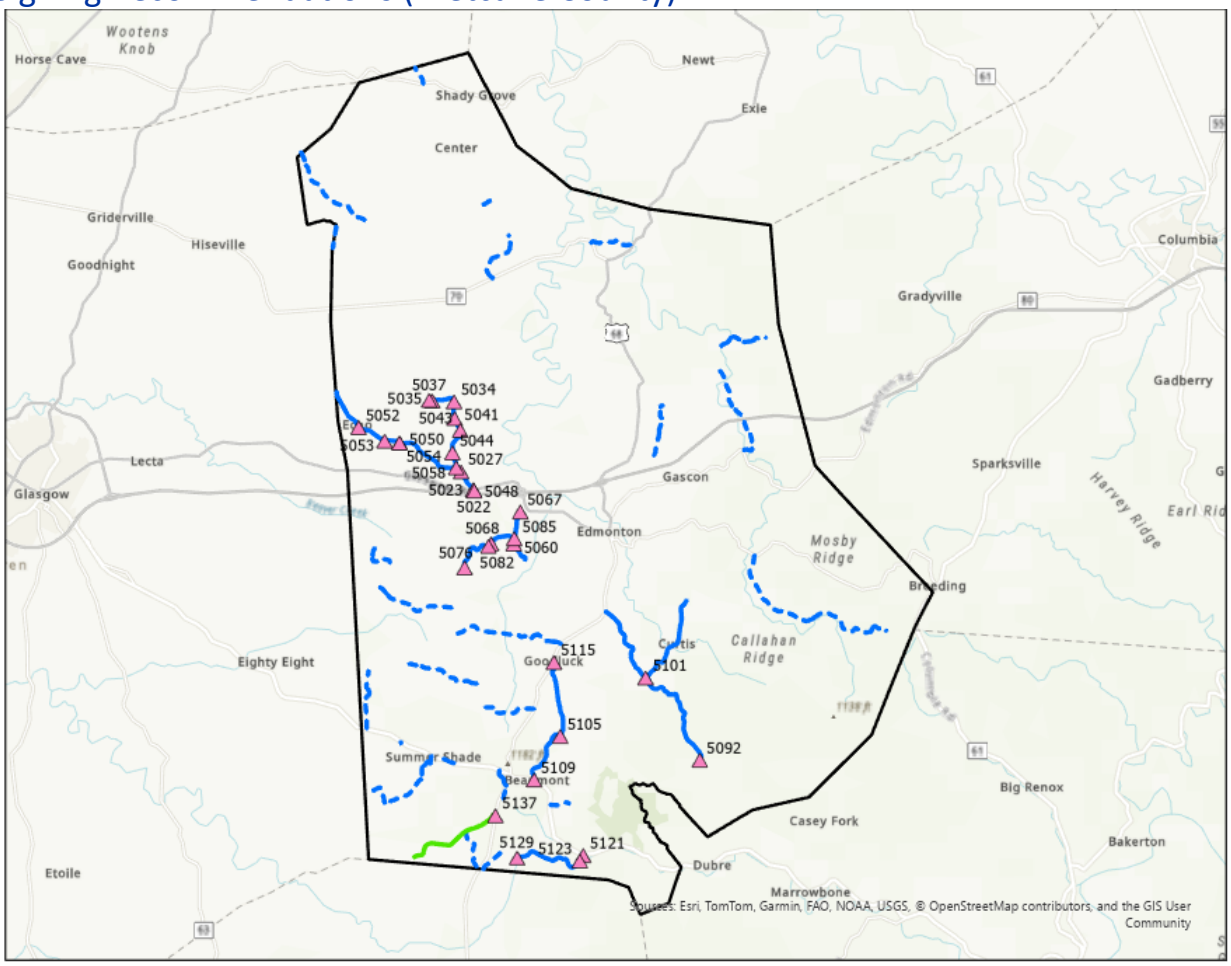


Exhibit Metcalfe-27: Sign Locations

As part of the RSA data collection effort, existing signs were inventoried along reviewed Focus Roadways, including a condition assessment and a photo of each sign. Additionally, preliminary Advisory Speed recommendations were calculated for each focus roadway to assist in the installation of horizontal alignment (curve) signs. Signing and advisory speed information is provided in digital format at https://kyt2.uky.edu/braddSAP.

APPENDIX K: MONROE COUNTY SAFETY ACTION PLAN

Monroe County Overview

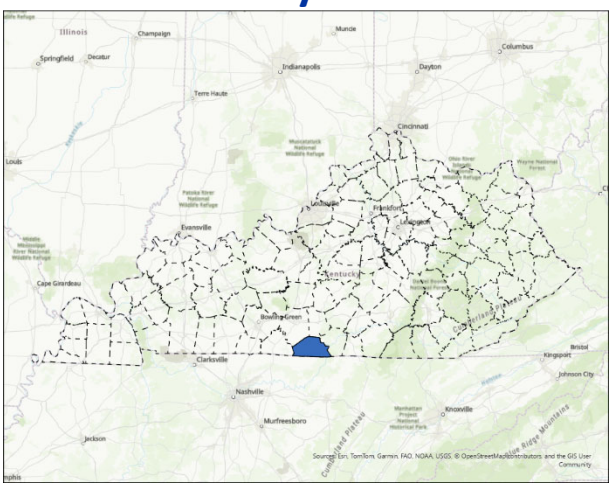


Exhibit Monroe-1: Location Map

Key Information Table Monroe County	
Population	11,306
Population in Persistent Poverty	27%
Underserved Community	**Yes**
Fatalities (All Roads)	7
Fatalities (County Roads)	1
Fatality Rate per 100,000 persons	**61.91**
County Road Mileage	384.0
State Road Mileage	205.0
Total Mileage	**589.1**

Exhibit Monroe-2: Key Information

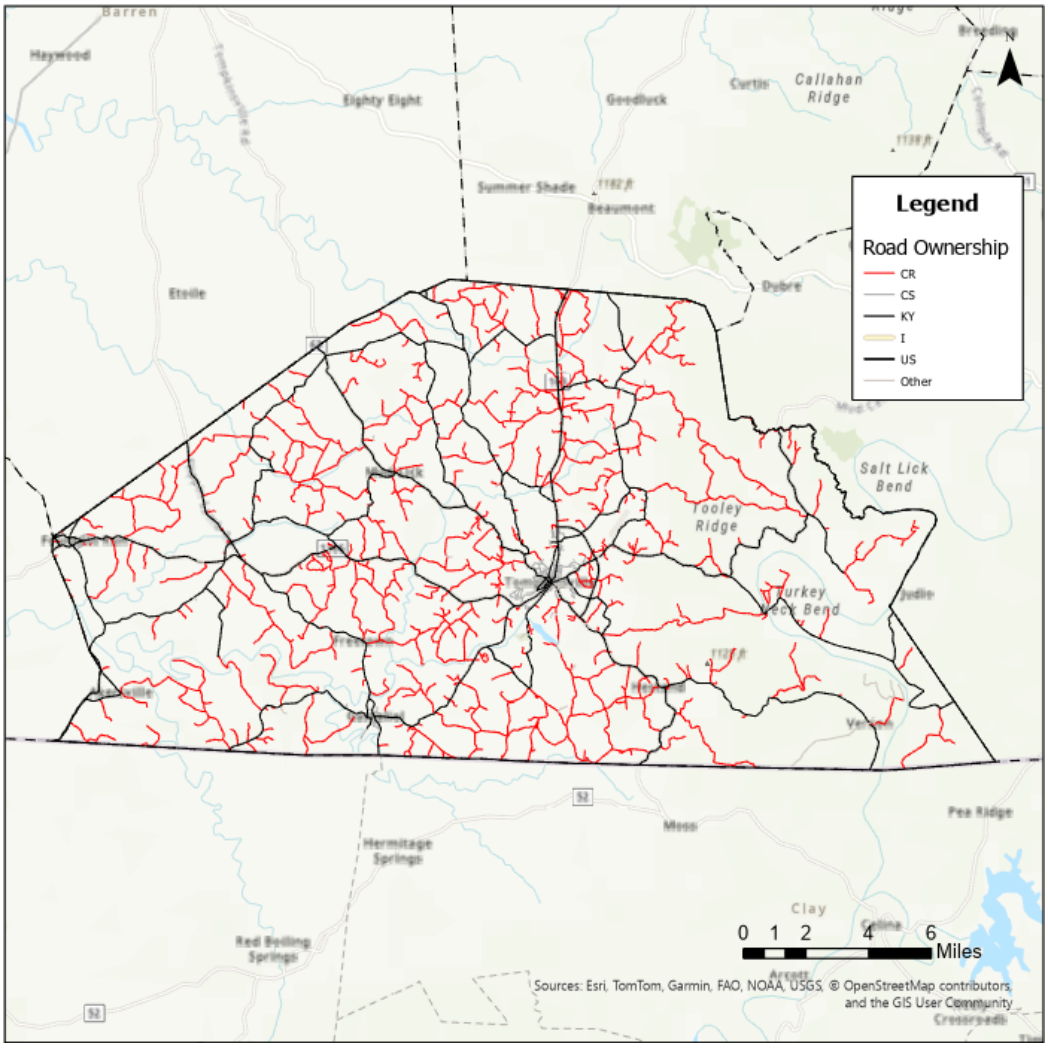


Figure Monroe-3: Map of County Roadways

Crash Analysis

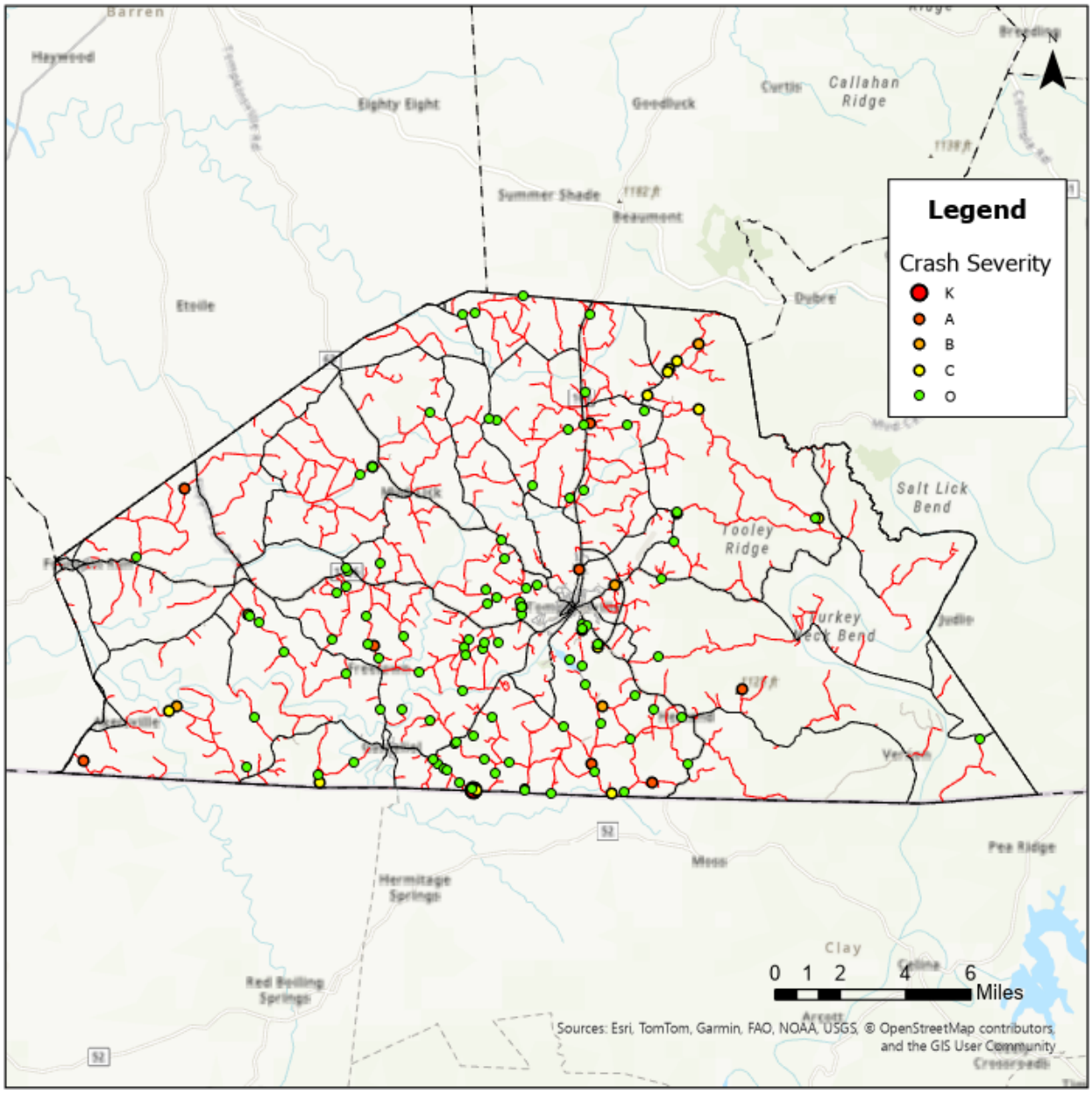
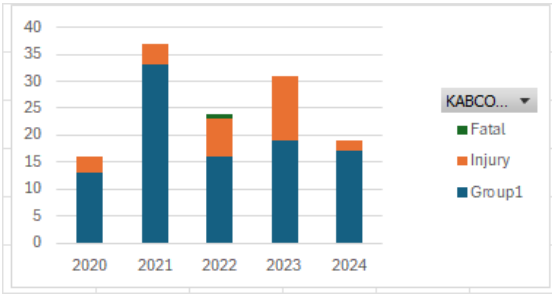


Figure Monroe-4: Map of County Road Crashes



Year	Prop. Damage Only	Injury	Fatal	Total
2020	13	3	0	**16**
2021	33	4	0	**37**
2022	16	7	1	**24**
2023	19	12	0	**31**
2024	17	2	0	**19**

Table Monroe-5: Crash Distribution by Year

Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	6	3	0	**9**
BACKING	9	0	0	**9**
HEAD ON	8	9	1	**18**
OPPOSING LEFT TURN	1	2	0	**3**
REAR END	2	0	0	**2**
REAR TO REAR	1	0	0	**1**
SIDESWIPE-OPPOSITE	24	0	0	**24**
SIDESWIPE-SAME DIR	2	0	0	**2**
SINGLE VEHICLE	45	14	0	**59**

Exhibit Monroe-6: Crash Frequency and Severity by Manner of Collision

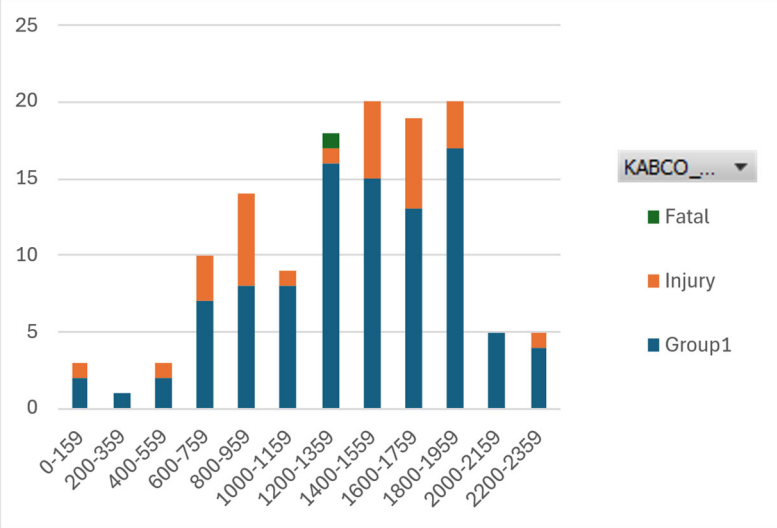


Exhibit Monroe-7: Crashes and Severity by Time of Day

Focus Roadways

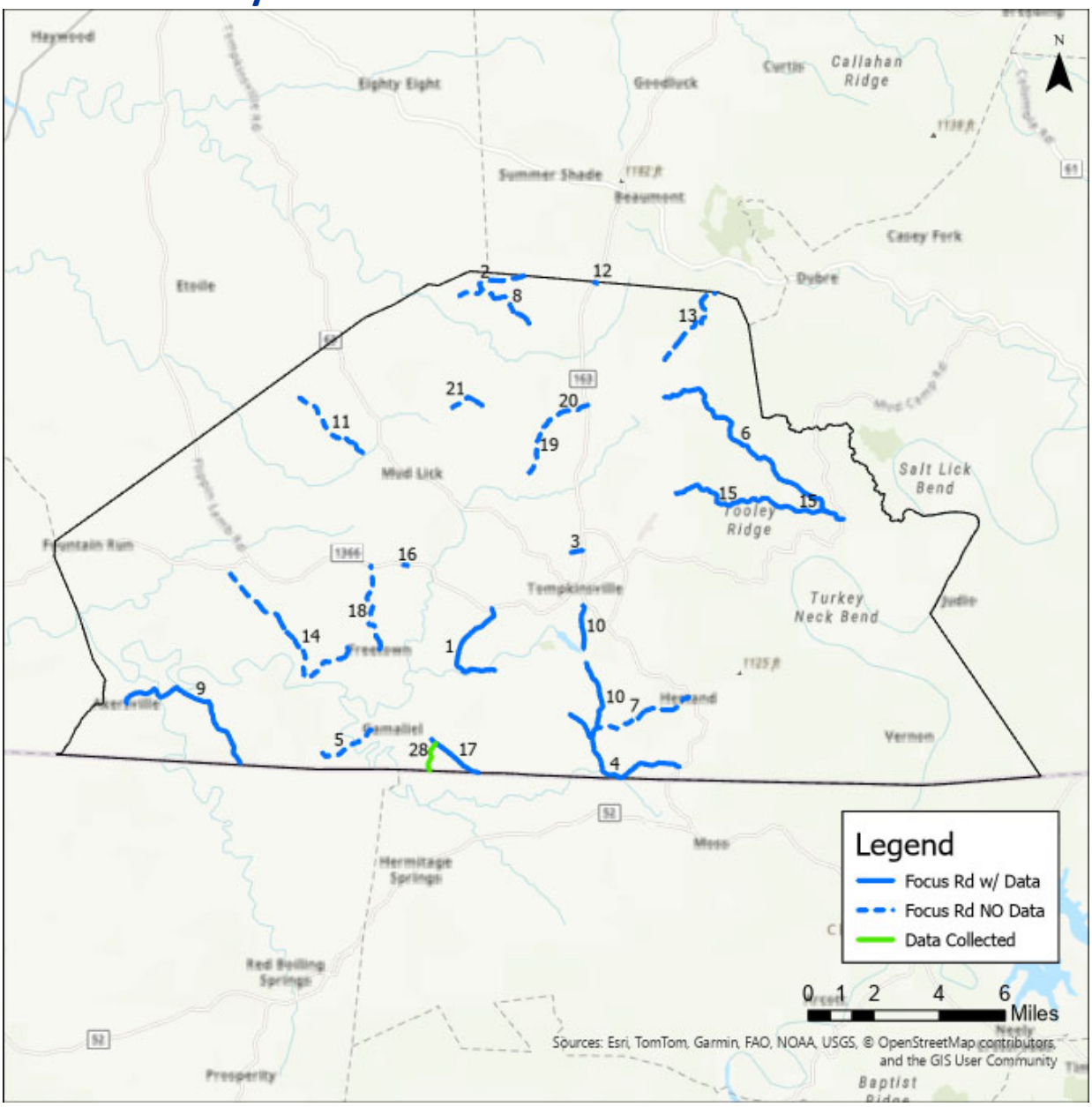


Exhibit Monroe-8: Focus Roads

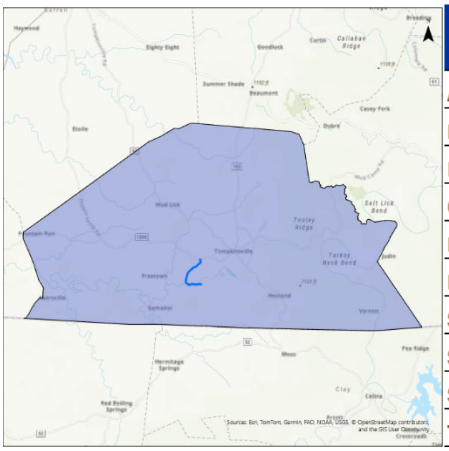
RT_UNIQUE	Length	County	Road Name	Injury Crash	Fatal Crash	PDO	Crash Score	Use Score	Rank	Focus Rd	Data
Monroe											
086-CR-1215 -000	3.60	Monroe	EBENEZER RD	1	1	0	2.50	0.58	1	1	1
086-CR-1319 -000	2.39	Monroe	S APPLE GROVE RD	1	0	3	2.11	1.13	2	1	0
086-CR-1510 -000	0.38	Monroe	AMERICAN LEGION RD	1	0	0	1.94	0.83	3	1	0
086-CR-1142 -000	4.75	Monroe	BEECH GROVE BOLES RD	1	0	2	2.06	0.60	4	1	1
086-CR-1232 -000	2.01	Monroe	LIL TAYLOR RD	1	0	3	2.11	0.46	5	1	0
086-CR-1023 -000	7.41	Monroe	OLD TEMPLE HILL RD	1	0	0	1.94	0.56	6	1	1
086-CR-1147 -000	3.30	Monroe	HESTAND CHESTNUT GROVE RD	1	0	1	2.00	0.41	7	1	0
086-CR-1318 -000	2.05	Monroe	HOPE RD	1	0	0	1.94	0.27	8	1	0
086-CR-1250 -000	5.44	Monroe	BUGTUSSLE RD	0	3	0	1.67	0.80	9	1	1
086-CR-1150 -000	3.92	Monroe	MILL CREEK RD	0	2	5	1.39	1.20	10	1	1
086-CR-1334 -000	2.76	Monroe	LES WILLIAMS RD	0	0	1	1.72	0.19	11	1	0
086-CR-1000 -000	0.12	Monroe	E CYCLONE RD	0	0	0	0.00	2.93	12	1	0
086-CR-1032 -000	3.37	Monroe	PERSIMMON KESSLER RIDGE RD	0	2	1	1.17	0.52	13	1	0
086-CR-1261 -000	6.27	Monroe	ALEXANDER SCHOOL RD	0	2	1	1.17	0.36	14	1	0
086-CR-1017 -000	6.02	Monroe	MESHACK CREEK RD	0	2	1	1.17	0.25	15	1	1
086-CR-1721 -000	0.15	Monroe	E WILSON RD	0	0	0	0.00	2.50	16	1	0
086-CR-1276 -000	1.80	Monroe	CLEMENTSVILLE RD	0	0	5	0.28	1.81	17	1	1
086-CR-1268 -000	2.93	Monroe	FREETOWN EMBERTON RD	0	1	1	0.61	0.81	18	1	0
086-CR-1057 -000	1.84	Monroe	BRAY SCHOOL RD	0	0	2	0.11	1.59	19	1	0
086-CR-1054 -000	1.34	Monroe	ROCKBRIDGE RD	0	0	1	0.06	1.61	20	1	0
086-CR-1314 -000	1.13	Monroe	WEST PHILLIPPI RD	0	0	1	0.06	1.56	21	1	0
086-CR-1221 -000	0.98	Monroe	J COMPTON RD	0	0	1	0.06	1.05	28	0	1

Exhibit Monroe-9: List of Focus Roadways

Recommended Improvements (Top 5 Roads)

EBENEZER RD(086-CR-1215 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	0	0	0	**0**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	1	0	0	**1**
SIDESWIPE-SAME DIR	1	0	0	**1**
SINGLE VEHICLE	1	0	0	**1**
Total	**3**	**0**	**0**	**3**

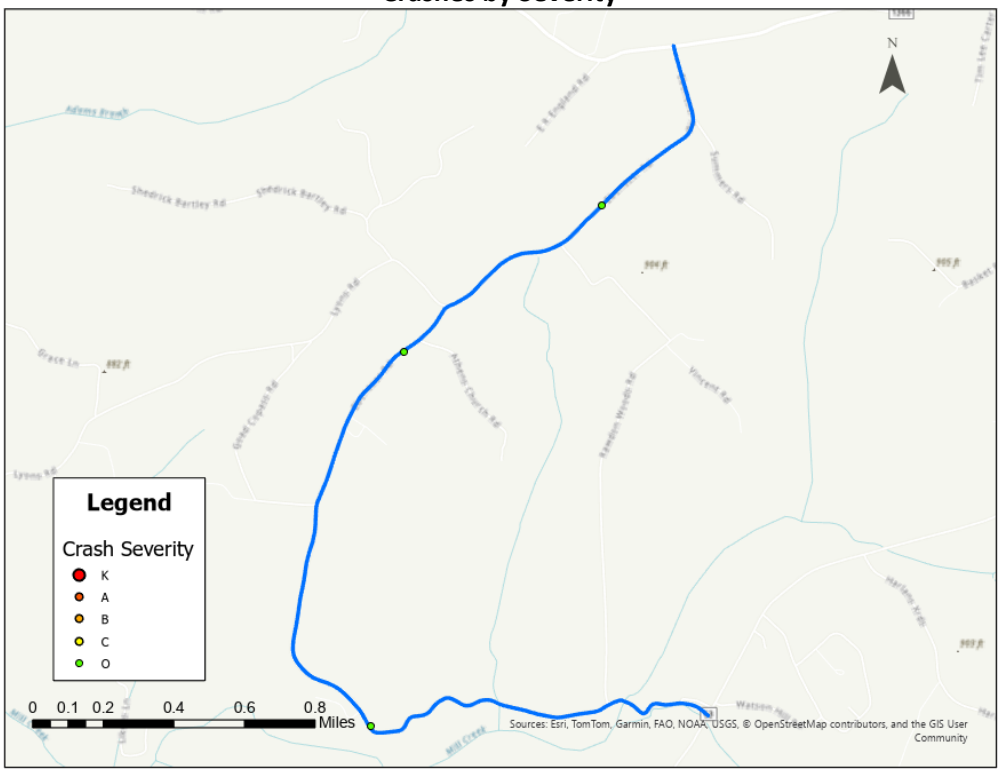
General Roadway Conditions

Roadway Section Data Not Collected

Roadway Typical Section



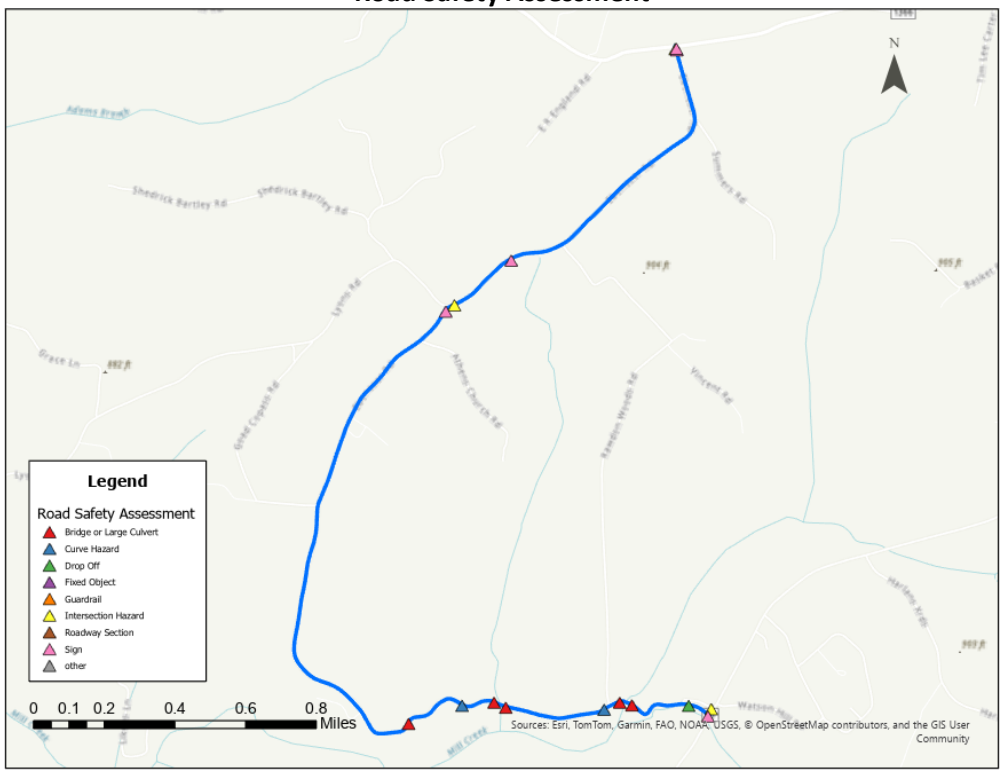
Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment

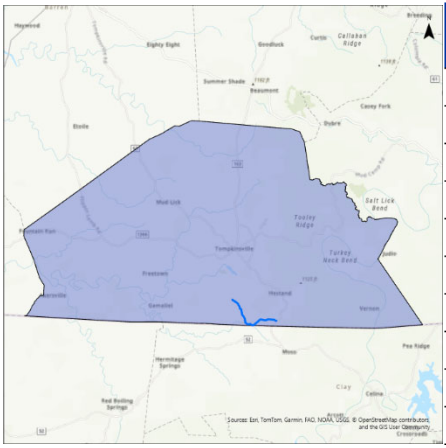


General Recommendations

Point ID	RT_UNIQUE	Road Name	Issue Type	Drop Off Offset	Comments	Recommendation
5764	086-CR-1215 -000	EBENEZER RD	Drop Off	3-5	Creek running along road	Evaluate roadway width, curvature and grade at drop off compared to other locations in county to evaluate need for guardrail
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Recommendation**	**Comments**
5759	086-CR-1215 -000	EBENEZER RD	Intersection	No	Intersection_Skew	Consider edgeline and stop bar installation on skewed approach.
5765	086-CR-1215 -000	EBENEZER RD	Intersection	No	other; No issue, end of road	--
5772	086-CR-1215 -000	EBENEZER RD	Intersection	No	other; No issue, end of road	--
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Bridge Width**	**OM Present**	**Recommendation**
5760	086-CR-1215 -000	EBENEZER RD	Bridge or Large Culvert	15	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5762	086-CR-1215 -000	EBENEZER RD	Bridge or Large Culvert	15	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5763	086-CR-1215 -000	EBENEZER RD	Bridge or Large Culvert	15	3	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
5767	086-CR-1215 -000	EBENEZER RD	Bridge or Large Culvert	15	3	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
5769	086-CR-1215 -000	EBENEZER RD	Bridge or Large Culvert	15	1	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Comments**	**Recommendation**
5761	086-CR-1215 -000	EBENEZER RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5768	086-CR-1215 -000	EBENEZER RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons

BEECH GROVE BOLES RD (086-CR-1142 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	0	0	0	**0**
HEAD ON	1	1	0	**2**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	1	0	0	**1**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	0	2	0	**2**
Total	**2**	**3**	**0**	**5**

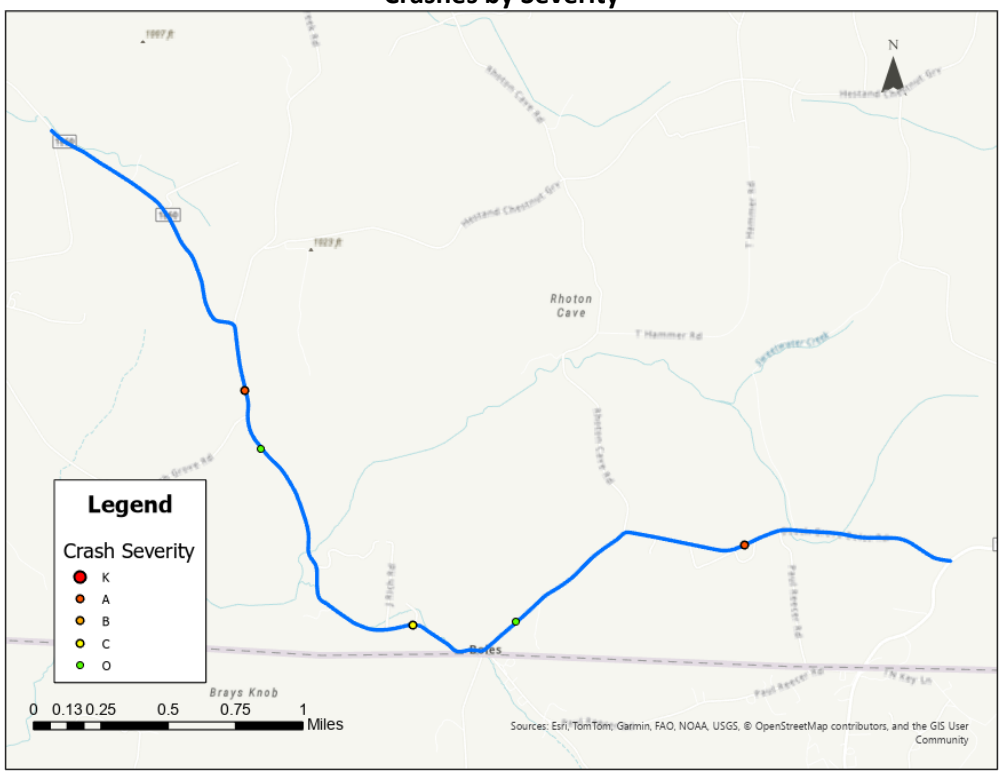
General Roadway Conditions

Roadway Section Data Not Collected

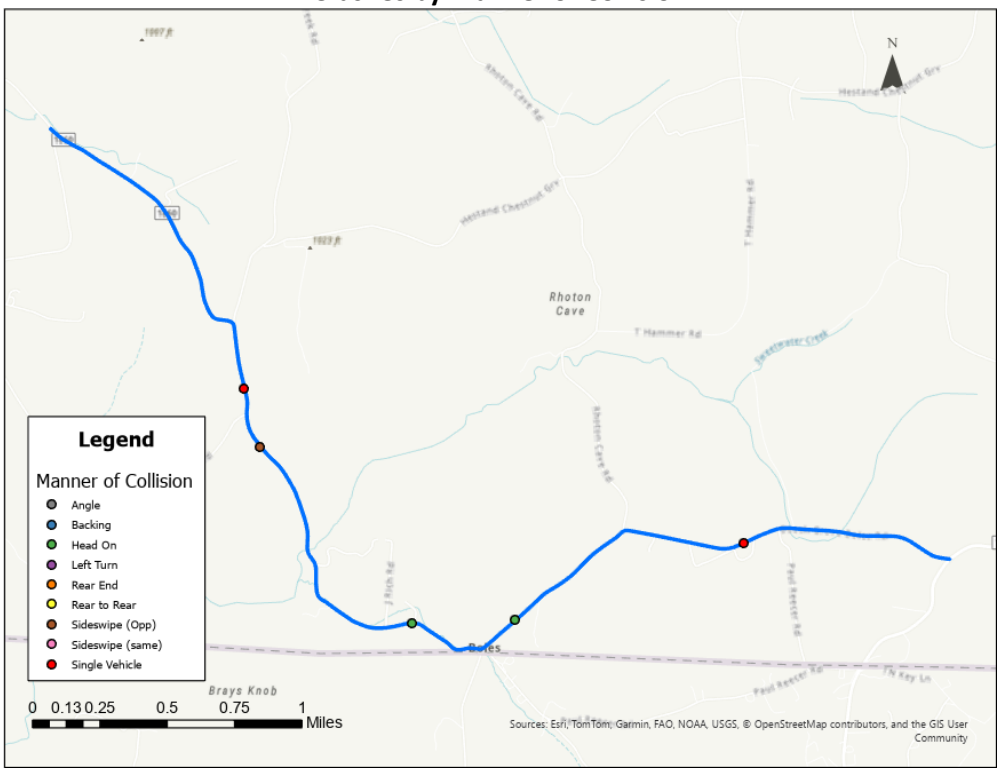
Roadway Typical Section



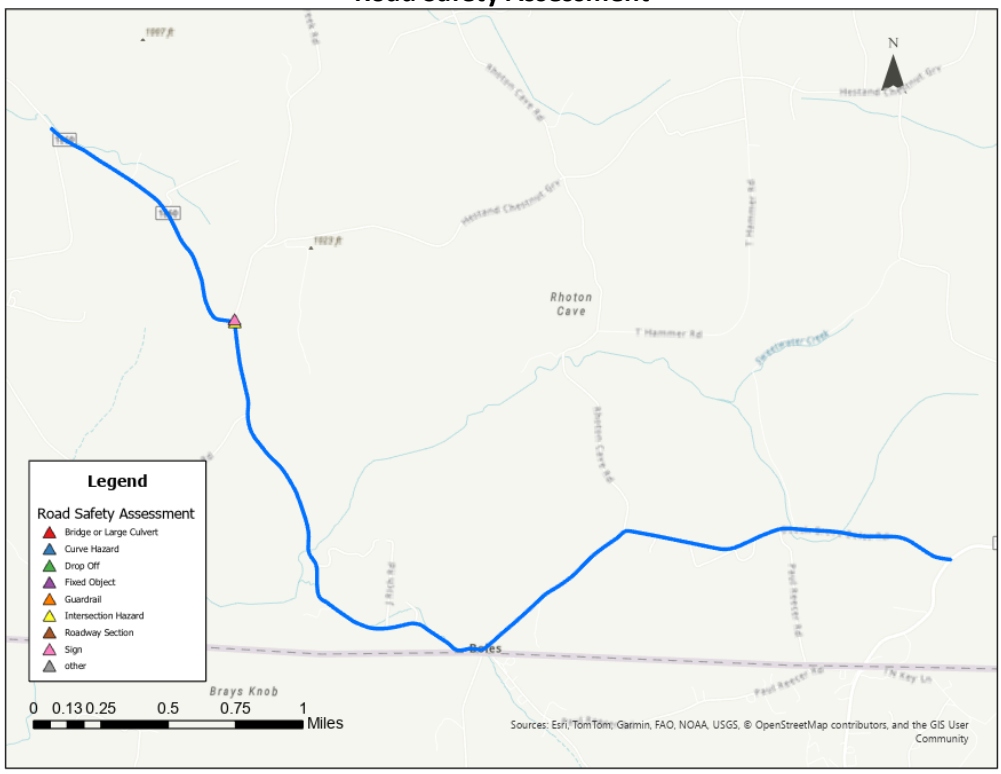
Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment

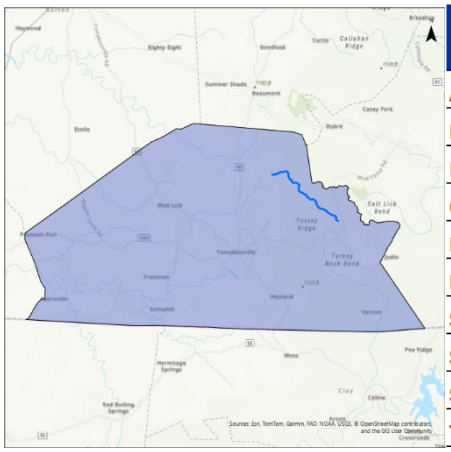


General Recommendations

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Recommendation	Comments
5755	086-CR-1142 -000	BEECH GROVE BOLES RD	Intersection	No	Intersection_Obscured_on_Approa,Intersection_Skew	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach; Correct Skew if Feasible/Consider edgeline and stop bar installation on skewed approach.

OLD TEMPLE HILL RD (086-CR-1023 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	0	0	0	**0**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	1	0	0	**1**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	0	2	0	**2**
Total	**1**	**2**	**0**	**3**

General Roadway Conditions

RT_UNIQUE	Road Name	Pvmt Width (f	Pavement Conditi	Roadside Hazard Rating	Shoulder Improve	Additional Comments
086-CR-1023 -000	OLD TEMPLE HILL RD	15	4	3	0-20	Section is very hilly
086-CR-1023 -000	OLD TEMPLE HILL RD	12	4	3	40-60	Road narrows, little shoulder room

Roadway Typical Section

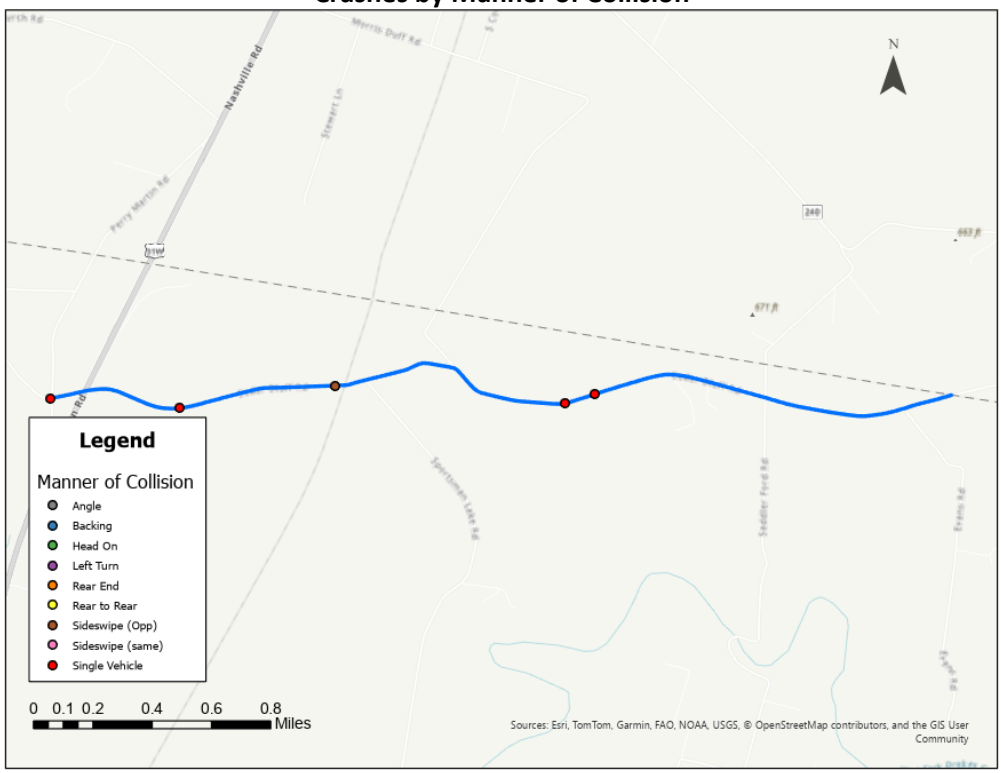




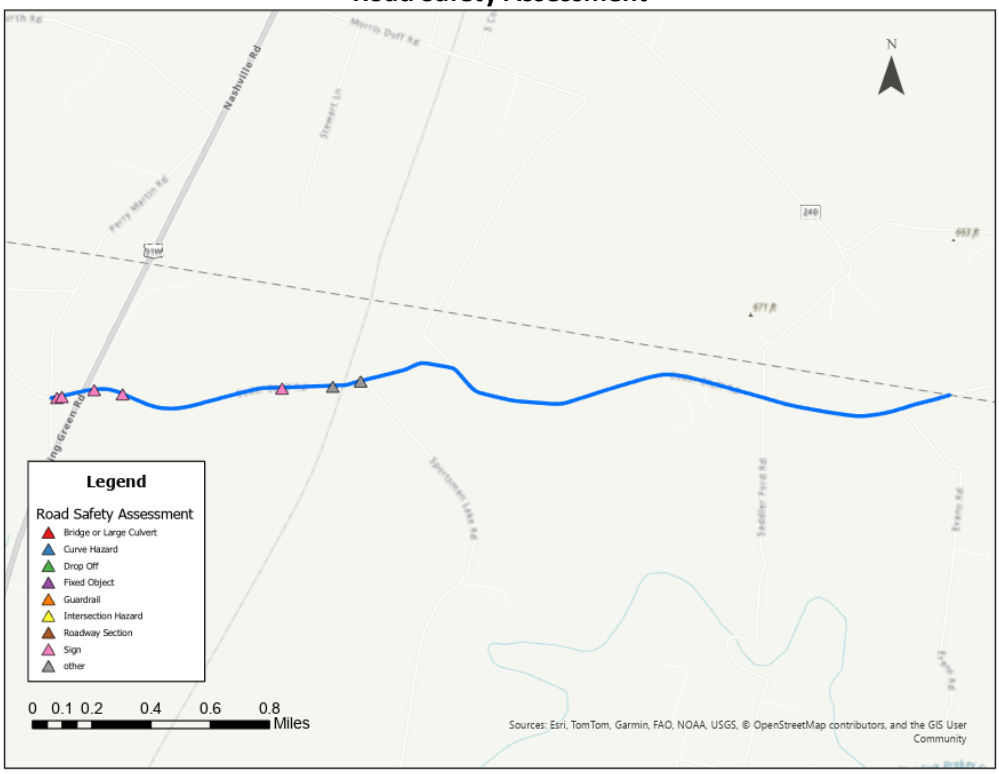
Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment



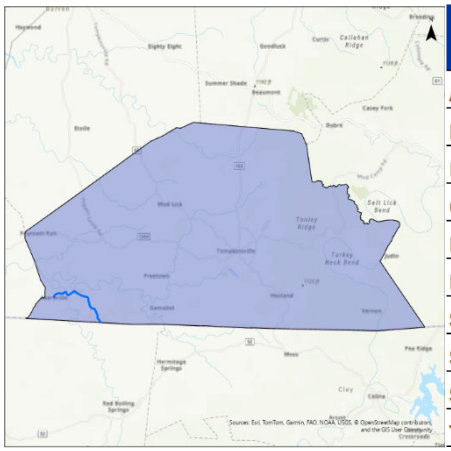
General Recommendations

Point ID	RT_UNIQUE	Road Name	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve	Additional Comments	Improve Shoulder	Edgeline[1]	Curve Signing
5725	086-CR-1023 -000	OLD TEMPLE HILL RD	15	4	3	0-20	Section is very hilly		✓	✓
5965	086-CR-1023 -000	OLD TEMPLE HILL RD	12	4	3	40-60	Road narrows, little shoulder room	✓	✓	✓

Point ID	RT_UNIQUE	Road Name	Issue Type	Drop Off Offset	Comments	Recommendation
5733	086-CR-1023 -000	OLD TEMPLE HILL RD	Drop Off	3-5	0	Evaluate roadway width, curvature and grade at drop off compared to other locations in county to evaluate need for guardrail
5966	086-CR-1023 -000	OLD TEMPLE HILL RD	Drop Off	1-3	0	Evaluate roadway width, curvature and grade at drop off compared to other locations in county to evaluate need for guardrail
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Condition**	**End Treatments**	**Recommendation**
5724	086-CR-1023 -000	OLD TEMPLE HILL RD	Guardrail	Fair	None	Remove
5745	086-CR-1023 -000	OLD TEMPLE HILL RD	Guardrail	Poor	None	Remove
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Recommendation**	**Comments**
5727	086-CR-1023 -000	OLD TEMPLE HILL RD	Intersection	No	Intersection_Obscured_on_Approa,Intersection_Skew	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach; Correct Skew if Feasible/Consider edgeline and stop bar installation on skewed approach.
5742	086-CR-1023 -000	OLD TEMPLE HILL RD	Intersection	No	Intersection_Obscured_on_Approa	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
5746	086-CR-1023 -000	OLD TEMPLE HILL RD	Intersection	No	Intersection_Obscured_on_Approa	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Comments**	**Recommendation**
5723	086-CR-1023 -000	OLD TEMPLE HILL RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5726	086-CR-1023 -000	OLD TEMPLE HILL RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5728	086-CR-1023 -000	OLD TEMPLE HILL RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5730	086-CR-1023 -000	OLD TEMPLE HILL RD	Curve Hazard	No	vegetation	Install advance curve signing and chevrons
5736	086-CR-1023 -000	OLD TEMPLE HILL RD	Curve Hazard	No	Curve_Obscured,other	Install advance curve signing and chevrons
5737	086-CR-1023 -000	OLD TEMPLE HILL RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5744	086-CR-1023 -000	OLD TEMPLE HILL RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
Point ID	**RT_UNIQUE**	**RD_NAME**	**Issue Type**	**--**	**Description**	**Recommendation**
5735	086-CR-1023 -000	OLD TEMPLE HILL RD	Other	0	Hill	Install "Hill Blocks Sight Distance" Sign.
5738	086-CR-1023 -000	OLD TEMPLE HILL RD	Other	0	Hill before curve	Install Advance Curve Sign
5741	086-CR-1023 -000	OLD TEMPLE HILL RD	Other	0	Hill	Install "Hill Blocks Sight Distance" Sign.
5743	086-CR-1023 -000	OLD TEMPLE HILL RD	Other	0	Hill	Install "Hill Blocks Sight Distance" Sign.

BUGTUSSLE RD (086-CR-1250 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	0	0	0	**0**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	0	0	0	**0**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	0	2	0	**2**
Total	**0**	**2**	**0**	**2**

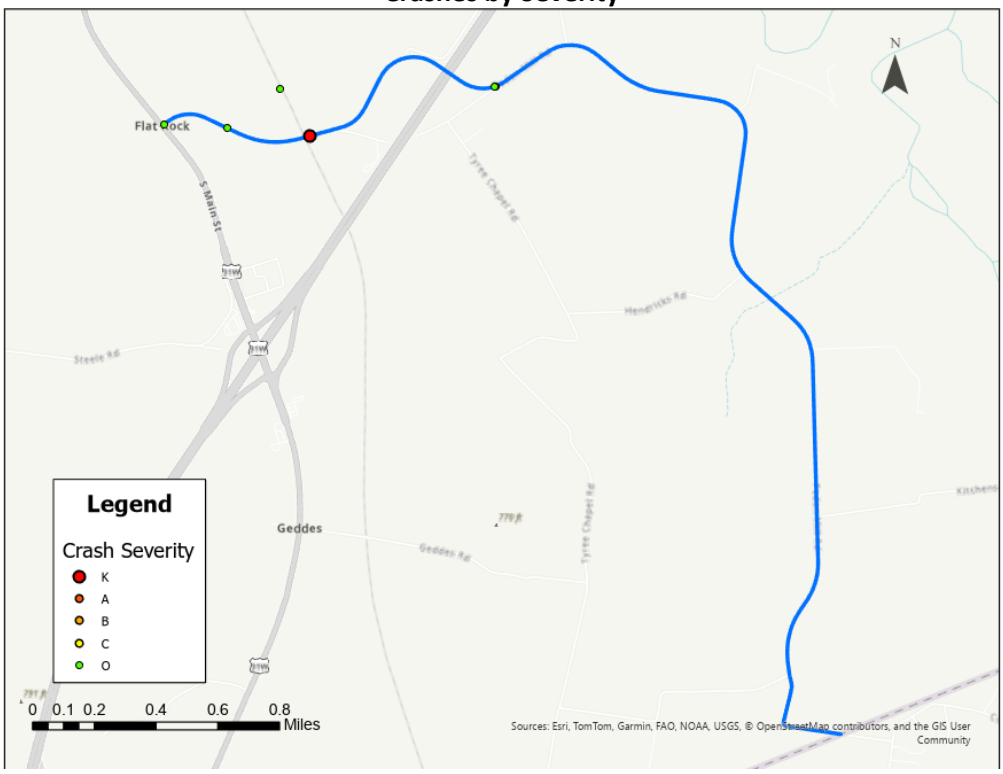
General Roadway Conditions

RT_UNIQUE	Road Name	Pvmt Width (f	Pavement Conditi	Roadside Hazard Rating	Shoulder Improve
086-CR-1250 -000	BUGTUSSLE RD	15	4	3	20-40

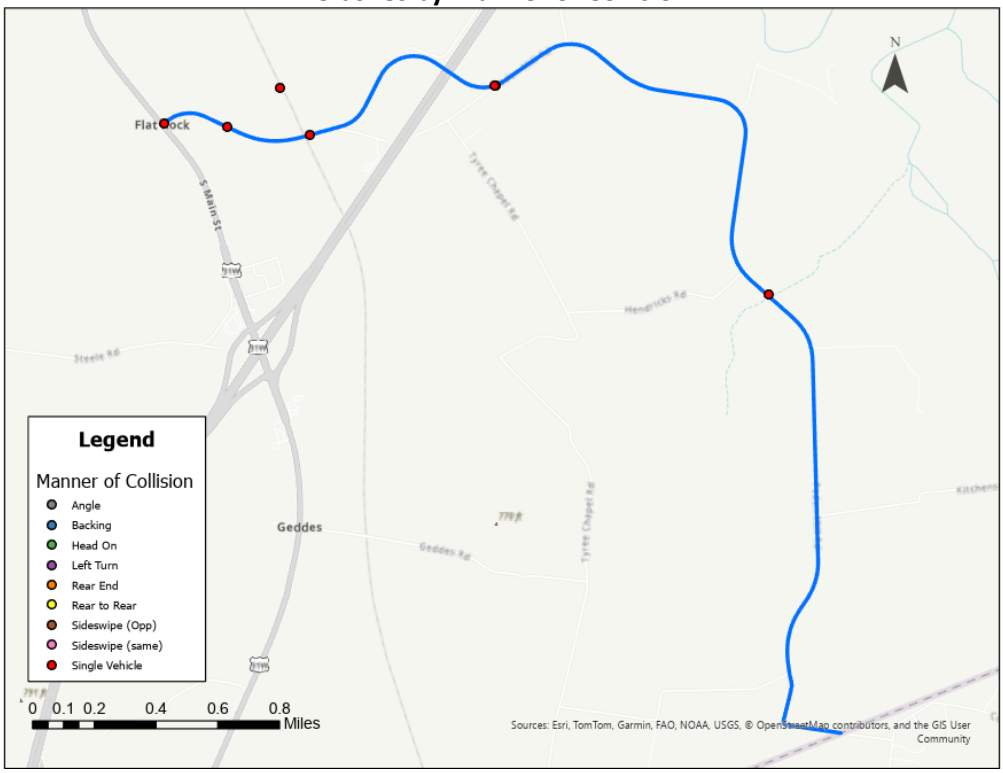
Roadway Typical Section



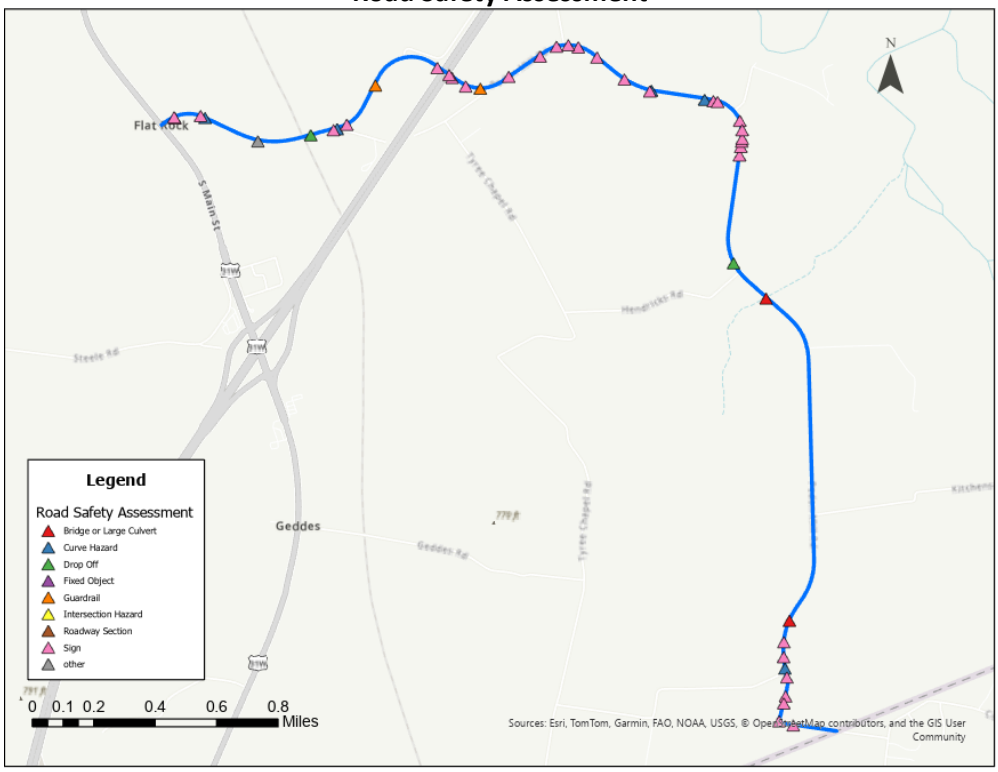
Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment



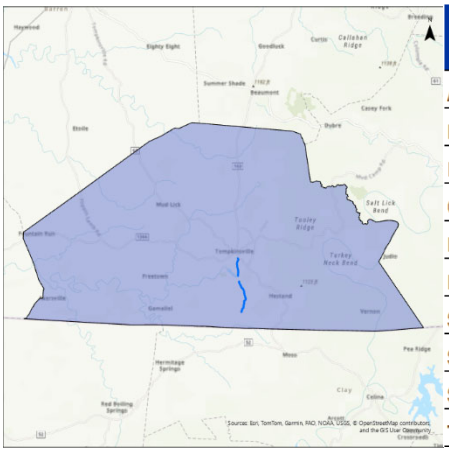
General Recommendations

Point ID	RT_UNIQUE	Road Name	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve	Additional Comments	Improve Shoulder	Edgeline[1]	Curve Signing
5808	086-CR-1250 -000	BUGTUSSLE RD	15	4	3	20-40			✓	✓

Point ID	RT_UNIQUE	Road Name	Issue Type	Drop Off Offset	Comments	Recommendation
5793	086-CR-1250 -000	BUGTUSSLE RD	Drop Off	>5	0	--
5794	086-CR-1250 -000	BUGTUSSLE RD	Drop Off	3-5	0	Evaluate roadway width, curvature and grade at drop off compared to other locations in county to evaluate need for guardrail
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Object**	**Offset**	**Recommendation**
5801	086-CR-1250 -000	BUGTUSSLE RD	Fixed Object	Tree	3-5	Remove if possible; Install Type 2 Object Marker
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Recommendation**	**Comments**
5791	086-CR-1250 -000	BUGTUSSLE RD	Intersection	No	Intersection_Skew	Consider edgeline and stop bar installation on skewed approach.
5803	086-CR-1250 -000	BUGTUSSLE RD	Intersection	No	Intersection_Skew,Intersection_Obscured_on_Approa,Insufficient_Sight_Distance_at_	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach; Correct Skew if Feasible/Consider edgeline and stop bar installation on skewed approach.
5809	086-CR-1250 -000	BUGTUSSLE RD	Intersection	No	Intersection_Skew	Consider edgeline and stop bar installation on skewed approach.
5812	086-CR-1250 -000	BUGTUSSLE RD	Intersection	No	other; No issue, end of road	--
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Bridge Width**	**OM Present**	**Recommendation**
5797	086-CR-1250 -000	BUGTUSSLE RD	Bridge or Large Culvert	20	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5970	086-CR-1250 -000	BUGTUSSLE RD	Bridge or Large Culvert	20	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Comments**	**Recommendation**
5795	086-CR-1250 -000	BUGTUSSLE RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5804	086-CR-1250 -000	BUGTUSSLE RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5807	086-CR-1250 -000	BUGTUSSLE RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5810	086-CR-1250 -000	BUGTUSSLE RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
5968	086-CR-1250 -000	BUGTUSSLE RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
Point ID	**RT_UNIQUE**	**RD_NAME**	**Issue Type**	**--**	**Description**	**Recommendation**
5792	086-CR-1250 -000	BUGTUSSLE RD	Other	0	Hill	Install "Hill Blocks Sight Distance" Sign.
5798	086-CR-1250 -000	BUGTUSSLE RD	Other	0	Hill blocking view	Install "Hill Blocks Sight Distance" Sign.

MILL CREEK RD (086-CR-1150 -000)

Road Location Map and Crash History

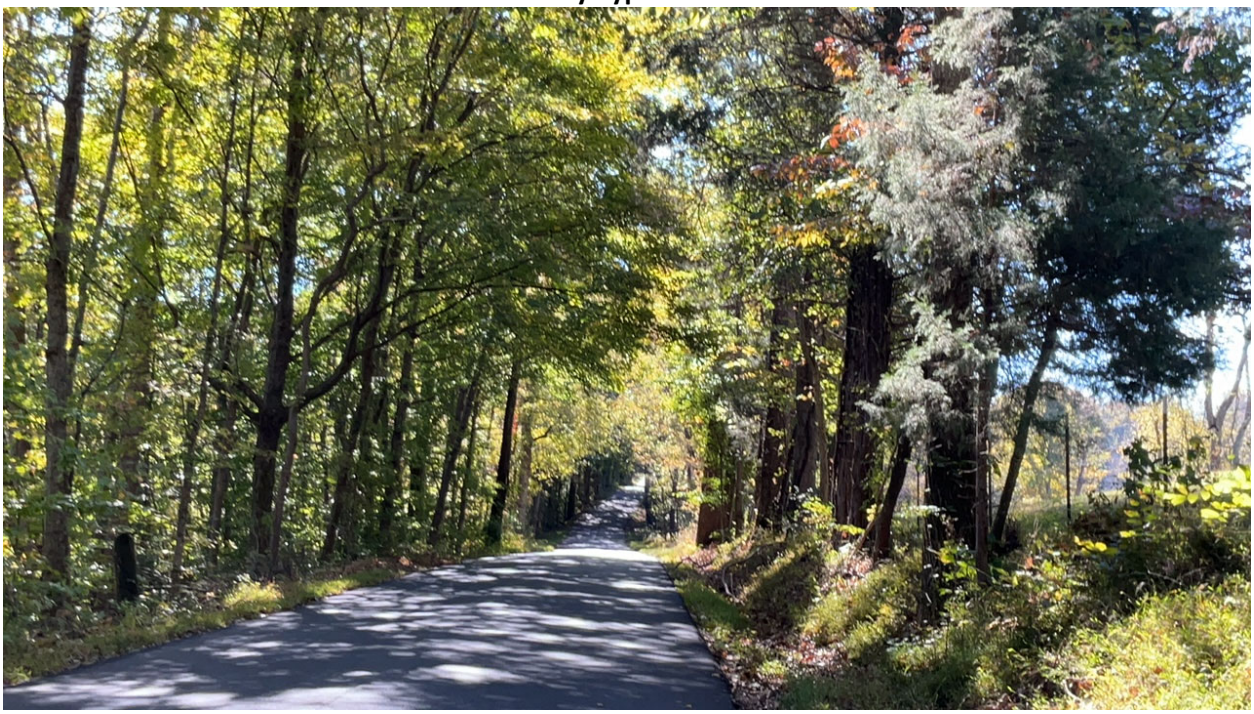


Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	1	0	0	**1**
BACKING	2	0	0	**2**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	1	0	0	**1**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	2	1	0	**3**
Total	**6**	**1**	**0**	**7**

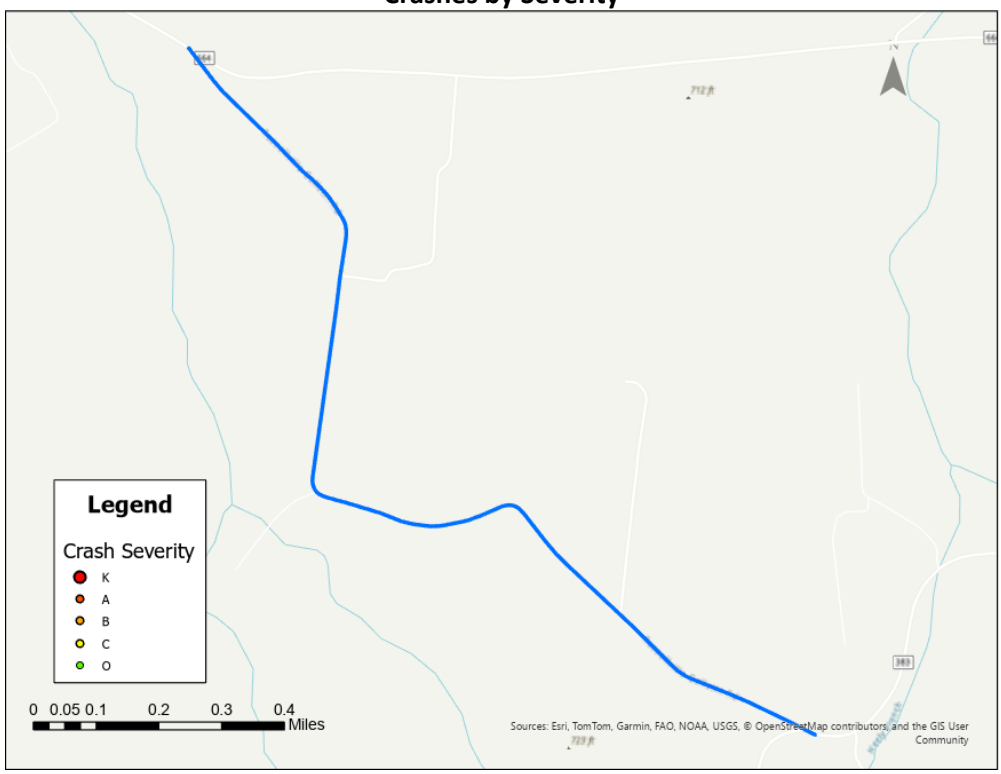
General Roadway Conditions

RT_UNIQUE	Road Name	Pvmt Width (f	Pavement Conditi	Roadside Hazard Rating	Shoulder Improve
086-CR-1150 -000	MILL CREEK RD	15	4	4	20-40

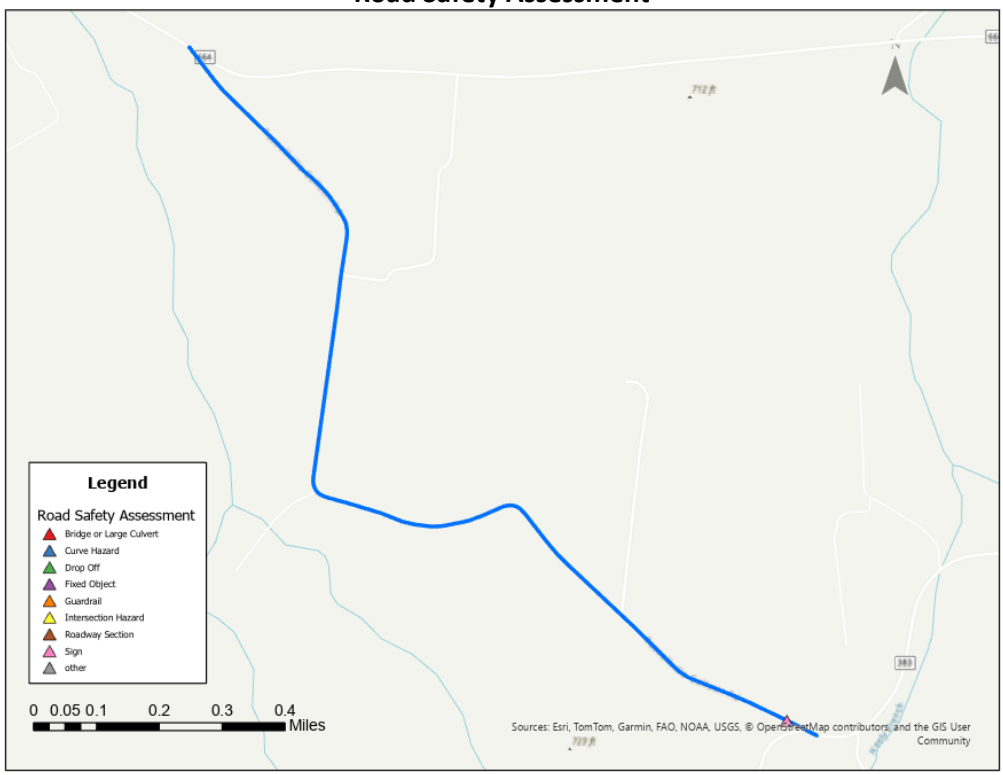
Roadway Typical Section



Crashes by Severity



Road Safety Assessment



General Recommendations

Point ID	RT_UNIQUE	Road Name	Pvmt Width (f	Pavement Conditi	Roadside Hazard Rating	Shoulder Improve	Additional Comments	Improve Should	Edgeline[1]	Curve Signin
5752	086-CR-1150 -000	MILL CREEK RD	15	4	4	20-40	In good shape overall		✓	✓

Point ID	RT_UNIQUE	Road Name	Issue Type	Object	Offset	Recommendation
5753	086-CR-1150 -000	MILL CREEK RD	Fixed Object	Tree	1-3	Remove
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Condition**	**End Treatments**	**Recommendation**
5750	086-CR-1150 -000	MILL CREEK RD	Guardrail	Fair	None	Remove
5751	086-CR-1150 -000	MILL CREEK RD	Guardrail	Fair	None	Evaluate for removal
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Recommendation**	**Comments**
5758	086-CR-1150 -000	MILL CREEK RD	Intersection	No	Intersection_Skew,Intersection_Obscured_on_Approa	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach; Correct Skew if Feasible/Consider edgeline and stop bar installation on skewed approach.
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Comments**	**Recommendation**
5749	086-CR-1150 -000	MILL CREEK RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
Point ID	**RT_UNIQUE**	**RD_NAME**	**Issue Type**	**--**	**Description**	**Recommendation**
5757	086-CR-1150 -000	MILL CREEK RD	Other	0	Hill	Install "Hill Blocks Sight Distance" Sign.

Other Roadways

General Roadway Conditions and Recommendations (Monroe County)

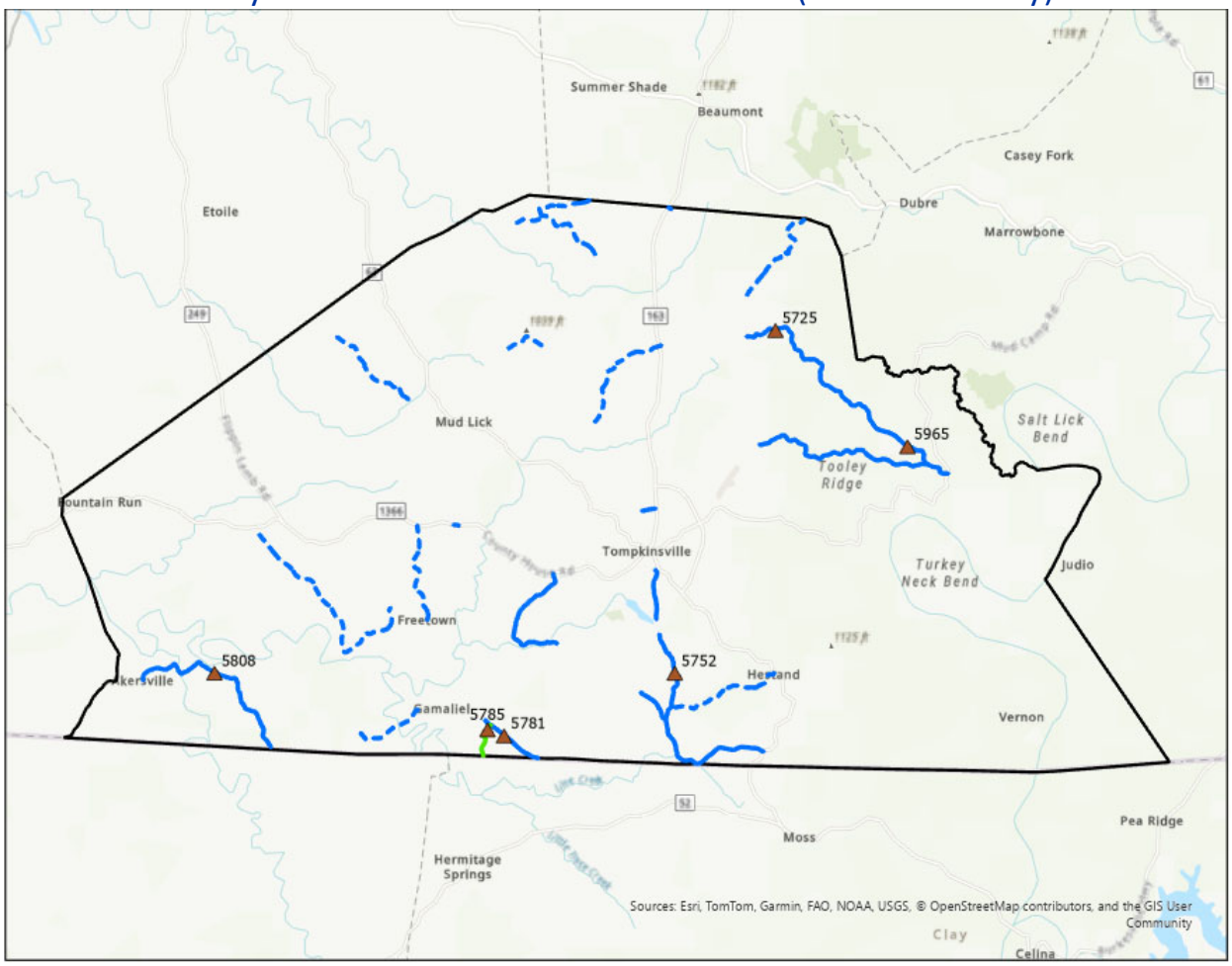


Exhibit Monroe-10: General Roadway Conditions

Point ID	RT_UNIQUE	Road Name	Pvmt Width (f	Pavement Conditi	Roadside Hazard Rating	Shoulder Improve	Additional Comments	Improve Should	Edgelin	Curve Signin	Other Recommendations
5725	086-CR-1023 -000	OLD TEMPLE HILL RD	15	4	3	0-20	Section is very hilly		✓	✓	
5752	086-CR-1150 -000	MILL CREEK RD	15	4	4	20-40	In good shape overall		✓	✓	
5781	086-CR-1276 -000	CLEMENTSVILLE RD	20	4	1	0-20	Good roadway, has lines			✓	
5785	086-CR-1221 -000	J COMPTON RD	15	3	2	0-20	Several cracks in road		✓	✓	Consider crack sealing/seal coat
5808	086-CR-1250 -000	BUGTUSSLE RD	15	4	3	20-40			✓	✓	
5965	086-CR-1023 -000	OLD TEMPLE HILL RD	12	4	3	40-60	Road narrows, little shoulder room	✓	✓	✓	

Exhibit Monroe-11: General Roadway Recommendations

Bridge / Culvert Recommendations (Monroe County)

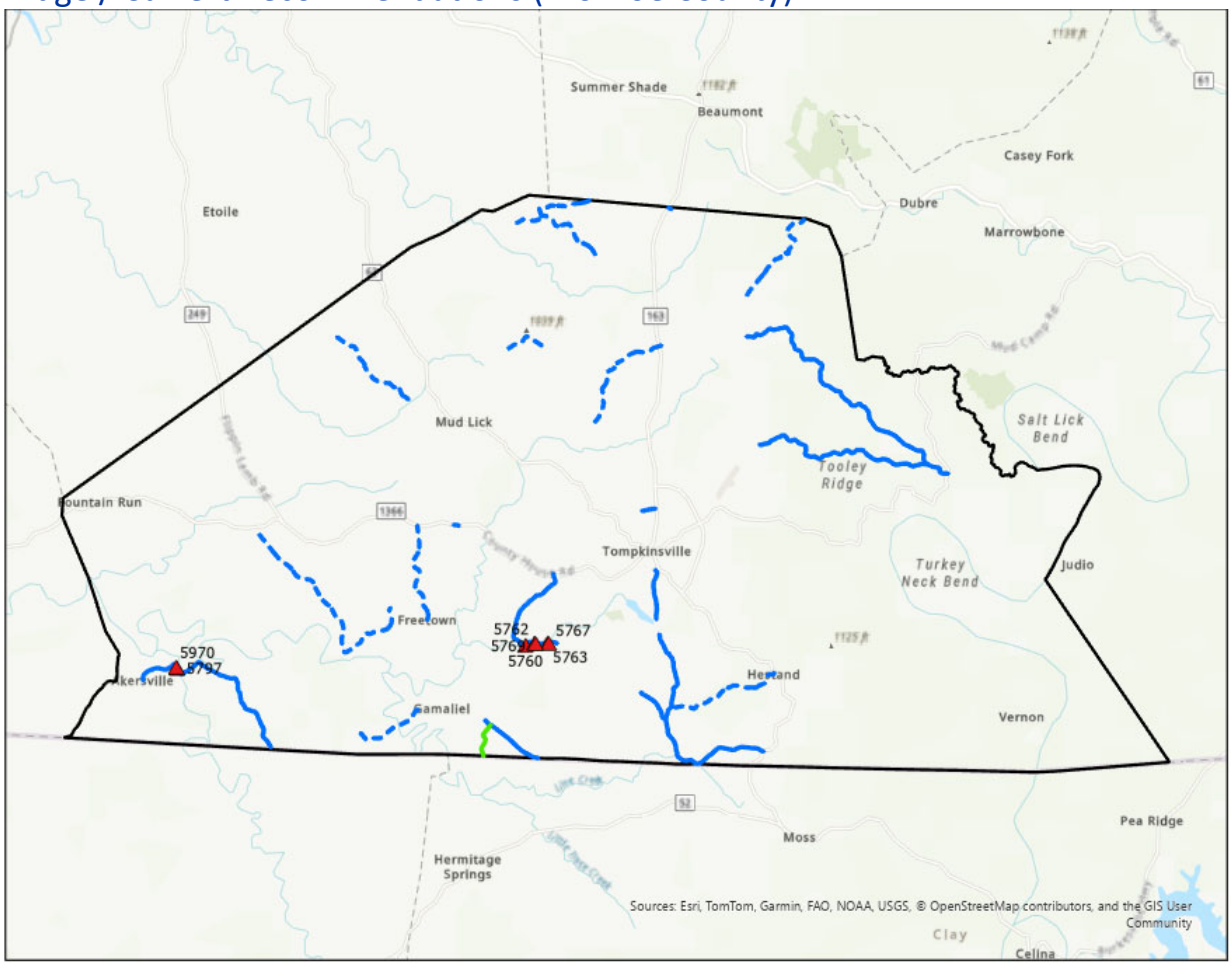


Exhibit Monroe-12: Bridge / Culvert Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Bridge Width	Guardrail Present	OM Present	Recommendation
5760	086-CR-1215 -000	EBENEZER RD	Bridge or Large Culvert	15	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5762	086-CR-1215 -000	EBENEZER RD	Bridge or Large Culvert	15	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5763	086-CR-1215 -000	EBENEZER RD	Bridge or Large Culvert	15	4	3	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
5767	086-CR-1215 -000	EBENEZER RD	Bridge or Large Culvert	15	4	3	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
5769	086-CR-1215 -000	EBENEZER RD	Bridge or Large Culvert	15	0	1	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5797	086-CR-1250 -000	BUGTUSSLE RD	Bridge or Large Culvert	20	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5970	086-CR-1250 -000	BUGTUSSLE RD	Bridge or Large Culvert	20	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.

Exhibit Monroe-13: Bridge / Culvert Recommendations

Curve Recommendations (Monroe County)

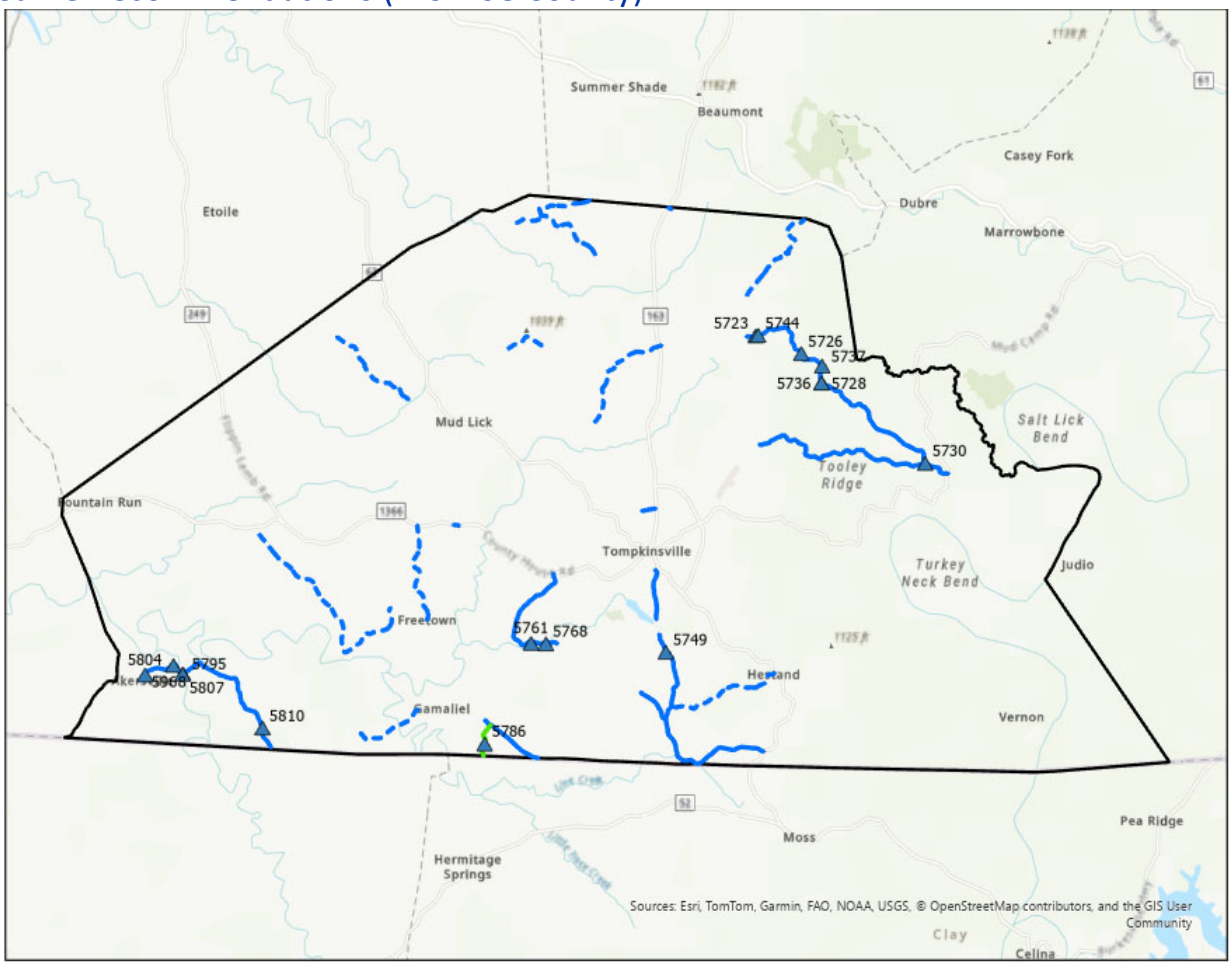


Exhibit Monroe-14: Focus Road Curves

Point ID	RT_UNIQUE	Road Name	Issue Type	Comments	Vegetation	Recommendation
5723	086-CR-1023 -000	OLD TEMPLE HILL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5726	086-CR-1023 -000	OLD TEMPLE HILL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5728	086-CR-1023 -000	OLD TEMPLE HILL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5730	086-CR-1023 -000	OLD TEMPLE HILL RD	Curve Hazard	vegetation	No	Install advance curve signing and chevrons
5736	086-CR-1023 -000	OLD TEMPLE HILL RD	Curve Hazard	Curve_Obscured,other	No	Install advance curve signing and chevrons
5737	086-CR-1023 -000	OLD TEMPLE HILL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5744	086-CR-1023 -000	OLD TEMPLE HILL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5749	086-CR-1150 -000	MILL CREEK RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5761	086-CR-1215 -000	EBENEZER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5768	086-CR-1215 -000	EBENEZER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5786	086-CR-1221 -000	J COMPTON RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5795	086-CR-1250 -000	BUGTUSSLE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5804	086-CR-1250 -000	BUGTUSSLE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5807	086-CR-1250 -000	BUGTUSSLE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5810	086-CR-1250 -000	BUGTUSSLE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5968	086-CR-1250 -000	BUGTUSSLE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons

Exhibit Monroe-15: Curve Recommendations

Roadside Drop Off Recommendations (Monroe County)

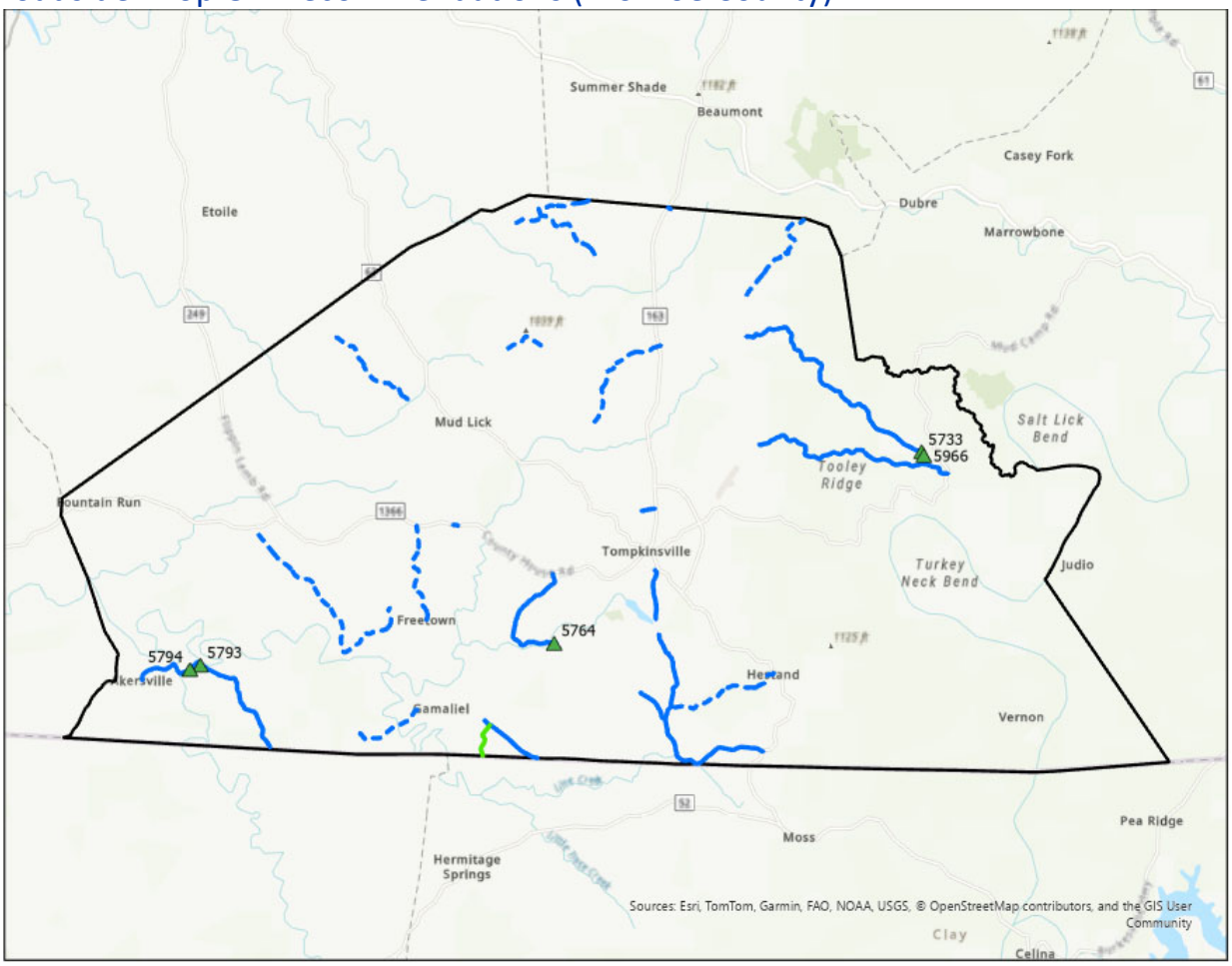


Exhibit Monroe-16: Roadside Drop Off Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Drop Off Offset	Drop Off Height	Additional Comments	Recommendation
5733	086-CR-1023 -000	OLD TEMPLE HILL RD	Drop Off	3-5	>10		Evaluate roadway width, curvature and grade at drop off compared to other locations in county to evaluate need for guardrail
5764	086-CR-1215 -000	EBENEZER RD	Drop Off	3-5	>10	Creek running along road	Evaluate roadway width, curvature and grade at drop off compared to other locations in county to evaluate need for guardrail
5793	086-CR-1250 -000	BUGTUSSLE RD	Drop Off	>5	>10		--
5794	086-CR-1250 -000	BUGTUSSLE RD	Drop Off	3-5	>10		Evaluate roadway width, curvature and grade at drop off compared to other locations in county to evaluate need for guardrail
5966	086-CR-1023 -000	OLD TEMPLE HILL RD	Drop Off	1-3	>10		Evaluate roadway width, curvature and grade at drop off compared to other locations in county to evaluate need for guardrail

Exhibit Monroe-17: Roadside Drop Off Recommendations

Fixed Object Recommendations (Monroe County)

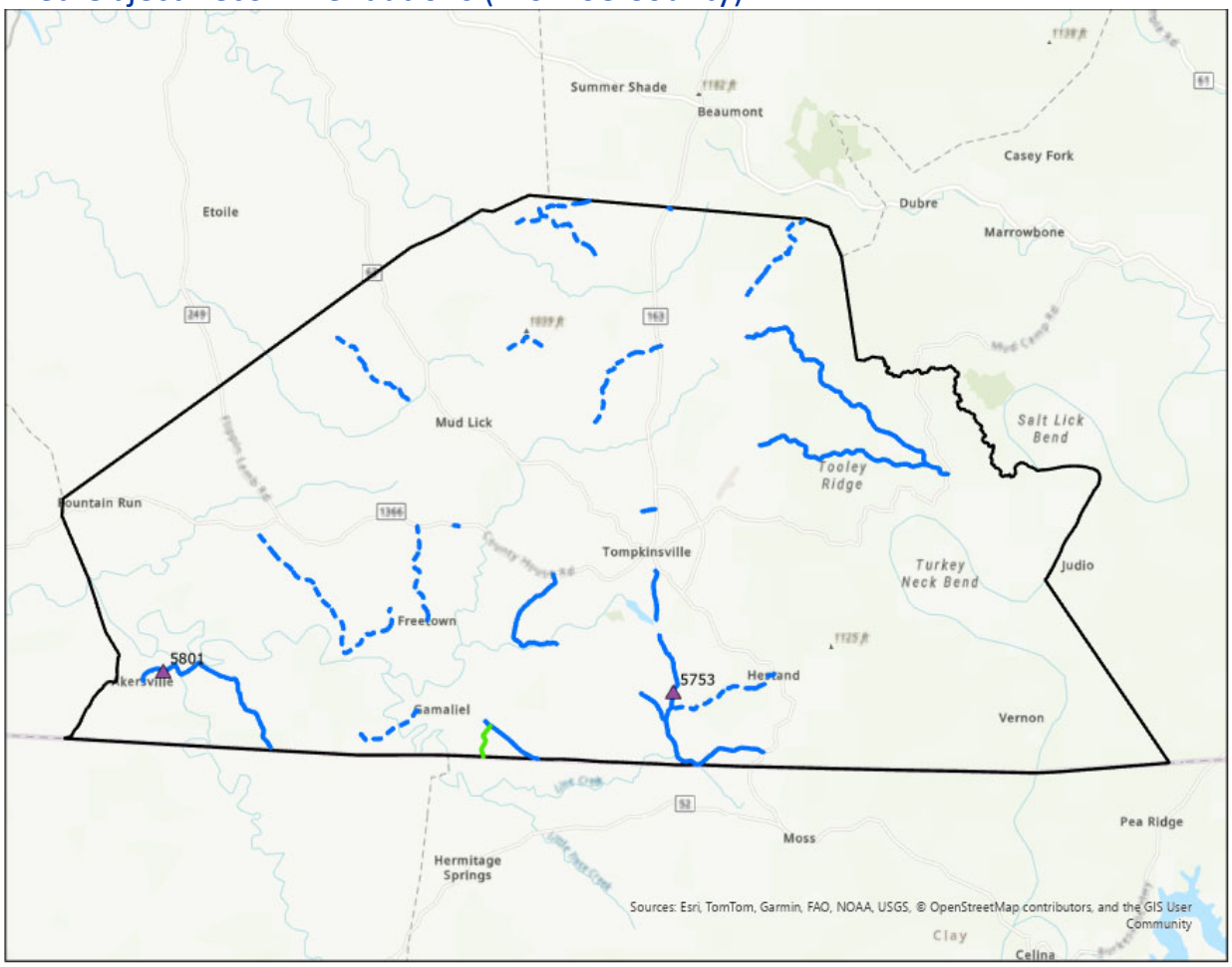


Exhibit Monroe-18: Fixed Object Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Object	Single / Series	Offset	Recommendation
5753	086-CR-1150 -000	MILL CREEK RD	Fixed Object	Tree	Series	1-3	Remove
5801	086-CR-1250 -000	BUGTUSSLE RD	Fixed Object	Tree	Single	3-5	Remove if possible; Install Type 2 Object Marker

Exhibit Monroe-19: Fixed Object Recommendations

Guardrail Recommendations (Monroe County)

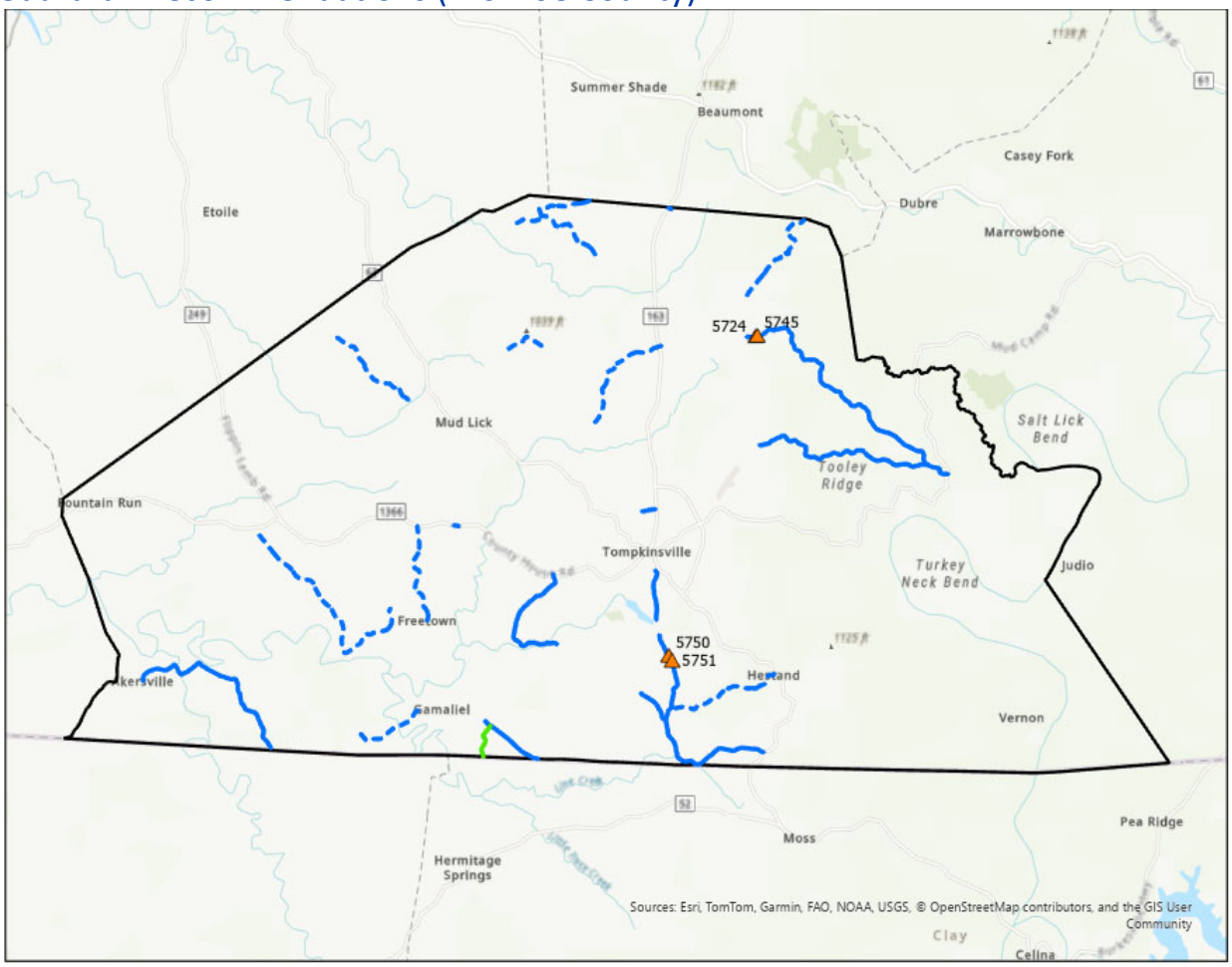


Exhibit Monroe-20: Guardrail Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Condition	Meet Warrant	End Treatmen	Recommendation
5724	086-CR-1023 -000	OLD TEMPLE HILL RD	Guardrail	Fair	No	None	Remove
5745	086-CR-1023 -000	OLD TEMPLE HILL RD	Guardrail	Poor	No	None	Remove
5750	086-CR-1150 -000	MILL CREEK RD	Guardrail	Fair	No	None	Remove
5751	086-CR-1150 -000	MILL CREEK RD	Guardrail	Fair	No	None	Evaluate for removal

Exhibit Monroe-21: Guardrail Recommendations

Intersection Recommendations (Monroe County)

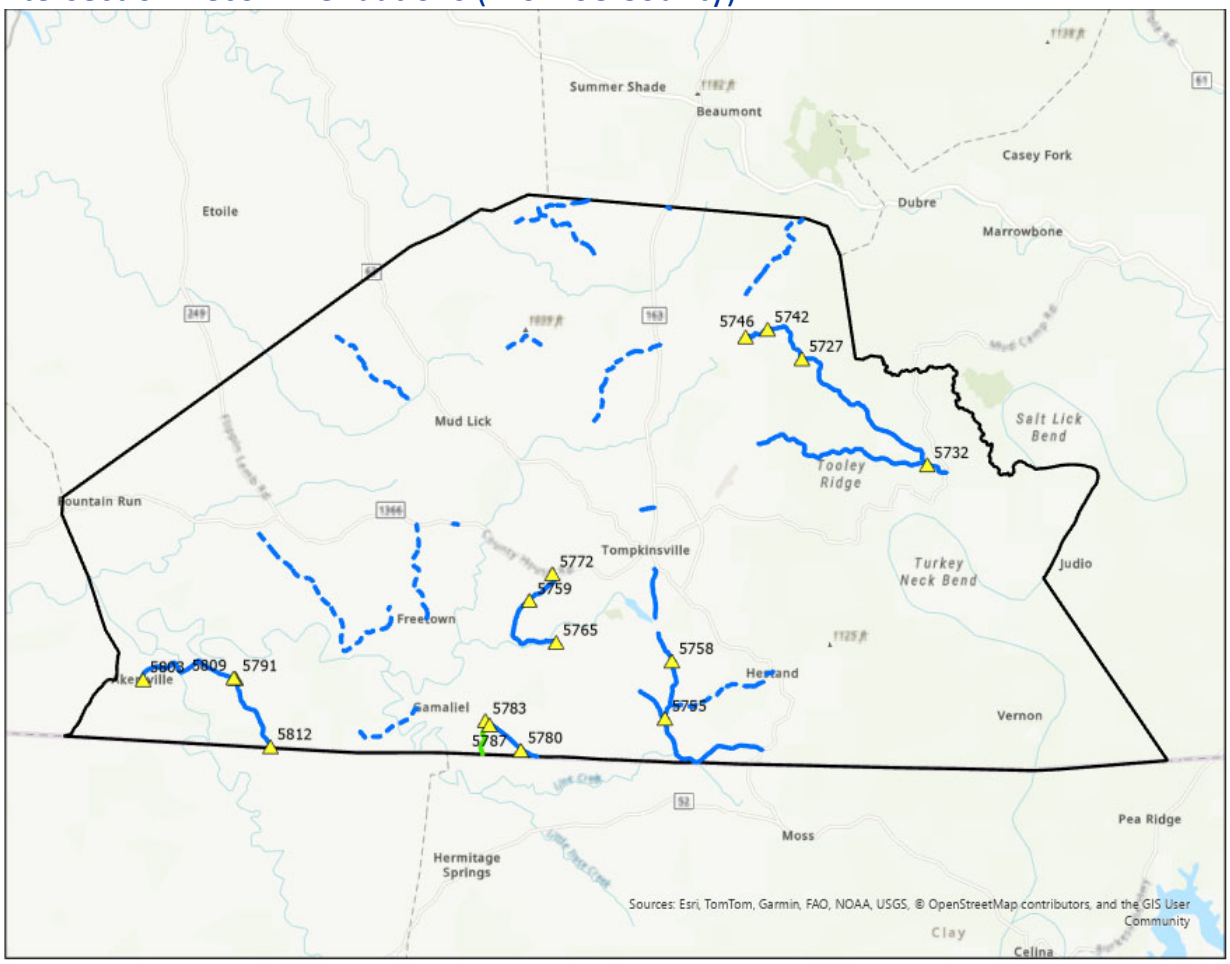


Exhibit Monroe-22: Intersection Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Comments	Recommendations
5727	086-CR-1023 -000	OLD TEMPLE HILL RD	Intersection	No	Intersection_Obscured_on_Approa,Intersection_Skew	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach; Correct Skew if Feasible/Consider edgeline and stop bar installation on skewed approach.
5732	086-CR-1017 -000	MESHACK CREEK RD	Intersection	No	Intersection_Obscured_on_Approa	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
5742	086-CR-1023 -000	OLD TEMPLE HILL RD	Intersection	No	Intersection_Obscured_on_Approa	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
5746	086-CR-1023 -000	OLD TEMPLE HILL RD	Intersection	No	Intersection_Obscured_on_Approa	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
5755	086-CR-1142 -000	BEECH GROVE BOLES RD	Intersection	No	Intersection_Obscured_on_Approa,Intersection_Skew	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach; Correct Skew if Feasible/Consider edgeline and stop bar installation on skewed approach.
5758	086-CR-1150 -000	MILL CREEK RD	Intersection	No	Intersection_Skew,Intersection_Obscured_on_Approa	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach; Correct Skew if Feasible/Consider edgeline and stop bar installation on skewed approach.
5759	086-CR-1215 -000	EBENEZER RD	Intersection	No	Intersection_Skew	Consider edgeline and stop bar installation on skewed approach.
5765	086-CR-1215 -000	EBENEZER RD	Intersection	No	other; No issue, end of road	--
5772	086-CR-1215 -000	EBENEZER RD	Intersection	No	other; No issue, end of road	--
5780	086-CR-1276 -000	CLEMENTSVILLE RD	Intersection	No	Intersection_Obscured_on_Approa	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
5783	086-CR-1276 -000	CLEMENTSVILLE RD	Intersection	No	other; No issue, end of road	--
5787	086-CR-1276 -000	CLEMENTSVILLE RD	Intersection	No	other,Insufficient_Sight_Distance_at_	Consider edgeline and stop bar installation on skewed approach.
5791	086-CR-1250 -000	BUGTUSSLE RD	Intersection	No	Intersection_Skew	Consider edgeline and stop bar installation on skewed approach.
5803	086-CR-1250 -000	BUGTUSSLE RD	Intersection	No	Intersection_Skew,Intersection_Obscured_on_Approa,Insufficient_Sight_Distance_at_	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach; Correct Skew if Feasible/Consider edgeline and stop bar installation on skewed approach.
5809	086-CR-1250 -000	BUGTUSSLE RD	Intersection	No	Intersection_Skew	Consider edgeline and stop bar installation on skewed approach.
5812	086-CR-1250 -000	BUGTUSSLE RD	Intersection	No	other; No issue, end of road	--

Exhibit Monroe-23: Intersection Recommendations

Other Recommendations (Monroe County)

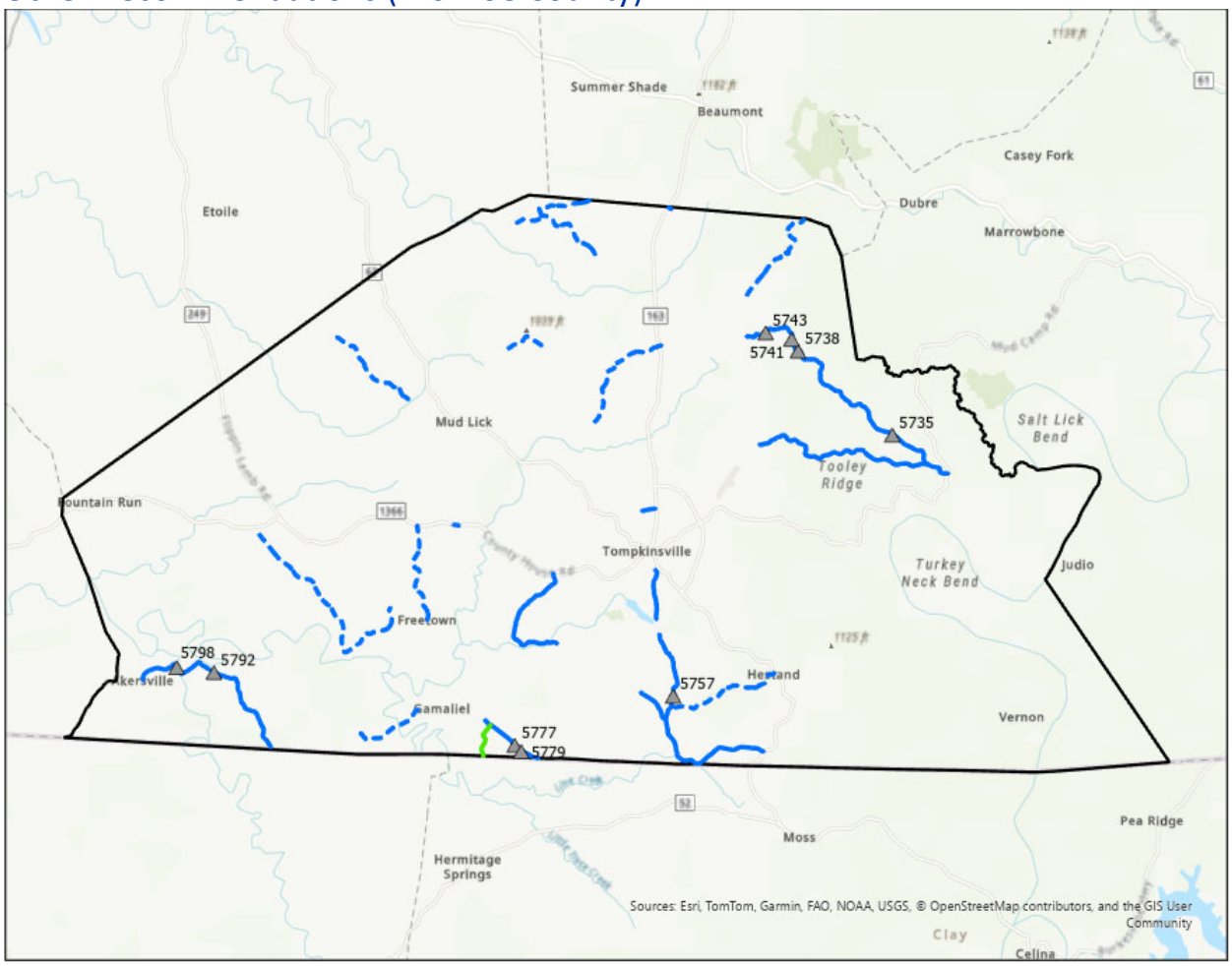


Exhibit Monroe-22: Intersection Locations

Point ID	RT_UNIQUE	RD_NAME	Issue Type	Description	Recommendation
5735	086-CR-1023 -000	OLD TEMPLE HILL RD	Other	Hill	Install "Hill Blocks Sight Distance" Sign.
5738	086-CR-1023 -000	OLD TEMPLE HILL RD	Other	Hill before curve	Install Advance Curve Sign
5741	086-CR-1023 -000	OLD TEMPLE HILL RD	Other	Hill	Install "Hill Blocks Sight Distance" Sign.
5743	086-CR-1023 -000	OLD TEMPLE HILL RD	Other	Hill	Install "Hill Blocks Sight Distance" Sign.
5757	086-CR-1150 -000	MILL CREEK RD	Other	Hill	Install "Hill Blocks Sight Distance" Sign.
5777	086-CR-1276 -000	CLEMENTSVILLE RD	Other	Hill	Install "Hill Blocks Sight Distance" Sign.
5779	086-CR-1276 -000	CLEMENTSVILLE RD	Other	Hill	Install "Hill Blocks Sight Distance" Sign.
5792	086-CR-1250 -000	BUGTUSSLE RD	Other	Hill	Install "Hill Blocks Sight Distance" Sign.
5798	086-CR-1250 -000	BUGTUSSLE RD	Other	Hill blocking view	Install "Hill Blocks Sight Distance" Sign.

Exhibit Monroe-23: Intersection Recommendations

Signing Recommendations (Monroe County)

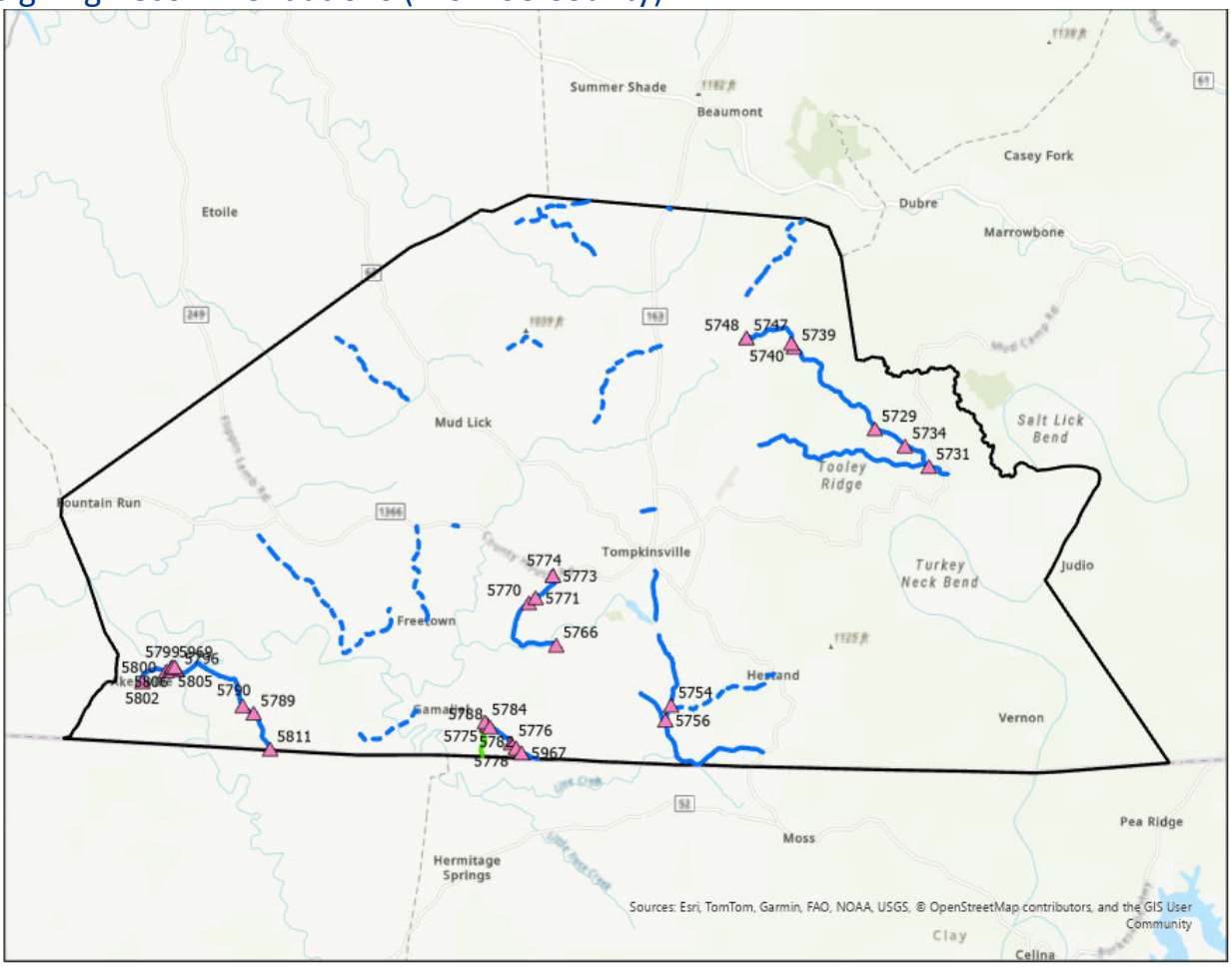


Exhibit Monroe-24: Sign Locations

As part of the RSA data collection effort, existing signs were inventoried along reviewed Focus Roadways, including a condition assessment and a photo of each sign. Additionally, preliminary Advisory Speed recommendations were calculated for each focus roadway to assist in the installation of horizontal alignment (curve) signs. Signing and advisory speed information is provided in digital format at https://kyt2.uky.edu/braddSAP.

APPENDIX L: SIMPSON COUNTY SAFETY ACTION PLAN

SIMPSON County Overview

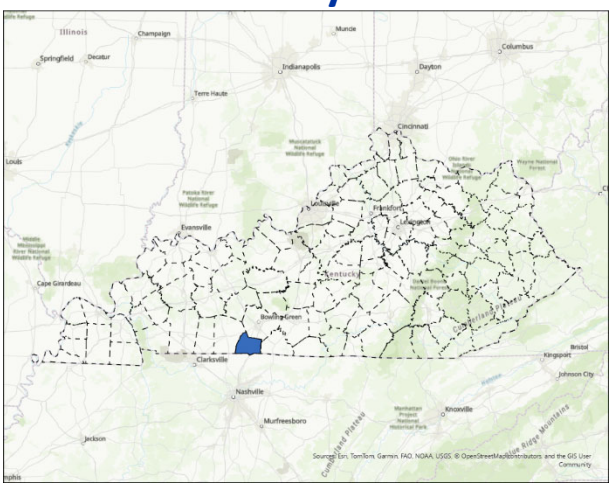


Exhibit Simpson-1: Location Map

Key Information Table Simpson County	
Population	20,195
Population in Persistent Poverty	16%
Underserved Community	**No**
Fatalities (All Roads)	26
Fatalities (County Roads)	5
Fatality Rate per 100,000 persons	**128.74**
County Road Mileage	281.3
State Road Mileage	171.7
Total Mileage	**453.0**

Exhibit Simpson-2: Key Information

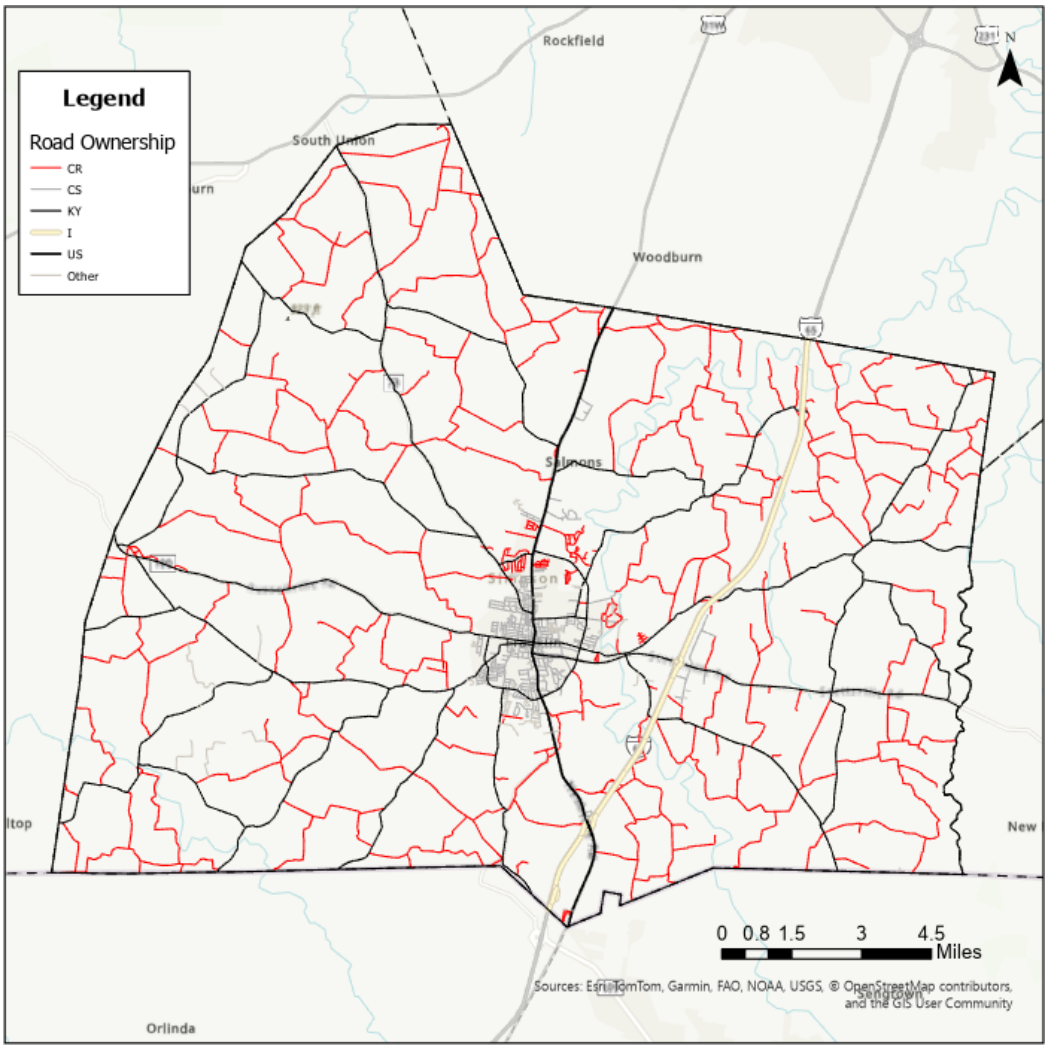


Figure Simpson-3: Map of County Roadways

Crash Analysis

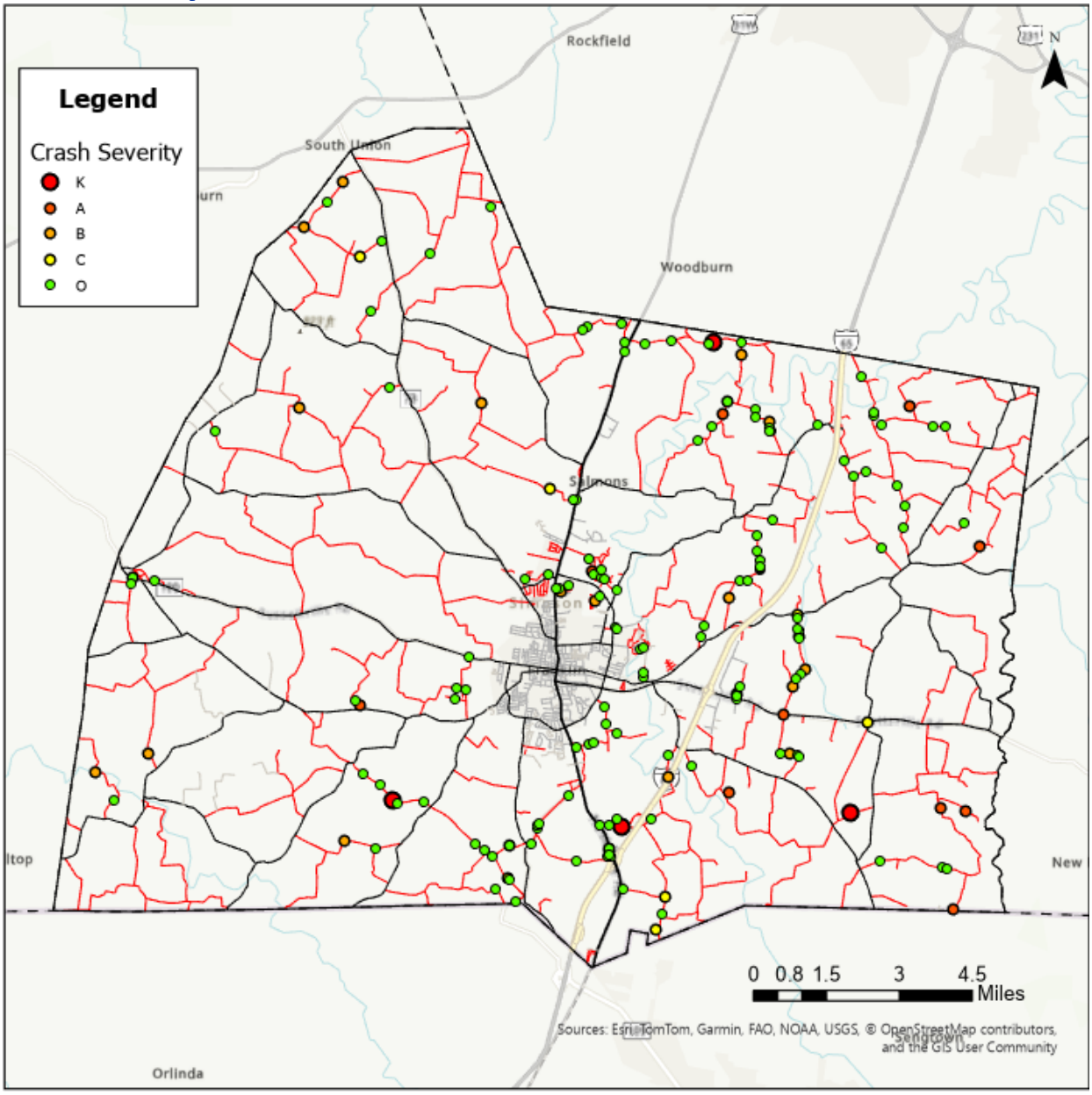
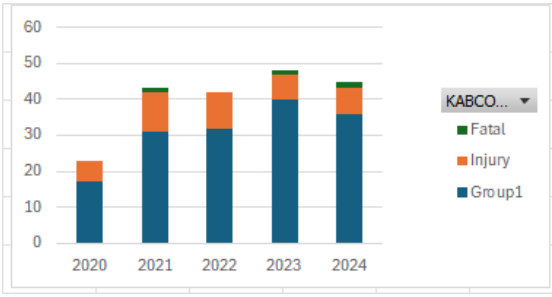


Figure Simpson-4: Map of County Road Crashes



Year	Prop. Damage Only	Injury	Fatal	Total
2020	17	6	0	**23**
2021	31	11	1	**43**
2022	32	10	0	**42**
2023	40	7	1	**48**
2024	36	7	2	**45**

Table Simpson-5: Crash Distribution by Year

Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	13	3	0	**16**
BACKING	15	1	0	**16**
HEAD ON	3	3	0	**6**
OPPOSING LEFT TURN	2	0	0	**2**
REAR END	7	0	0	**7**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	24	3	0	**27**
SIDESWIPE-SAME DIR	4	0	0	**4**
SINGLE VEHICLE	87	31	4	**122**

Exhibit Simpson-6: Crash Frequency and Severity by Manner of Collision

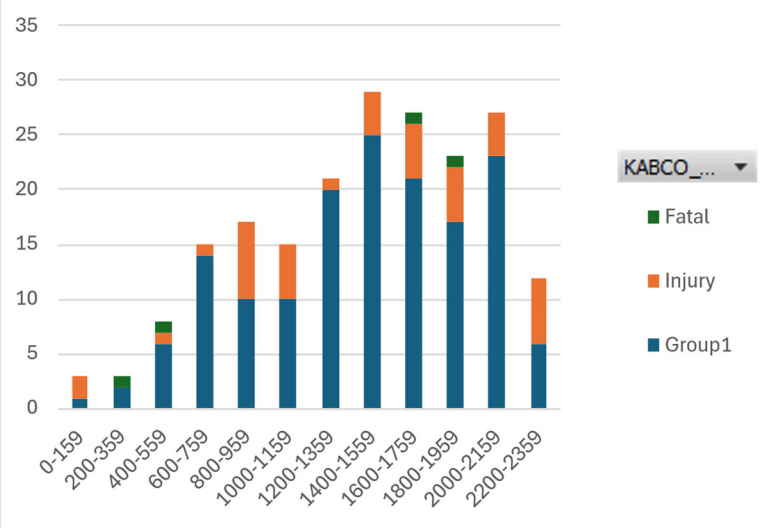


Exhibit Simpson-7: Crashes and Severity by Time of Day

Focus Roadways

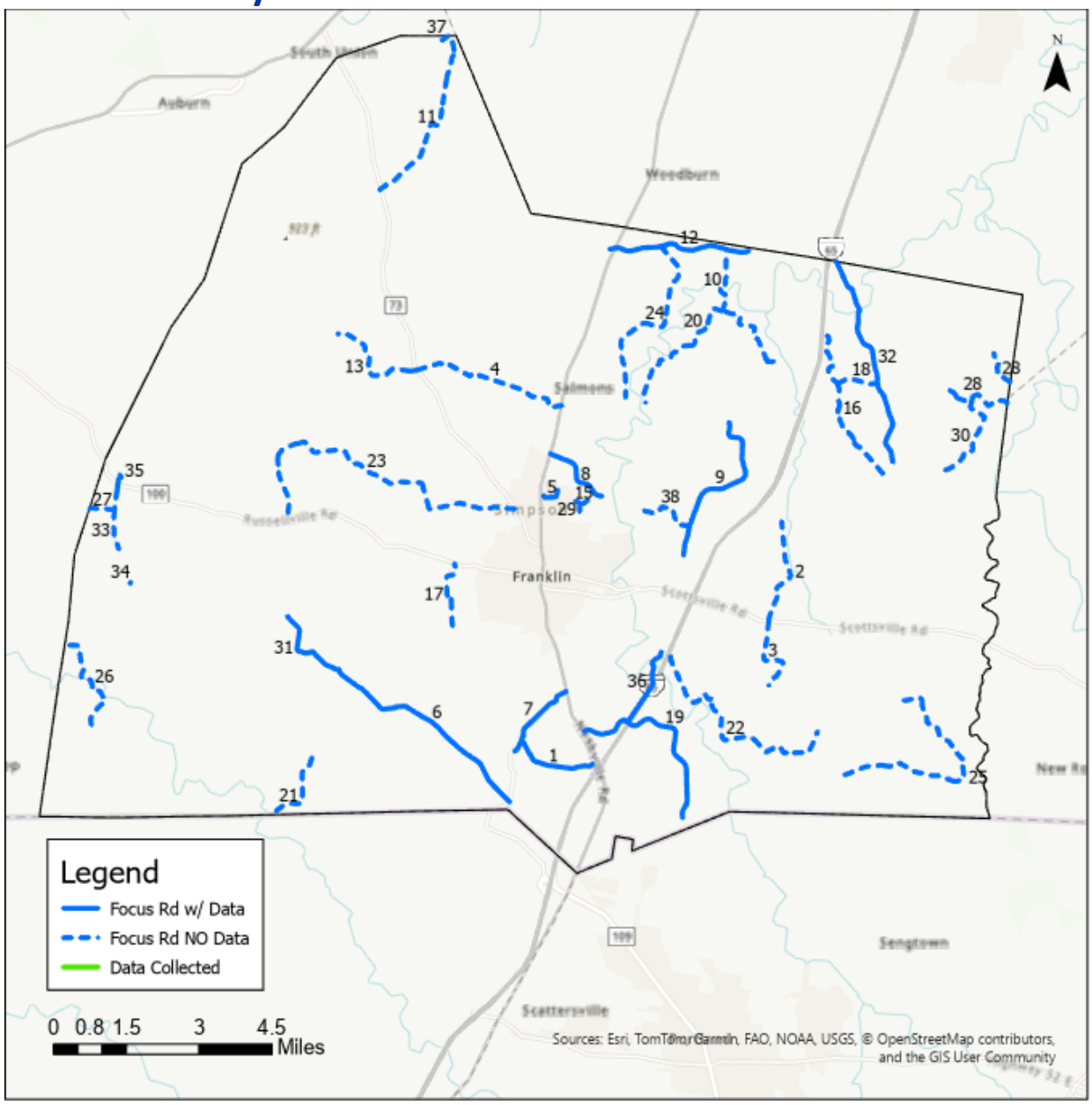


Exhibit Simpson-8: Focus Roads

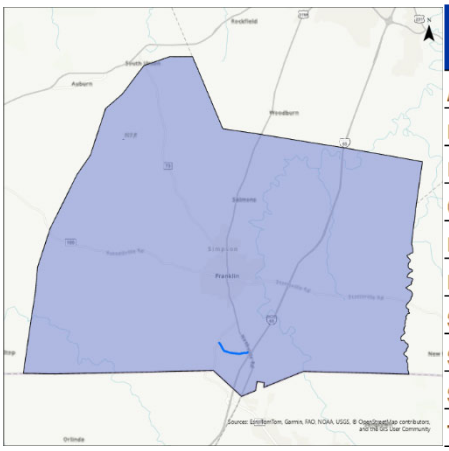
RT_UNIQUE	Length	County	Road Name	Injury Crash	Fatal Crash	PDO	Crash Score	Use Score	Rank	Focus Rd	Data
Simpson											
107-CR-1148 -000	1.75	Simpson	STEELE RD	1	2	10	2.50	3.09	1	1	1
107-CR-1108 -000	2.24	Simpson	LOVING CHAPEL RD	2	0	7	2.48	2.74	2	1	0
107-CR-1110 -000	1.79	Simpson	GREGORY RD	2	0	1	2.19	2.48	3	1	0
107-CR-1347 -000	3.36	Simpson	VANCES MILL RD	2	1	2	2.71	0.65	4	1	0
107-CR-1001B -000	0.46	Simpson	CLARK ST	1	0	1	2.79	0.28	5	1	0
107-CR-1207 -000	4.69	Simpson	KUMMER RD	1	0	8	1.45	2.63	6	1	1
107-CR-1149 -000	1.72	Simpson	LAKE SPRING RD	1	2	2	2.12	1.16	7	1	1
107-CR-1054 -000	1.53	Simpson	BROADWAY AVE	0	1	7	0.81	3.10	8	1	1
107-CR-1006 -000	3.65	Simpson	ROARK RD	0	1	8	0.86	2.84	9	1	1
107-CR-1041 -000	1.46	Simpson	SADDLER FORD RD	1	0	3	1.21	1.83	10	1	0
107-CR-1319 -000	3.86	Simpson	HARDISON RD	1	0	3	1.21	1.28	11	1	0
107-CR-1042 -000	3.14	Simpson	CEDAR BLUFF RD	0	1	6	0.76	2.01	12	1	1
107-CR-1305 -000	2.32	Simpson	MOODY RD	0	0	0	1.67	0.09	13	1	0
107-CR-1050 -000	0.11	Simpson	CLAY STARKS RD	0	0	0	0.00	3.39	14	1	0
107-CR-1004 -000	0.30	Simpson	BROWN RD	1	0	1	1.12	1.11	15	1	0
107-CR-1011 -000	3.51	Simpson	SALEM RD	1	0	3	1.21	0.84	16	1	0
107-CR-1202 -000	1.49	Simpson	HATTER RD	1	0	1	1.12	0.96	17	1	0
107-CR-1028 -000	0.86	Simpson	WILLIAMS RD	1	0	0	1.07	0.94	18	1	0
107-CR-1137 -000	4.43	Simpson	PEDEN MILL RD	0	1	6	0.76	1.44	19	1	1
107-CR-1037 -000	4.76	Simpson	UHLS RD	1	0	1	1.12	0.70	20	1	0
107-CR-1216 -000	1.77	Simpson	DUERS MILL RD	1	0	0	1.07	0.68	21	1	0
107-CR-1132 -000	5.04	Simpson	JOHNS LOOP RD	1	0	1	1.12	0.56	22	1	0
107-CR-1300 -000	7.16	Simpson	ROBEY-BETHEL GROVE RD	1	0	0	1.07	0.66	23	1	0
107-CR-1043 -000	4.03	Simpson	SPORTSMAN LAKE RD	1	0	1	1.12	0.50	24	1	0
107-CR-1126 -000	5.28	Simpson	PLEASANT HILL RD	1	0	2	1.17	0.27	25	1	0
107-CR-1234 -000	2.43	Simpson	REAMES DIXON RD	1	0	0	1.07	0.43	26	1	0
107-CR-1342 -000	1.23	Simpson	RUTHERFORD RD	0	1	0	0.48	1.52	27	1	0
107-CR-1019 -000	2.33	Simpson	COUNTY LOOP RD	1	0	0	1.07	0.30	28	1	0
107-CR-1160A -000	0.22	Simpson	WESTFIELD LN	1	0	1	1.12	0.15	29	1	0
107-CR-1015 -000	1.95	Simpson	SPOUT SPRINGS RD	1	0	0	1.07	0.17	30	1	0
107-CR-1218 -000	1.75	Simpson	RUSSELLVILLE-GALLATIN RD	0	0	0	0.00	2.23	31	1	1
107-CR-1013 -000	4.55	Simpson	BARNES SCHOOL RD	0	0	4	0.19	1.78	32	1	1
107-CR-1229 -000	0.83	Simpson	JACK FERGUSON RD	0	0	0	0.00	1.94	33	1	0
107-CR-1217 -000	1.44	Simpson	TURNER THACKER RD	0	0	0	0.00	1.88	34	1	0
107-CR-1334 -000	0.06	Simpson	OLD KY-100	0	0	0	0.00	1.78	35	1	0
107-CR-1150 -000	1.83	Simpson	KENNY PERRY DR	0	0	1	0.05	1.61	36	1	1
107-CR-1066 -000	0.15	Simpson	COX RD	0	0	0	0.00	1.67	37	1	0
107-CR-1152 -000	1.35	Simpson	KINNAIRD RD	0	1	1	0.52	0.54	38	1	0

Exhibit Simpson-9: List of Focus Roadways

Recommended Improvements (Top 5 Roads)

STEELE RD(107-CR-1148 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	1	1	0	**2**
BACKING	5	0	0	**5**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	1	1	0	**2**
SIDESWIPE-SAME DIR	1	0	0	**1**
SINGLE VEHICLE	3	1	0	**4**
Total	**11**	**3**	**0**	**14**

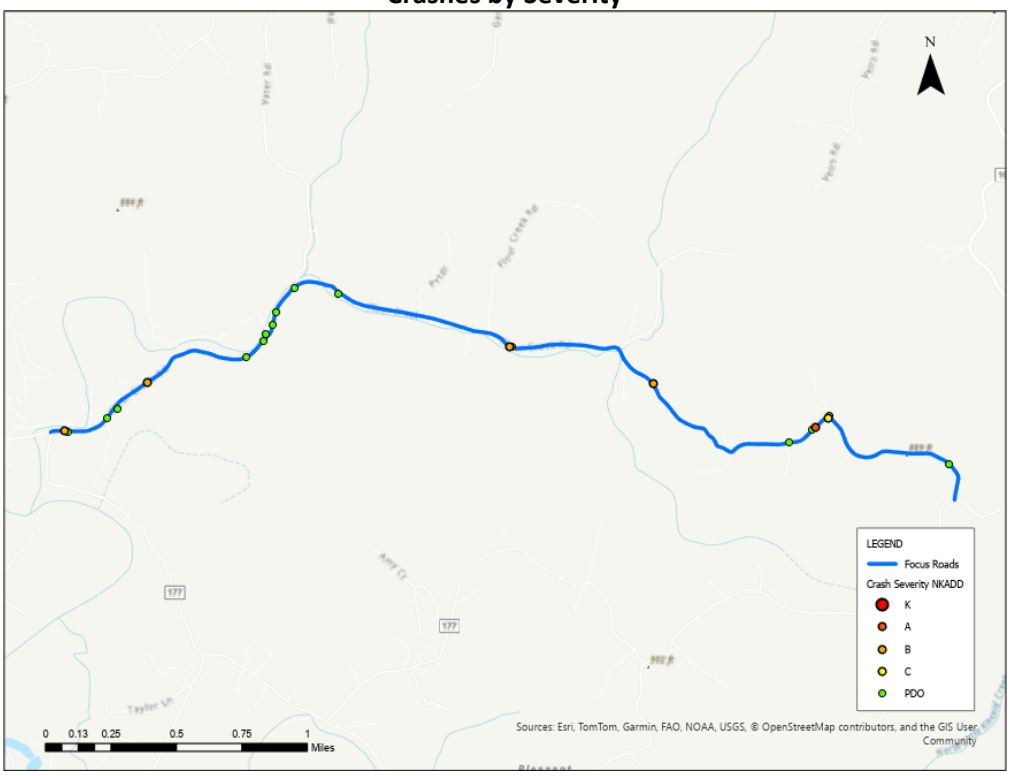
General Roadway Conditions

Roadway Section Data Not Collected

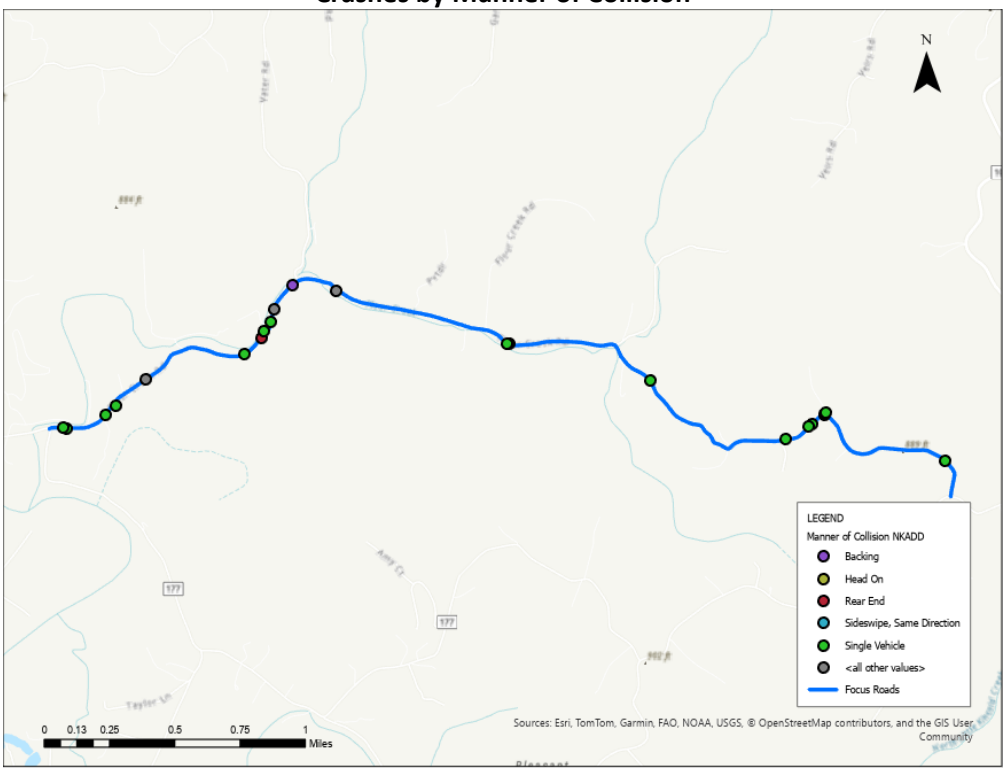
Roadway Typical Section



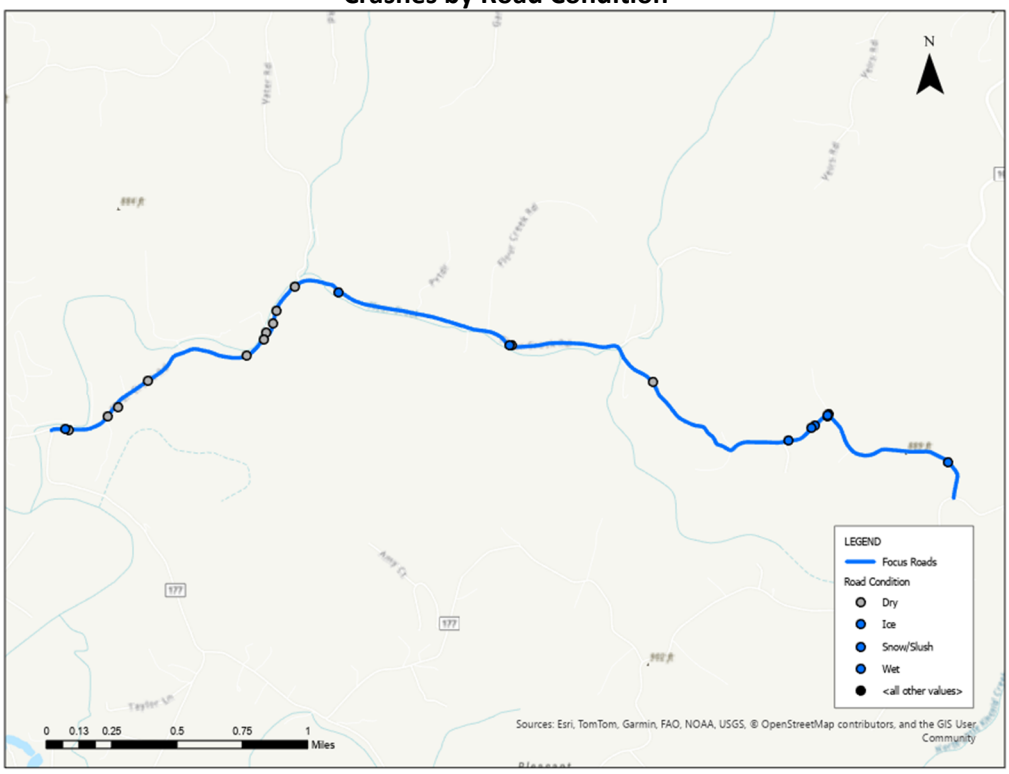
Crashes by Severity



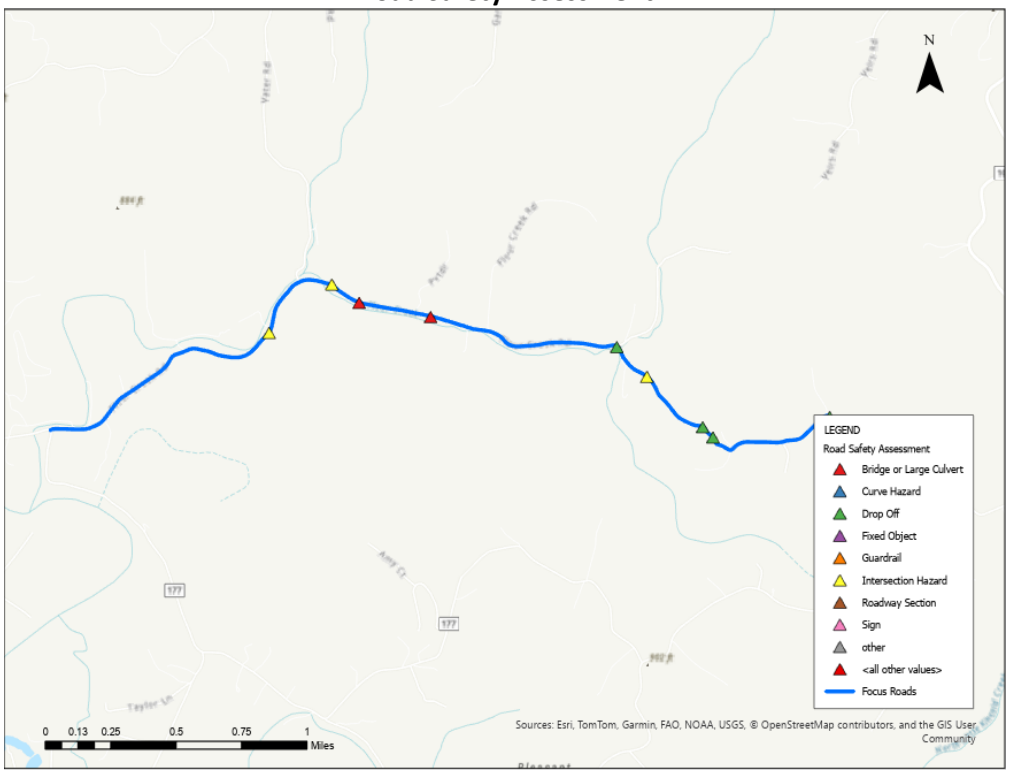
Crashes by Manner of Collision



Crashes by Road Condition



Road Safety Assessment

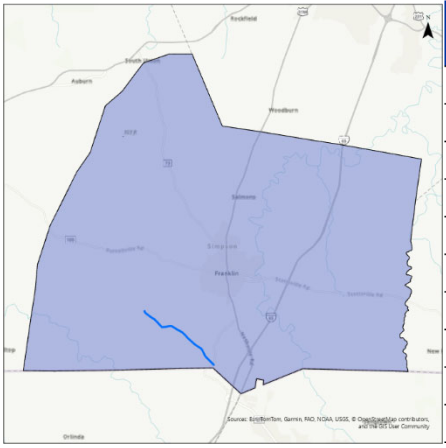


General Recommendations

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Comments	Recommendation
4954	107-CR-1148 -000	STEELE RD	Curve Hazard	Yes	Curve_Obscured	Install advance curve signing and chevrons; Remove Vegetation
4958	107-CR-1148 -000	STEELE RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons

KUMMER RD (107-CR-1207 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	1	0	0	**1**
BACKING	0	0	0	**0**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	4	0	0	**4**
SIDESWIPE-SAME DIR	1	0	0	**1**
SINGLE VEHICLE	2	1	1	**4**
Total	**8**	**1**	**1**	**10**

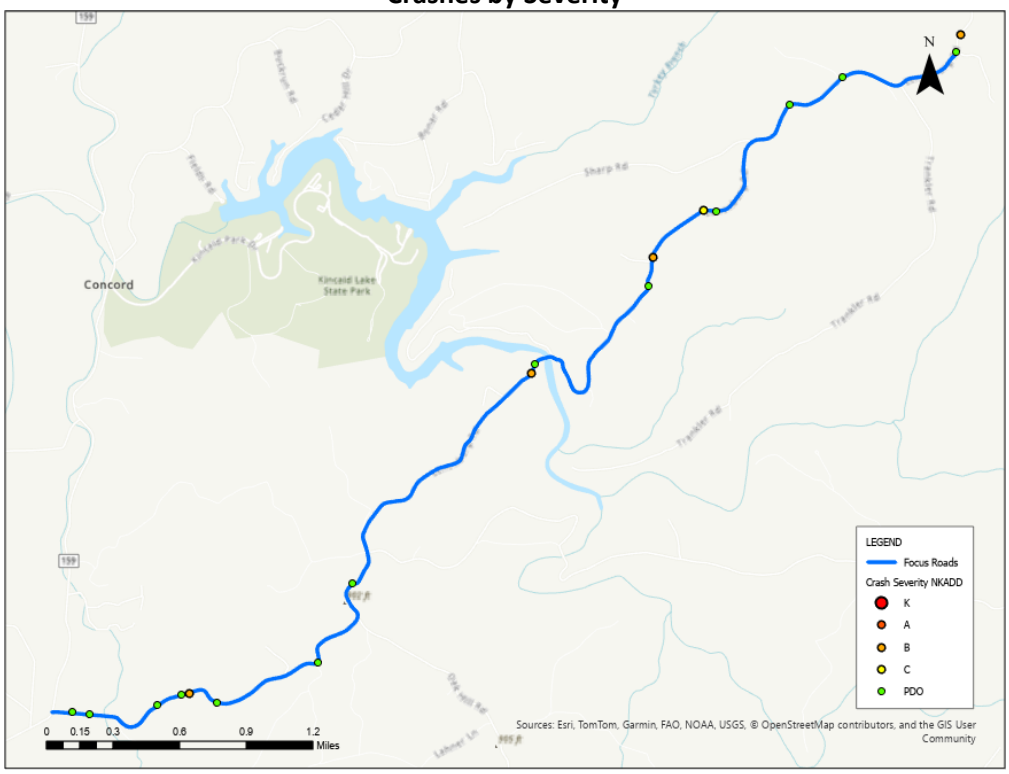
General Roadway Conditions

Roadway Section Data Not Collected

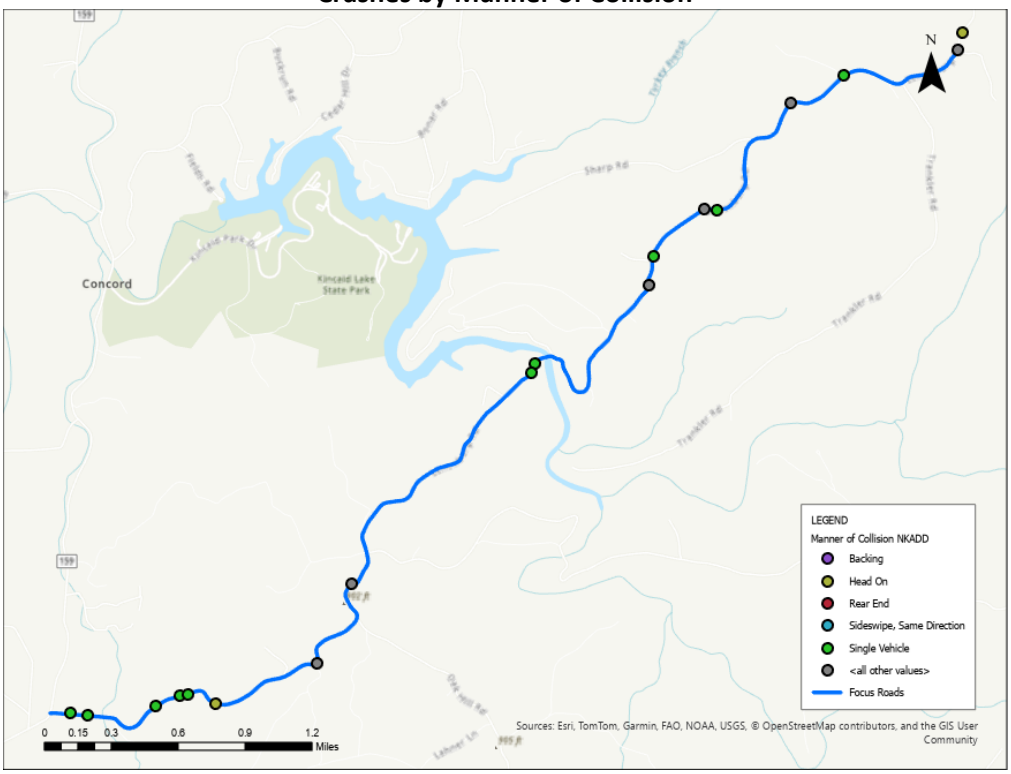
Roadway Typical Section



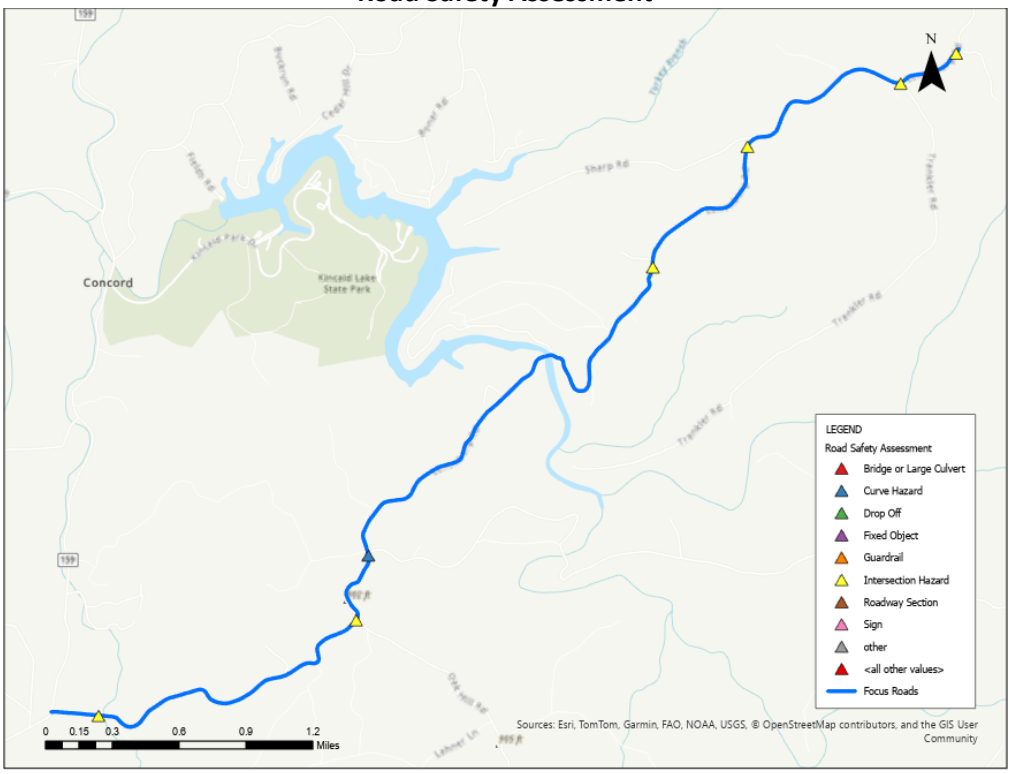
Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment

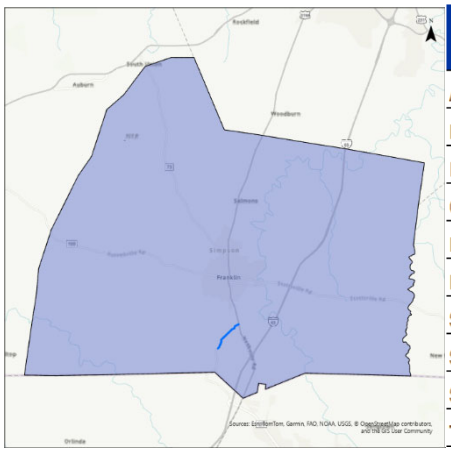


General Recommendations

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Recommendation	Comments
4998	107-CR-1207 -000	KUMMER RD	Intersection	Yes	Insufficient_Sight_Distance_at_	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Bridge Width**	**OM Present**	**Recommendation**
4979	107-CR-1207 -000	KUMMER RD	Bridge or Large Culvert	15	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
4986	107-CR-1207 -000	KUMMER RD	Bridge or Large Culvert	15	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
4987	107-CR-1207 -000	KUMMER RD	Bridge or Large Culvert	15	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
4988	107-CR-1207 -000	KUMMER RD	Bridge or Large Culvert	15	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
4990	107-CR-1207 -000	KUMMER RD	Bridge or Large Culvert	15	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
4991	107-CR-1207 -000	KUMMER RD	Bridge or Large Culvert	15	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
Point ID	**RT_UNIQUE**	**Road Name**	**Issue Type**	**Vegetation**	**Comments**	**Recommendation**
4978	107-CR-1207 -000	KUMMER RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
4984	107-CR-1207 -000	KUMMER RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons; Remove Vegetation
4992	107-CR-1207 -000	KUMMER RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
4993	107-CR-1207 -000	KUMMER RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons; Remove Vegetation

LAKE SPRING RD (107-CR-1149 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	0	0	0	**0**
HEAD ON	1	0	0	**1**
OPPOSING LEFT TURN	1	0	0	**1**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	0	0	0	**0**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	3	0	0	**3**
Total	**5**	**0**	**0**	**5**

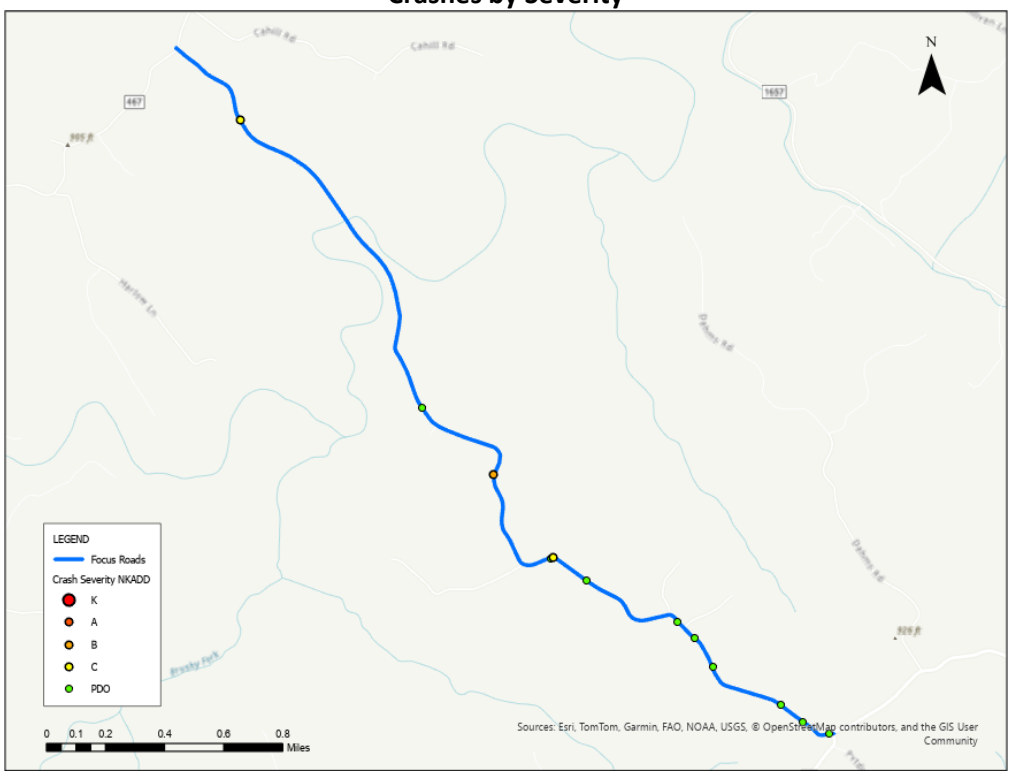
General Roadway Conditions

Roadway Section Data Not Collected

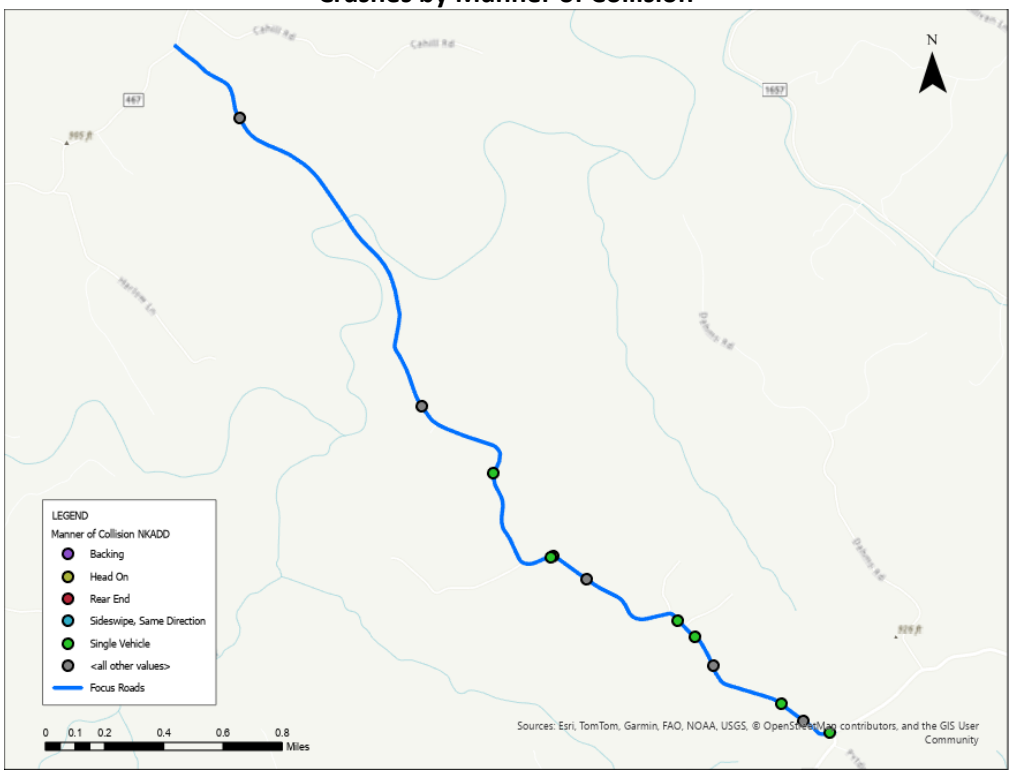
Roadway Typical Section



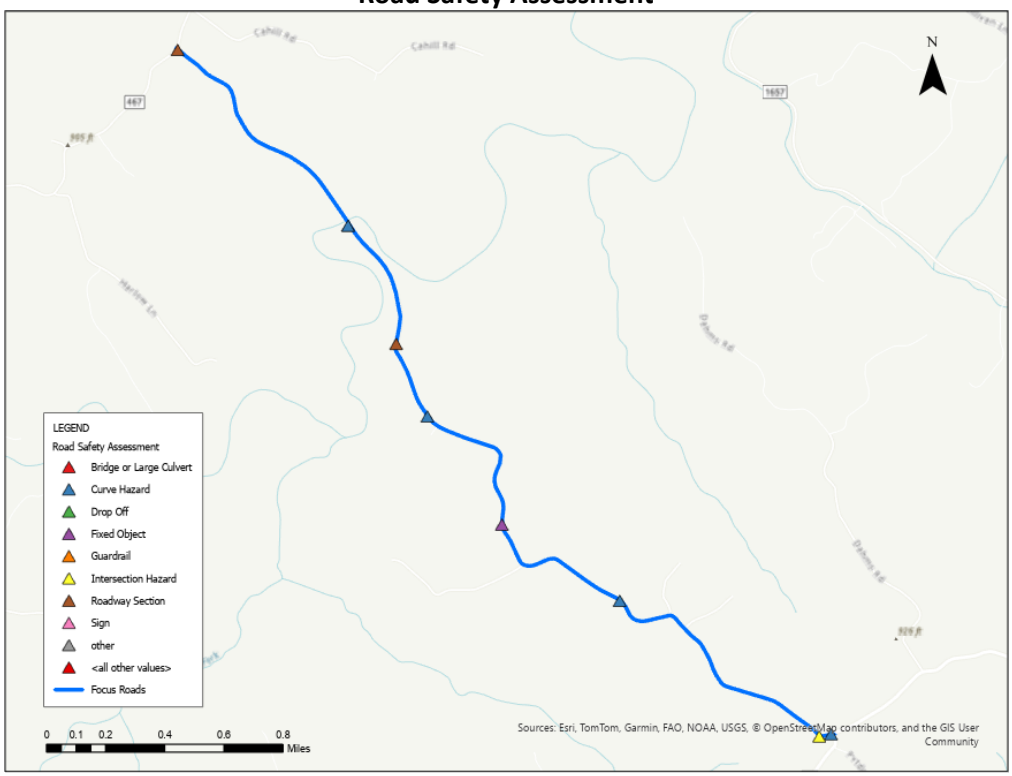
Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment



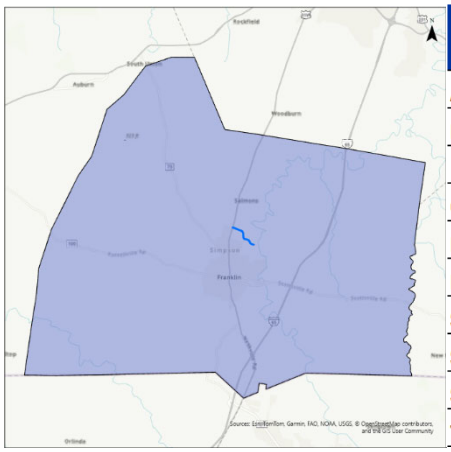
General Recommendations

Point ID	RT_UNIQUE	Road Name	Issue Type	Bridge Width	OM Present	Recommendation
4963	107-CR-1149 -000	LAKE SPRING RD	Bridge or Large Culvert	15	4	Install Object Markers where missing.
4966	107-CR-1149 -000	LAKE SPRING RD	Bridge or Large Culvert	15	2	Install Object Markers where missing.
4971	107-CR-1149 -000	LAKE SPRING RD	Bridge or Large Culvert	15	2	Install Object Markers where missing.
4975	107-CR-1149 -000	LAKE SPRING RD	Bridge or Large Culvert	15	4	Evaluate need for guardrail on approach, install Type 3 Object Markers

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Comments	Recommendation
4964	107-CR-1149 -000	LAKE SPRING RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons
4965	107-CR-1149 -000	LAKE SPRING RD	Curve Hazard	Yes	vegetation,Curve_Obscured	Install advance curve signing and chevrons; Remove Vegetation
4973	107-CR-1149 -000	LAKE SPRING RD	Curve Hazard	Yes	vegetation	Install advance curve signing and chevrons; Remove Vegetation

BROADWAY AVE (107-CR-1054 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	2	0	0	**2**
BACKING	0	0	0	**0**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	1	0	0	**1**
REAR END	1	0	0	**1**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	0	0	0	**0**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	3	1	0	**4**
Total	**7**	**1**	**0**	**8**

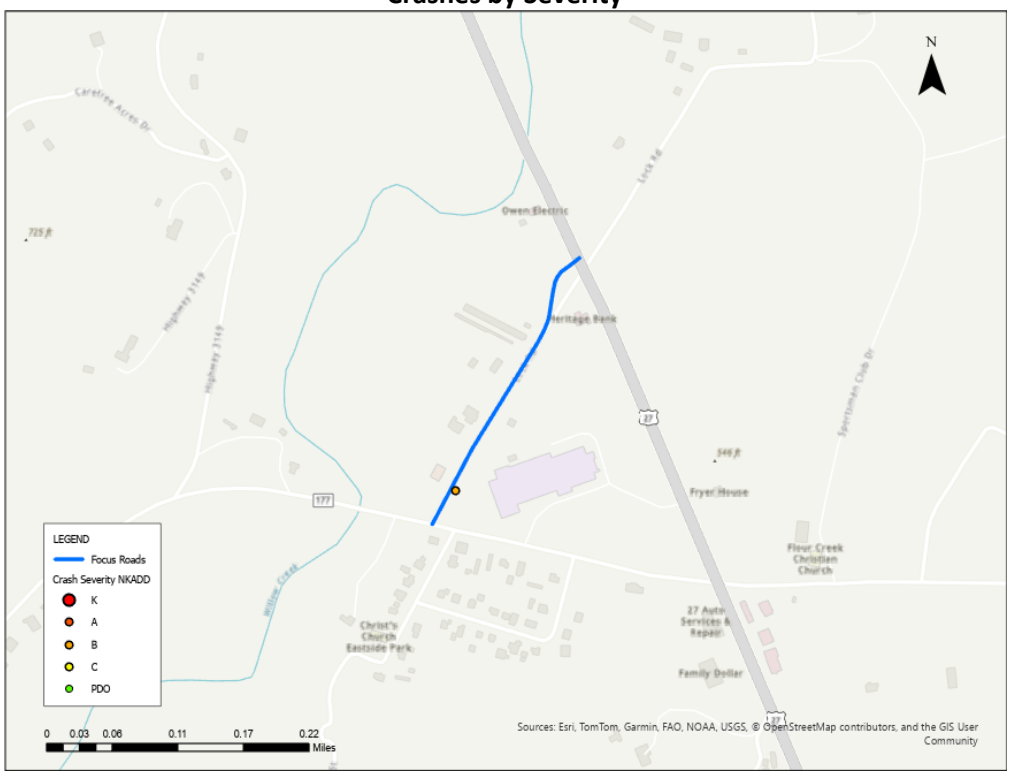
General Roadway Conditions

Roadway Section Data Not Collected

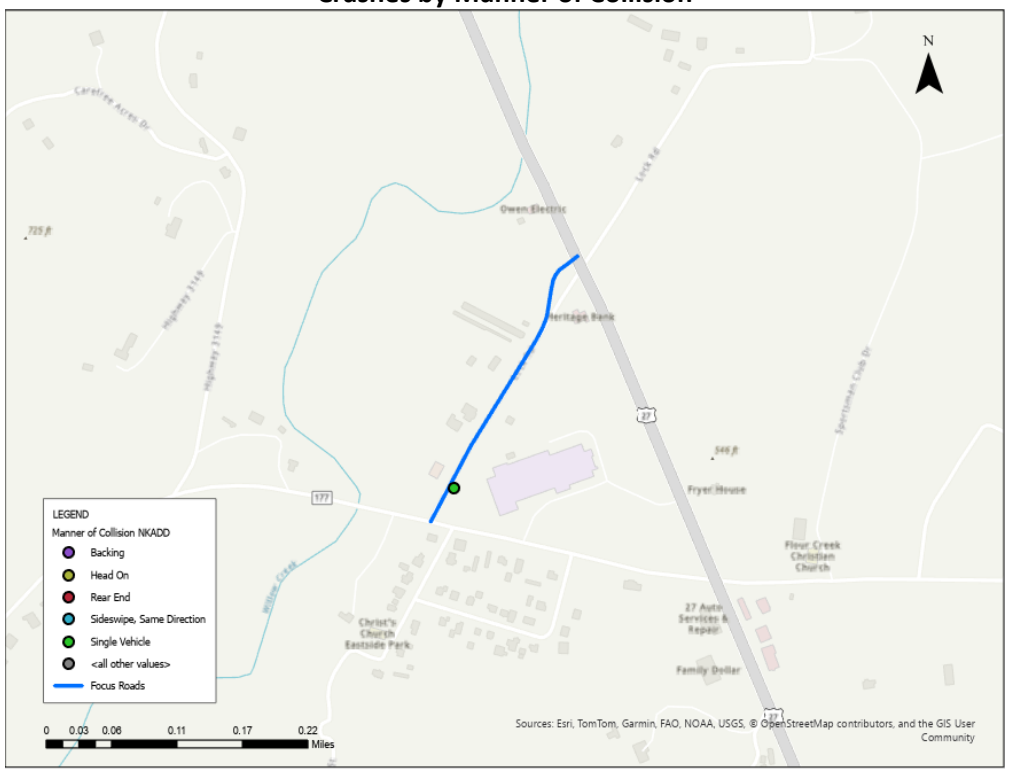
Roadway Typical Section



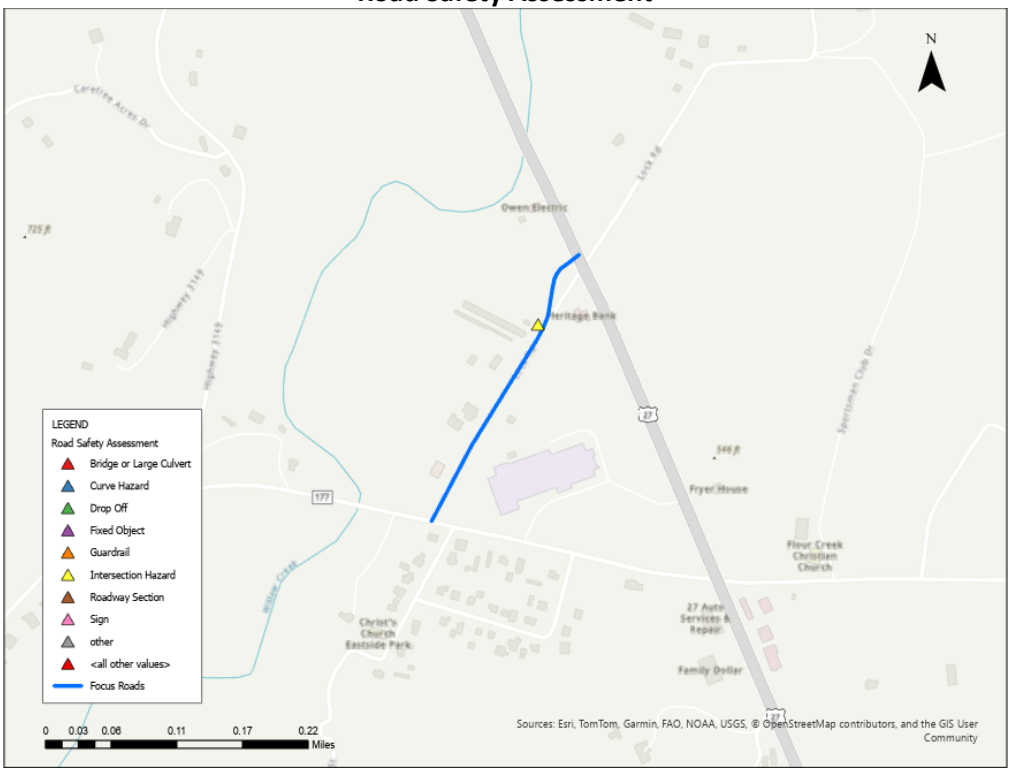
Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment

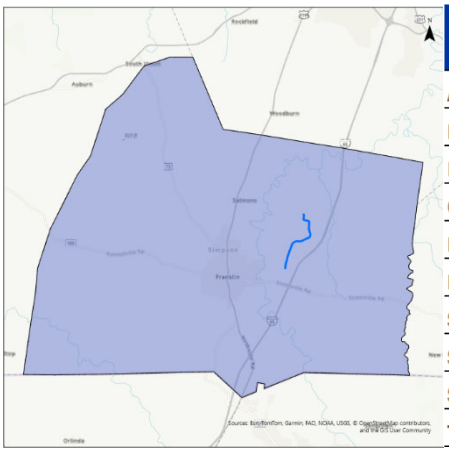


General Recommendations

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Comments	Recommendation
5665	107-CR-1054 -000	BROADWAY AVE	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons
Point ID	**RT_UNIQUE**	**RD_NAME**	**Issue Type**	**--**	**Description**	**Recommendation**
5662	107-CR-1054 -000	BROADWAY AVE	Other	0	Railroad	Install "RR Crossing" Sign
5672	107-CR-1054 -000	BROADWAY AVE	Other	0	Railroad	Install "RR Crossing" Sign

ROARK RD (107-CR-1006 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	**0**
BACKING	0	0	0	**0**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	0	0	0	**0**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	0	0	0	**0**
SIDESWIPE-SAME DIR	0	0	0	**0**
SINGLE VEHICLE	10	0	0	**10**
Total	**10**	**0**	**0**	**10**

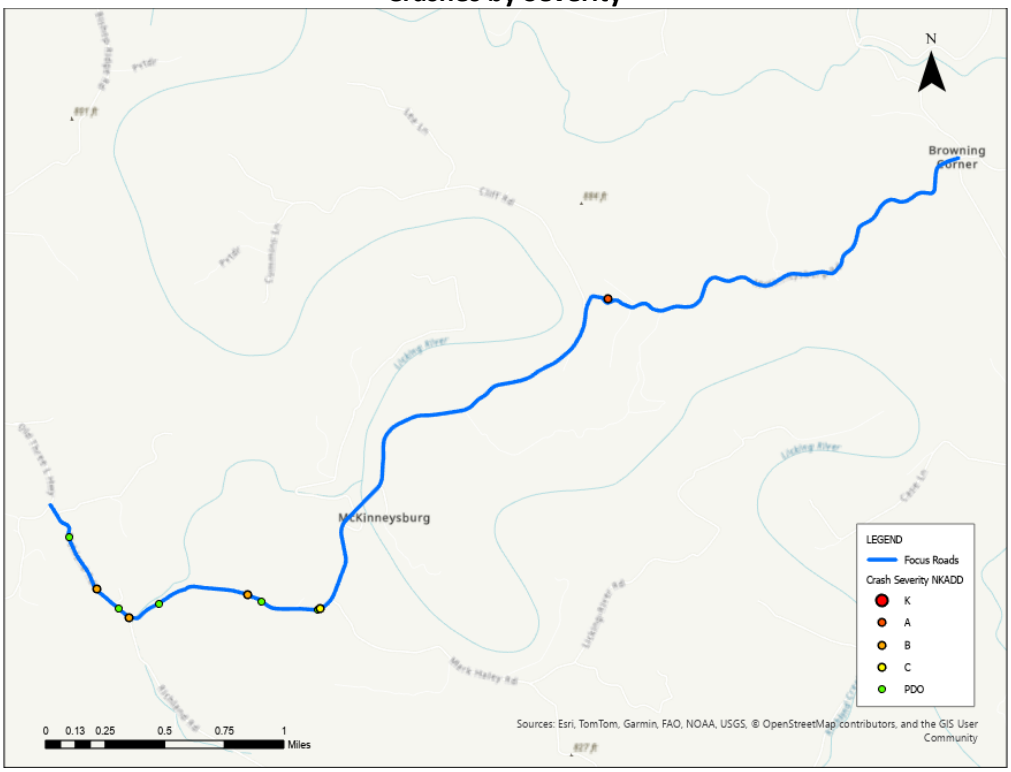
General Roadway Conditions

Roadway Section Data Not Collected

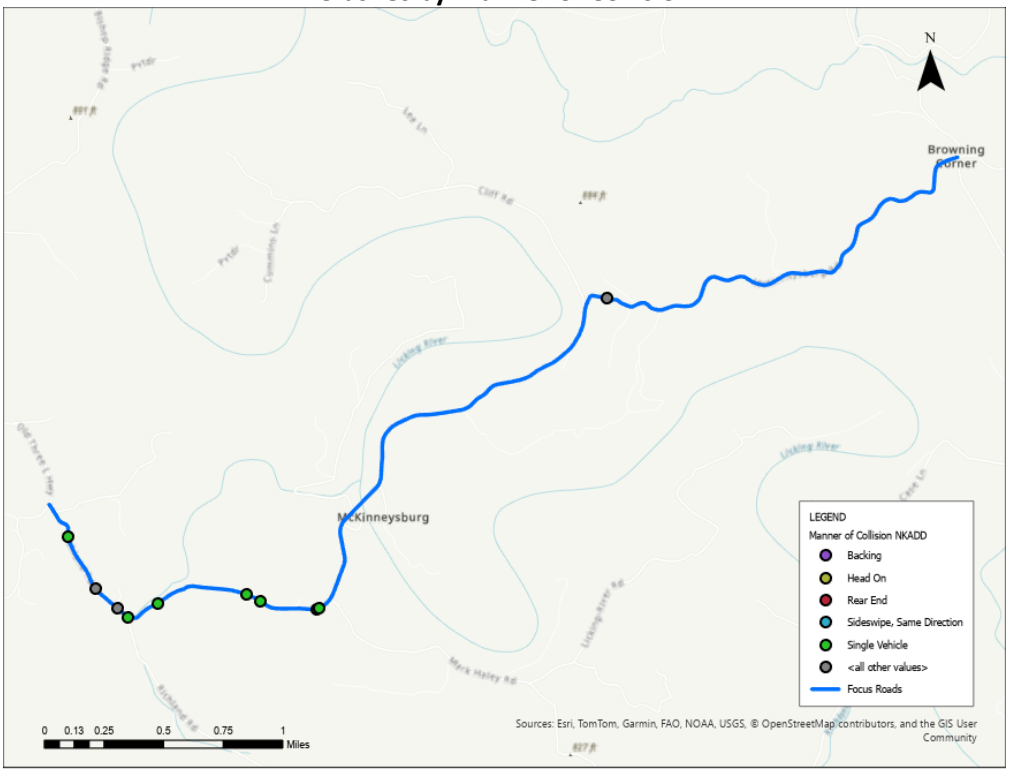
Roadway Typical Section



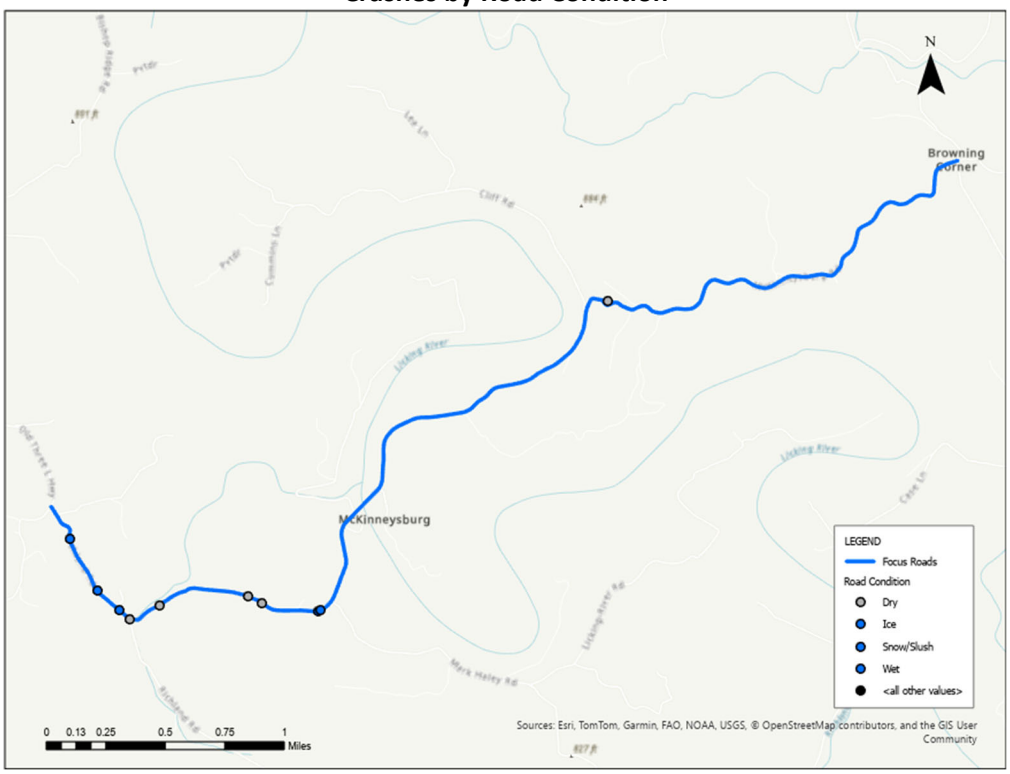
Crashes by Severity



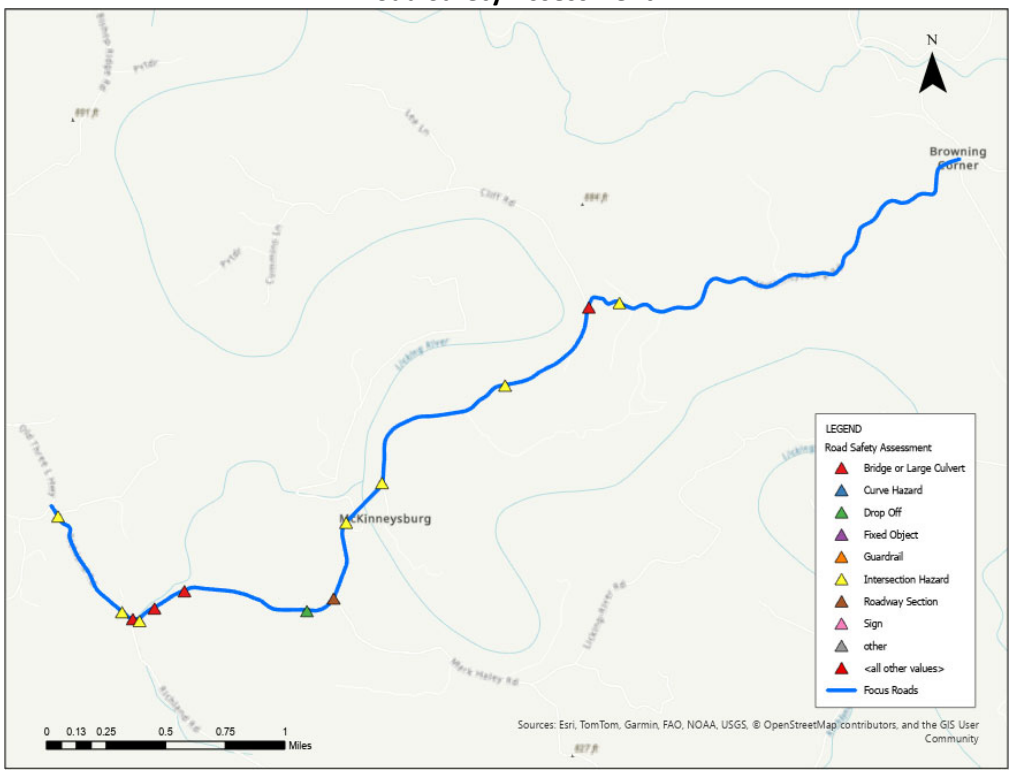
Crashes by Manner of Collision



Crashes by Road Condition



Road Safety Assessment



General Recommendations

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Comments	Recommendation
5163	107-CR-1006 -000	ROARK RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons
5169	107-CR-1006 -000	ROARK RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons
5177	107-CR-1006 -000	ROARK RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons
5180	107-CR-1006 -000	ROARK RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons
5182	107-CR-1006 -000	ROARK RD	Curve Hazard	Yes	Curve_Obscured,vegetation	Install advance curve signing and chevrons

Other Roadways

Bridge / Culvert Recommendations (Simpson County)

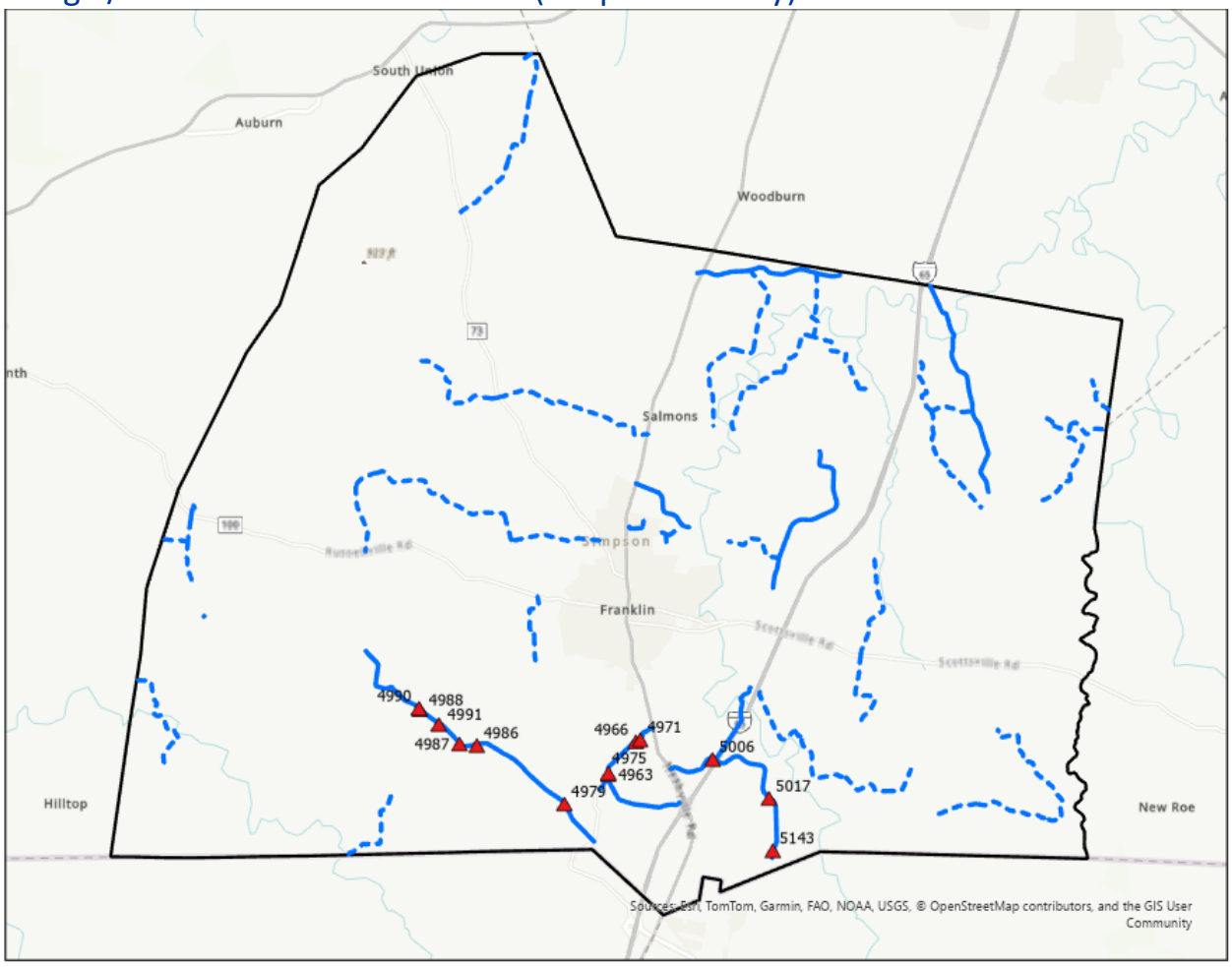


Exhibit Simpson-10: Bridge / Culvert Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Bridge Width	Guardrail Present	OM Present	Recommendation
4963	107-CR-1149 -000	LAKE SPRING RD	Bridge or Large Culvert	15	4	4	Install Object Markers where missing.
4966	107-CR-1149 -000	LAKE SPRING RD	Bridge or Large Culvert	15	other	2	Install Object Markers where missing.
4971	107-CR-1149 -000	LAKE SPRING RD	Bridge or Large Culvert	15	other	2	Install Object Markers where missing.
4975	107-CR-1149 -000	LAKE SPRING RD	Bridge or Large Culvert	15	4	4	Evaluate need for guardrail on approach, install Type 3 Object Markers
4979	107-CR-1207 -000	KUMMER RD	Bridge or Large Culvert	15	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
4986	107-CR-1207 -000	KUMMER RD	Bridge or Large Culvert	15	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
4987	107-CR-1207 -000	KUMMER RD	Bridge or Large Culvert	15	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
4988	107-CR-1207 -000	KUMMER RD	Bridge or Large Culvert	15	4	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
4990	107-CR-1207 -000	KUMMER RD	Bridge or Large Culvert	15	4	0	Install "One Lane Bridge" (W5-1) Sign. Install Type 3 Object Markers where missing.
4991	107-CR-1207 -000	KUMMER RD	Bridge or Large Culvert	15	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5006	107-CR-1150 -000	KENNY PERRY DR	Bridge or Large Culvert	25	4	0	Install Type 3 Object Markers where missing.
5017	107-CR-1137 -000	PEDEN MILL RD	Bridge or Large Culvert	15	0	4	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5143	107-CR-1137 -000	PEDEN MILL RD	Bridge or Large Culvert	15	0	4	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.

Exhibit Simpson-11: Bridge / Culvert Recommendations

Curve Recommendations (Simpson County)

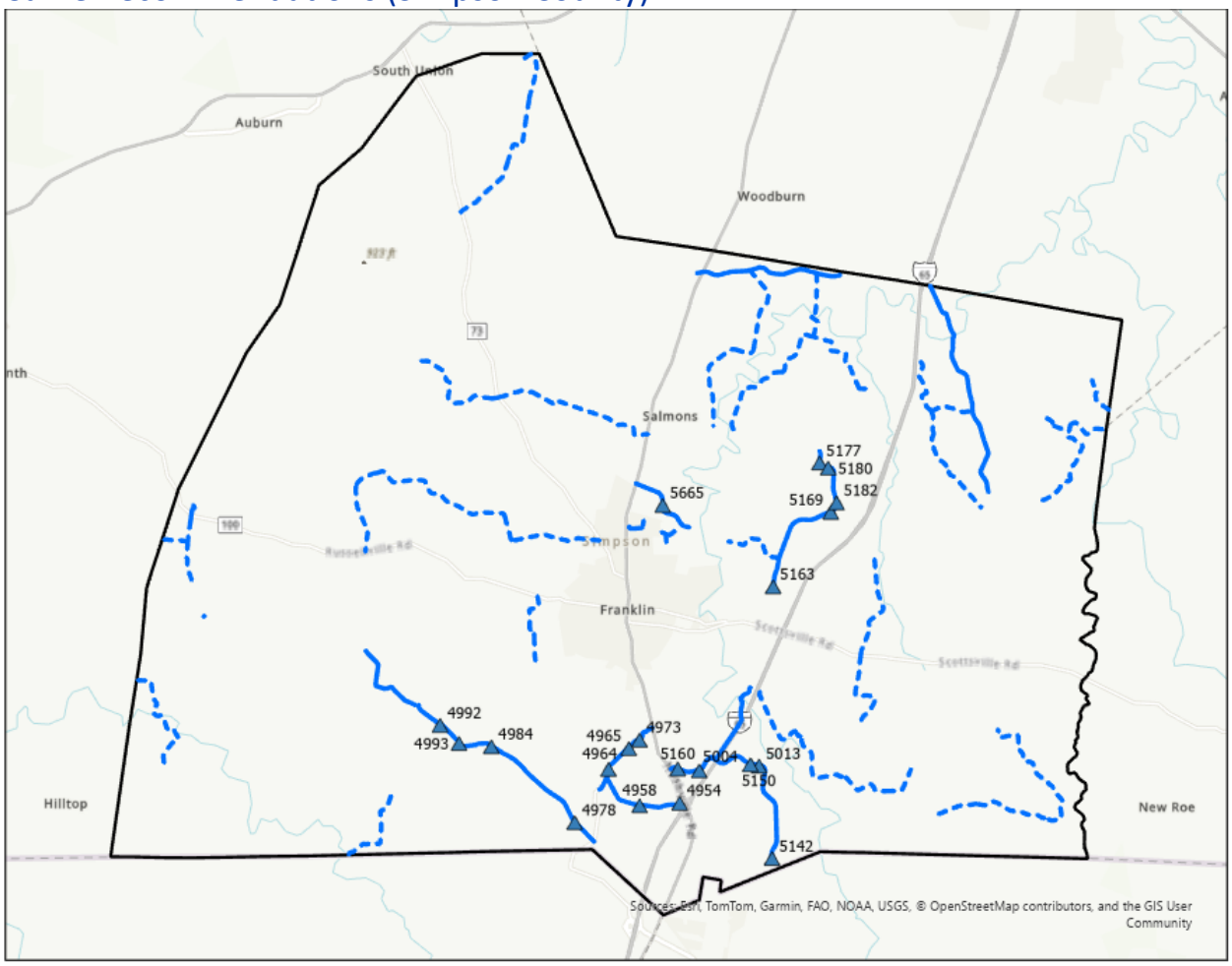


Exhibit Simpson-12: Focus Road Curves

Point ID	RT_UNIQUE	Road Name	Issue Type	Comments	Vegetation	Recommendation
4954	107-CR-1148 -000	STEELE RD	Curve Hazard	Curve_Obscured	Yes	Install advance curve signing and chevrons; Remove Vegetation
4958	107-CR-1148 -000	STEELE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4964	107-CR-1149 -000	LAKE SPRING RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4965	107-CR-1149 -000	LAKE SPRING RD	Curve Hazard	vegetation,Curve_Obscured	Yes	Install advance curve signing and chevrons; Remove Vegetation
4973	107-CR-1149 -000	LAKE SPRING RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
4978	107-CR-1207 -000	KUMMER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4984	107-CR-1207 -000	KUMMER RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
4992	107-CR-1207 -000	KUMMER RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
4993	107-CR-1207 -000	KUMMER RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
5004	107-CR-1137 -000	PEDEN MILL RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
5013	107-CR-1137 -000	PEDEN MILL RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Remove Vegetation
5142	107-CR-1137 -000	PEDEN MILL RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
5150	107-CR-1137 -000	PEDEN MILL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5160	107-CR-1137 -000	PEDEN MILL RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
5163	107-CR-1006 -000	ROARK RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
5169	107-CR-1006 -000	ROARK RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
5177	107-CR-1006 -000	ROARK RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
5180	107-CR-1006 -000	ROARK RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
5182	107-CR-1006 -000	ROARK RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
5665	107-CR-1054 -000	BROADWAY AVE	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons
5676	107-CR-1013 -000	BARNES SCHOOL RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons
5677	107-CR-1013 -000	BARNES SCHOOL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5681	107-CR-1013 -000	BARNES SCHOOL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons

Exhibit Simpson-13: Curve Recommendations

Roadside Drop Off Recommendations (Simpson County)

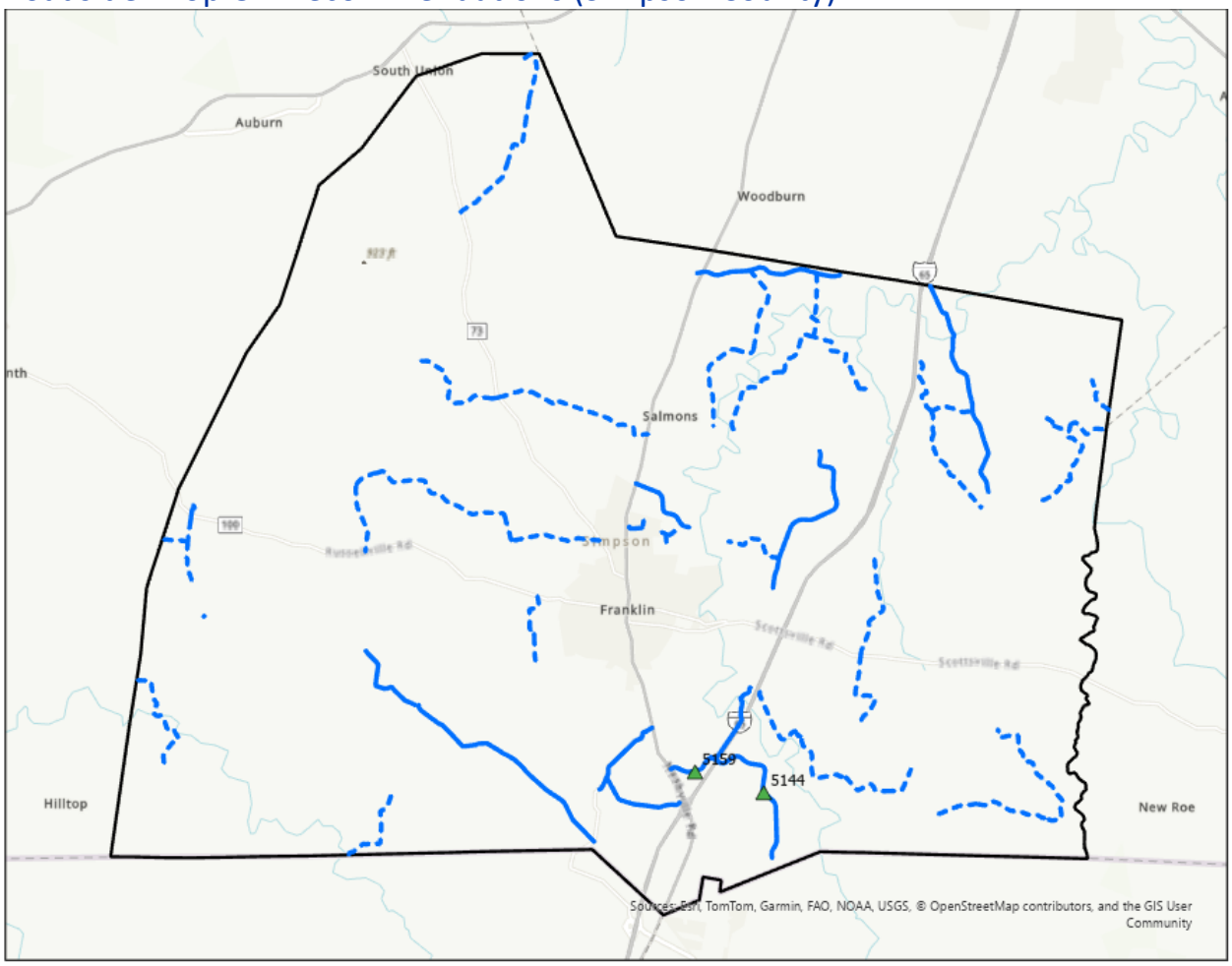


Exhibit Simpson-14: Roadside Drop Off Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Drop Off Offset	Drop Off Height	Additional Comments	Recommendation
5144	107-CR-1137 -000	PEDEN MILL RD	Drop Off	1-3	5-10		Install Type 2 Object Marker
5159	107-CR-1137 -000	PEDEN MILL RD	Drop Off	0-1	5-10		Install Type 2 Object Marker

Exhibit Simpson-15: Roadside Drop Off Recommendations

Guardrail Recommendations (Simpson County)

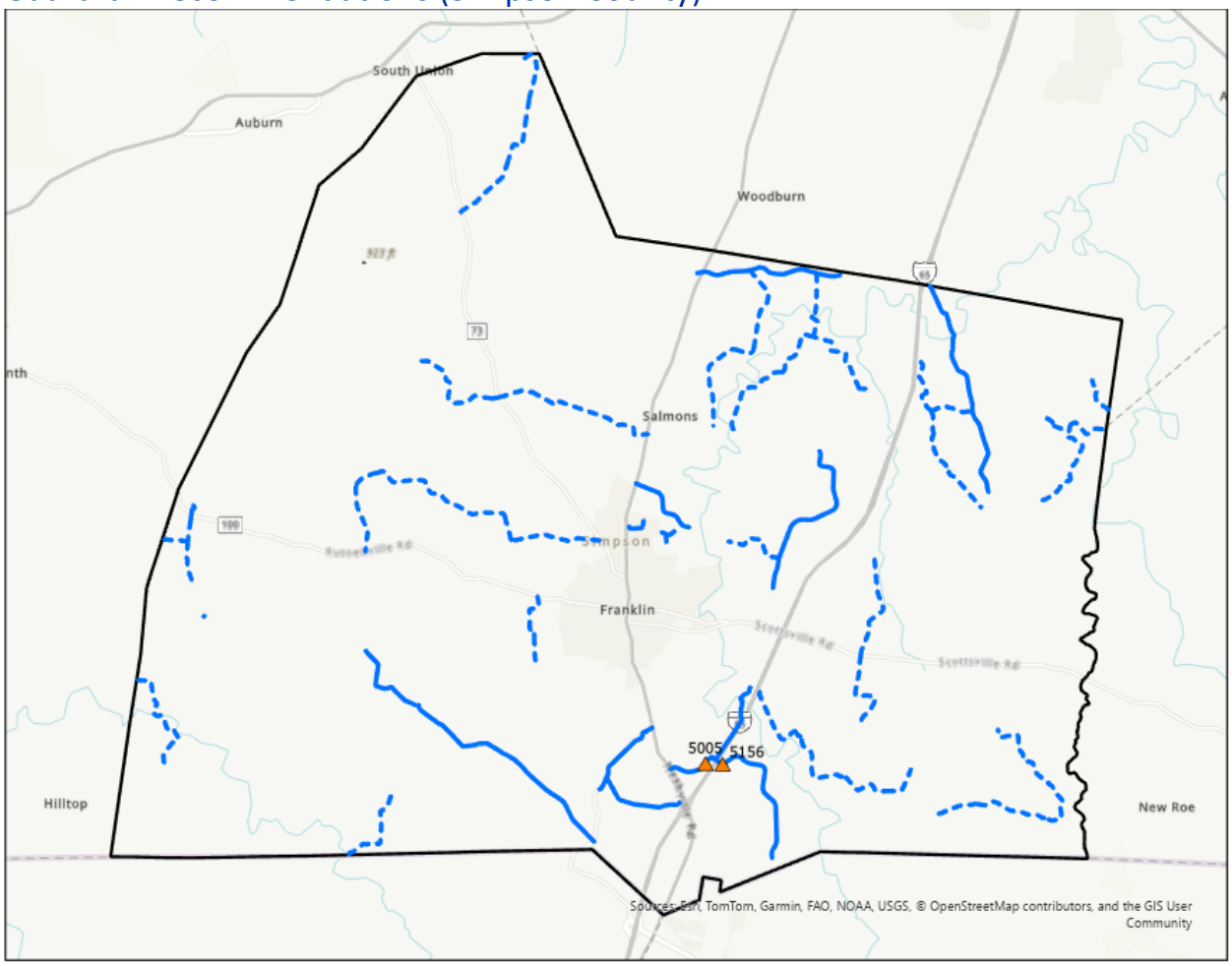


Exhibit Simpson-16: Guardrail Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Condition	Meet Warrant	End Treatmen	Recommendation
5005	107-CR-1137 -000	PEDEN MILL RD	Guardrail	Good	Yes	All_	--
5156	107-CR-1137 -000	PEDEN MILL RD	Guardrail	Good	Yes	All_	--

Exhibit Simpson-17: Guardrail Recommendations

Intersection Recommendations (Simpson County)

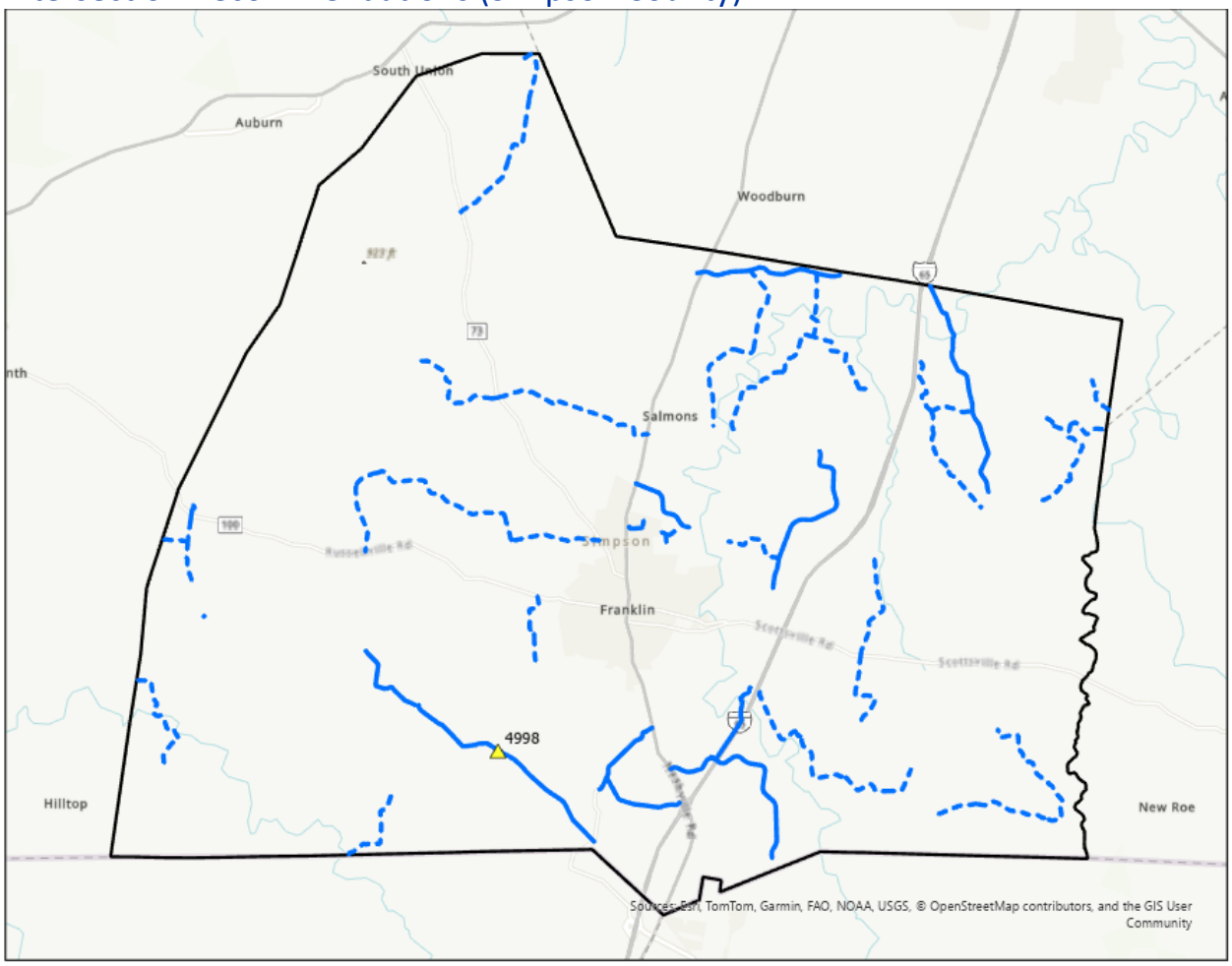


Exhibit Simpson-18: Intersection Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Comments	Recommendations
4998	107-CR-1207 -000	KUMMER RD	Intersection	Yes	Insufficient_Sight_Distance_at_	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs

Exhibit Simpson-19: Intersection Recommendations

Other Recommendations (Simpson County)

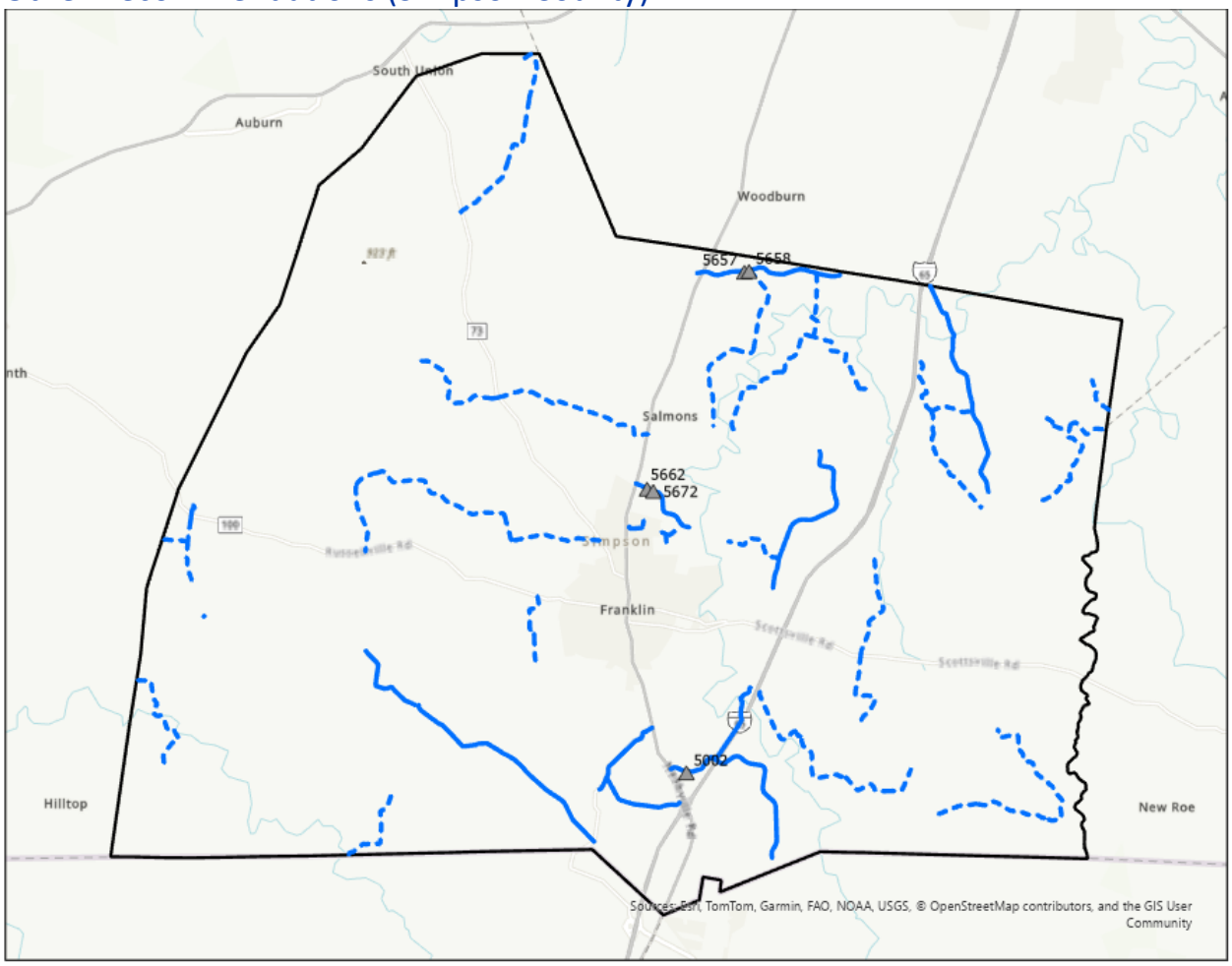


Exhibit Simpson-20: Intersection Locations

Point ID	RT_UNIQUE	RD_NAME	Issue Type	Description	Recommendation
5002	107-CR-1137 -000	PEDEN MILL RD	Other	Railroad Intersection	Install "RR Crossing" Sign
5657	107-CR-1042 -000	CEDAR BLUFF RD	Other	Railroad	Install "RR Crossing" Sign
5658	107-CR-1042 -000	CEDAR BLUFF RD	Other	Railroad	Install "RR Crossing" Sign
5662	107-CR-1054 -000	BROADWAY AVE	Other	Railroad	Install "RR Crossing" Sign
5672	107-CR-1054 -000	BROADWAY AVE	Other	Railroad	Install "RR Crossing" Sign

Exhibit Simpson-21: Intersection Recommendations

Signing Recommendations (Simpson County)

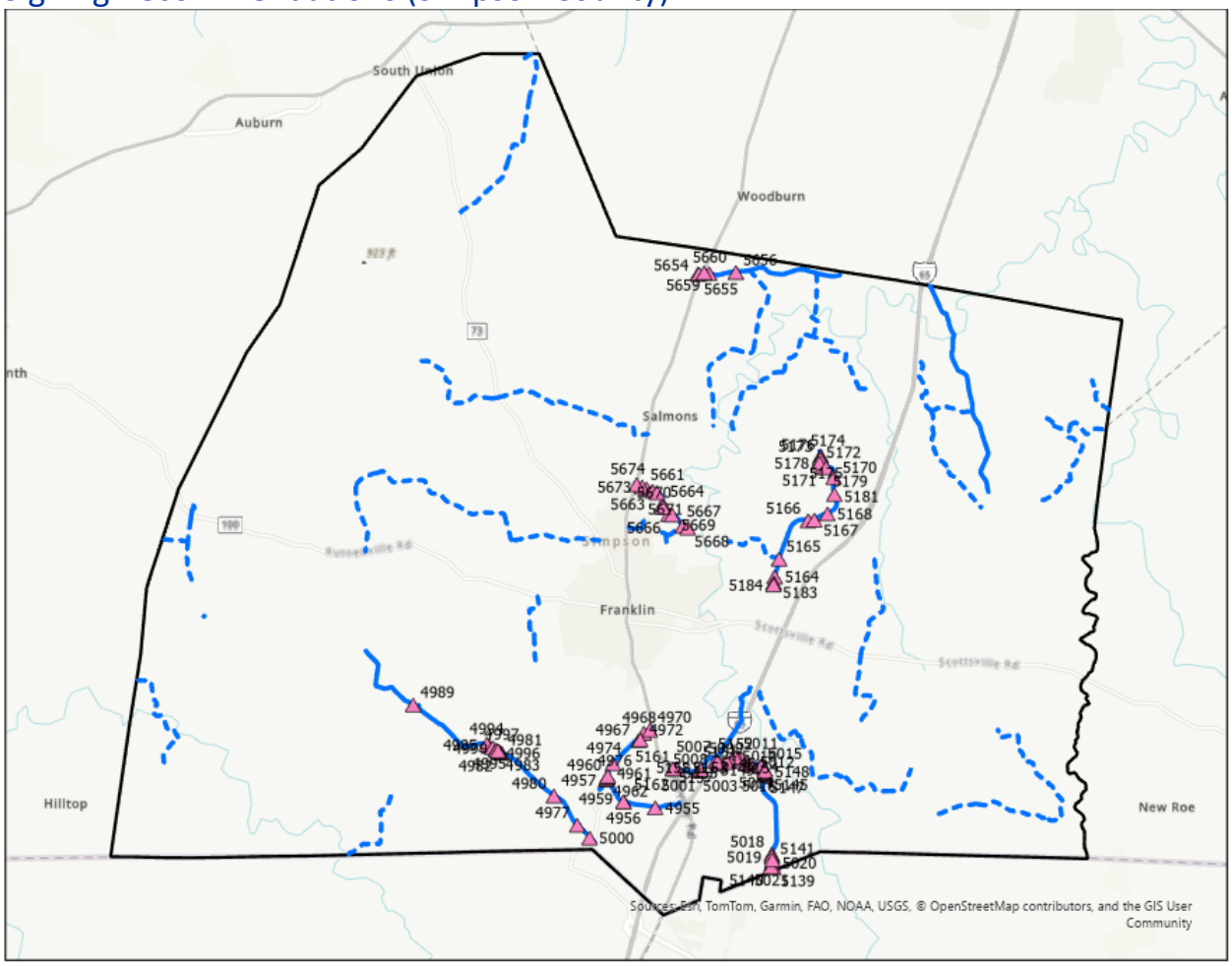


Exhibit Simpson-22: Sign Locations

As part of the RSA data collection effort, existing signs were inventoried along reviewed Focus Roadways, including a condition assessment and a photo of each sign. Additionally, preliminary Advisory Speed recommendations were calculated for each focus roadway to assist in the installation of horizontal alignment (curve) signs. Signing and advisory speed information is provided in digital format at https://kyt2.uky.edu/BRADDSAP.

APPENDIX M: WARREN COUNTY SAFETY ACTION PLAN

Warren County Overview

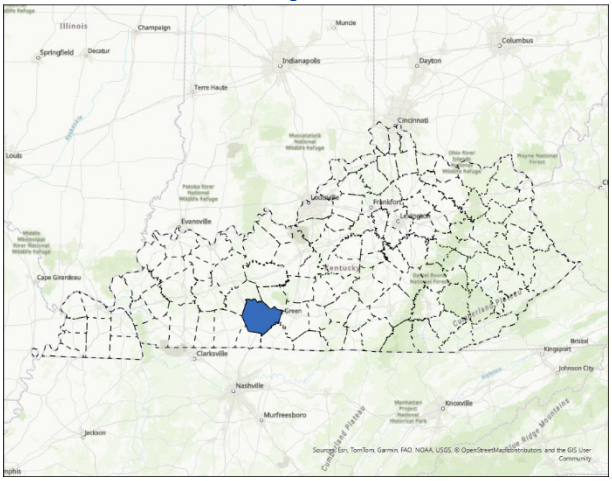


Exhibit Warren-1: Location Map

Key Information Table Warren County	
Population	142,229
Population in Persistent Poverty	17%
Underserved Community	**No**
Fatalities (All Roads)	94
Fatalities (County Roads)	8
Fatality Rate per 100,000 persons	**66.09**
County Road Mileage	701.1
State Road Mileage	378.9
Total Mileage	**1080.0**

Exhibit Warren-2: Key Information

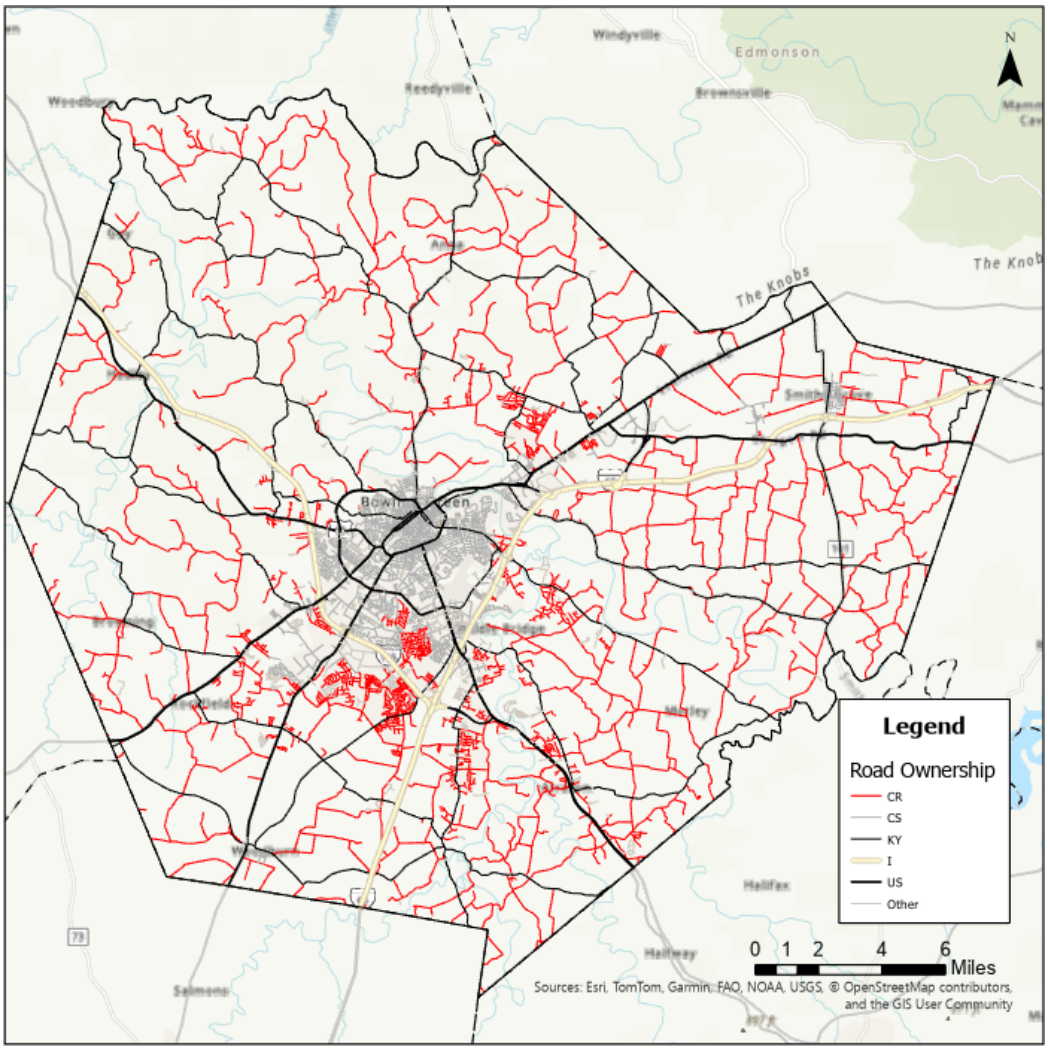


Figure Warren-3: Map of County Roadways

Crash Analysis

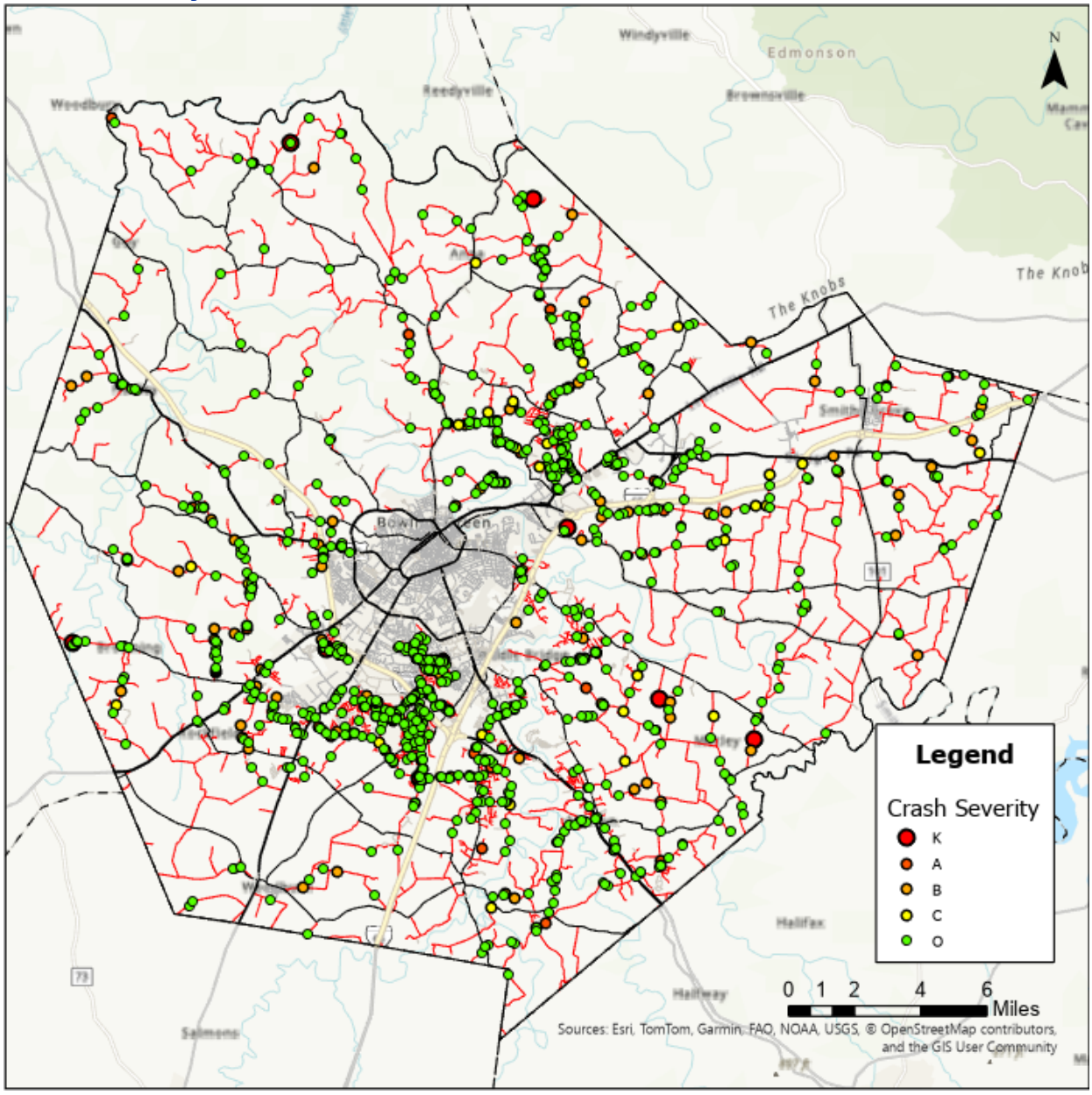
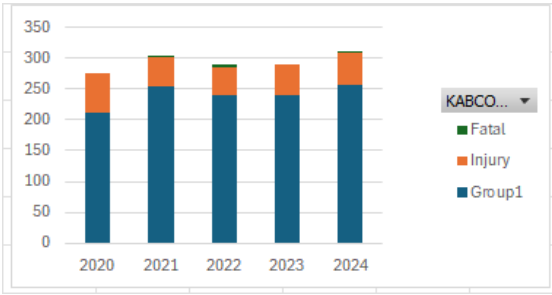


Figure Warren-4: Map of County Road Crashes



Year	Prop. Damage Only	Injury	Fatal	Total
2020	212	64	0	**276**
2021	254	48	2	**304**
2022	241	45	4	**290**
2023	240	49	0	**289**
2024	256	52	2	**310**

Table Warren-5: Crash Distribution by Year

Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	150	38	0	**188**
BACKING	105	3	0	**108**
HEAD ON	43	29	0	**72**
OPPOSING LEFT TURN	13	2	1	**16**
REAR END	178	27	0	**205**
REAR TO REAR	14	0	0	**14**
SIDESWIPE-OPPOSITE	164	19	0	**183**
SIDESWIPE-SAME DIR	44	0	0	**44**
SINGLE VEHICLE	489	140	7	**636**

Exhibit Warren-6: Crash Frequency and Severity by Manner of Collision

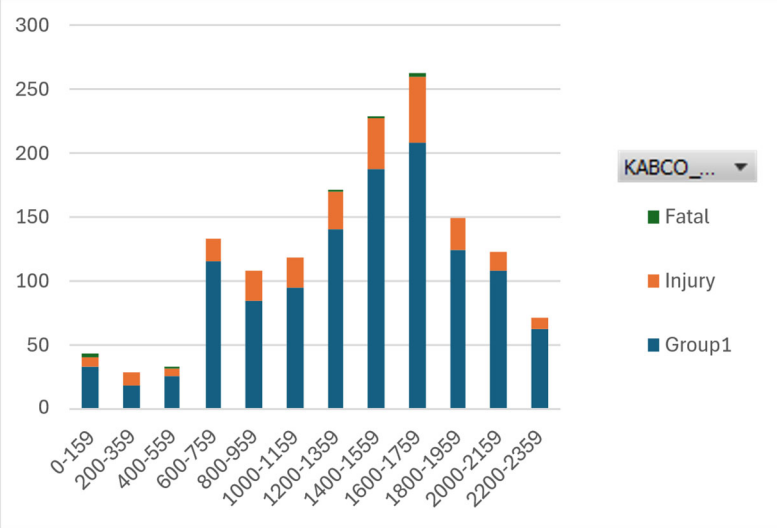


Exhibit Warren-7: Crashes and Severity by Time of Day

Focus Roadways

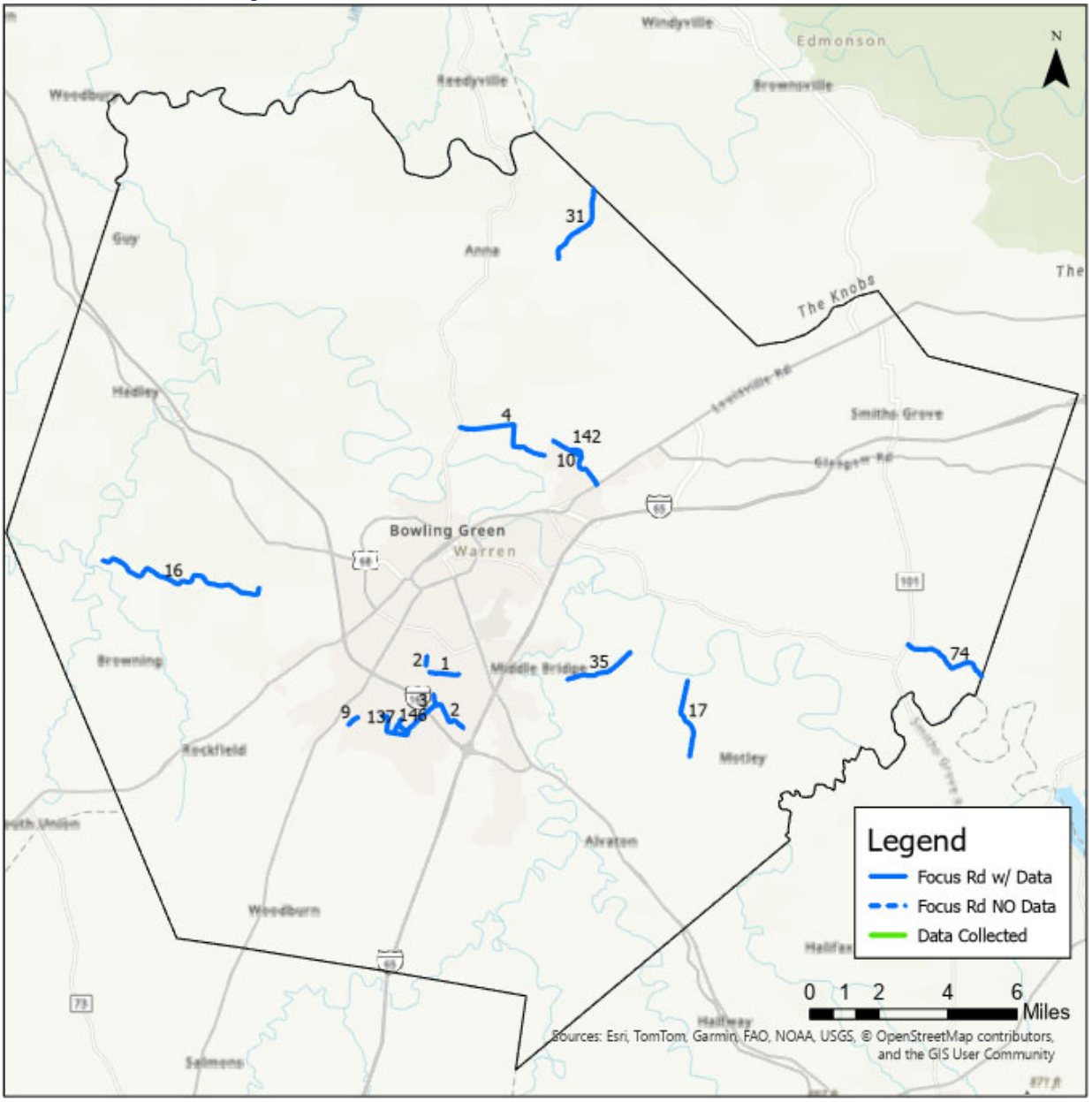


Exhibit Warren-8: Focus Roads with Data

RT_UNIQUE	Length	County	Road Name	Injury Crash	Fatal Crash	PDO	Crash Score	Use Score	Rank	Focus Rd	Data
114-CR-1704X -000	0.88	Warren	CAVE MILL RD	11	16	111	3.33	5.00	1	1	1
114-CR-1235 -000	1.81	Warren	SMALLHOUSE RD	9	11	77	4.22	1.80	2	1	1
114-CR-1240 -000	2.46	Warren	ELROD RD	9	7	57	3.91	1.99	3	1	1
114-CR-1091 -000	3.20	Warren	DETOUR RD	7	5	39	3.36	1.25	4	1	1
114-CR-1748 -000	0.36	Warren	MALLARD ST	1	0	0	1.84	0.21	9	1	1
114-CR-1098 -000	2.04	Warren	MOORMAN LN	4	6	36	1.20	1.19	10	1	1
114-CR-1312 -000	5.48	Warren	BLUE LEVEL RD	3	5	10	0.84	0.15	16	1	1
114-CR-1172 -000	2.38	Warren	GREENHILL RD	4	1	6	0.79	0.16	17	1	1
114-CR-1105 -000	2.53	Warren	WILLIAM SIMMONS RD	2	3	6	0.54	0.18	31	1	1
114-CR-1175 -000	2.09	Warren	HUNTS LN	1	3	13	0.40	0.37	35	1	1
114-CR-1154 -000	2.70	Warren	THREE FORKS RD	1	0	0	0.18	0.27	74	1	1
114-CR-1776 -000	0.46	Warren	IVAN DOWNS BLVD	0	0	0	0.00	0.33	137	1	1
114-CR-1549 -000	0.43	Warren	SALEM CIR	0	0	0	0.00	0.31	142	1	1
114-CR-1470 -000	0.29	Warren	BELLE HAVEN BLVD	0	0	1	0.01	0.29	146	1	1

Exhibit Warren-9: List of Focus Roadways with Collected Data

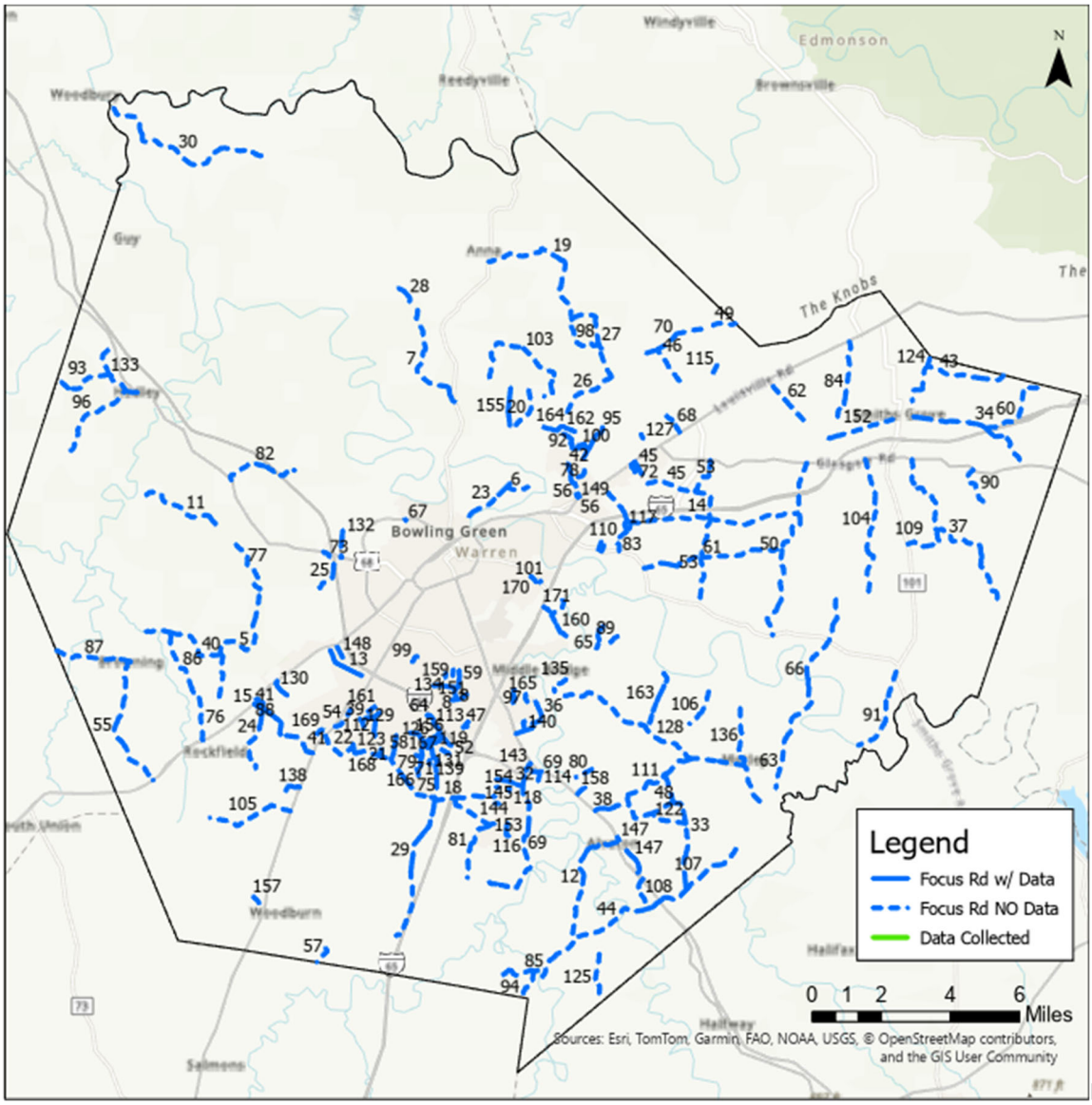


Exhibit Warren-10: Focus Roadways without Data

RT_UNIQUE	Length	County	Road Name	Injury Crash	Fatal Crash	PDO	Crash Score	Use Score	Rank	Focus Rd	Data
114-CR-1317 -000	2.92	Warren	BLUE LEVEL-PROVIDENCE RD	6	2	11	2.89	0.21	5	1	0
114-CR-1103 -000	0.68	Warren	BEECH BEND PARK RD	2	0	1	2.03	0.48	6	1	0
114-CR-1356 -000	3.48	Warren	N CAMPBELL RD	2	0	9	2.07	0.10	7	1	0
114-CR-1737 -000	0.34	Warren	ASHGATE DR	1	0	1	1.85	0.26	8	1	0
114-CR-1411 -000	2.73	Warren	CLARENCE ODELL RD	5	0	6	0.92	1.47	11	1	0
114-CR-1187 -000	3.75	Warren	MT LEBANON RD	4	1	33	0.93	0.36	12	1	0
114-CR-1272 -000	1.25	Warren	MEMPHIS JUNCTION RD	3	1	14	0.65	0.75	13	1	0
114-CR-1015 -000	6.15	Warren	BRISTOW RD	4	2	18	0.90	0.19	14	1	0
114-CR-1277 -030	0.01	Warren	MOREHEAD RD X	0	0	0	0.00	1.91	15	1	0
114-CR-1244 -000	1.77	Warren	CARTER-SIMS RD	1	0	11	0.23	1.27	18	1	0
114-CR-1080 -000	4.35	Warren	ANNA-SANDHILL RD	3	2	12	0.69	0.28	19	1	0
114-CR-1092 -000	1.21	Warren	MASSEY RD	3	1	1	0.59	0.45	20	1	0
114-CR-1241 -000	1.36	Warren	NEAL HOWELL RD	0	0	3	0.02	1.54	21	1	0
114-CR-1266 -000	2.47	Warren	DILLARD RD	1	2	10	0.33	0.89	22	1	0
114-CR-1102 -000	1.54	Warren	BEECH BEND RD	2	0	13	0.42	0.67	23	1	0
114-CR-1280 -000	2.36	Warren	MURPHY RD	3	1	5	0.61	0.28	24	1	0
114-CR-1325 -000	1.44	Warren	BROOKWOOD DR	3	2	3	0.65	0.16	25	1	0
114-CR-1095 -000	1.83	Warren	MT OLIVET GIRKIN RD	3	0	5	0.56	0.29	26	1	0
114-CR-1082 -000	2.62	Warren	GIRKIN RD	2	2	10	0.51	0.38	27	1	0
114-CR-1424A -000	0.65	Warren	RICHARDSVILLE BYP	0	0	0	0.00	1.38	28	1	0
114-CR-1243 -000	5.35	Warren	MATLOCK RD	1	2	16	0.36	0.62	29	1	0
114-CR-1373 -000	5.64	Warren	RICHARDSVILLE RD	3	0	4	0.55	0.19	30	1	0
114-CR-1207 -000	0.80	Warren	COLLETT RD	0	0	6	0.03	1.15	32	1	0
114-CR-1184 -000	3.73	Warren	H E JOHNSON RD	3	0	2	0.54	0.08	33	1	0
114-CR-1038 -000	3.86	Warren	HAYS-SMITHS GROVE RD	2	1	3	0.42	0.32	34	1	0
114-CR-1210 -000	1.67	Warren	PEACHTREE LN	1	2	9	0.33	0.51	36	1	0
114-CR-1028 -000	5.81	Warren	HYDRO-PONDSVILLE RD	2	1	4	0.43	0.27	37	1	0
114-CR-1631A -000	0.50	Warren	WILSON RD	0	0	3	0.02	1.10	38	1	0
114-CR-1709C -000	0.60	Warren	EARLSTON ST	0	0	3	0.02	1.10	39	1	0
114-CR-1315 -000	4.02	Warren	FUQUA RD	2	2	5	0.48	0.13	40	1	0
114-CR-1277 -000	2.52	Warren	MOREHEAD RD	1	2	17	0.37	0.37	41	1	0
114-CR-1118B -000	0.66	Warren	UPPER STONE AVE	2	0	13	0.42	0.20	42	1	0
114-CR-1049 -000	3.63	Warren	ROCKY HILL RD	2	0	6	0.38	0.27	43	1	0
114-CR-1188 -000	3.17	Warren	BOYCE-FAIRVIEW RD	2	0	4	0.37	0.28	44	1	0
114-CR-1019 -000	1.92	Warren	KELLY RD	2	0	8	0.40	0.23	45	1	0
114-CR-1069 -000	1.12	Warren	NORRIS RD	1	1	6	0.26	0.46	46	1	0
114-CR-1706F -000	0.08	Warren	LAKE AYRE WAY	0	0	0	0.00	0.95	47	1	0
114-CR-1183 -000	1.65	Warren	BAYS-FORK RD	2	0	0	0.35	0.22	48	1	0
114-CR-1550 -000	0.68	Warren	SHADY LAND CHURCH RD	2	0	3	0.37	0.17	49	1	0
114-CR-1012 -000	5.83	Warren	CARL JORDAN RD	2	0	3	0.37	0.15	50	1	0
114-CR-1253 -000	1.24	Warren	WOODY ATKINSON RD	1	0	1	0.18	0.53	51	1	0
114-CR-1757 -000	0.90	Warren	SPRINGFIELD BLVD	0	1	1	0.06	0.78	52	1	0
114-CR-1009 -000	4.94	Warren	SUNNYSIDE-GOTTS RD	1	2	13	0.35	0.18	53	1	0
114-CR-1270 -000	0.71	Warren	OLD NASHVILLE RD LOOP 2	2	0	4	0.37	0.09	54	1	0
114-CR-1300 -000	4.03	Warren	PETROS BROWNING RD	1	1	8	0.27	0.29	55	1	0
114-CR-1118A -000	0.23	Warren	STONE LN	0	0	3	0.02	0.80	56	1	0
114-CR-1256 -000	0.54	Warren	CLAY STARKS RD	0	0	1	0.01	0.79	57	1	0
114-CR-1710B -000	0.74	Warren	HERMAN AVE	0	0	7	0.04	0.72	58	1	0
114-CR-1704KK-000	1.25	Warren	GRIDER POND RD	0	1	6	0.08	0.62	59	1	0
114-CR-1046 -000	2.31	Warren	ROCKY HILL-HAYS RD	1	1	6	0.26	0.25	60	1	0
114-CR-1010 -000	4.24	Warren	BETHEL LN	1	2	8	0.32	0.13	61	1	0
114-CR-1055 -000	1.54	Warren	OAKLAND RD	0	0	0	0.00	0.76	62	1	0
114-CR-1163 -000	1.59	Warren	HAYES RD	1	0	2	0.19	0.38	63	1	0
114-CR-1732 -000	0.33	Warren	EMBERTON RD	0	1	5	0.08	0.59	64	1	0
114-CR-1618A -000	0.75	Warren	DRAKESBOROUGH DR	0	0	2	0.01	0.71	65	1	0
114-CR-1140 -000	4.64	Warren	IRON BRIDGE RD	1	0	0	0.18	0.33	66	1	0
114-CR-1468 -000	0.06	Warren	OLD BARREN RIVER RD	0	0	1	0.01	0.66	67	1	0
114-CR-1067 -000	0.63	Warren	MCGINNIS QUARRY RD	0	0	3	0.02	0.64	68	1	0
114-CR-1205 -000	4.99	Warren	DYE FORD RD	0	2	11	0.16	0.33	69	1	0
114-CR-1066 -000	1.95	Warren	GIRKIN BOILING SPRINGS RD	1	0	9	0.22	0.19	70	1	0
114-CR-1299 -000	0.12	Warren	BAILEYS FARM DR	0	0	1	0.01	0.64	71	1	0
114-CR-1531A -000	0.33	Warren	EAST HEIGHTS AVE	1	1	7	0.26	0.11	72	1	0
114-CR-1311 -000	0.06	Warren	REFLECTION LN	0	0	1	0.01	0.62	73	1	0
114-CR-1265 -000	1.18	Warren	LONG RD	0	0	2	0.01	0.59	75	1	0

Exhibit Warren-11: List of Focus Roadways WITHOUT Collected Data (1 of 3)

RT_UNIQUE	Length	County	Road Name	Injury Crash	Fatal Crash	PDO	Crash Score	Use Score	Rank	Focus Rd	Data
114-CR-1306 -000	1.38	Warren	ROCKFIELD BROWNING RD	1	0	2	0.19	0.22	76	1	0
114-CR-1319 -000	1.75	Warren	WHITE STONE QUARRY RD	1	0	2	0.19	0.22	77	1	0
114-CR-1118P -000	0.32	Warren	WOODSTONE DR	1	0	5	0.20	0.19	78	1	0
114-CR-1710A -000	0.70	Warren	CHAMPIONS BLVD	0	0	1	0.01	0.59	79	1	0
114-CR-1612 -000	0.53	Warren	SHADY LN	0	0	0	0.00	0.60	80	1	0
114-CR-1246 -000	2.02	Warren	PLANO-RICHPOND RD	1	0	6	0.21	0.16	81	1	0
114-CR-1416 -000	2.34	Warren	PRICES CHAPEL RD	1	1	6	0.26	0.05	82	1	0
114-CR-1007 -000	1.13	Warren	MCGINNIS RD	1	0	5	0.20	0.16	83	1	0
114-CR-1056 -000	2.62	Warren	UPPER DIXIE HWY	1	0	1	0.18	0.20	84	1	0
114-CR-1194 -000	2.87	Warren	GOODRUM RD	1	0	4	0.20	0.16	85	1	0
114-CR-1316 -000	1.98	Warren	VANMETER RD	1	1	2	0.24	0.06	86	1	0
114-CR-1307 -000	2.28	Warren	BROWNING RD	0	2	8	0.14	0.24	87	1	0
114-CR-1273B -000	0.10	Warren	OLD BROWNING RD	0	0	0	0.00	0.53	88	1	0
114-CR-1618BB-000	0.31	Warren	FOUNTAIN TRACE DR	0	0	1	0.01	0.52	89	1	0
114-CR-1036 -000	1.41	Warren	C W MOORE RD	1	0	2	0.19	0.14	90	1	0
114-CR-1161 -000	2.59	Warren	MARTINSVILLE RD	1	0	1	0.18	0.14	91	1	0
114-CR-1483 -000	0.90	Warren	CALGARY WAY	1	0	4	0.20	0.10	92	1	0
114-CR-1405 -000	1.91	Warren	HADLEY-SHARER RD	1	0	0	0.18	0.14	93	1	0
114-CR-1195 -000	0.90	Warren	N HARRIS RD	1	0	1	0.18	0.13	94	1	0
114-CR-1548 -000	1.09	Warren	NORTHRIDGE DR	0	0	3	0.02	0.47	95	1	0
114-CR-1406 -000	2.62	Warren	HADLEY-COHRON RD	1	0	3	0.19	0.11	96	1	0
114-CR-1630M -000	0.25	Warren	DEER VALLEY AVE	1	0	0	0.18	0.14	97	1	0
114-CR-1084 -000	1.48	Warren	HERCHEL LUCAS RD	1	0	4	0.20	0.09	98	1	0
114-CR-1703T -000	0.27	Warren	MEADOWWOOD LN	0	0	1	0.01	0.46	99	1	0
114-CR-1556 -000	0.50	Warren	HURON WAY	1	0	3	0.19	0.08	100	1	0
114-CR-1619M -000	0.06	Warren	LOVERS LN	0	0	8	0.04	0.39	101	1	0
114-CR-1164 -000	1.36	Warren	OLD GREENHILL RD	0	0	1	0.01	0.46	102	1	0
114-CR-1088 -000	3.93	Warren	GARRETT HOLLOW RD	1	0	2	0.19	0.08	103	1	0
114-CR-1022 -000	4.20	Warren	WILL BOHANNON RD	1	0	0	0.18	0.09	104	1	0
114-CR-1287 -000	2.59	Warren	S MCELWAIN RD	1	0	0	0.18	0.09	105	1	0
114-CR-1225 -000	1.14	Warren	S HEWITT RD	1	0	0	0.18	0.09	106	1	0
114-CR-1166 -000	2.69	Warren	CLAYPOOL-BOYCE RD	0	0	5	0.03	0.39	107	1	0
114-CR-1189 -000	1.00	Warren	LEAYOU RD	1	0	0	0.18	0.08	108	1	0
114-CR-1029 -000	1.41	Warren	LUTHER LAWRENCE RD	1	0	2	0.19	0.05	109	1	0
114-CR-1005 -000	0.72	Warren	CLARK CIR	1	0	1	0.18	0.05	110	1	0
114-CR-1181 -000	3.18	Warren	ALVATON-GREENHILL RD	0	0	7	0.04	0.34	111	1	0
114-CR-1709B -000	0.57	Warren	SHETLAND DR	0	0	0	0.00	0.41	112	1	0
114-CR-1706B -000	0.24	Warren	LAKELAND DR	0	0	1	0.01	0.40	113	1	0
114-CR-1209 -000	0.38	Warren	UPTON RD	1	0	1	0.18	0.04	114	1	0
114-CR-1530B -000	0.38	Warren	MAPLELEAF DR	1	0	0	0.18	0.04	115	1	0
114-CR-1634A -000	0.38	Warren	SUGAR MILL DR	0	0	0	0.00	0.40	116	1	0
114-CR-1006 -000	0.32	Warren	D F PETTY RD	1	0	0	0.18	0.04	117	1	0
114-CR-1626L -000	0.10	Warren	KEVIN DR	1	0	0	0.18	0.04	118	1	0
114-CR-1800 -000	0.26	Warren	MCCOY PLACE DR	0	0	0	0.00	0.40	119	1	0
114-CR-1298 -000	0.33	Warren	EDGAR WHITE RD	0	0	0	0.00	0.39	120	1	0
114-CR-1065 -000	0.92	Warren	AUBREY MILLS RD	1	0	0	0.18	0.03	121	1	0
114-CR-1229 -000	1.10	Warren	COSBY RD	1	0	1	0.18	0.01	122	1	0
114-CR-1570 -000	0.09	Warren	SUMMIT BLVD	0	0	0	0.00	0.38	123	1	0
114-CR-1050 -000	0.29	Warren	UPPER SMITHS GROVE RD	0	0	1	0.01	0.37	124	1	0
114-CR-1191 -000	1.50	Warren	GREENBRIAR RD	0	0	2	0.01	0.36	125	1	0
114-CR-1710N -000	0.08	Warren	SPRINGCREST ST	0	0	0	0.00	0.37	126	1	0
114-CR-1532F -000	0.15	Warren	BOB O LINK RD	1	0	0	0.18	0.01	127	1	0
114-CR-1171 -000	7.38	Warren	OLD GREENHILL RD	0	1	10	0.10	0.15	128	1	0
114-CR-1709Z -000	0.27	Warren	HUNTERS RUN AVE	0	0	1	0.01	0.34	129	1	0
114-CR-1724A -000	0.59	Warren	STONE CREST AVE	0	0	0	0.00	0.35	130	1	0
114-CR-1745 -000	0.15	Warren	BUNKER DR	0	0	1	0.01	0.34	131	1	0
114-CR-1422 -000	0.82	Warren	WILLOUGHBY LN	0	0	2	0.01	0.32	132	1	0
114-CR-1402 -000	2.14	Warren	HADLEY LOOP RD	0	1	4	0.07	0.19	133	1	0
114-CR-1704F -000	0.14	Warren	CURTIS WAY	0	0	0	0.00	0.34	134	1	0
114-CR-1177 -000	0.61	Warren	ROY THOMAS RD	0	0	1	0.01	0.33	135	1	0
114-CR-1170 -000	1.84	Warren	MOTLEY LN	0	1	0	0.05	0.23	136	1	0
114-CR-1577 -000	0.51	Warren	SOUTH GLEN GABLES BLVD	0	0	1	0.01	0.32	138	1	0
114-CR-1279 -000	0.79	Warren	ARISTIDES DR	0	1	2	0.06	0.20	139	1	0
114-CR-1630A -000	0.31	Warren	PEACH BLOSSOM LN	0	0	1	0.01	0.32	140	1	0

Exhibit Warren-11: List of Focus Roadways WITHOUT Collected Data (2 of 3)

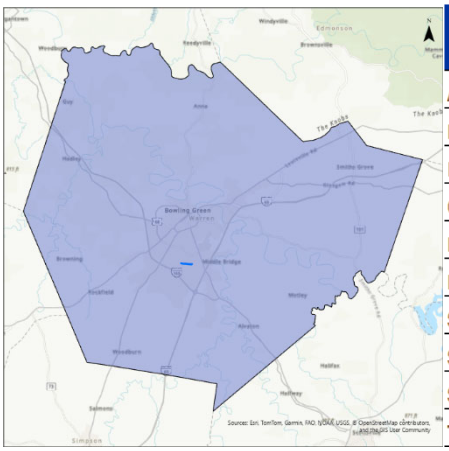
RT_UNIQUE	Length	County	Road Name	Injury Crash	Fatal Crash	PDO	Crash Score	Use Score	Rank	Focus Rd	Data
114-CR-1292 -000	0.60	Warren	PERRY MARTIN RD	0	0	1	0.01	0.31	141	1	0
114-CR-1690 -000	0.28	Warren	MAGNUM RD	0	0	0	0.00	0.31	143	1	0
114-CR-1245 -000	1.36	Warren	BALDOCK RD	0	1	0	0.05	0.20	144	1	0
114-CR-1626U -000	0.12	Warren	PLAINFIELD WAY	0	0	0	0.00	0.30	145	1	0
114-CR-1659 -000	1.07	Warren	ALVATON RD	0	2	2	0.11	0.07	147	1	0
114-CR-1705A -000	0.36	Warren	HILLTOPPER DR	0	0	2	0.01	0.28	148	1	0
114-CR-1118L -000	0.12	Warren	PROCTOR TRL	0	0	1	0.01	0.29	149	1	0
114-CR-1293 -000	2.38	Warren	OLD ZION CHURCH RD	0	1	2	0.06	0.18	150	1	0
114-CR-1704HH-000	0.50	Warren	KENILWOOD WAY	0	0	0	0.00	0.30	151	1	0
114-CR-1054 -000	1.95	Warren	SMITHS GROVE-OAKLAND RD	0	0	1	0.01	0.29	152	1	0
114-CR-1634L -000	0.08	Warren	SUGAR MILL WAY	0	0	0	0.00	0.30	153	1	0
114-CR-1626F -000	0.09	Warren	MICHAEL WAY	0	0	0	0.00	0.29	154	1	0
114-CR-1097 -000	1.10	Warren	WITT RD	0	0	2	0.01	0.27	155	1	0
114-CR-1791 -000	0.45	Warren	TRILLIUM LN	0	0	4	0.02	0.25	156	1	0
114-CR-1290 -000	0.34	Warren	WOODBURN CHURCH RD	0	0	0	0.00	0.29	157	1	0
114-CR-1564 -000	0.33	Warren	SEPTEMBER LAKES WAY	0	0	1	0.01	0.28	158	1	0
114-CR-1704E -000	0.20	Warren	HARVEST LN	0	0	2	0.01	0.26	159	1	0
114-CR-1131 -000	1.43	Warren	SHAKER MILL RD	0	0	2	0.01	0.26	160	1	0
114-CR-1709A -000	0.27	Warren	MORAGE ST	0	0	0	0.00	0.28	161	1	0
114-CR-1110 -000	0.30	Warren	OLIVE SPRINGS RD	0	0	1	0.01	0.27	162	1	0
114-CR-1173 -000	1.77	Warren	PLEASANT HILL RD	0	0	4	0.02	0.23	163	1	0
114-CR-1558 -000	0.71	Warren	GUNSMOKE TRAIL WAY	0	0	6	0.03	0.21	164	1	0
114-CR-1630S -000	0.46	Warren	DEER MEADOW AVE	0	0	1	0.01	0.26	165	1	0
114-CR-1723M -000	0.22	Warren	MORNING DOVE DR	0	0	1	0.01	0.26	166	1	0
114-CR-1710D -000	0.19	Warren	PLAYERS CROSSING WAY	0	0	0	0.00	0.27	167	1	0
114-CR-1709Y -000	0.23	Warren	SPINDLETOP DR	0	0	1	0.01	0.26	168	1	0
114-CR-1779 -000	0.23	Warren	MCGLOCKLIN WAY	0	0	0	0.00	0.27	169	1	0
114-CR-1503 -000	0.25	Warren	MOUNT VICTOR LN	0	0	11	0.06	0.15	170	1	0
114-CR-1619A -000	0.20	Warren	WESTWOOD AVE	0	1	0	0.05	0.15	171	1	0

Exhibit Warren-11: List of Focus Roadways WITHOUT Collected Data (3 of 3)

Recommended Improvements (Top 5 Roads)

CAVE MILL RD(114-CR-1704X -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	23	6	0	**29**
BACKING	1	0	0	**1**
HEAD ON	3	0	0	**3**
OPPOSING LEFT TURN	3	0	0	**3**
REAR END	69	15	0	**84**
REAR TO REAR	1	0	0	**1**
SIDESWIPE-OPPOSITE	2	1	0	**3**
SIDESWIPE-SAME DIR	6	0	0	**6**
SINGLE VEHICLE	6	3	0	**9**
Total	**114**	**25**	**0**	**139**

General Roadway Conditions

RT_UNIQUE	Road Name	Pvmt Width (I	Pavement Conditi	Roadside Hazard Rating	Shoulder Improve
114-CR-1704X -000	CAVE MILL RD	20	4	1	0-20
114-CR-1704X -000	CAVE MILL RD	24+	4	1	0-20

Roadway Typical Section





Crashes by Severity



Crashes by Manner of Collision



Crashes by Road Condition



Road Safety Assessment



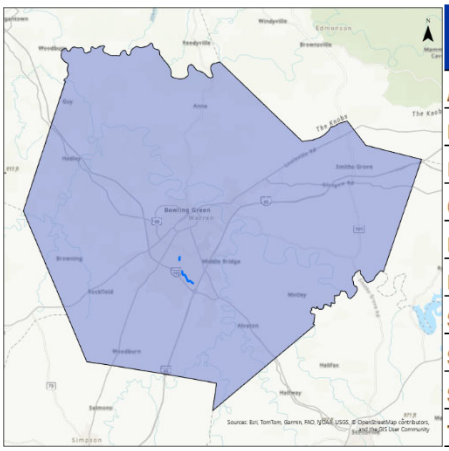
General Recommendations

Point ID	RT_UNIQUE	Road Name	Pvmt Width (f	Pavement Conditi	Roadside Hazard Rating	Shoulder Improve	Additional Comments	Improve Should	Edgeline[1]	Curve Signin	Other Recommendations
6027	114-CR-1704X -000	CAVE MILL RD	20	4	1	0-20	Very busy roadway			✓	Consider Edgeline and Centerline
6030	114-CR-1704X -000	CAVE MILL RD	24+	4	1	0-20	Road widens to 3 lanes			✓	

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Recommendation	Comments
6022	114-CR-1704X -000	CAVE MILL RD	Intersection	No	other; Very busy intersection, has stoplight	Evaluate need for advance intersection/signal ahead signs
6033	114-CR-1704X -000	CAVE MILL RD	Intersection	No	other; Busy roadway	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs

SMALLHOUSE RD(114-CR-1235 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	10	2	0	**12**
BACKING	1	0	0	**1**
HEAD ON	3	3	0	**6**
OPPOSING LEFT TURN	2	0	0	**2**
REAR END	15	2	0	**17**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	7	0	0	**7**
SIDESWIPE-SAME DIR	1	0	0	**1**
SINGLE VEHICLE	16	3	0	**19**
Total	**55**	**10**	**0**	**65**

General Roadway Conditions

RT_UNIQUE	Road Name	Pvmt Width (f	Pavement Conditi	Roadside Hazard Rating	Shoulder Improve
114-CR-1235 -000	SMALLHOUSE RD	20	4	1	0-20
114-CR-1235 -000	SMALLHOUSE RD	20	4	1	0-20

Roadway Typical Section



Crashes by Severity



Crashes by Manner of Collision



Crashes by Road Condition



Road Safety Assessment



General Recommendations

Point ID	RT_UNIQUE	Road Name	Pvmt Width (f	Pavement Conditi	Roadside Hazard Rating	Shoulder Improve	Additional Comments	Improve Should	Edgeline[1]	Curve Signin	Other Recommendations
6034	114-CR-1235 -000	SMALLHOUSE RD	20	4	1	0-20	Good condition, busy roadway			✓	Consider Edgeline and Centerline
6042	114-CR-1235 -000	SMALLHOUSE RD	20	4	1	0-20	Busy roadway			✓	Consider Edgeline and Centerline

Point ID	RT_UNIQUE	Road Name	Issue Type	Condition	End Treatments	Recommendation
6046	114-CR-1235 -000	SMALLHOUSE RD	Guardrail	Good	All_	--
6055	114-CR-1235 -000	SMALLHOUSE RD	Guardrail	Fair	All_	--

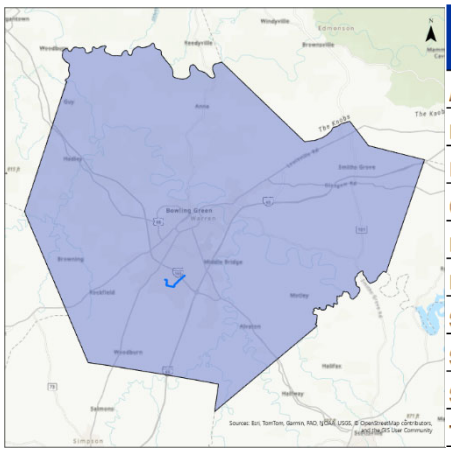
Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Recommendation	Comments
6050	114-CR-1235 -000	SMALLHOUSE RD	Intersection	No	other; Busy	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Comments	Recommendation
6058	114-CR-1235 -000	SMALLHOUSE RD	Curve Hazard	No	Curve_Obscured	Install advance curve signing and chevrons

Point ID	RT_UNIQUE	RD_NAME	Issue Type	--	Description	Recommendation
6039	114-CR-1235 -000	SMALLHOUSE RD	Other	0	0	0
6060	114-CR-1235 -000	SMALLHOUSE RD	Other	0	0	0

ELROD RD(114-CR-1240 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	12	4	0	**16**
BACKING	5	1	0	**6**
HEAD ON	8	2	0	**10**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	13	4	0	**17**
REAR TO REAR	1	0	0	**1**
SIDESWIPE-OPPOSITE	0	1	0	**1**
SIDESWIPE-SAME DIR	3	0	0	**3**
SINGLE VEHICLE	25	7	0	**32**
Total	**67**	**19**	**0**	**86**

General Roadway Conditions

RT_UNIQUE	Road Name	Pvmt Width (f	Pavement Conditi	Roadside Hazard Rating	Shoulder Improve
114-CR-1240 -000	ELROD RD	20	4	1	0-20

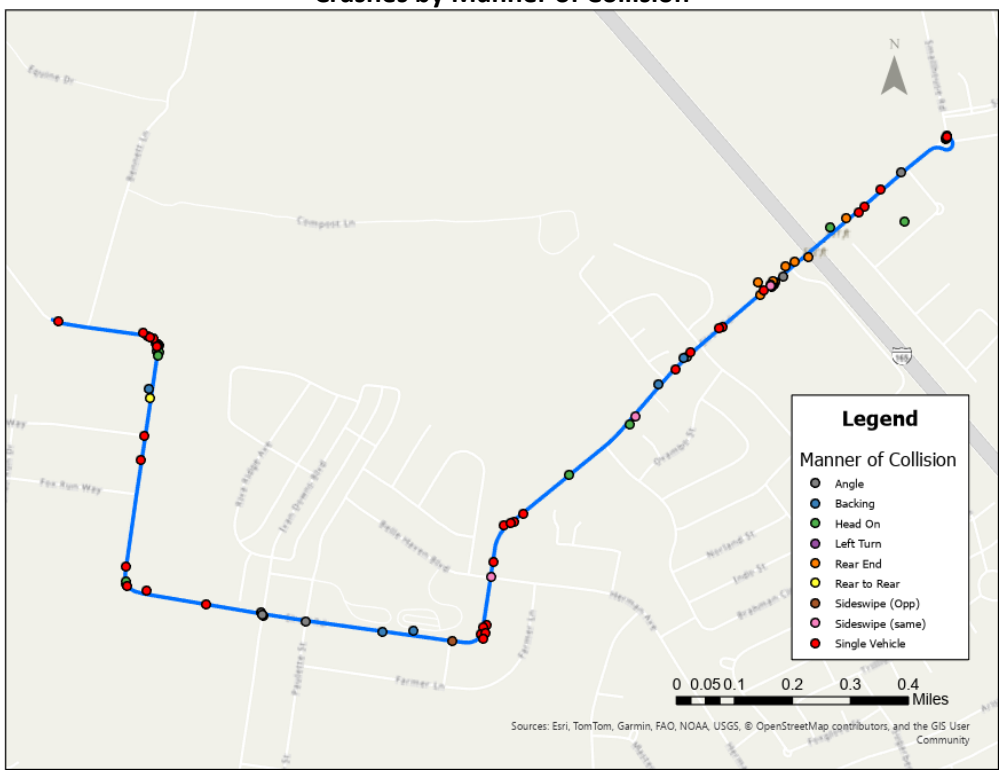
Roadway Typical Section



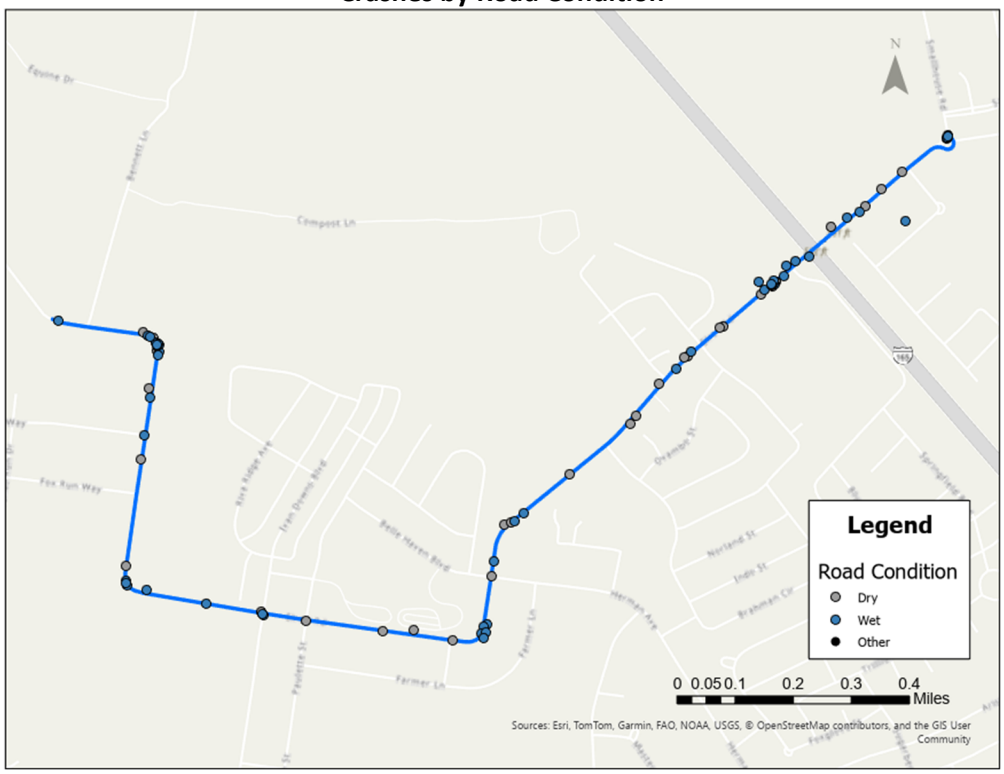
Crashes by Severity



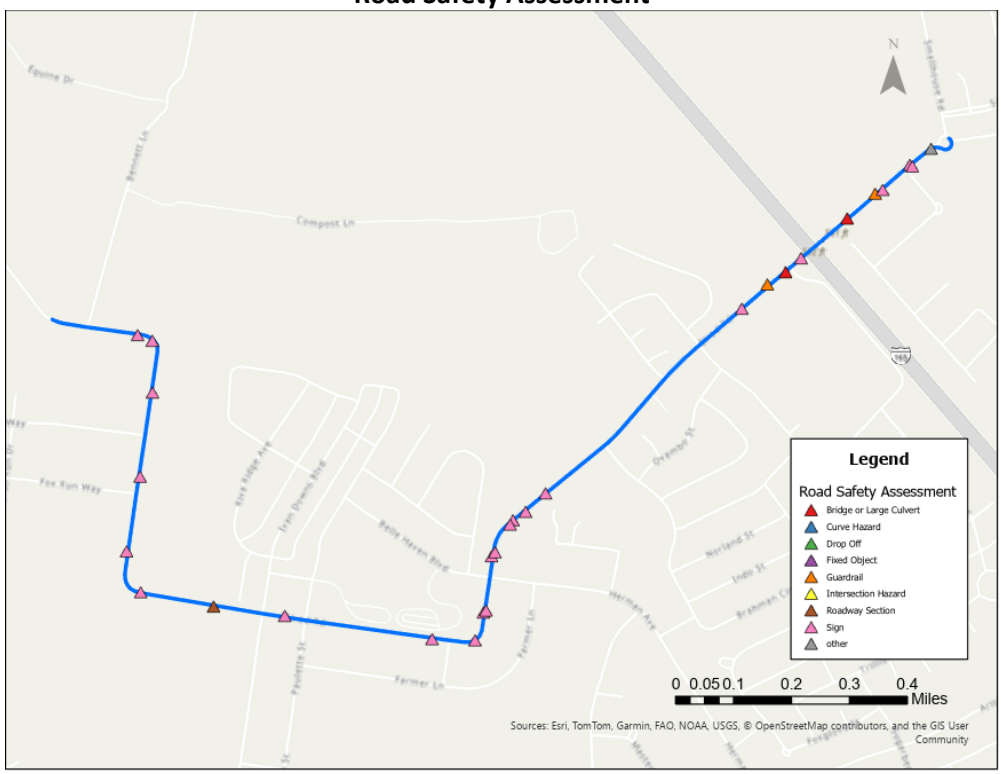
Crashes by Manner of Collision



Crashes by Road Condition



Road Safety Assessment



General Recommendations

Point ID	RT_UNIQUE	Road Name	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve	Additional Comments	Improve Shoulder	Edgeline[1]	Curve Signing
6083	114-CR-1240 -000	ELROD RD	20	4	1	0-20	Busy roadway, has marked lanes			✓

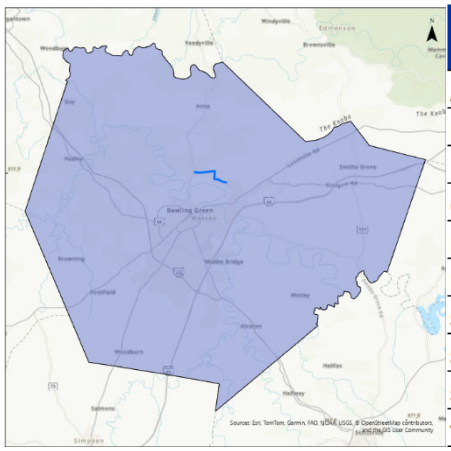
Point ID	RT_UNIQUE	Road Name	Issue Type	Condition	End Treatments	Recommendation
6063	114-CR-1240 -000	ELROD RD	Guardrail	Good	All_	--
6090	114-CR-1240 -000	ELROD RD	Guardrail	Good	All_	--

Point ID	RT_UNIQUE	Road Name	Issue Type	Bridge Width	OM Present	Recommendation
6064	114-CR-1240 -000	ELROD RD	Bridge or Large Culvert	20	0	Install Type 3 Object Markers where missing.
6091	114-CR-1240 -000	ELROD RD	Bridge or Large Culvert	20	0	Install Type 3 Object Markers where missing.

Point ID	RT_UNIQUE	RD_NAME	Issue Type	--	Description	Recommendation
6094	114-CR-1240 -000	ELROD RD	Other	0	0	0

DETOUR RD(114-CR-1091 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	4	2	0	**6**
BACKING	0	0	0	**0**
HEAD ON	0	0	0	**0**
OPPOSING LEFT TURN	0	0	0	**0**
REAR END	3	1	0	**4**
REAR TO REAR	0	0	0	**0**
SIDESWIPE-OPPOSITE	2	0	0	**2**
SIDESWIPE-SAME DIR	1	0	0	**1**
SINGLE VEHICLE	15	7	0	**22**
Total	**25**	**10**	**0**	**35**

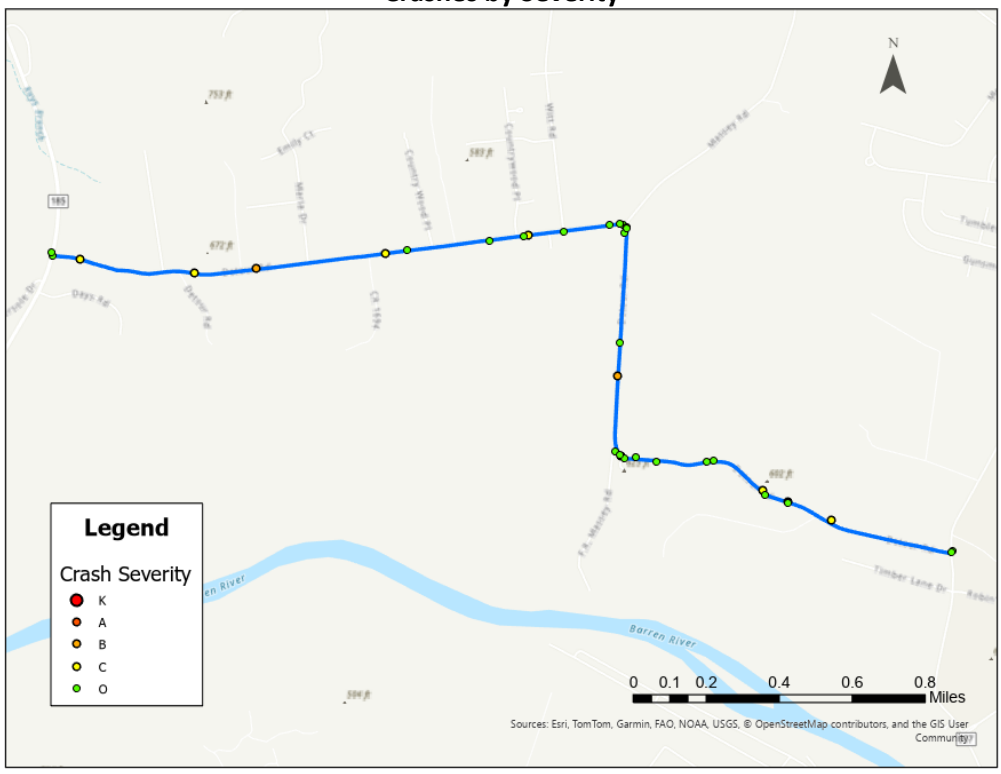
General Roadway Conditions

Roadway Section Data Not Collected

Roadway Typical Section



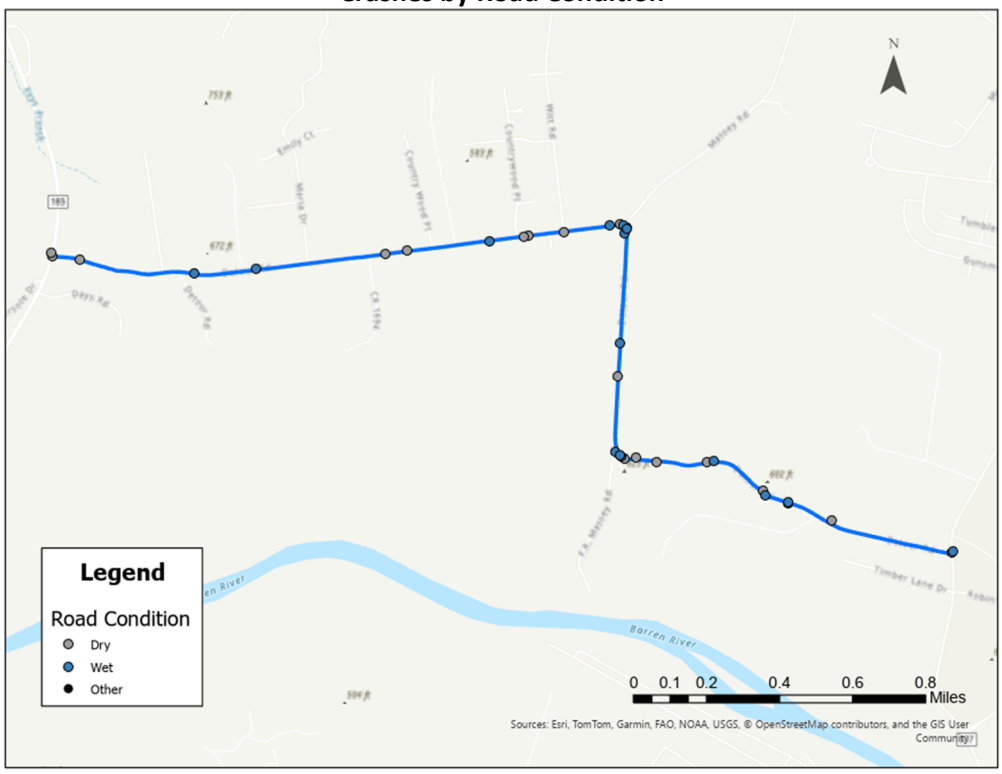
Crashes by Severity



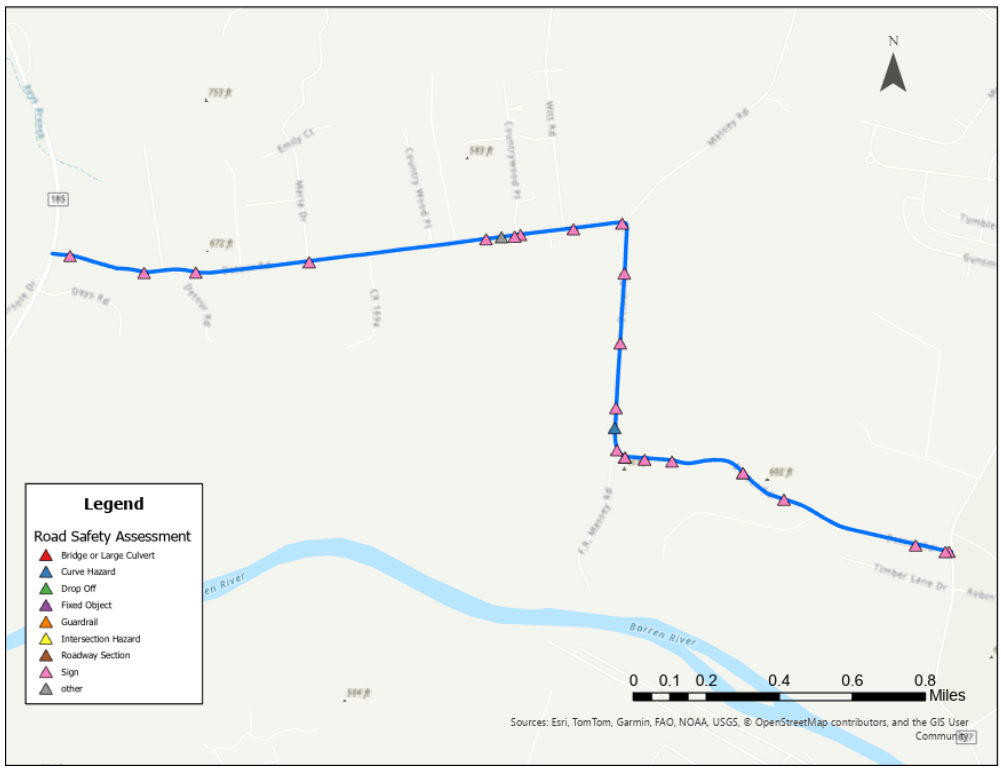
Crashes by Manner of Collision



Crashes by Road Condition



Road Safety Assessment

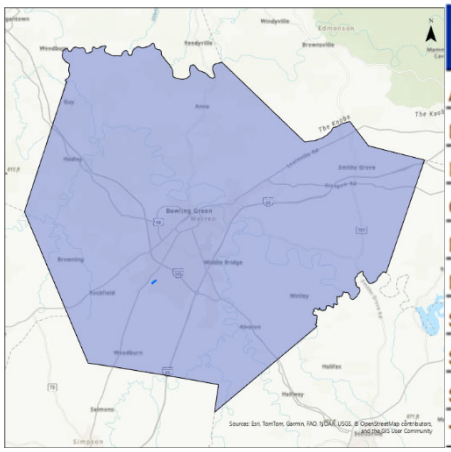


General Recommendations

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Comments	Recommendation
5850	114-CR-1091 -000	DETOUR RD	Curve Hazard	Yes	vegetation	Install advance curve signing and chevrons
5853	114-CR-1091 -000	DETOUR RD	Curve Hazard	Yes	vegetation	Install advance curve signing and chevrons
5867	114-CR-1091 -000	DETOUR RD	Curve Hazard	Yes	vegetation	Install advance curve signing and chevrons
Point ID	**RT_UNIQUE**	**RD_NAME**	**Issue Type**	**--**	**Description**	**Recommendation**
5857	114-CR-1091 -000	DETOUR RD	Other	0	0	0

MALLARD ST(114-CR-1748 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
ANGLE	0	0	0	0
BACKING	0	0	0	0
HEAD ON	0	0	0	0
OPPOSING LEFT TURN	0	0	0	0
REAR END	0	0	0	0
REAR TO REAR	0	0	0	0
SIDESWIPE-OPPOSITE	0	0	0	0
SIDESWIPE-SAME DIR	0	0	0	0
SINGLE VEHICLE	0	0	0	0
Total	**0**	**0**	**0**	**0**

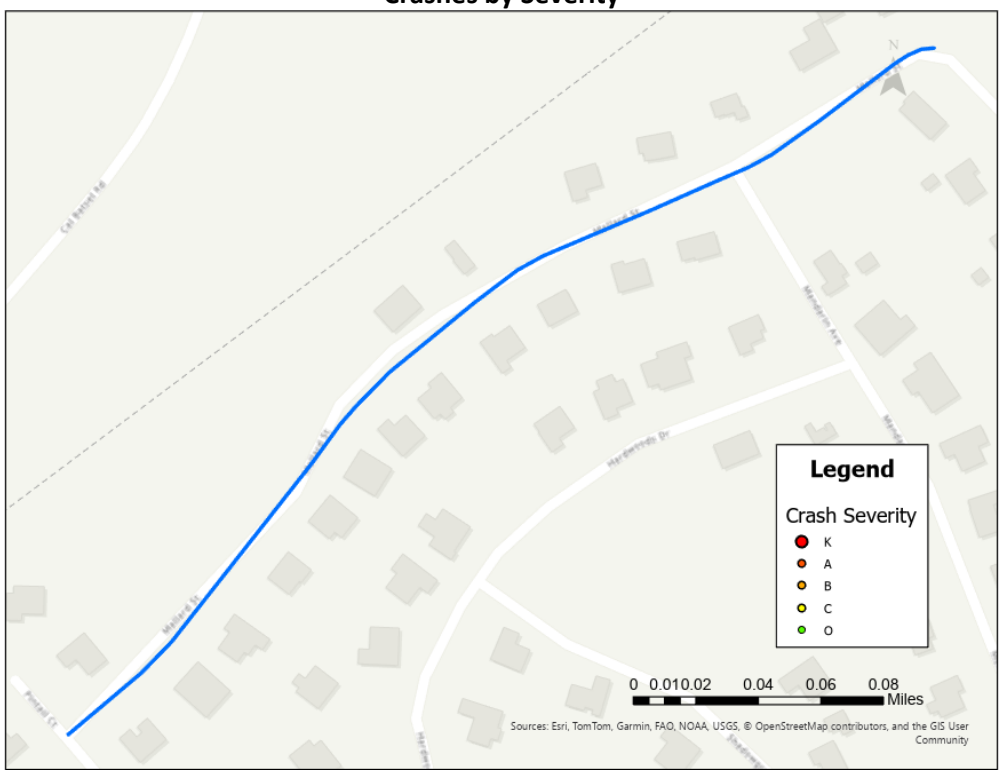
General Roadway Conditions

RT_UNIQUE	Road Name	Pvmt Width (f	Pavement Conditi	Roadside Hazard Rating	Shoulder Improve
114-CR-1748 -000	MALLARD ST	20	4	1	0-20

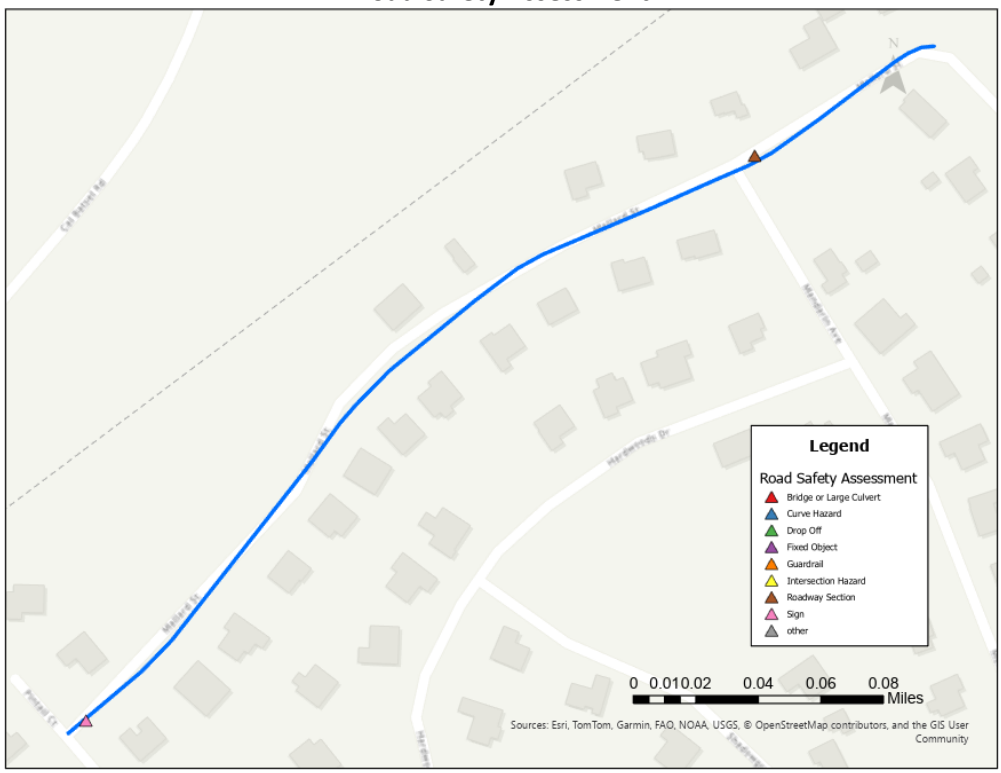
Roadway Typical Section



Crashes by Severity



Road Safety Assessment



General Recommendations

No issues identified on roadway.

Other Roadways

General Roadway Conditions and Recommendations (Warren County)

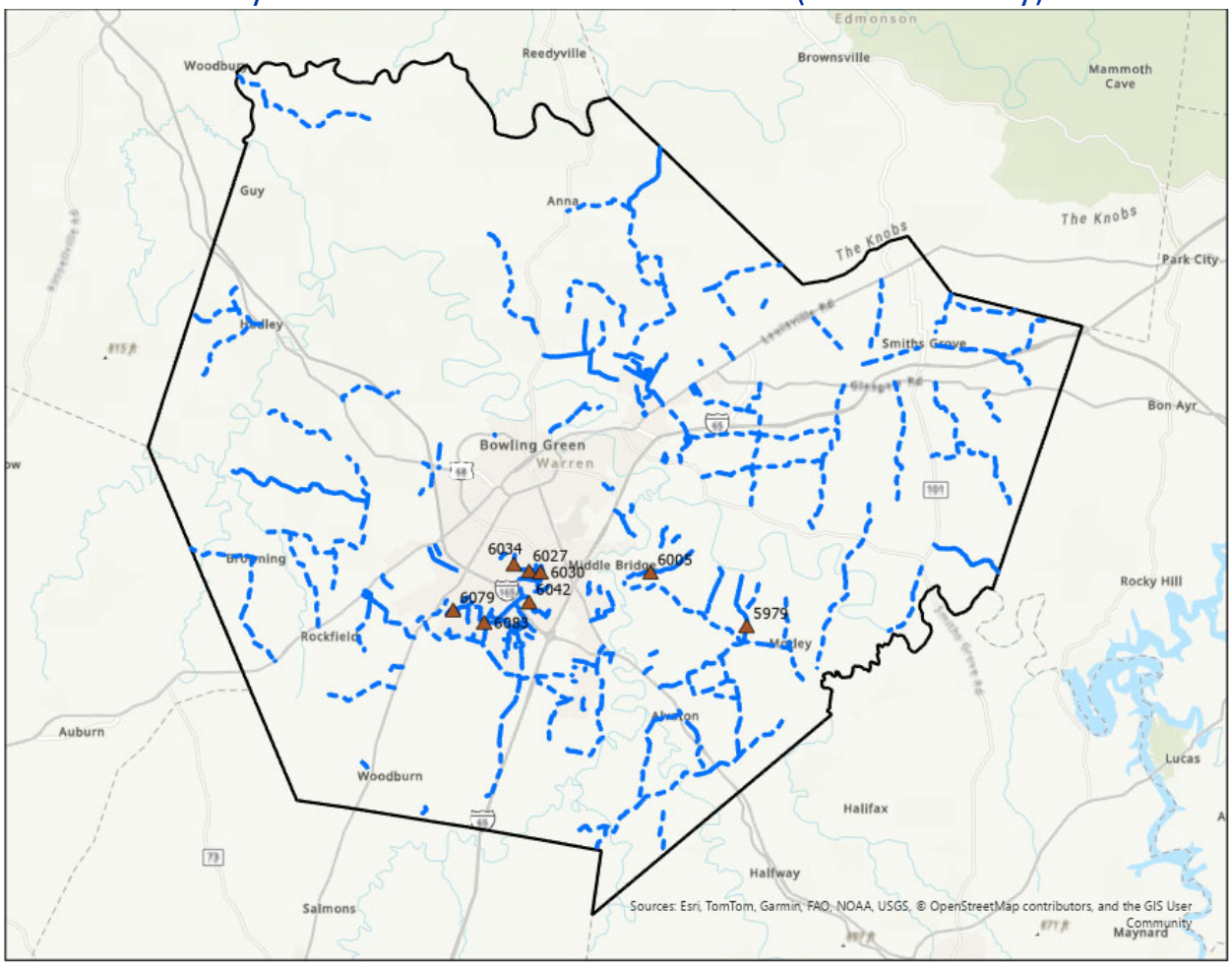


Exhibit Warren-12: General Roadway Conditions

Point ID	RT_UNIQUE	Road Name	Pvmt Width (f	Pavement Conditi	Roadside Hazard Rating	Shoulder Improve	Additional Comments	Improve Should	Edgeline[1]	Curve Signin	Other Recommendations
5649	114-CR-1154 -000	THREE FORKS RD	12	4	3	0-20	Several hills with curves, roadway in good shape		✓	✓	
5979	114-CR-1172 -000	GREENHILL RD	15	4	2	0-20	Good pavement, several hills		✓	✓	
6005	114-CR-1175 -000	HUNTS LN	15	4	2	0-20	Good roadway, several hills obstructing view		✓	✓	
6027	114-CR-1704X -000	CAVE MILL RD	20	4	1	0-20	Very busy roadway			✓	Consider Edgeline and Centerline
6030	114-CR-1704X -000	CAVE MILL RD	24+	4	1	0-20	Road widens to 3 lanes			✓	
6034	114-CR-1235 -000	SMALLHOUSE RD	20	4	1	0-20	Good condition, busy roadway			✓	Consider Edgeline and Centerline
6042	114-CR-1235 -000	SMALLHOUSE RD	20	4	1	0-20	Busy roadway			✓	Consider Edgeline and Centerline
6079	114-CR-1748 -000	MALLARD ST	20	4	1	0-20	Residential neighborhood				
6083	114-CR-1240 -000	ELROD RD	20	4	1	0-20	Busy roadway, has marked lanes			✓	

Exhibit Warren-13: General Roadway Recommendations

Bridge / Culvert Recommendations (Warren County)

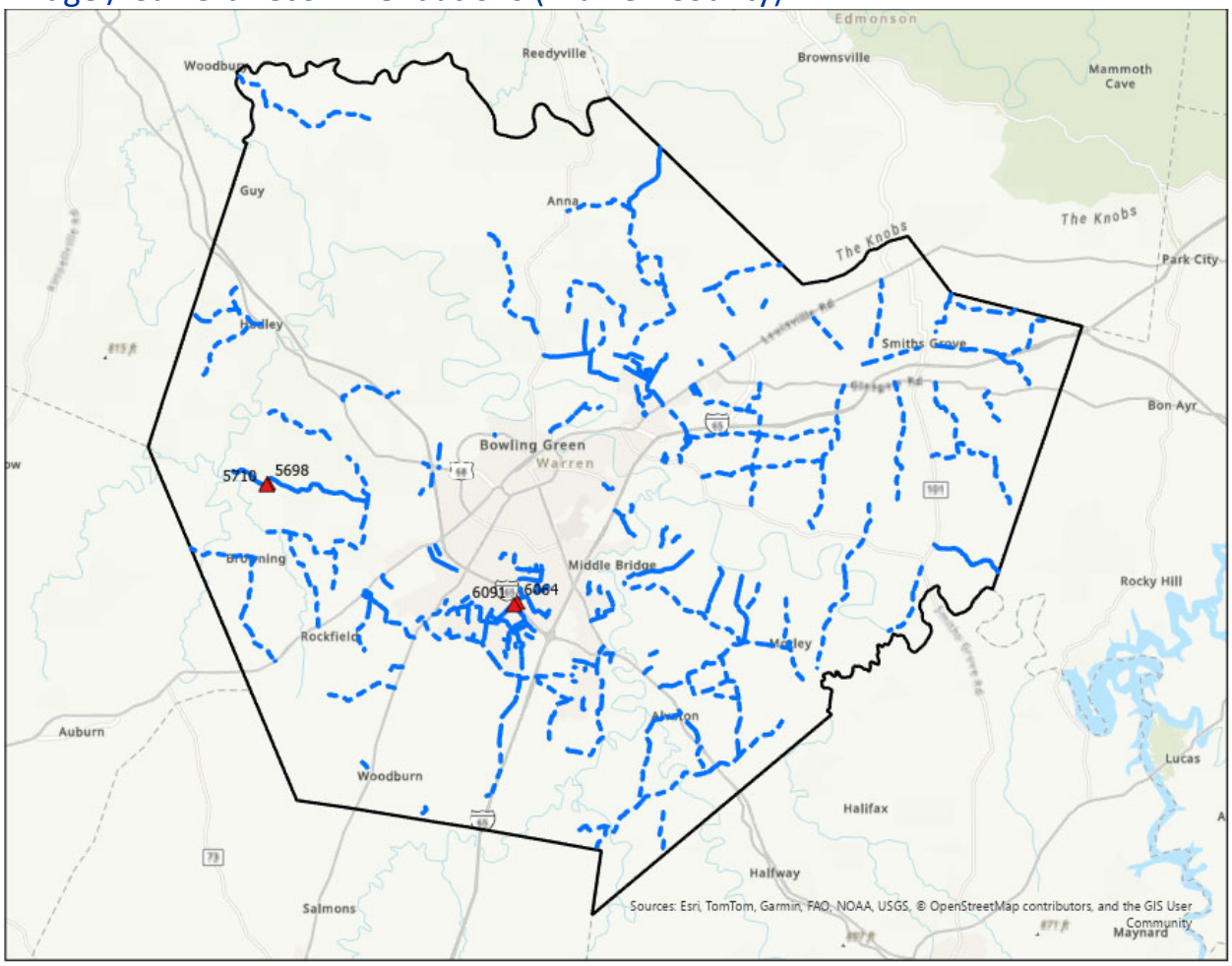


Exhibit Warren-14: Bridge / Culvert Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Bridge Width	Guardrail Present	OM Present	Recommendation
5698	114-CR-1312 -000	BLUE LEVEL RD	Bridge or Large Culvert	15	0	4	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
5710	114-CR-1312 -000	BLUE LEVEL RD	Bridge or Large Culvert	15	0	4	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
6064	114-CR-1240 -000	ELROD RD	Bridge or Large Culvert	20	4	0	Install Type 3 Object Markers where missing.
6091	114-CR-1240 -000	ELROD RD	Bridge or Large Culvert	20	4	0	Install Type 3 Object Markers where missing.

Exhibit Warren-15: Bridge / Culvert Recommendations

Curve Recommendations (Warren County)

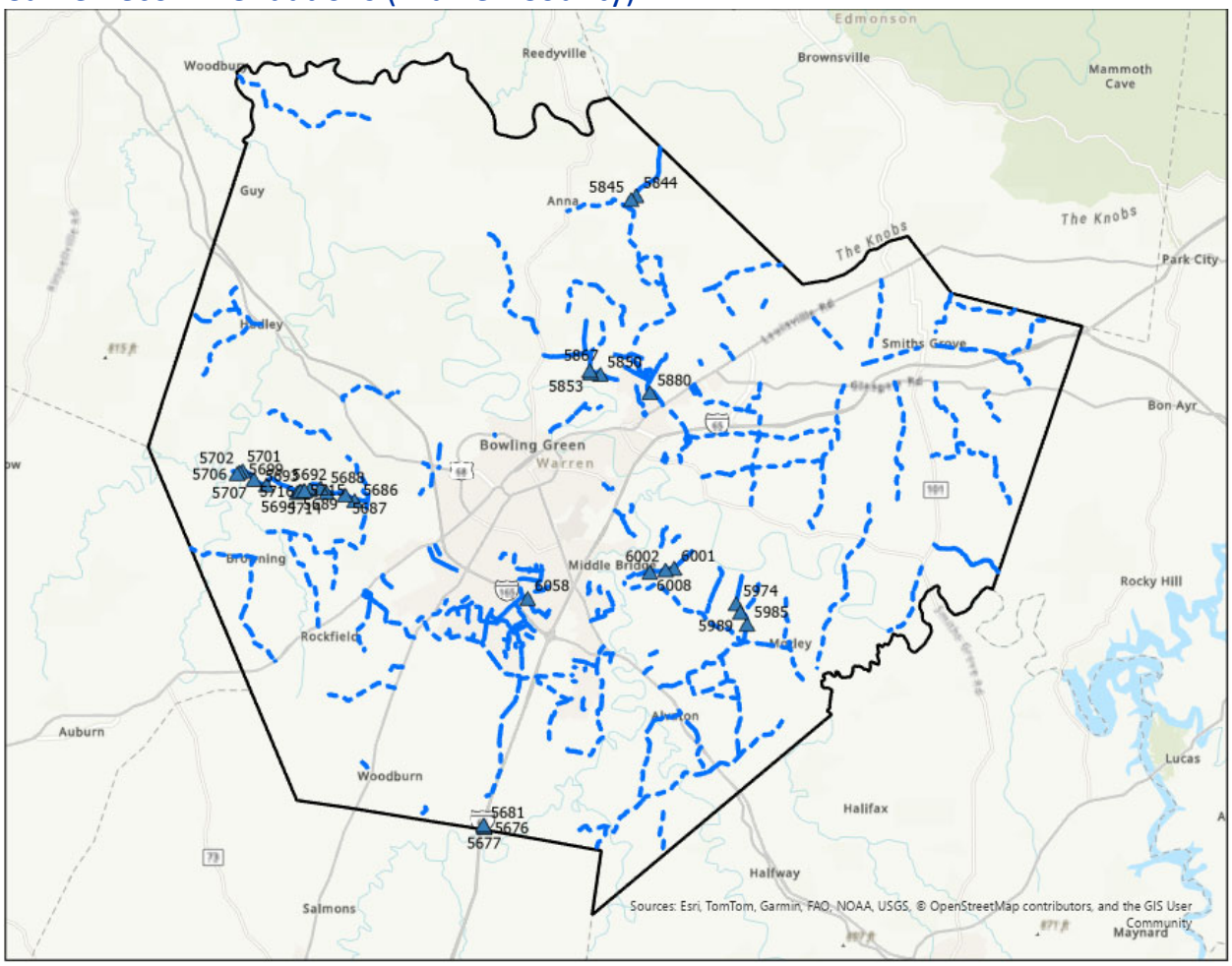


Exhibit Warren-16: Focus Road Curves

Point ID	RT_UNIQUE	Road Name	Issue Type	Comments	Vegetation	Recommendation
5686	114-CR-1312 -000	BLUE LEVEL RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation.
5687	114-CR-1312 -000	BLUE LEVEL RD	Curve Hazard	vegetation,Curve_Obscured	Yes	Install advance curve signing and chevrons; Clear vegetation.
5688	114-CR-1312 -000	BLUE LEVEL RD	Curve Hazard	vegetation,Curve_Obscured	Yes	Install advance curve signing and chevrons; Clear vegetation.
5689	114-CR-1312 -000	BLUE LEVEL RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation.
5692	114-CR-1312 -000	BLUE LEVEL RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation.
5693	114-CR-1312 -000	BLUE LEVEL RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation.
5694	114-CR-1312 -000	BLUE LEVEL RD	Curve Hazard	vegetation	No	Install advance curve signing and chevrons
5699	114-CR-1312 -000	BLUE LEVEL RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation.
5701	114-CR-1312 -000	BLUE LEVEL RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation.
5702	114-CR-1312 -000	BLUE LEVEL RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation.
5706	114-CR-1312 -000	BLUE LEVEL RD	Curve Hazard	vegetation,Curve_Obscured	Yes	Install advance curve signing and chevrons; Clear vegetation.
5707	114-CR-1312 -000	BLUE LEVEL RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation.
5714	114-CR-1312 -000	BLUE LEVEL RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation.
5715	114-CR-1312 -000	BLUE LEVEL RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation.
5716	114-CR-1312 -000	BLUE LEVEL RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation.
5844	114-CR-1105 -000	WILLIAM SIMMONS RD	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation.
5845	114-CR-1105 -000	WILLIAM SIMMONS RD	Curve Hazard	Intersection_in_Curve,Curve_Obscured	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection
5850	114-CR-1091 -000	DETOUR RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation.
5853	114-CR-1091 -000	DETOUR RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation.
5867	114-CR-1091 -000	DETOUR RD	Curve Hazard	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation.
5880	114-CR-1098 -000	MOORMAN LN	Curve Hazard	Curve_Obscured,vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation.
5974	114-CR-1172 -000	GREENHILL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5985	114-CR-1172 -000	GREENHILL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
5989	114-CR-1172 -000	GREENHILL RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
6001	114-CR-1175 -000	HUNTS LN	Curve Hazard	other	No	Install advance curve signing and chevrons
6002	114-CR-1175 -000	HUNTS LN	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
6008	114-CR-1175 -000	HUNTS LN	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons
6058	114-CR-1235 -000	SMALLHOUSE RD	Curve Hazard	Curve_Obscured	No	Install advance curve signing and chevrons

Page 1

Exhibit Warren-17: Curve Recommendations

Fixed Object Recommendations (Warren County)

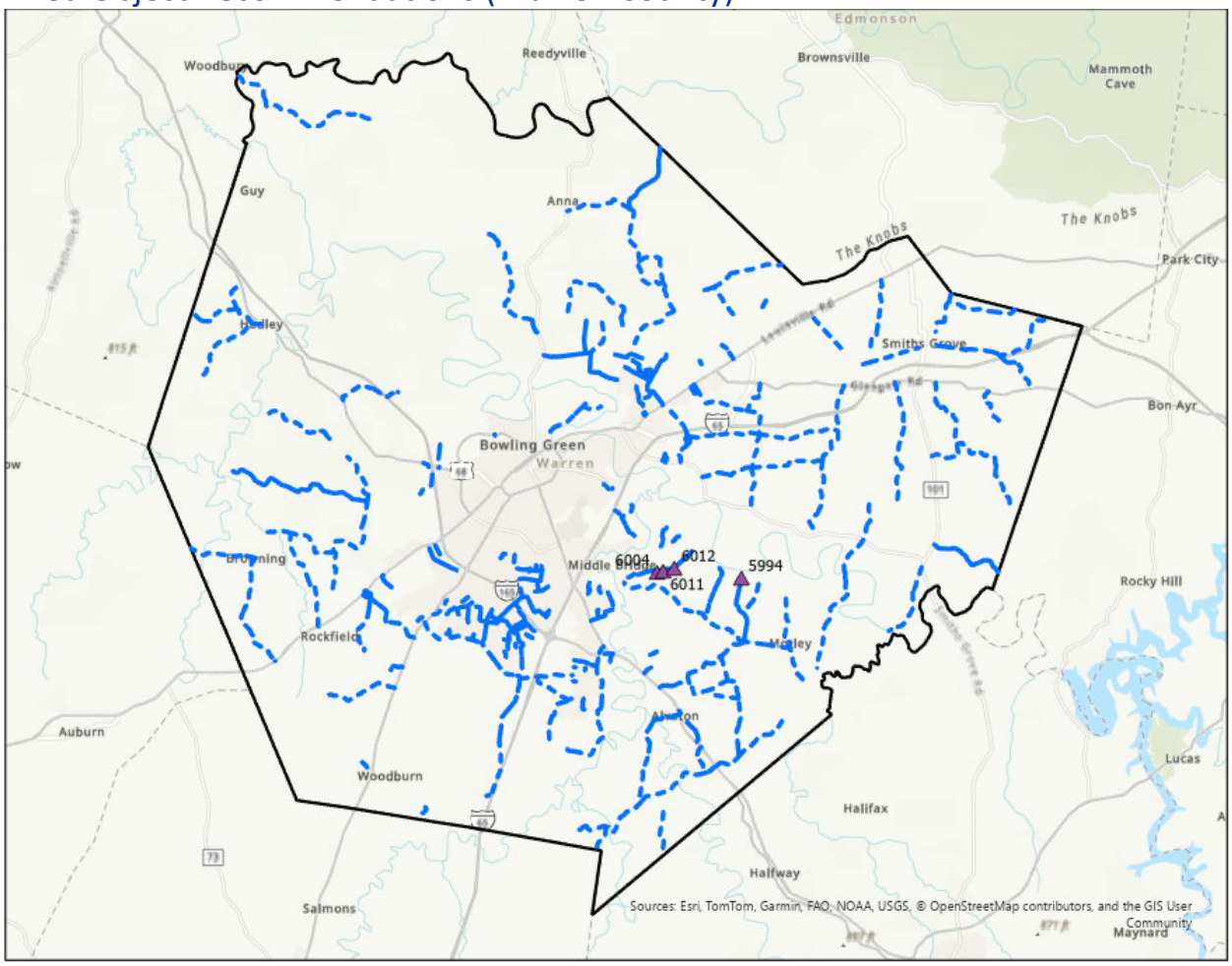


Exhibit Warren-18: Fixed Object Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Object	Single / Series	Offset	Recommendation
5095	085-CR-1142 -000	GLEN SHAW RD	Fixed Object	Utility Pole	Single	1-3	Install Type 2 Object Marker
5994	114-CR-1172 -000	GREENHILL RD	Fixed Object	other; Utility	Single	3-5	Install Type 2 Object Marker
6004	114-CR-1175 -000	HUNTS LN	Fixed Object	Tree	Single	3-5	Remove if possible; Install Type 2 Object Marker
6011	114-CR-1175 -000	HUNTS LN	Fixed Object	Tree	Series	3-5	Remove if possible
6012	114-CR-1175 -000	HUNTS LN	Fixed Object	Tree	Single	0-1	Remove

Exhibit Warren-19: Fixed Object Recommendations

Guardrail Recommendations (Warren County)

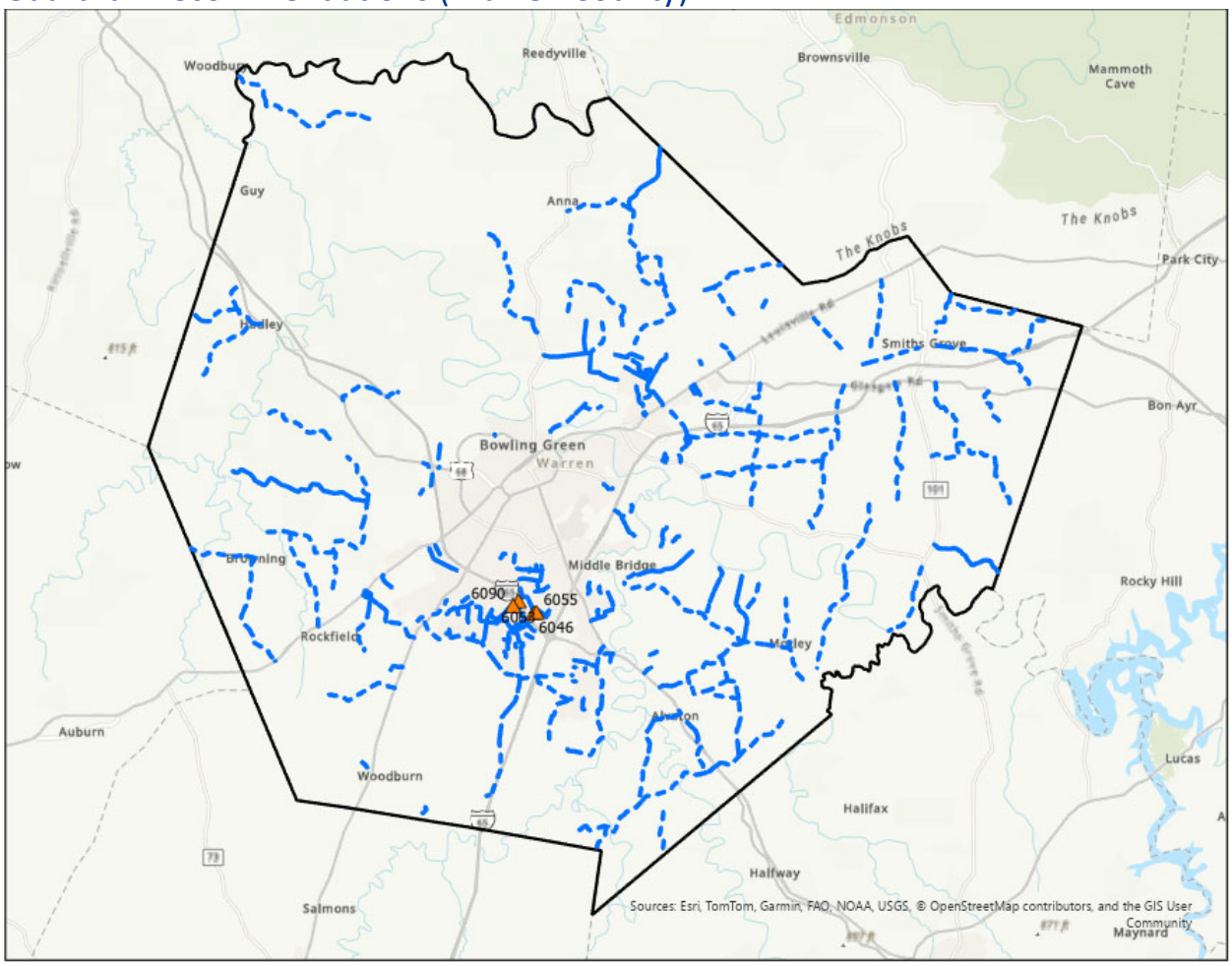


Exhibit Warren-20: Guardrail Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Condition	Meet Warrant	End Treatmen	Recommendation
6046	114-CR-1235 -000	SMALLHOUSE RD	Guardrail	Good	Yes	All_	--
6055	114-CR-1235 -000	SMALLHOUSE RD	Guardrail	Fair	Yes	All_	--
6063	114-CR-1240 -000	ELROD RD	Guardrail	Good	Yes	All_	--
6090	114-CR-1240 -000	ELROD RD	Guardrail	Good	Yes	All_	--

Exhibit Warren -21: Guardrail Recommendations

Intersection Recommendations (Warren County)

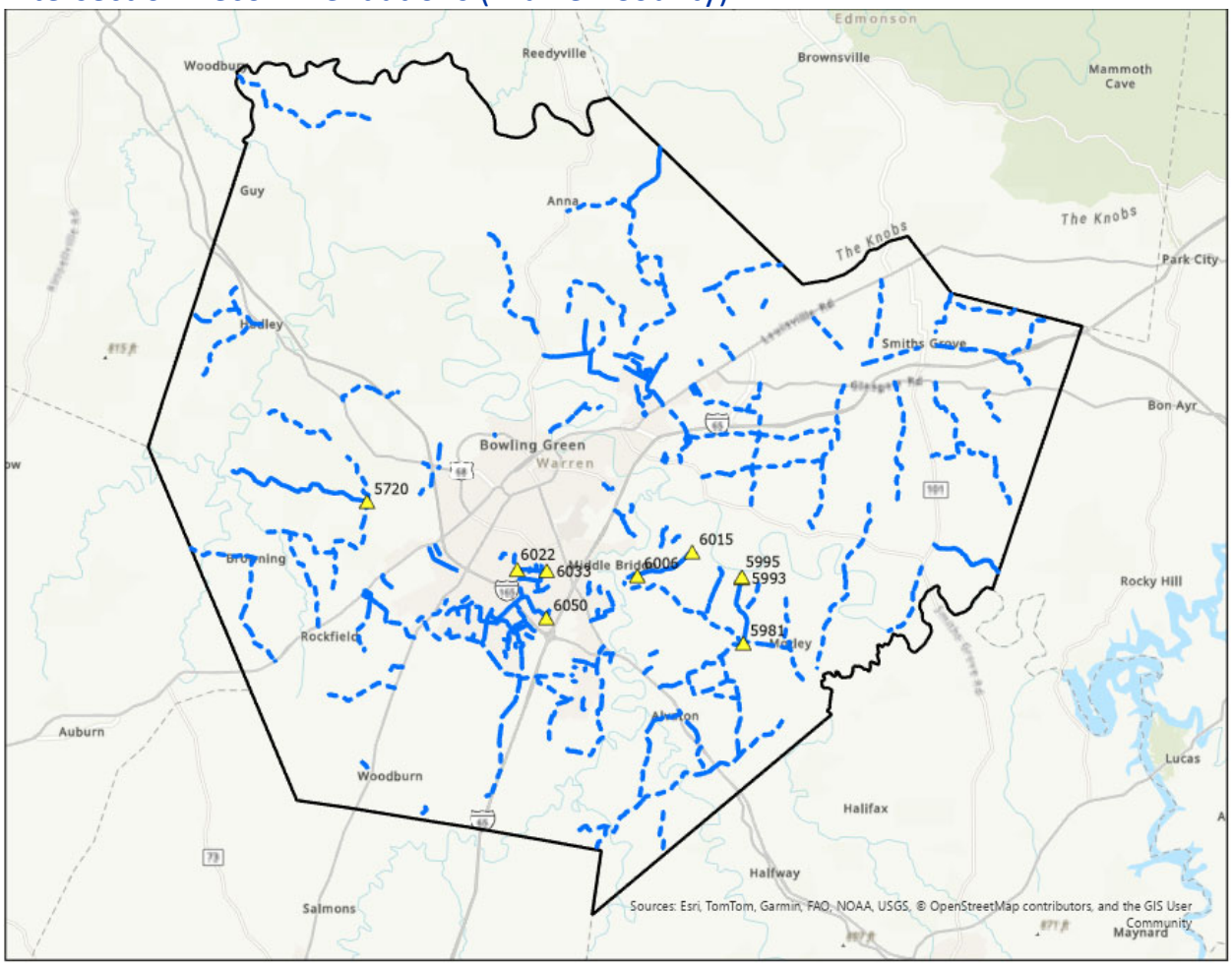


Exhibit Warren-22: Intersection Locations

Point ID	RT_UNIQUE	Road Name	Issue Type	Vegetation	Comments	Recommendations
5720	114-CR-1312 -000	BLUE LEVEL RD	Intersection	Yes	Insufficient_Sight_Distance_at_Intersection_Skew	Investigate Sight Distance Restriction/Clear Vegetation; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach; Correct Skew if Feasible/Consider edgeline and stop bar installation on skewed approach.
5981	114-CR-1172 -000	GREENHILL RD	Intersection	No	Intersection_Obscured_on_Appro a	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
5993	114-CR-1172 -000	GREENHILL RD	Intersection	No	Insufficient_Sight_Distance_at_Intersection_Skew,other	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach; Correct Skew if Feasible/Consider edgeline and stop bar installation on skewed approach.
5995	114-CR-1172 -000	GREENHILL RD	Intersection	No	Intersection_Obscured_on_Appro a	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
6006	114-CR-1175 -000	HUNTS LN	Intersection	No	other; No stop sign	Install missing Stop Sign
6015	114-CR-1175 -000	HUNTS LN	Intersection	No	Intersection_Obscured_on_Appro a	Investigate Sight Distance Restriction; Install "Intersection Ahead" or "Stop Ahead" sign on restricted approach
6022	114-CR-1704X -000	CAVE MILL RD	Intersection	No	other; Very busy intersection, has stoplight	Evaluate need for advance intersection/signal ahead signs
6033	114-CR-1704X -000	CAVE MILL RD	Intersection	No	other; Busy roadway	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs
6050	114-CR-1235 -000	SMALLHOUSE RD	Intersection	No	other; Busy	Install stop bar on stop controlled approach. Evaluate need for dual mounted stop signs/advance intersection signs

Exhibit Warren-23: Intersection Recommendations

Other Recommendations (Warren County)

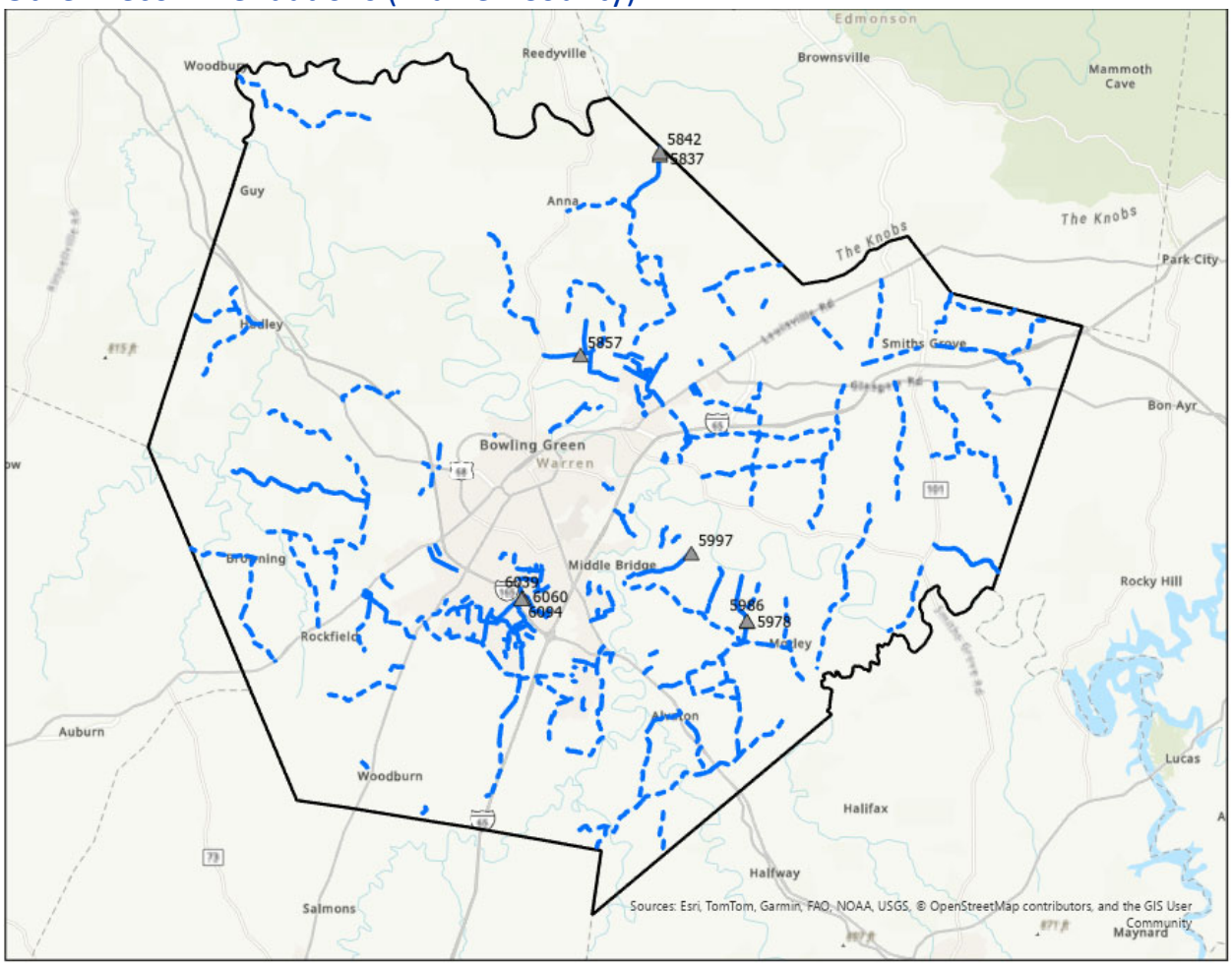


Exhibit Warren -24: Intersection Locations

Point ID	RT_UNIQUE	RD_NAME	Issue Type	Description	Recommendation
5837	114-CR-1105 -000	WILLIAM SIMMONS RD	Other	Large Blind Crest Hill	Install "Hill Blocks Sight Distance" Sign.
5842	114-CR-1105 -000	WILLIAM SIMMONS RD	Other	Steep Hill blind crest	Install "Hill Blocks Sight Distance" Sign.
5857	114-CR-1091 -000	DETOUR RD	Other		--
5978	114-CR-1172 -000	GREENHILL RD	Other		--
5986	114-CR-1172 -000	GREENHILL RD	Other		--
5997	114-CR-1175 -000	HUNTS LN	Other		--
6039	114-CR-1235 -000	SMALLHOUSE RD	Other		--
6060	114-CR-1235 -000	SMALLHOUSE RD	Other		--
6094	114-CR-1240 -000	ELROD RD	Other		--

Exhibit Warren -25: Intersection Recommendations

Signing Recommendations (Warren County)

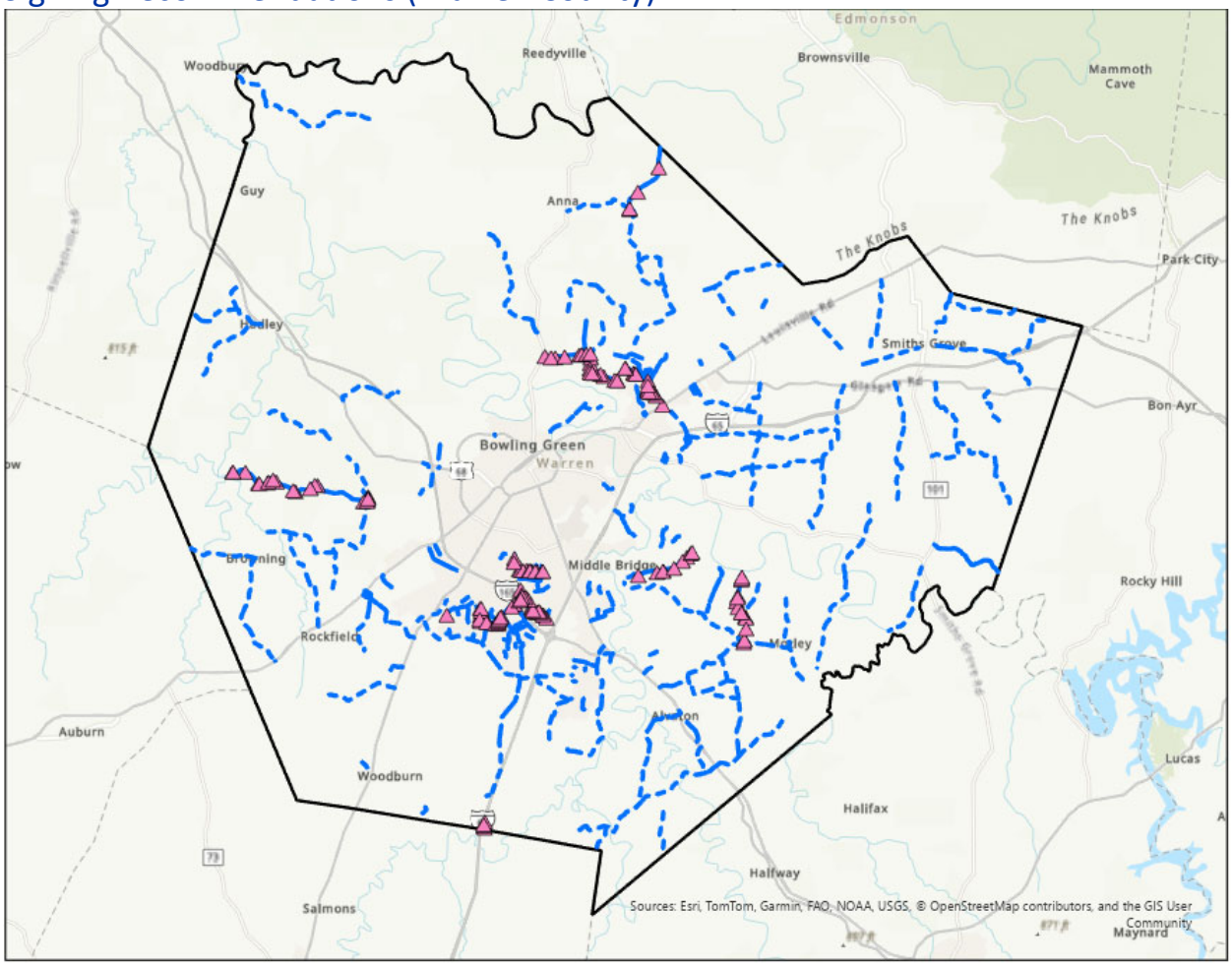


Exhibit Warren -26: Sign Locations

As part of the RSA data collection effort, existing signs were inventoried along reviewed Focus Roadways, including a condition assessment and a photo of each sign. Additionally, preliminary Advisory Speed recommendations were calculated for each focus roadway to assist in the installation of horizontal alignment (curve) signs. Signing and advisory speed information is provided in digital format at https://kyt2.uky.edu/BRADDSAP.