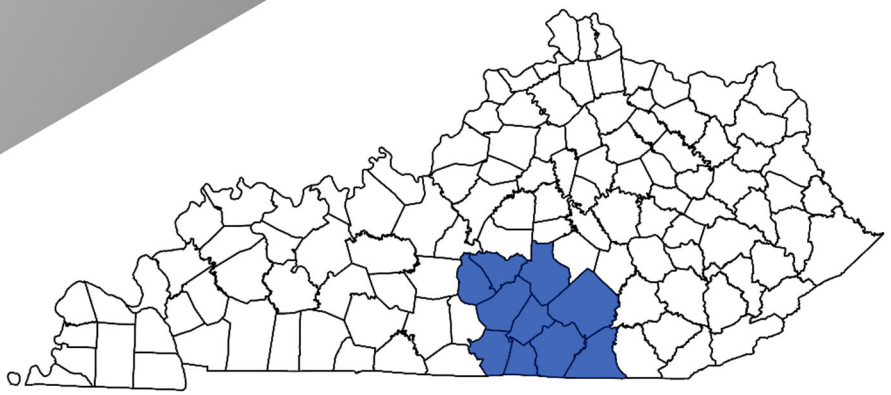
SAFETY ACTION PLAN



LAKE CUMBERLAND AREA
57
YEARS
1969-2026
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 Lake Cumberland Area Development District(LCADD), which includes Adair, Casey, Clinton, Cumberland, Green, McCreary, Pulaski, Russell, Taylor, and Wayne 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 the LCADD 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 the LCADD 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. The LCADD was awarded an Action Plan Grant in FY 22 to develop a Safety Action Plan for its 10-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 Lake Cumberland 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 have been provided by the standing LCADD Regional Transportation Committee (RTC). The RTC plays a critical role in developing the Regional Transportation Program for the LCADD area. As new projects are developed, and existing ones are 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 Lake Cumberland 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 Lake Cumberland ADD region which includes Adair, Casey, Clinton, Cumberland, Green, McCreary, Pulaski, Russell, Taylor, and Wayne 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.

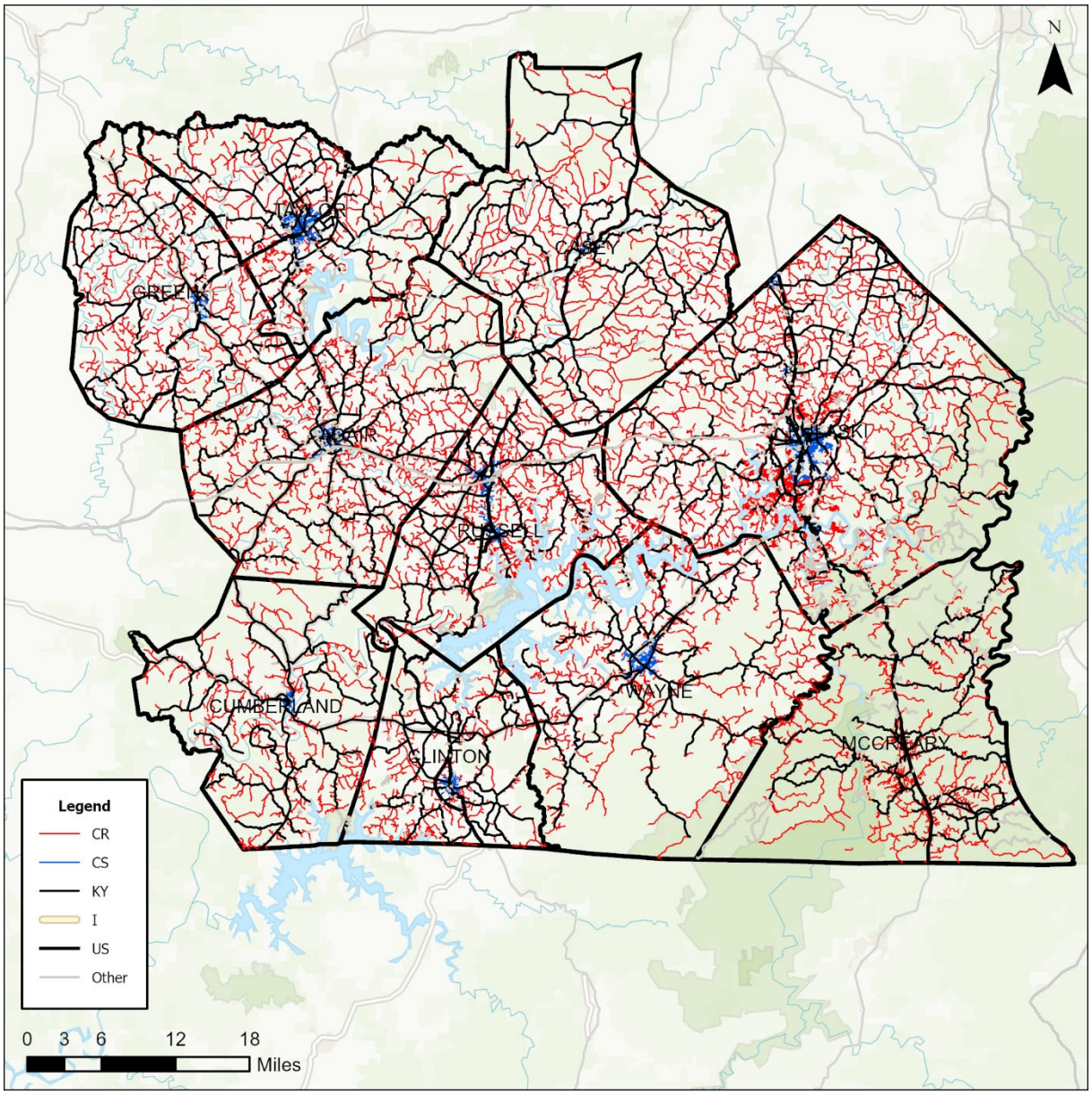


Exhibit 1: Study Area

CRASH ANALYSIS

Crash analysis was conducted to identify common crash types and identify priority locations within the Lake Cumberland region. 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 26,709 crashes, resulting in 222 fatalities and 3,651 injuries were recorded within the region. Locally maintained roadways (county and city) accounted for approximately 22 percent of all crashes and 24 fatalities. As local roadways are the primary focus of this action plan, the analysis below focuses on county roads. Exhibit 2 shows county road crashes recorded in the study area during the 5-year period.

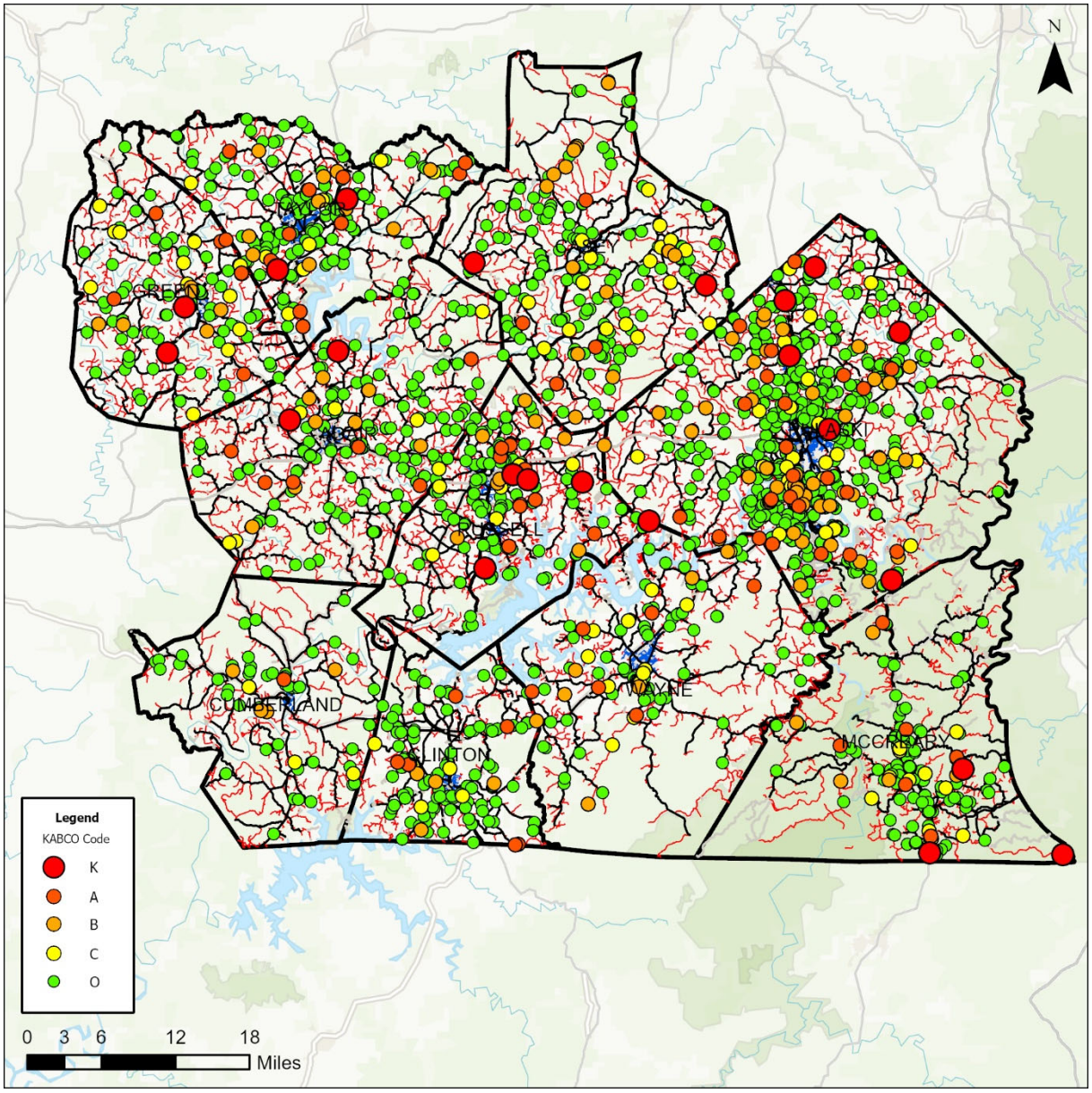
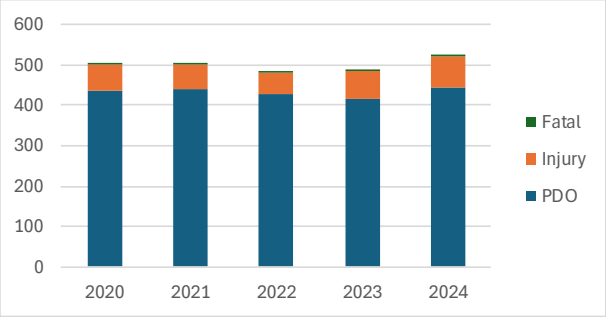


Exhibit 2: Crash Distribution

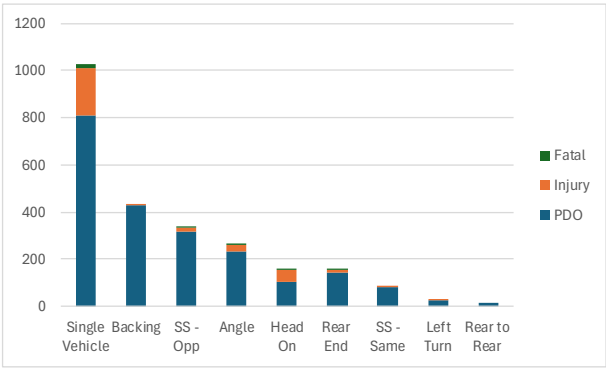
Crash data was provided in a database format with latitude and longitude provided for each crash, and crash characteristics such as crash severity, manner of collision, and human, vehicular and environmental contributing factors. Crash data was spatially joined to the roadway network available from the 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 county, city or state roadway.

Prior to the identification of high crash locations, area wide crash analyses were completed to determine emphasis areas with focus on county roadways as these account for 22 of the 24 fatal crashes on local roadways.



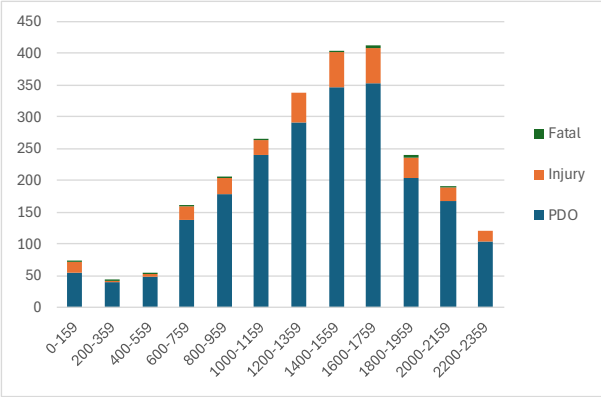
Year	Property Damage Only	Injury	Fatal	Total
2020	436	64	1	**501**
2021	440	59	6	**505**
2022	429	53	4	**486**
2023	416	68	5	**489**
2024	443	77	6	**526**

Exhibit 3: Crash Severity by Year



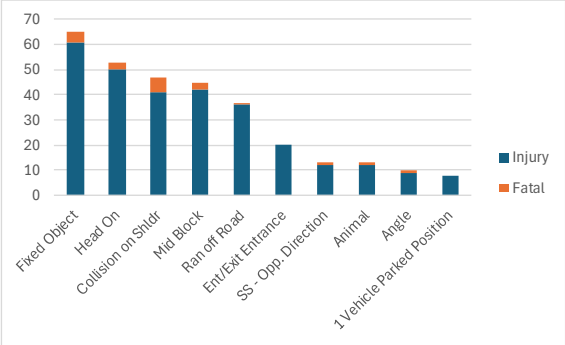
Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	811	199	16	**1026**
Backing	429	3	0	**432**
SS - Opp	318	14	1	**333**
Angle	232	30	1	**263**
Head On	102	53	3	**158**
Rear End	143	13	1	**157**
SS - Same	82	5	0	**87**
Left Turn	26	4	0	**30**
Rear to Rear	18	0	0	**18**

Exhibit 4: Crash Type by Severity



Time of Day	Property Damage Only	Injury	Fatal	Total
0-159	54	17	2	**73**
200-359	39	3	1	**43**
400-559	49	4	1	**54**
600-759	137	22	1	**160**
800-959	178	26	1	**205**
1000-1159	239	25	1	**265**
1200-1359	292	45	0	**337**
1400-1559	347	54	3	**404**
1600-1759	353	55	4	**412**
1800-1959	204	32	5	**241**
2000-2159	168	21	3	**192**
2200-2359	103	17	0	**120**

Exhibit 5: Crashes by Time of Day



Directional Analysis	Injury	Fatal	Total
Fixed Object	61	4	**65**
Head On	50	3	**53**
Collision on Shldr	41	6	**47**
Mid Block	42	3	**45**
Ran off Road	36	1	**37**
Ent/Exit Entrance	20	0	**20**
SS - Opp. Direction	12	1	**13**
Animal	12	1	**13**
Angle	9	1	**10**
1 Vehicle Parked Position	8	0	**8**

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 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
Adair	527	49	9%
Casey	391	113	29%
Clinton	183	29	16%
Cumberland	265	25	9%
Green	313	53	17%
McCreary	349	71	20%
Pulaski	989	173	18%
Russell	329	96	29%
Taylor	251	65	26%
Wayne	336	98	29%

Exhibit 7: Focus Road Mileage

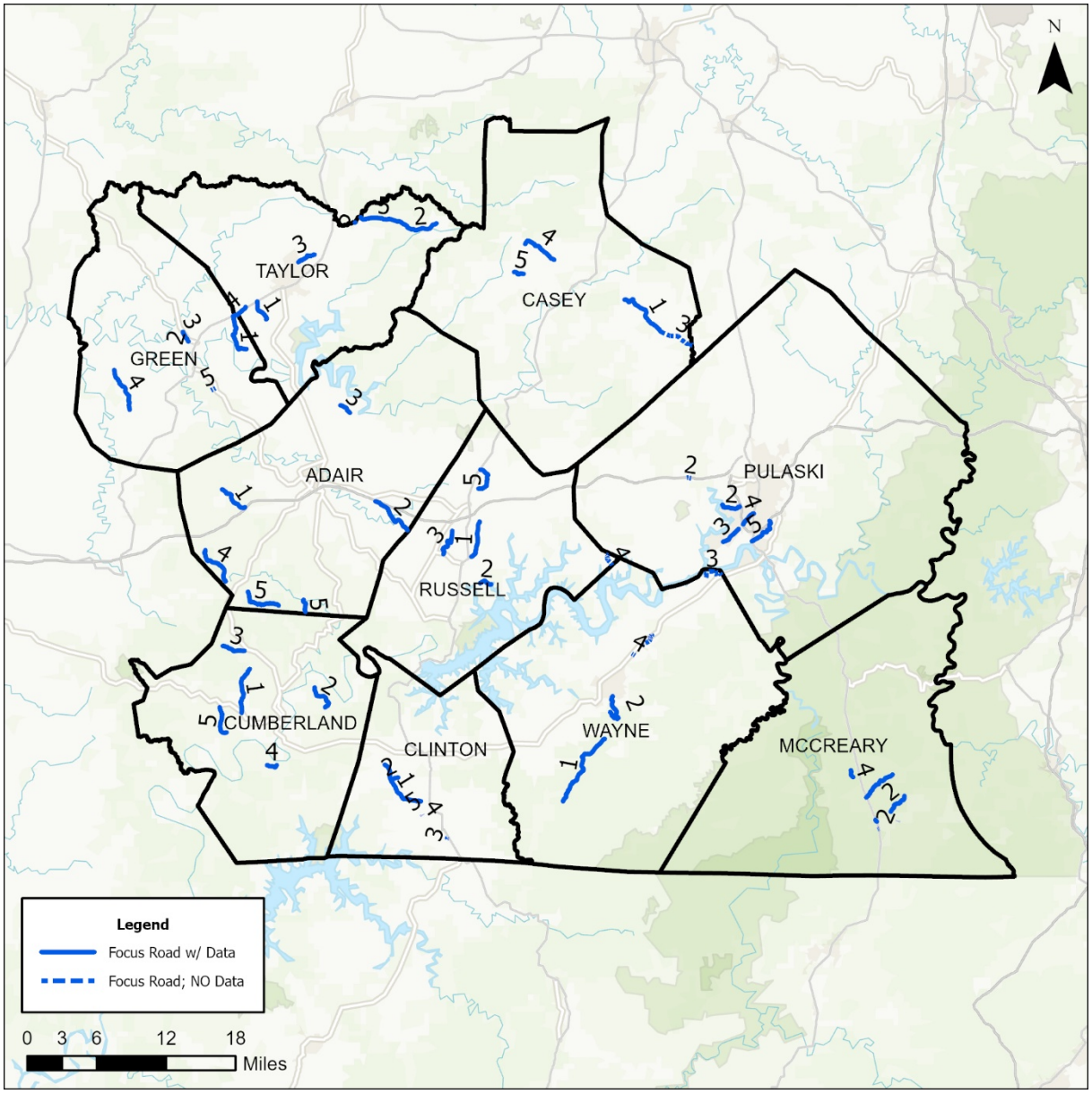


Exhibit 8: Top 5 Focus Roads by County

RT_UNIQUE	Length	County	Road Name	Injury Crash	Fatal Crash	PDO	Ped/ Bike	Total	EPDO	Crash Scor	Use Scor	Score
Adair County												
001-CR-1336 -000	2.9	Adair	OLD GRADYVILLE RD	0	0	2	0	2	2	0.26	5	5.26
001-CR-1156 -000	4.2	Adair	WHITE OAK CHURCH RD	1	0	1	0	2	6	2.44	2.47	4.91
001-CR-1428 -000	1.1	Adair	WEST EGYPT RD	0	0	0	0	0	0	0	4.33	4.33
001-CR-1313 -000	4.0	Adair	CHESTNUT GROVE RD	0	1	1	0	2	11	3.08	1.00	4.08
001-CR-1302 -000	7.7	Adair	GREENBRIAR RD	0	1	3	0	4	13	3.33	0.71	4.04
Casey County												
023-CR-1132 -000	5.1	Casey	CALVARY RIDGE RD	2	2	6	0	10	36	3.33	2.80	6.14
023-CR-1339 -000	3.4	Casey	REYNOLDS CREEK RD	0	0	0	0	0	0	0.00	3.01	3.01
023-CR-1330 -000	0.9	Casey	CALE BROWN RD	0	1	4	0	5	14	1.06	1.88	2.95
023-CR-1006 -000	7.4	Casey	UPPER BRUSH CREEK RD	1	0	2	1	3	7	2.41	0.47	2.87
023-CR-1104 -000	3.0	Casey	FISHING CREEK RD	0	0	0	0	0	0	0.00	3.11	3.11
Clinton County												
027-CR-1202 -000	5.1	Clinton	OLD BURKESVILLE RD	2	1	7	0	10	27	3.33	0.54	3.88
027-CR-1258 -000	0.7	Clinton	BOSS BROWN RD	0	0	1	0	1	1	0.06	2.65	2.71
027-CR-1254 -000	2.2	Clinton	HOGBACK RD	1	0	0	0	1	5	0.86	1.09	1.95
027-CR-1217 -000	2.3	Clinton	SPECK RD	0	0	1	0	1	1	0.06	1.61	1.68
027-CR-1015G -000	0.4	Clinton	CARLIE AYERS RD	0	0	0	0	0	0	0.00	1.62	1.62
Cumberland County												
029-CR-1304 -000	4.2	Cumberland	ALLENS CREEK RD	1	0	5	0	6	10	3.33	3.10	6.43
029-CR-1009 -000	2.7	Cumberland	BRUSH CREEK RD	1	0	0	1	2	5	4.17	0.31	4.48
029-CR-1319 -000	3.4	Cumberland	GARRETT CREEK RD	0	1	0	0	1	10	3.33	0.47	3.80
029-CR-1204 -000	1.0	Cumberland	COLD SPRINGS RD	0	0	3	0	3	3	0.50	2.80	3.30
029-CR-1347 -000	2.7	Cumberland	BEECH GROVE RD	1	0	1	0	2	6	2.67	0.60	3.26
Green County												
044-CR-1019 -000	3.9	Green	WHITEWOOD RD	1	2	2	0	5	27	3.33	2.35	5.68
044-CR-1715 -000	1.0	Green	HAPPYVILLE RD	0	1	4	0	5	14	1.42	2.50	3.92
044-CR-1266 -000	4.0	Green	PIERCE-DONANSBURG RD	0	2	6	0	8	26	2.72	0.96	3.68
044-CR-1207 -000	2.8	Green	MOUNT LEBANON CHURCH RD	0	0	1	0	1	1	0.06	2.56	2.63
044-CR-1314 -000	3.2	Green	DOC WARD RD	0	0	0	0	0	0	0.00	2.56	2.56
McCreary County												
074-CR-1200 -000	0.7	McCreary	OLD BAILEY RD	0	2	5	0	7	25	2.46	0.35	2.80
074-CR-1603E -000	0.2	McCreary	HOGUE RD	0	0	0	0	0	0	0.00	2.76	2.76
074-CR-1601 -000	2.2	McCreary	SOUTHERN HWY	0	1	1	0	2	11	1.15	0.98	2.12
074-CR-1183 -000	3.3	McCreary	PIGSKIN RD	1	2	6	0	9	31	3.33	1.13	4.46
074-CR-1605F -000	2.0	McCreary	AIRPORT RD	0	2	3	0	5	23	2.35	1.18	3.52
Pulaski County												
100-CR-1485 -000	1.4	Pulaski	BOURBON RD	1	4	52	0	57	97	3.06	2.63	5.68
100-CR-1483 -000	1.7	Pulaski	PATTERSON BRANCH RD	0	3	39	0	42	69	2.02	3.51	5.52
100-CR-1378 -000	1.8	Pulaski	FERRY RD	4	2	29	0	35	69	2.85	1.54	4.40
100-CR-1338 -000	2.9	Pulaski	BOAT DOCK RD	2	3	28	0	33	68	2.56	0.23	2.79
100-CR-1340J -000	0.5	Pulaski	EARL NEELY RD	0	0	2	0	2	2	0.03	2.69	2.72
Russell County												
104-CR-1091 -000	3.3	Russell	OLD CLEAR SPRINGS RD	2	1	5	0	8	25	3.33	3.17	6.51
104-CR-1764 -000	1.2	Russell	LILY CREEK RESORT RD	1	0	0	1	1	5	2.56	2.86	5.42
104-CR-1427 -000	3.0	Russell	ARLIS HALE RD	1	1	1	0	3	16	2.18	2.07	4.25
104-CR-1375 -000	1.2	Russell	MT. OLIVE CREEK RD	1	0	2	0	3	7	1.02	2.04	3.06
104-CR-1282 -000	1.8	Russell	MELSON RIDGE RD	0	0	1	0	1	1	0.07	2.77	2.84
Taylor County												
109-CR-1223 -000	2.0	Taylor	DAVIS RD	2	0	13	0	15	23	2.59	4.62	7.21
109-CR-1019 -000	4.5	Taylor	MERRIMAC RD	2	1	6	0	9	26	3.33	2.64	5.97
109-CR-1046 -000	1.7	Taylor	BEAR TRACK RD	1	1	7	0	9	22	2.52	3.06	5.58
109-CR-1518 -000	1.3	Taylor	BLACK GNAT RD	1	1	3	0	5	18	2.26	2.78	5.04
109-CR-1021 -000	4.7	Taylor	BARNEY SCHOOL RD	0	2	3	0	6	23	2.59	1.44	4.03
Wayne County												
116-CR-1209 -000	7.3	Wayne	EDWARDS MOUNTAIN RD	2	1	3	0	6	23	3.33	0.74	4.07
116-CR-1307 -000	3.5	Wayne	MORRIS HILL RD	0	1	12	0	13	22	2.15	1.69	3.84
116-CR-1066 -000	1.8	Wayne	OLD MILLSPRINGS RD	0	0	3	0	3	3	0.22	2.74	2.95
116-CR-1046 -000	1.7	Wayne	FRAZER CHAPEL RD	0	0	2	0	2	2	0.14	2.79	2.94
116-CR-1096 -000	2.1	Wayne	GREEN HLS EST RD	1	0	0	0	1	5	0.92	2.79	3.71

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 LCADD.

DATA COLLECTION

Road Safety Assessments (RSAs) were conducted on the Focus Roadways by the LCADD 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.

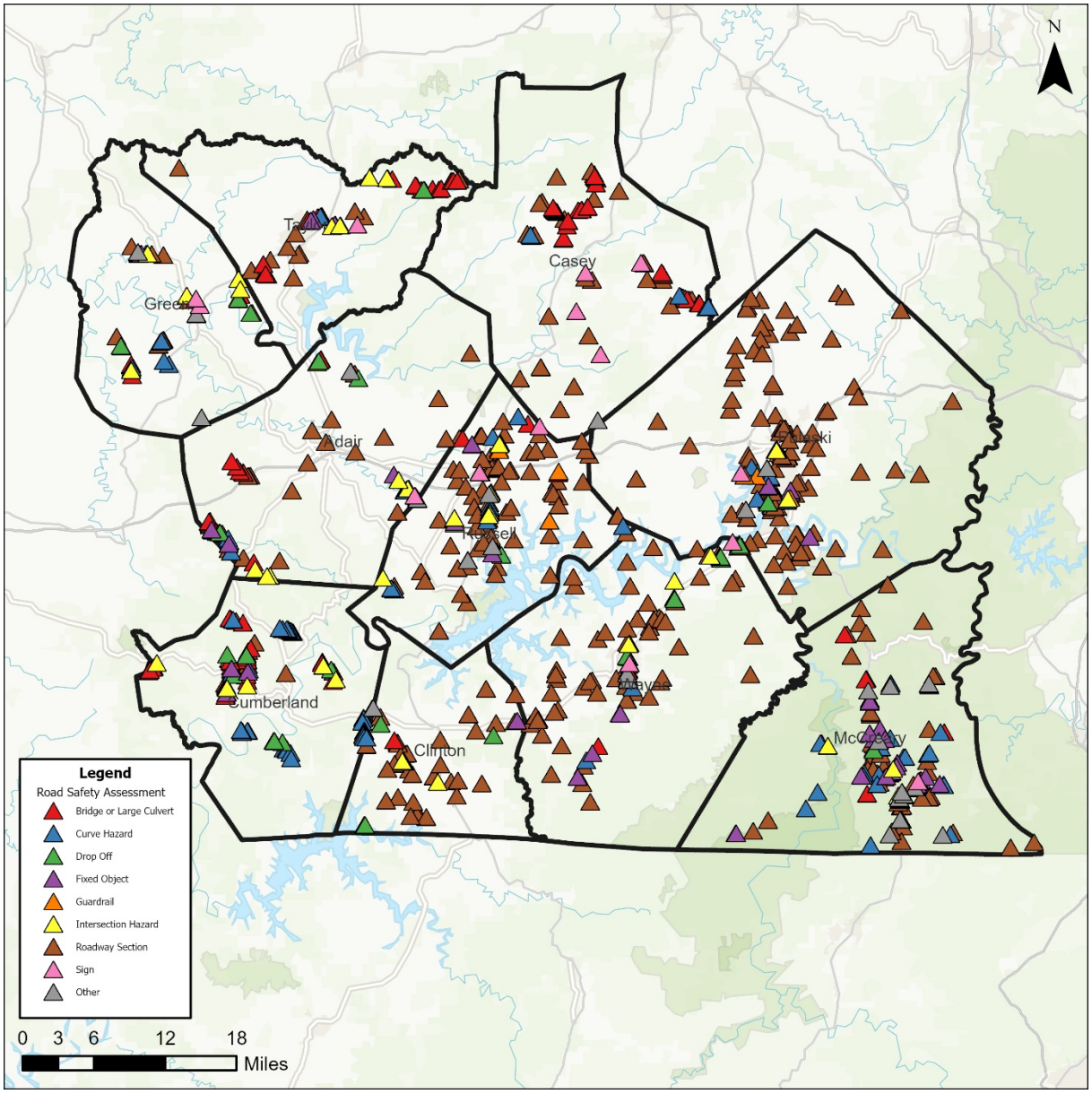


Exhibit 10: Road Safety Assessment Data Points

County	Bridge or Culvert	Curve Hazard	Drop Off	Fixed Object	Guardrail	Int. Hazard	Other	Roadway Section	Sign	Total
Adair	16	7	3	3		5	2	32	1	69
Casey	16	4					1	49	4	74
Clinton	2	1	4	1		2		34		44
Cumberland	27	41	8	3		5	2	19		105
Green	8	10	5	1		5	6	14	2	51
McCreary	6	26	1	24		3	13	73	1	147
Pulaski	2	16	2	4	3	2	2	117	1	149
Russell	9	15	3	5	7	7	4	86	2	138
Taylor	23	1	1	3	1	4		20	1	54
Wayne	2	4	5	4	1	4	2	71	2	95
Total	**111**	**125**	**32**	**48**	**12**	**37**	**32**	**515**	**14**	**926**

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-foot-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.

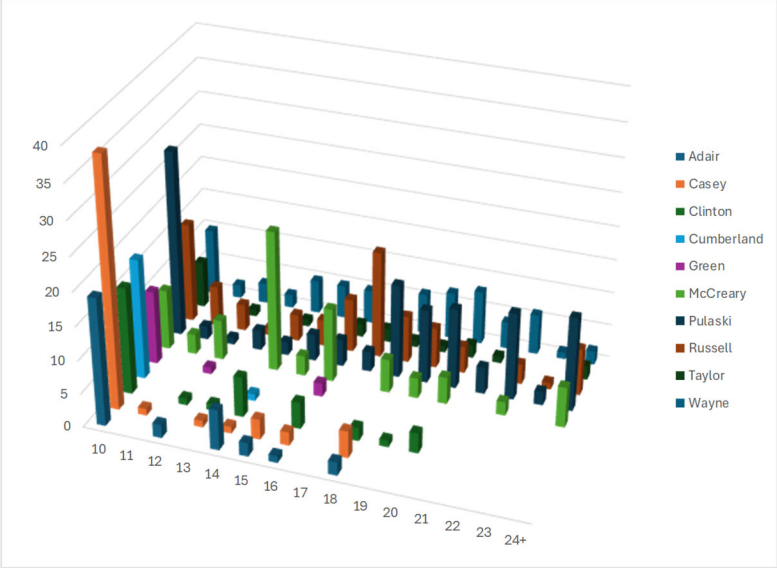


Exhibit 12: Roadway Width by County

County	Pavement Servicability Rating				
	1	2	3	4	5
Adair	6%	16%	47%	31%	0%
Casey	8%	10%	61%	18%	2%
Clinton	0%	3%	41%	53%	3%
Cumberland	5%	0%	74%	21%	0%
Green	7%	14%	29%	50%	0%
McCreary	14%	11%	10%	58%	8%
Pulaski	1%	3%	21%	72%	3%
Russell	2%	2%	15%	76%	5%
Taylor	5%	10%	35%	50%	0%
Wayne	0%	6%	21%	69%	4%
Total	4%	6%	28%	58%	4%

Exhibit 13: Roadway Condition by County

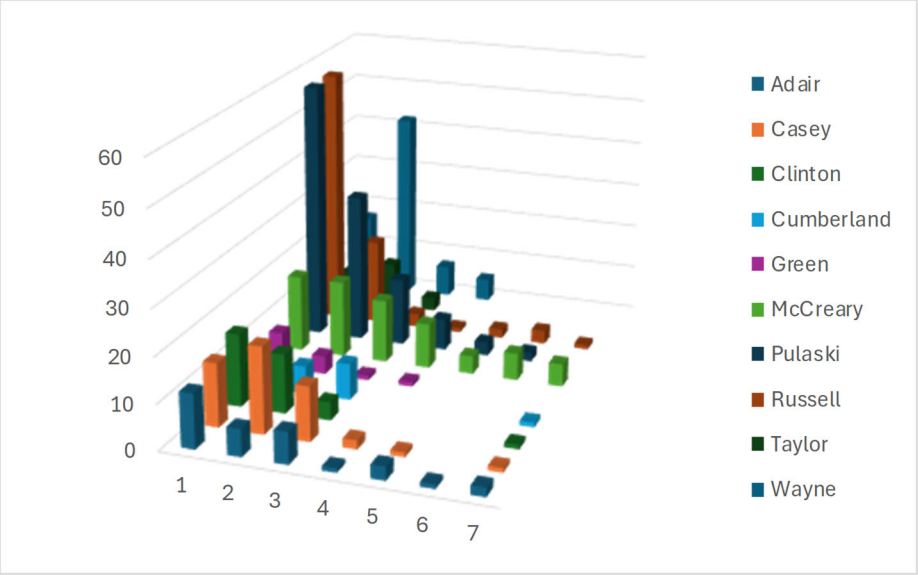


Exhibit 14: Roadside Hazard Rating by County

Evaluating the crash analysis presented above which shows that single vehicle-fixed 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 Cumberland 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 the LCADD. The Lake Cumberland Area Development District (LCADD) was responsible for distributing the public Transportation Safety Survey throughout the region. LCADD was encouraged to coordinate with local agencies to promote the survey through city and county websites, social media, and other available communication channels, as well as to engage local community groups to help broaden distribution and reach stakeholders and underserved populations.

The survey asked general demographic questions as well as what were the major concerns and priority issues of the public. Finally, an interactive map was provided to allow respondents to identify specific concerns or issues within their area. 73 unique responses were collected for the survey. The results of this survey are summarized below and Appendix C contains the full survey questionnaire.

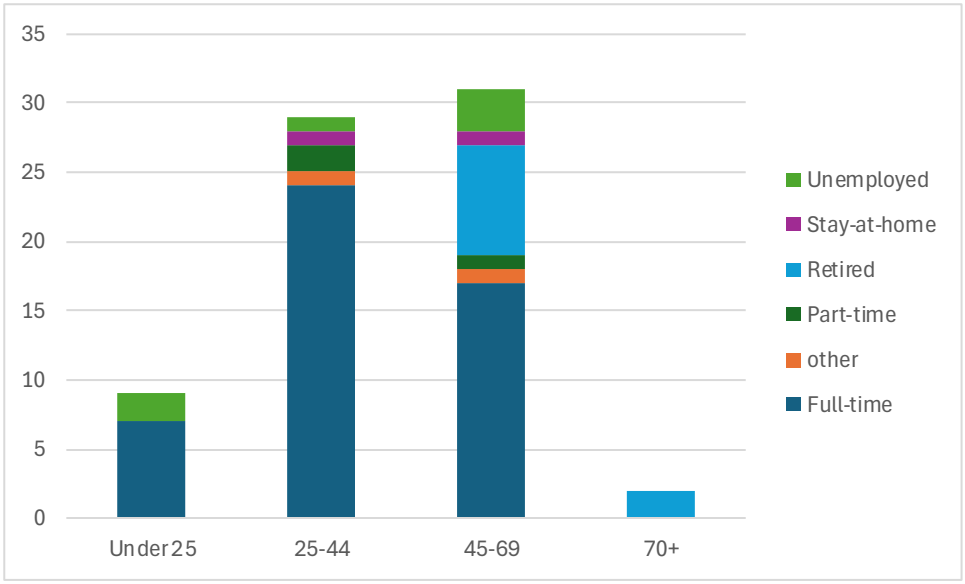


Exhibit 15: Public Survey Demographic Information

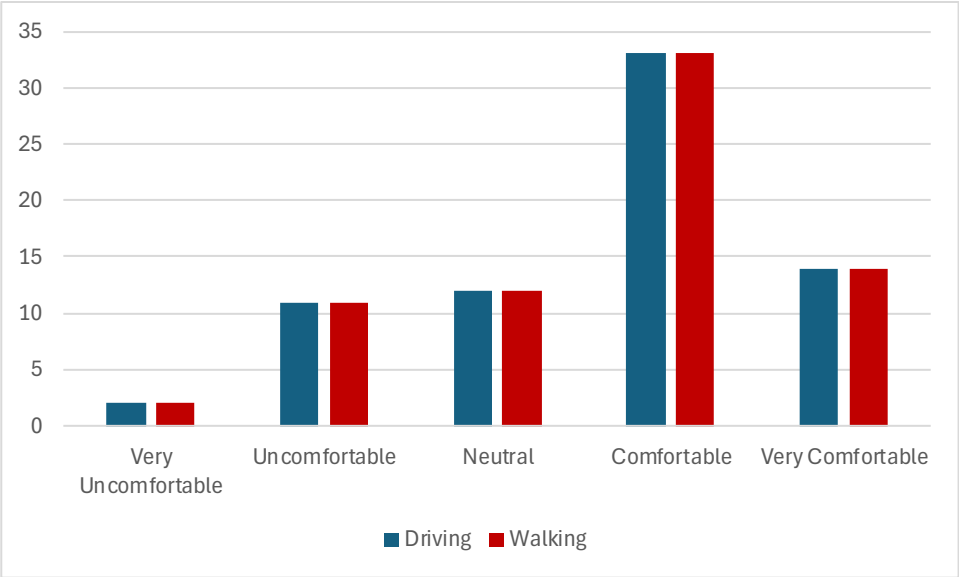


Exhibit 16: Public Survey Driving/Walking Comfort Level

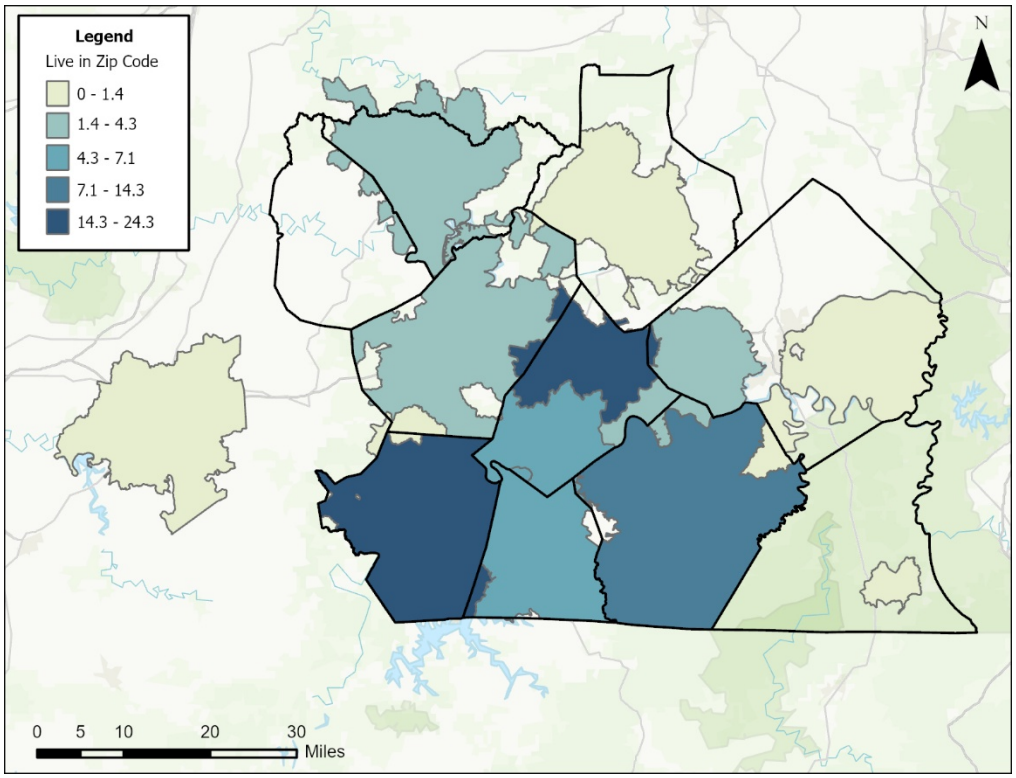


Exhibit 17: Public Survey Residency by Zip Code (Percent)

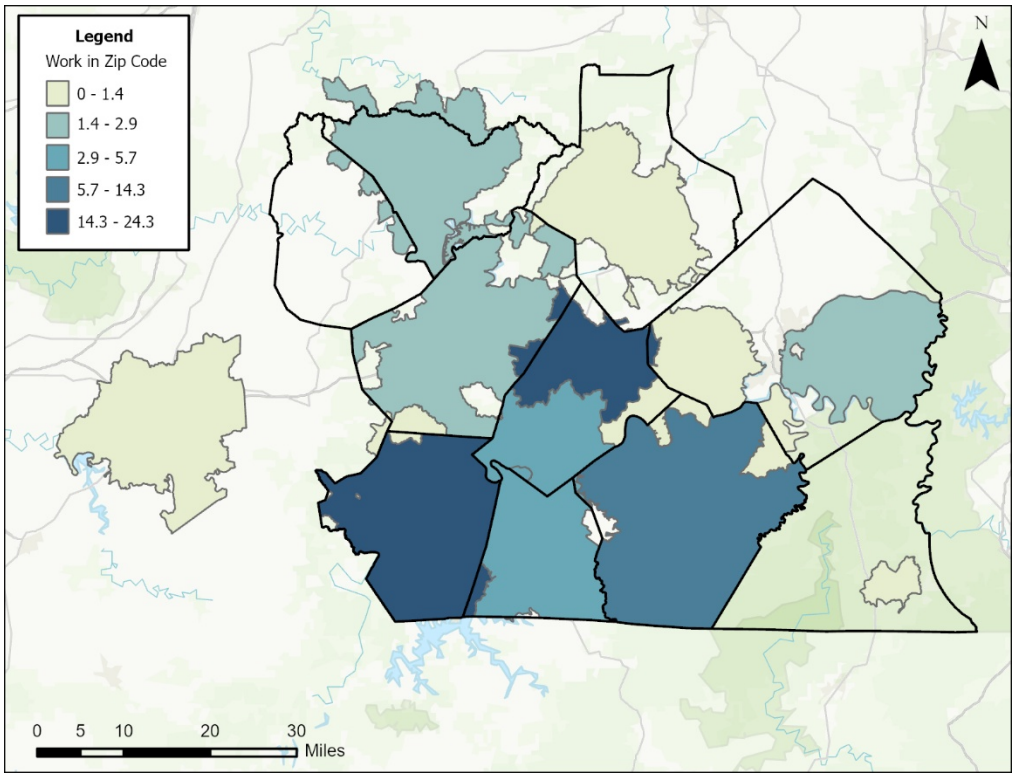


Exhibit 18: Public Survey Work Location by Zip Code (Percent)

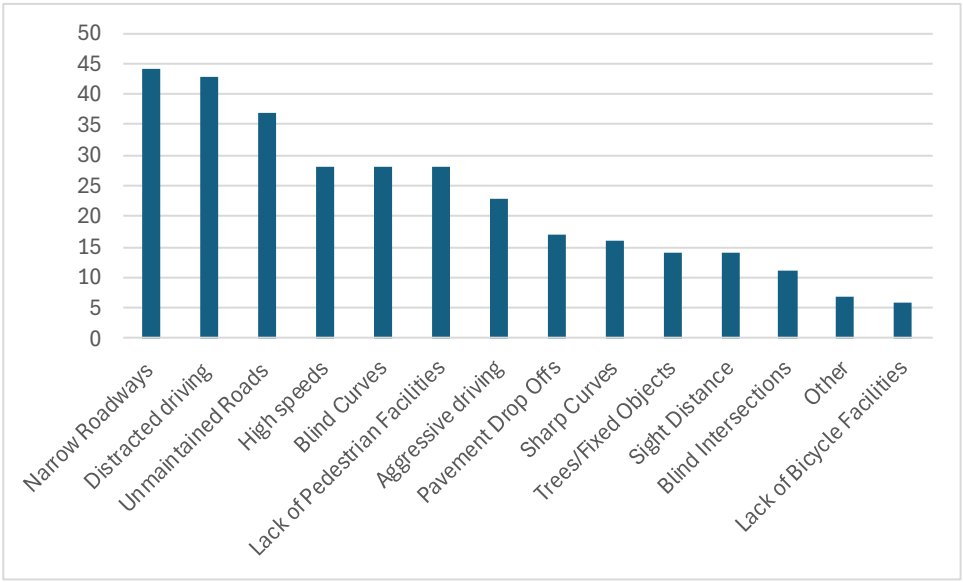


Exhibit 19: Public Survey Top Safety Issues

Road conditions, including narrow roadways and unmaintained roadways were ranked as the number 1 and number 3 top safety issues. Human factors including distracted driving and high speeds were ranked as number 2 and number 4.

A total of 47 comments were received in response to the question, "What is something that you would like this plan to focus on to make roadways safer in your area?" Survey responses reflect particular concern about the condition and width of existing roadways, especially county roads, side roads, and other rural routes. Approximately 28 percent of respondents identified roadway maintenance, pavement condition, or related roadside deficiencies, while 23 percent identified concerns associated with narrow roads, limited shoulders, narrow bridges, or roadway capacity. Respondents frequently cited deteriorated pavement, potholes, inadequate maintenance, narrow roadways and bridges, blind curves, and difficulty accommodating large trucks, agricultural equipment, and other wide vehicles.

Pedestrian safety was also a recurring concern, identified in approximately 19 percent of responses. Comments called for additional or better-maintained sidewalks and safer places to walk, particularly in communities and along roadways where pedestrians currently must walk immediately adjacent to traffic or within roadside areas. Intersection safety and traffic operations were identified in approximately 19 percent of responses, including concerns related to sight distance, traffic congestion, traffic signals, passing opportunities, and specific intersections along major corridors. Respondents expressed differing opinions regarding the use of roundabouts along US 127, with comments both supporting and opposing their installation.

Speeding, aggressive driving, and enforcement were identified in approximately 17 percent of responses. Respondents called for greater enforcement of existing speed limits, reduced speeds at selected locations, additional police presence or speed-control measures, and improvements intended to reduce aggressive driving and unsafe passing. Other concerns included bridge safety, guardrails, roadside erosion and drainage, vegetation encroachment, signage, and accommodations for heavy trucks. Overall, the comments emphasize maintaining and improving existing roads, addressing constrained roadway and bridge widths, providing safer pedestrian accommodations, improving intersections and traffic operations, and addressing speeding and other unsafe driving behaviors.

Top 5 Most Frequent Requests:

1. Improved road maintenance, pavement, and roadside conditions – 13 responses (27.7%). Repair potholes and broken pavement, resurface rough or deteriorated roads, pave or better maintain gravel roads, address roadside drainage and erosion, control vegetation, and provide adequate funding for county and local road maintenance.
2. Wider roads, shoulders, and bridges – 11 responses (23.4%). Widen narrow rural and county roads, provide additional shoulder width, improve narrow bridges,



increase roadway capacity where warranted, and better accommodate trucks, agricultural equipment, wide loads, and opposing traffic.

3. Expanded and improved pedestrian facilities – 9 responses (19.1%). Add and maintain sidewalks and provide safer places for pedestrians to walk, particularly in communities and along roadways where pedestrians currently must walk near traffic or within roadside ditches.
4. Safer intersections and improved traffic operations – 9 responses (19.1%). Address blind or hazardous intersections, improve sight distance, consider traffic signals or roundabouts where appropriate, provide adequate passing opportunities, and address congestion and operational concerns along major corridors.
5. Speed management, aggressive driving, and enforcement – 8 responses (17.0%). Increase enforcement of speed limits, address speeding and aggressive driving, consider reduced speed limits at high-risk locations, and evaluate additional enforcement or speed-management measures.

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

Location	County	Lat/Long	Comment
S. Main Street near Celina Road	Cumberland	-85.371497, 36.781173	Pavement is in terrible shape from recent state hwy work
Connecting Road near Sexton Fork Road	Cumberland	-85.280345, 36.713232	Dangerously narrow road
Sexton Fork Road near Connecting Road	Cumberland	-85.284153, 36.714299	Dangerously narrow roadway
Dockview Road	Wayne	-84.973677, 36.863501	Fence in Road hampering turn around
Shepherds Road	Wayne	-84.790268, 36.969296	Shepperd Road is in need of work blacktop preferred, or more gravel
State Branch Road at W. Hwy 914	Pulaski	-84.639291, 37.032068	Dangerous Intersection
State Hwy 2292 near Railroad St.	Pulaski	-84.610581, 37.078668	Pavement extremely uneven
Patterson Branch Road	Pulaski	-84.647621, 37.059871	Speed bumps/ whatever they are need adjusted - way too deep

Exhibit 20: Interactive Mapping Site Specific Issues

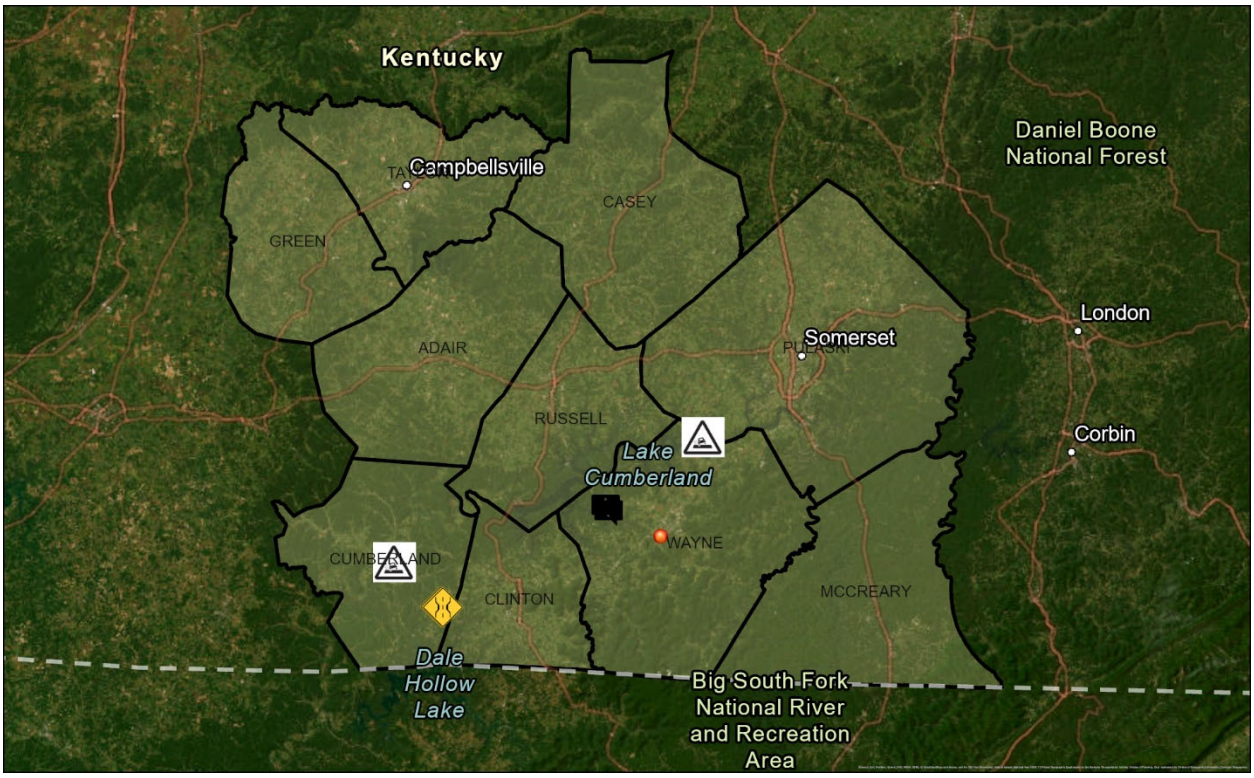


Exhibit 21: Public Survey Identified Site Specific Issues

Underserved Communities.

An important component of the Safe Streets and Roads for All (SS4A) Safety Action Plan process is ensuring that transportation safety needs are considered across all communities, particularly those that may face economic or other barriers to transportation investment. For purposes of the SS4A program, an Underserved Community is defined consistent with an Area of Persistent Poverty (APP) under the Infrastructure Investment and Jobs Act (IIJA), 49 U.S.C. § 6702(a)(1). Identifying these areas provides a consistent, data-driven method for considering equity as safety needs, priorities, and potential improvements are evaluated.

Areas of Persistent Poverty are identified using federal poverty data at the county and census tract levels. Under the statutory definition, qualifying areas include counties in which at least 20 percent of the population has lived in poverty over specified historical measurement periods, as well as census tracts where the poverty rate is at least 20 percent based on the 2014–2018 American Community Survey five-year estimates. This approach recognizes that persistent economic disadvantage may occur throughout an entire county or within individual communities that would not necessarily be apparent from countywide statistics alone.

Exhibit 22 illustrates the census tracts within the Lake Cumberland Area Development District (LCADD) that meet the federal definition of an Area of Persistent Poverty and are therefore considered underserved communities for the Safety Action Plan. As shown on the map, underserved areas are widespread throughout the region rather than concentrated in only a few locations. Approximately 79 percent of the LCADD population resides within areas identified as underserved, and these areas encompass approximately 83 percent of the region's total land area. As a result, the underserved-community designation is representative of much of the LCADD region rather than a limited subset of communities.

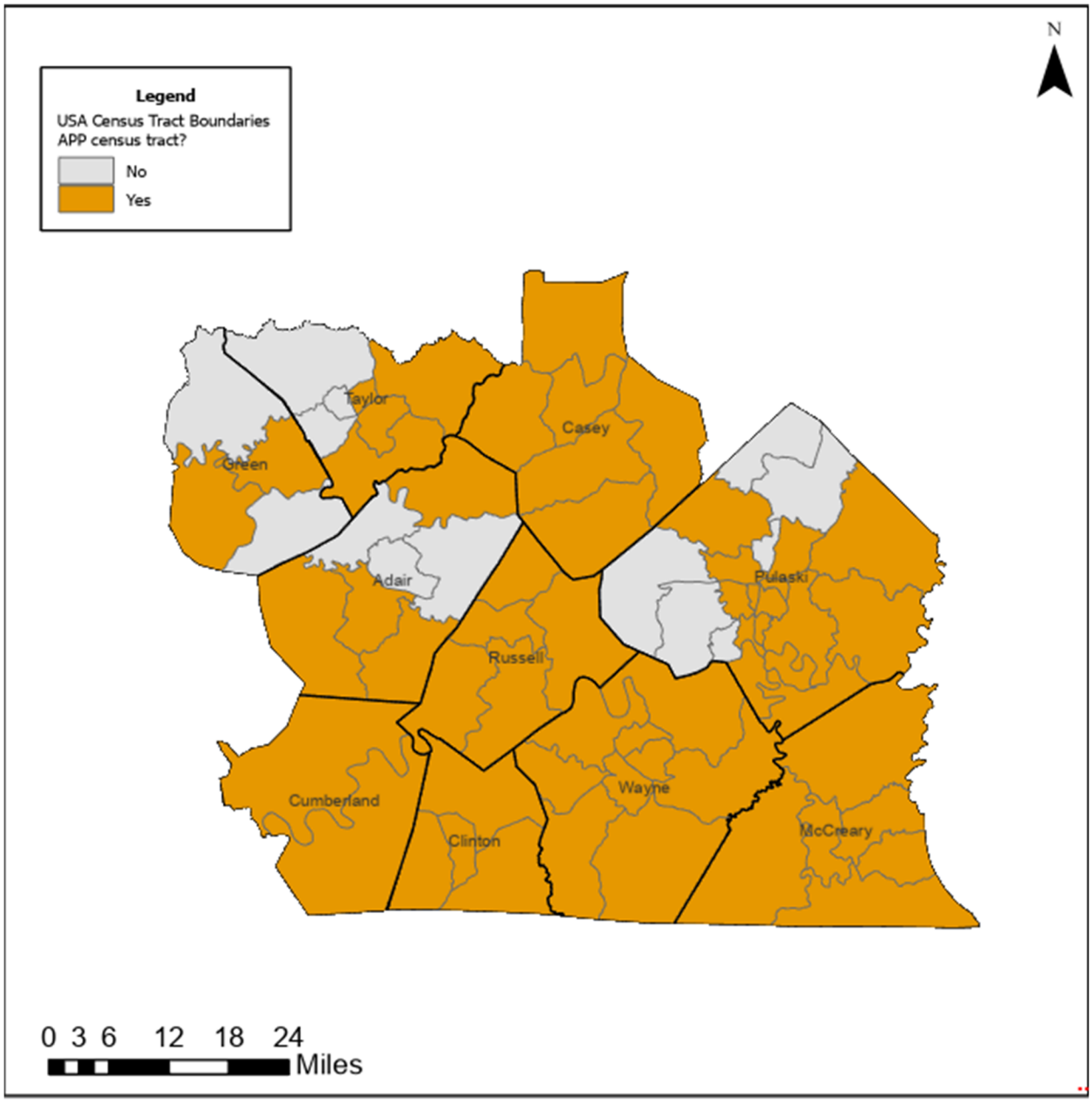


Exhibit 22: Underserved Communities by Census Tract

The map and underserved-community designation can be used by LCADD and local agencies as an additional consideration when evaluating and prioritizing transportation safety projects. When projects have similar safety needs or expected benefits, the designation can help identify projects that also serve populations experiencing persistent economic disadvantage. Local agencies may also use the map to document whether proposed projects are located within or provide benefits to underserved communities when pursuing state and federal transportation funding opportunities. This information can support grant applications for programs that include equity, economic disadvantage, or benefits to underserved communities among their evaluation or eligibility criteria.

However, the designation should be considered one component of project prioritization rather than a primary means of distinguishing among projects within the LCADD region. Because approximately four-fifths of both the region's population and land area are classified as underserved, many potential safety projects will receive the same designation. Consequently, the designation alone provides relatively limited differentiation among projects. Project selection and prioritization should continue to be driven primarily by demonstrated safety need—including crash history, roadway and intersection characteristics, identified systemic risks, vulnerable road-user needs, and public and stakeholder input—while the underserved-community designation provides additional context and can help document the broader benefits of proposed safety investments.

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 does 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 the LCADD, 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. Edgeline striping is recommended on all paved roadways, in which the pavement condition is sufficient to support striping (Present Serviceability 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 zones 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 zones 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 narrower 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-M for each county. RSA and recommendation information is also available in digital format and can be accessed at https://kyt2.uky.edu/LCADDSAP.

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. Lake Cumberland Area Development District has adopted a vision zero statement, contained in Appendix N, that may be used as an example for other communities.
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 distracted 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.

IMPLEMENTATION STRATEGY

The preceding sections of this plan document the safety challenges facing the LCADD, the methodology used to identify and prioritize focus roadways, the countermeasures recommended to address identified hazards, and the policy changes proposed to support long-term safety improvements. This section builds on that foundation by outlining an initial action plan for deploying those strategies, projects, and programs over time.

This plan has documented and prioritized many safety challenges across the LCADD region. Based on the data, agency and stakeholder input, and best practices, it has also identified potential strategies and projects that would address these challenges. The focus continues to be on reducing high-severity crashes across the community.

This section outlines an initial action plan for deploying potential strategies, projects, and safety programs. The actions are proposed to be implemented in four time ranges: short-term (0–3 years); mid-term (4–6 years); long-term (7+ years); and ongoing. They cover the main intervention categories: infrastructure, behavioral safety, operational safety, and policies and procedures.

The implementation of each project, strategy, or program is dependent on funding availability. It is also dependent on the support of all relevant agencies and each county's capacity to execute each action. In cases where the county does not have primary authority for implementing the action, they will need to play a supporting role.

Time ranges are defined as follows:

- Short-Term (0–3 years): Actions that can be initiated using existing county forces, maintenance programs, or low-cost capital projects. These represent the highest-priority items and should be set in motion as soon as practicable following plan adoption.
- Mid-Term (4–6 years): Actions requiring capital programming, coordination with KYTC, or policy adoption by governing bodies. These should be incorporated into the Regional Transportation Program and Six Year Road Plan as funding becomes available.
- Long-Term (7+ years): Larger capital projects and structural roadway improvements on the highest-crash focus roads. These should be pursued through SS4A implementation grants or other federal and state funding programs.
- Ongoing: Actions that are continuous in nature, including annual crash data review, public education campaigns, enforcement programs, and routine maintenance practices.



Exhibit 23 summarizes the recommended actions by intervention category, time range, and lead entity. Detailed project recommendations for each are provided in Appendices D–M.

Project	Short-Term (0–3 yrs)	Mid-Term (4–6 yrs)	Long-Term (7+ yrs)	Ongoing	Lead Entity
Infrastructure					
Edgeline striping on paved focus roadways	✓				County & City Road Depts.
Horizontal alignment signing on focus roadways	✓				County & City Road Depts.
Object markers at fixed hazards within 5 ft of road edge	✓				County & City Road Depts.
Shoulder improvements / pavement edge drop-off mitigation		✓			County & City Road Depts.
Wet weather countermeasures (drainage, delineation)		✓			County & City Road Depts.
Guardrail assessment, repair, and end treatment upgrades		✓			County & City Road Depts.
Bridge and culvert safety upgrades (guardrail, width parity)			✓		County & City Road Depts.
Vegetation management along focus roadways	✓			✓	County & City Road Depts.
Capital improvements on Top 5 focus roads per county (Appendices D-M)		✓	✓		County Road Depts. / LCADD
Behavioral Safety					
Public education campaigns — distracted and aggressive driving (NHTSA / KOHS)	✓			✓	LCADD / KOHS / Law Enforcement
High-visibility enforcement through KOHS High-Five Rural Safety Program	✓			✓	Local Law Enforcement / KOHS
Speed management outreach on high-crash corridors		✓		✓	LCADD / Local Law Enforcement
Operational Safety					
Advanced intersection warning signs at high-crash locations	✓	✓			County & City Road Depts.
Road Safety Assessments (RSAs) on additional county roadways		✓	✓		LCADD / KTC
Annual crash data review and focus roadway re-ranking				✓	LCADD / KTC
Policies and Procedures					
Adopt and implement the Safety Action Plan (Policy Rec. 1)	✓				County Fiscal Courts / City Councils
Vision Zero statement adoption by all member agencies (Policy Rec. 2)	✓				County Fiscal Courts / City Councils
Minimum road standards adoption (Policy Rec. 3)		✓			County Fiscal Courts / City Councils
Right-of-Way encroachment policy (Policy Rec. 4)		✓			County Road Depts. / City Councils
Full Safety Action Plan update (crash re-analysis, roadway review)				✓	LCADD / KTC

Exhibit 23: Implementation Plan

Progress toward completing these actions will be tracked as part of the annual plan review described in Policy Recommendation 1 and the outcome monitoring framework described in the Progress and Transparency section below.

PROGRESS AND TRANSPARENCY

Measuring the effectiveness of this Safety Action Plan over time is essential to advancing the region's goal of zero roadway fatalities and serious injuries. The LCADD and its member agencies are dedicated to the success of this Safety Action Plan. Effective communication, continuous monitoring, and evaluation are crucial to eliminating fatalities and serious injury crashes across the region. Maintaining ongoing transparency through public accessibility and clear communication of outcome data is also essential.

This section outlines the plan for measuring progress, maintaining transparency, and continuously incorporating feedback to enhance this road safety initiative.

Safety Performance Measurement

Safety improvements are measured using region-wide performance metrics to assess overall progress, as well as project-specific performance measures to promote effective implementation and document safety impacts. The following sections outline the annual progress reporting structure and proposed metrics.

Annual Safety Performance Measures

Crash Severity:

The LCADD and its member county road departments will monitor the total number of crashes annually by crash severity: Fatal, Suspected Serious Injury, Suspected Minor Injury, Possible Injury, and No Apparent Injury. In addition, the crash rate for the total number of crashes will be estimated. The crash rate is the total number of crashes per vehicle miles traveled (VMT) on county roads within the LCADD region.

Fatal and Suspected Serious Injury Crashes:

Evaluating fatal and suspected serious injury crash trends is a key focus of this plan. Fatal and suspected serious injury crashes will be monitored annually and include tracking the total number of such crashes as well as the crash rate per VMT on county roads. The five-year crash record (2020–2024) established in this plan serves as the baseline for measuring progress.

Vulnerable Road User Crashes:

Crashes involving vulnerable road users (pedestrians, bicyclists, and other non-motorized users) will be monitored annually, with a particular focus on fatal and suspected serious injury crashes. Because a disproportionate share of severe crashes can involve vulnerable road users, this metric is critical for assessing whether safety improvements are benefiting all users of the roadway system.

Community Focused Monitoring:

The LCADD will assess the safety performance metrics above at the county level and, where data permit, at a sub-county geographic level to explore underlying factors contributing to crash trends. By comparing metrics across the ten member counties and against region-wide results, patterns can be identified that allow for tailored solutions and targeted resource allocation. Focus will be given to crash trends in communities identified as underserved within the region, as noted in Appendices D–M.

Project Specific Performance Measures:

The Safety Action Plan recommends improvements using a systemic approach applied across focus roadways from each county. Monitoring focuses on project-specific improvements on the focus roadways identified through the crash analysis and Road Safety Assessments (RSAs). Key project-specific measures include:

- Safety Improvement Projects Implemented: Performance measures will track the number of safety improvement projects constructed from the potential improvements listed in the Recommended Improvements section and detailed in Appendices D–M. Annually, the total number of safety improvements implemented on focus roadways across the region will be measured and reported.
- Crash Trends at Project Locations: When a safety improvement project has been constructed, pre-construction and post-construction crash data will be collected to document the realized crash reduction benefit. Crash trends will be measured for each project specific improvement and will inform decision-makers on future safety investment priorities. This performance measure focuses on fatal and suspected serious injury crashes at each improved location, using a minimum three-year post-construction observation period.
- EPDO Score Trends on Focus Roadways: The Equivalent Property Damage Only (EPDO) score developed for each focus roadway during this plan's analysis provides a severity-weighted crash baseline. Changes in EPDO scores on focus roadways, particularly the Top 5 roads per county identified in Appendices D–M, will be tracked at each full plan update to assess whether improvements are reducing crash severity over time.
- Performance Measures Summary: Exhibit 23 below consolidates all performance measures, baselines, targets, tracking frequency, data sources, and responsible parties.

Performance Measure	Baseline (2020–2024)	Target	Frequency	Data Source	Responsible Party
Annual Safety Performance: Crash Severity					
Total crashes by severity (KABCO)	2,507 total (all county roads)	Year-over-year reduction	Annual	KSP Crash DB	LCADD
Crash rate: total crashes per VMT on county roads	To be determined at first annual review	Measurable decrease over plan period	Annual	KSP / KYTC VMT	LCADD
Annual Safety Performance: Fatal and Serious Injury Crashes					
Total fatal and suspected serious injury (KA) crashes on county roads	22 fatalities; 205 KA-level crashes (2020–2024)	10% reduction by 2030; eliminate by 2050	Annual	KSP Crash DB	LCADD / County & City Road Depts.
Fatal and serious injury crash rate per VMT	To be established at first annual review	Measurable decrease over plan period	Annual	KSP / KYTC VMT	LCADD
Annual Safety Performance — Vulnerable Road User Crashes					
Fatal and serious injury crashes involving VRU's	Established in county appendices (D–M)	Year-over-year reduction	Annual	KSP Crash DB	LCADD / County & City Road Depts.
Community-Focused — Geographic and Equity Distribution					
Fatal and serious injury crash distribution by county	Established per county in Appendices D–M	Proportional improvement across all counties	Every 3 years	KSP Crash DB	LCADD
Crash trends in identified underserved communities	Noted per county in Appendices D–M	No widening of safety gap vs. region-wide trends	Every 3 years	KSP / Census	LCADD
Project-Specific Performance — Implementation					
Number of RSA-recommended improvements implemented on focus roadways	0 (plan initiation)	25% within 3 years; 60% within 6 years	Annual	County Road Depts.	LCADD / County Road Depts.
Miles of focus roadway with edgeline striping installed	To be established at project initiation	100% of eligible paved focus roads	Annual	County Road Depts.	County Road Depts.
Horizontal alignment signs installed on focus roadways	0 (new program)	All recommended locations per Appendices D–M	Annual	County Road Depts.	County Road Depts.
Member agencies that have adopted a Vision Zero statement	0 of 10	All 10 within 3 years	Annual	LCADD	LCADD
Project-Specific Performance — Crash Trends at Project Locations					
Pre- and post-construction fatal and serious injury crashes at improved locations	Pre-construction baseline per project	Documented reduction at each improved location	Per project (3-yr post)	KSP Crash DB	LCADD
EPDO score change on Top 5 focus roads per county	Established per county in Appendices D–M	Measurable decrease following improvements	Every 3 years	KSP / KYTC	LCADD

Exhibit 24: Performance Measures Summary

Monitoring Structure

Progress will be evaluated at two intervals:

- Annual review: The LCADD Regional Transportation Committee (RTC) will review updated crash data from the Kentucky State Police database each year to assess trends in fatal and serious injury crashes on county roads. The RTC will also track the status of near-term project implementation and report progress to member agencies.
- Full plan update (every 3 years): A comprehensive update will refresh the crash analysis, reassess focus roadways, update EPDO scores, and revise the implementation timeline based on completed projects and emerging safety needs. This update will be conducted in partnership with KYTC and the University of Kentucky Transportation Center (KTC), consistent with the methodology used in this plan.

Transparency and Reporting

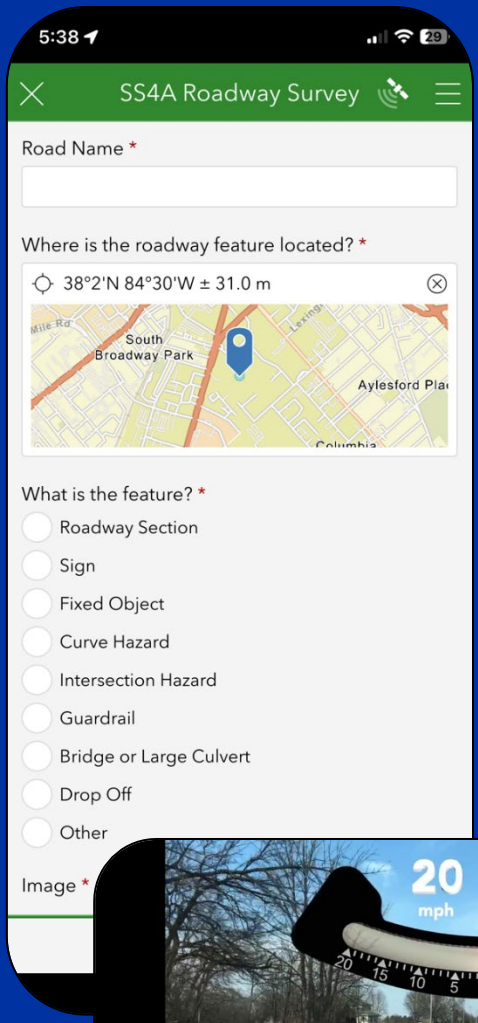
To maintain transparency and accountability, the LCADD will make progress information publicly available through the following mechanisms:

- Annual progress summaries presented to the RTC and made available to member agency governing bodies.
- Updated project tracking information maintained on the LCADD SAP digital platform
- Full plan update documents published and distributed to all member counties and cities upon completion of each three-year review cycle.
- Reporting to USDOT as required under the SS4A grant program, including any required performance reports documenting progress toward the outcome measures identified in Exhibit 23.

This monitoring framework ensures that the Safety Action Plan remains a living document and one that drives measurable safety improvements over time and supports the LCADD's long-term commitment to eliminating fatalities and serious injuries on local roadways.



APPENDIX A: ROAD SAFETY ASSESSMENT DATA COLLECTION GUIDE





KY Area Development District

SS4A Data Collection Procedures

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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).

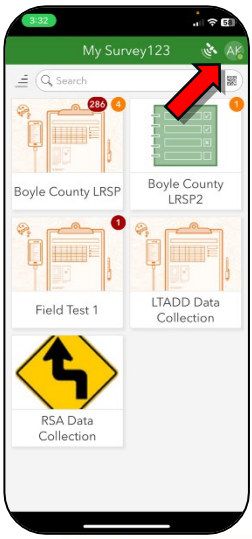


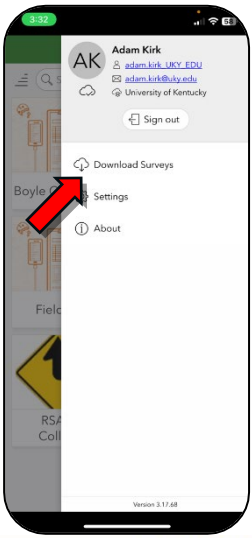
4. Open and Sign into the ArcGIS Survey123 app. Survey123 licenses are managed by the ADD. If there are issues signing in please contact your local ADD for further assistance.



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.





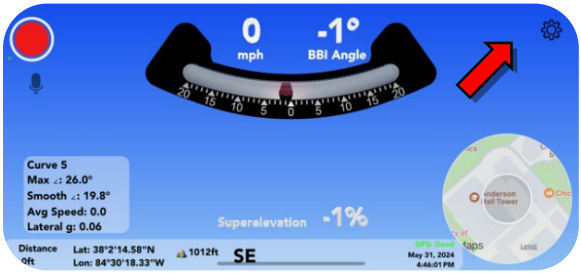


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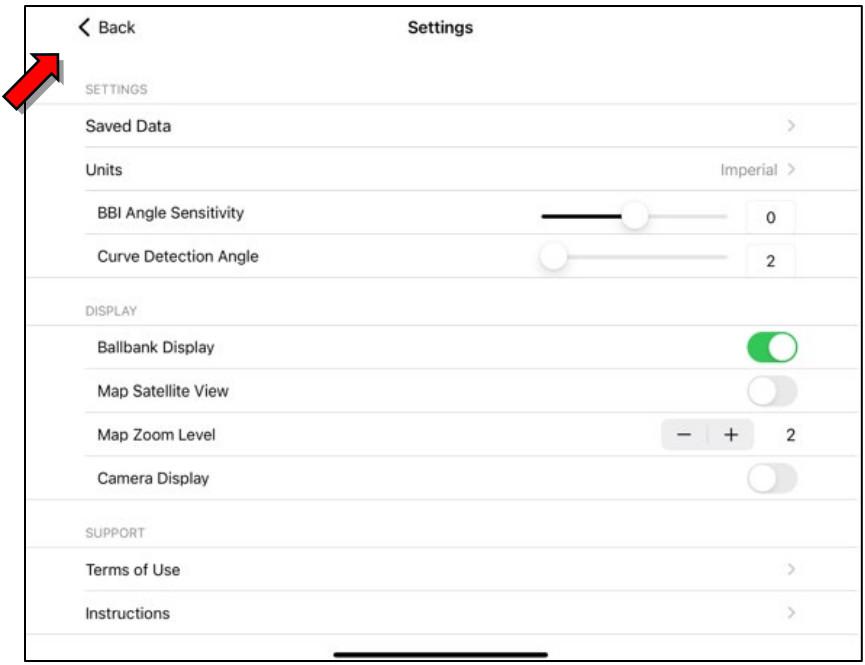
BALLBANK APP

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

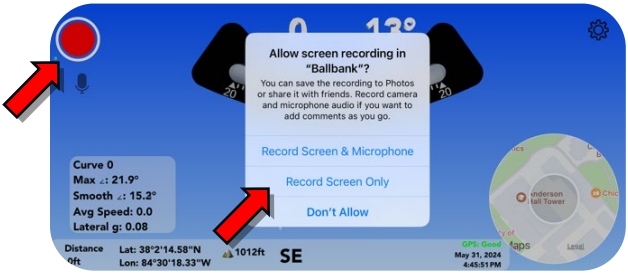
1. To set up the app click on the settings (gear) button in the top right of the screen.



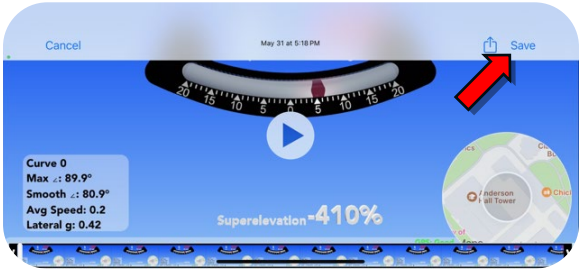
2. Configure the settings to match those shown in the figure below. Once completed, hit the back button.



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.”

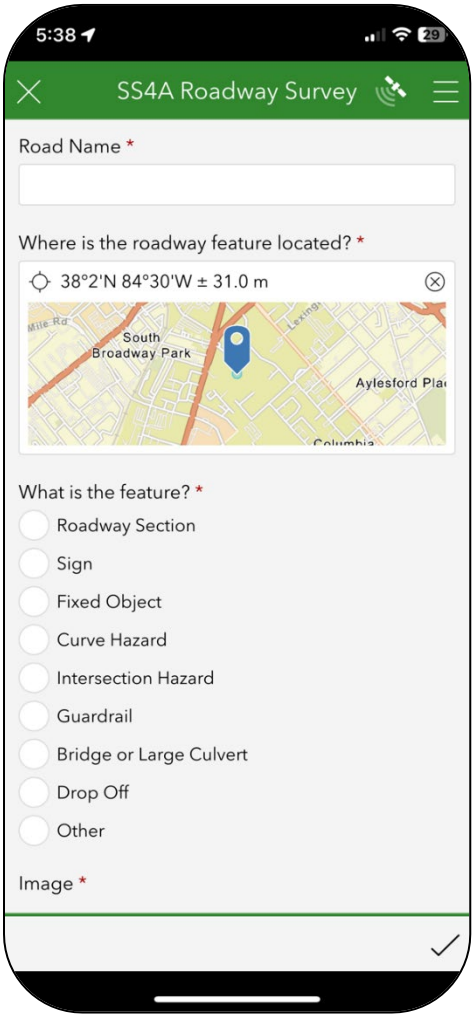


8. Curve data for this roadway has been completed and you can move to the next data collection element or roadway.

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.

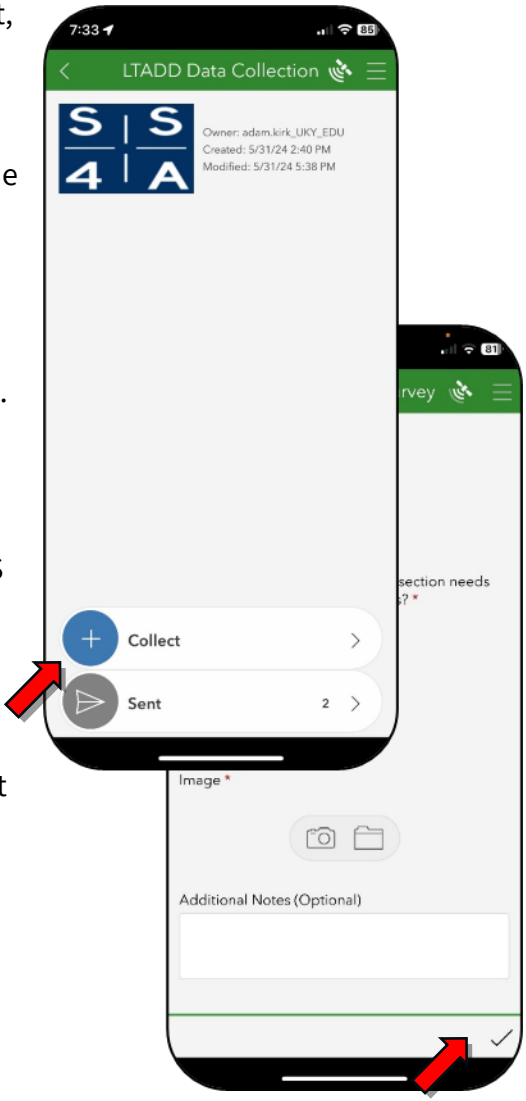


1. General Roadway Information such as condition and width
2. Road Signs
3. Fixed Objects within 5 feet of the roadway
4. Curve Hazards
5. Intersection Hazards
6. Guardrail
7. Bridge / Culvert locations
8. Edge Drop Offs
9. Other hazards noted by the survey team.

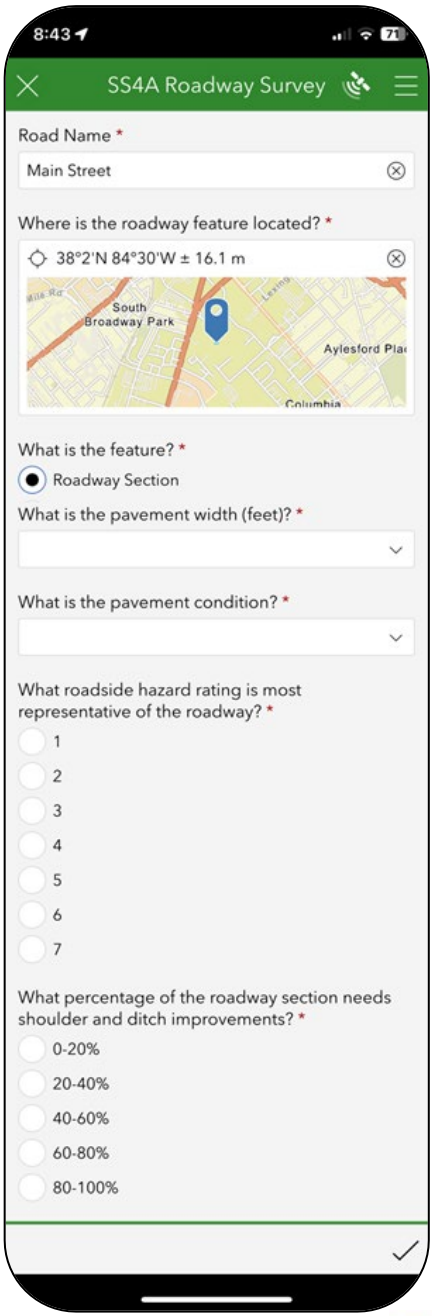
Additional information on each survey item can be found in their respective sections in this guide.

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

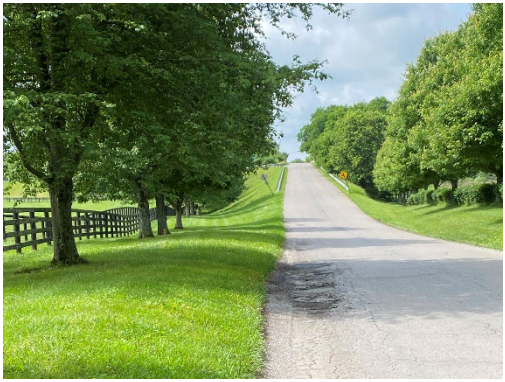
– Clear zone 5 to 10 ft
– Sideslope 3:1 to 4:1.
– May have guardrail (5 to 6.5 ft from road).
– Exposed trees, poles, or other objects (~10 ft from road).
– Marginally forgiving, but increased chance of a roadside collision.



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.

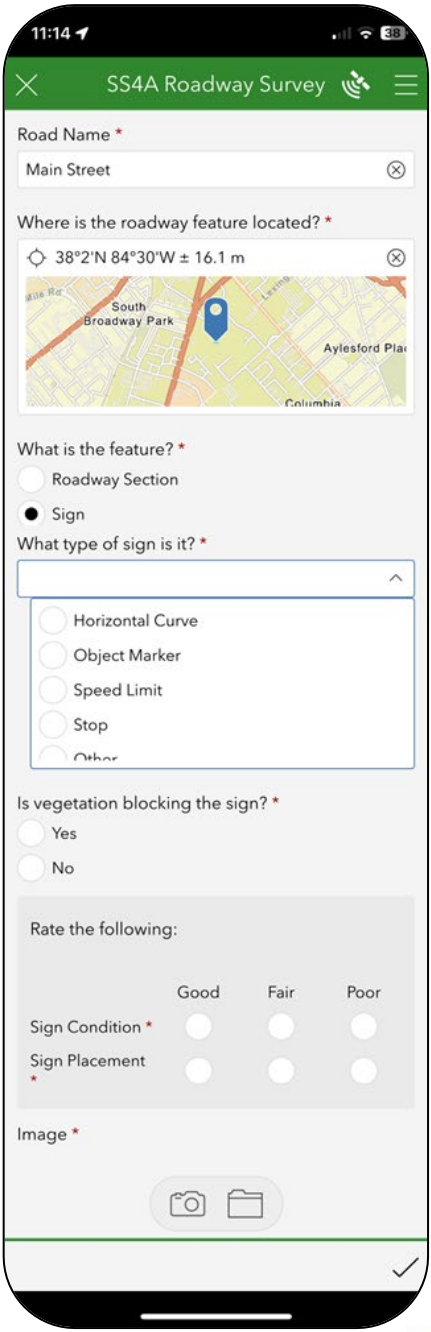
1. Edge drop off from pavement surface to roadside less than 3 inches.
2. Slope flatter than a 3:1 slope from road edge to ditch.
3. Adequate ditch width and depth to carry surface water. Not significantly impeded by debris and/or sediment.





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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.



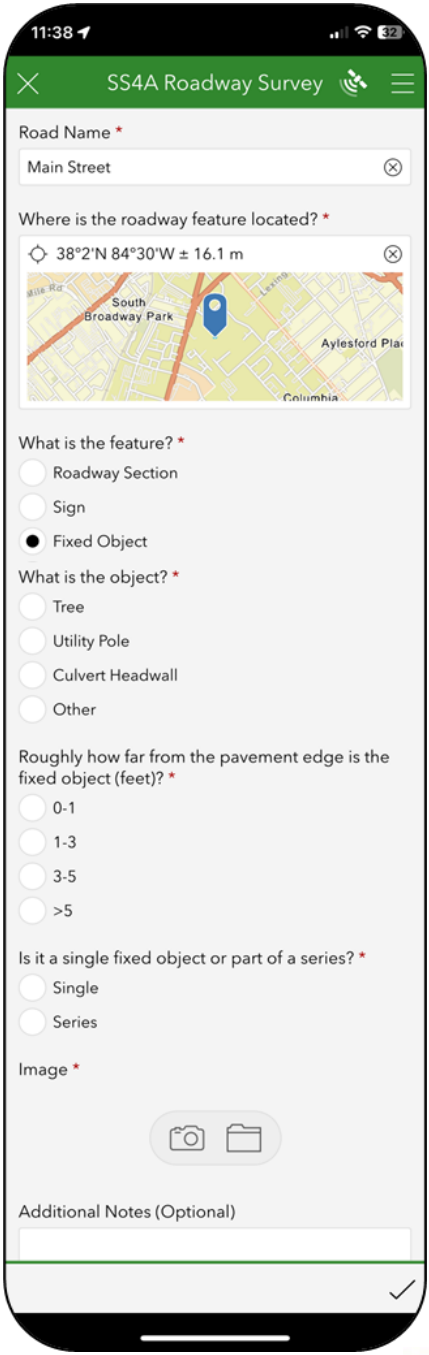
Fair. Some visible deterioration, not impacting legibility of the sign. Some common forms of sign deterioration are minor bending, cracking, fading, peeling, rusting, or vandalism.



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?



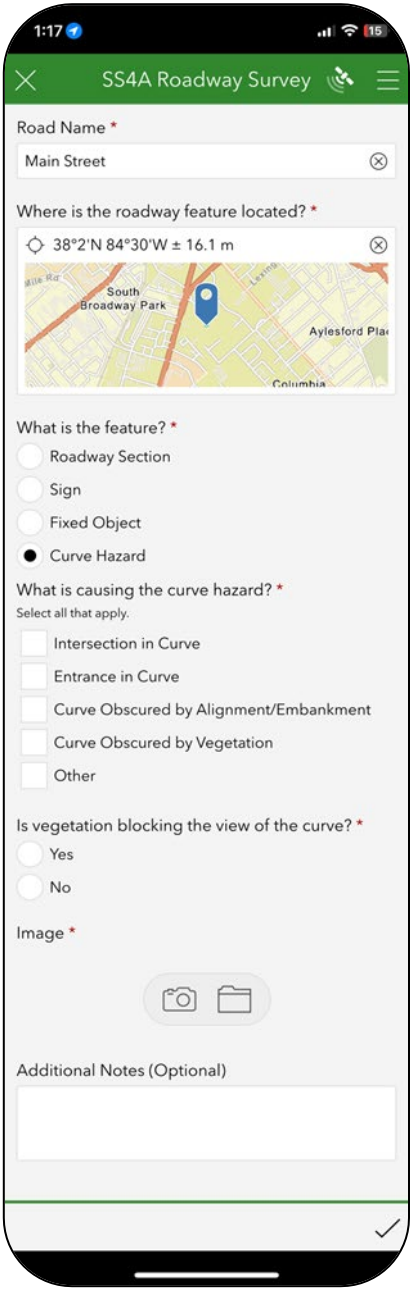
If there is just one object on the side of the road you are evaluating, select single. If there are a series of the same fixed object, select series. For example: A row of trees within 2 ft. of the pavement edge would be a series, a single tree within 2 ft. of the pavement edge would be a single fixed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

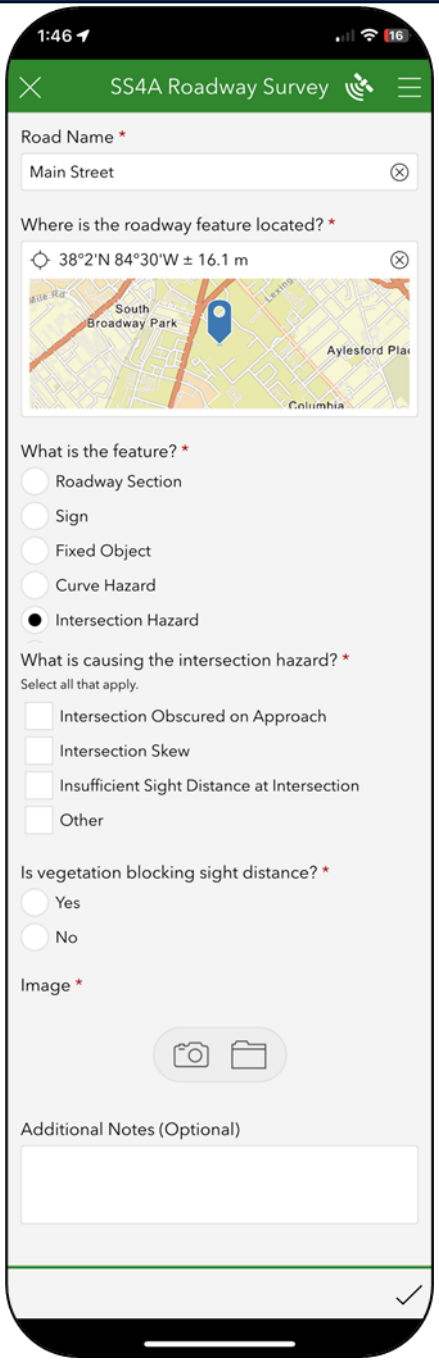


Intersection in Curve



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?

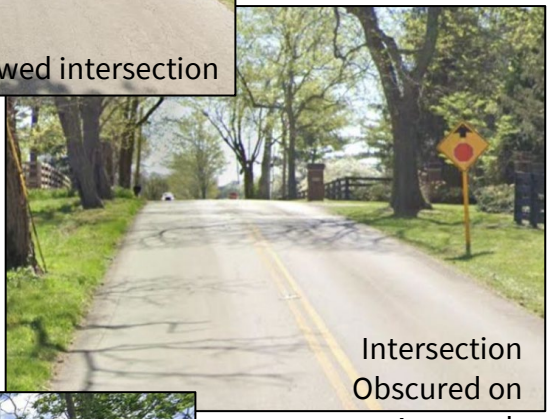
Log any hazards identified on the next page. If there is something about the intersection that appears hazardous but not listed, log it as other and provide a description of the issue.

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SURVEY123-Intersections



Skewed intersection



Intersection Obscured on Approach



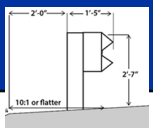
Restricted Sight Distance



Restricted Sight Distance

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SURVEY123-Guardrail



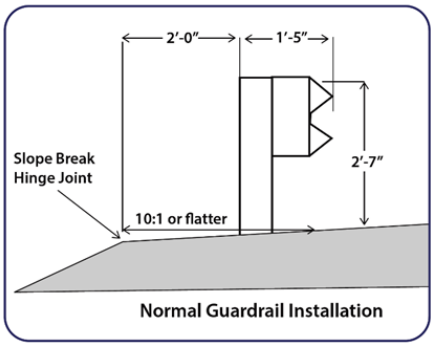


Log each guardrail segment along the roadway.

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.

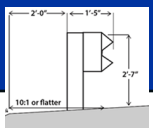


Good. Meets height requirements and no noticeable damage.

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

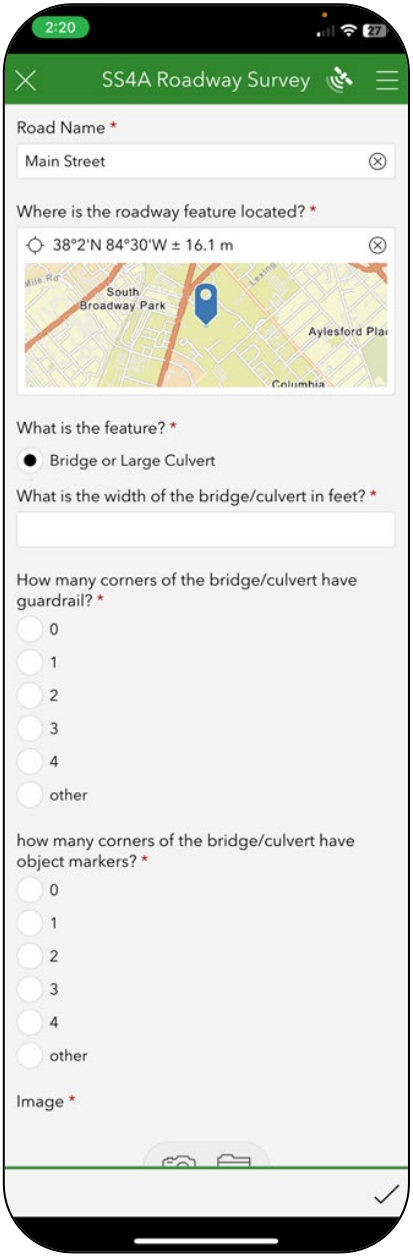
Indicate whether all, some, or none of the end treatments meet current guidelines. The three types of end treatments that meet current guidelines from the AASHTO Manual for Assessing Safety Hardware are shown below.


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

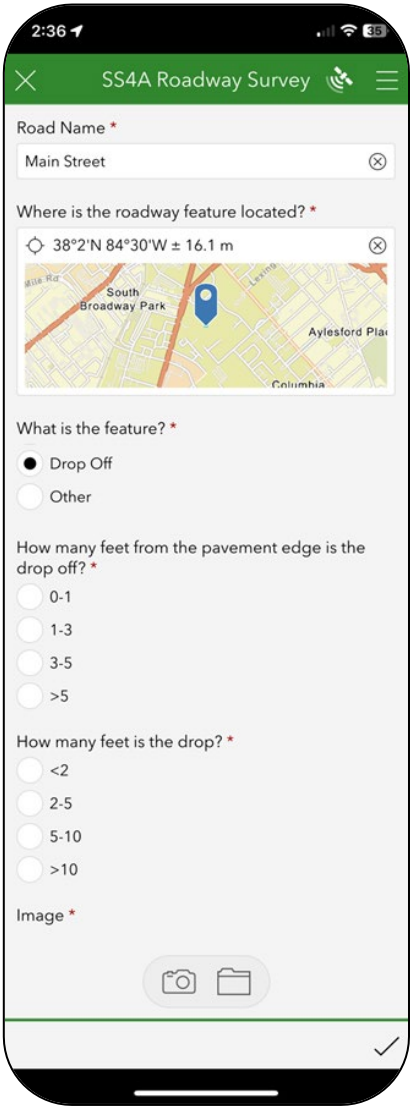


Large Box Culvert



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.

APPENDIX B: ROADWAY IMPROVEMENT GUIDE

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

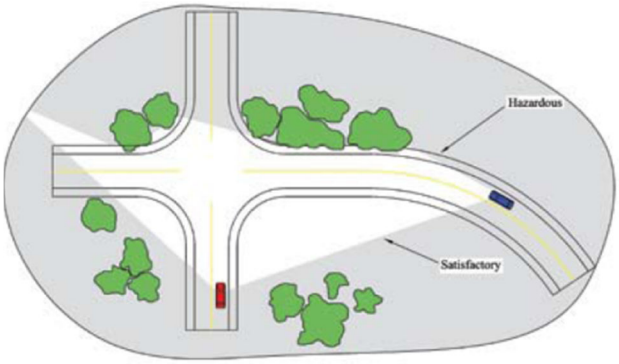
Fixed objects in the clear zone include trees, utility poles, headwalls, signs, guardrails, etc. These fixed objects often result in fatal crashes.

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.

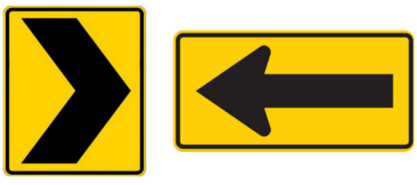
Horizontal alignment signing is used to advise motorists of changes in the roadway alignment consisting of advance warning signs, guidance through curve, and advisory speed plaques.

# 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.

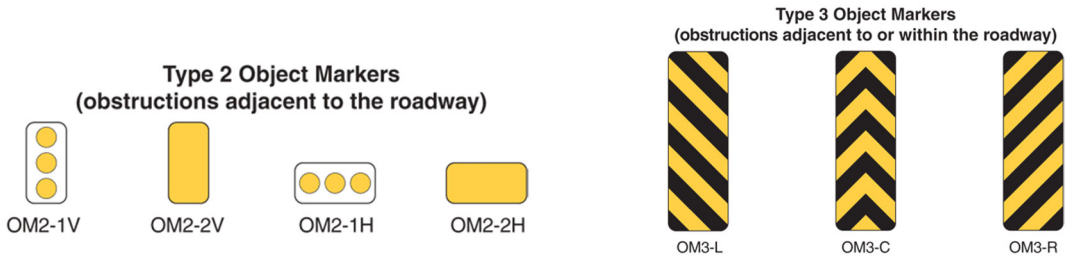
Learn more in the Horizontal Alignment TapIT! Sheet.

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.

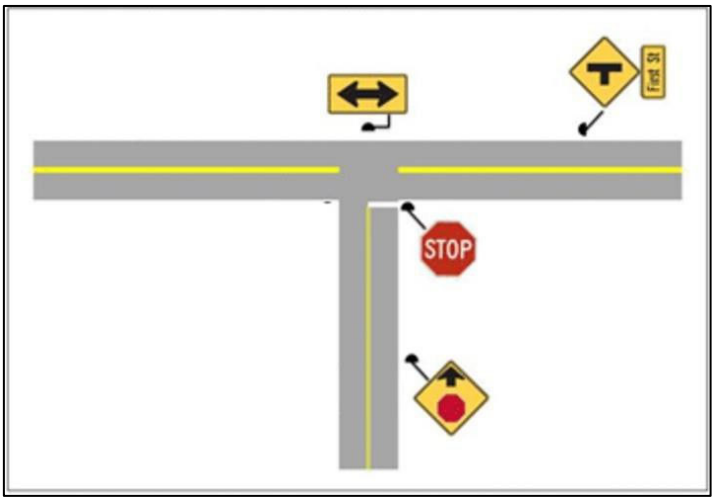
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Stop-Controlled Intersections

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

Lake Cumberland Area Development District

The Lake Cumberland ADD is currently developing a Safety Action Plan for Adair, Casey, Clinton, Cumberland, Green, McCreary, Pulaski, Russell, Taylor, and Wayne 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.

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.

LCADD Safety Survey

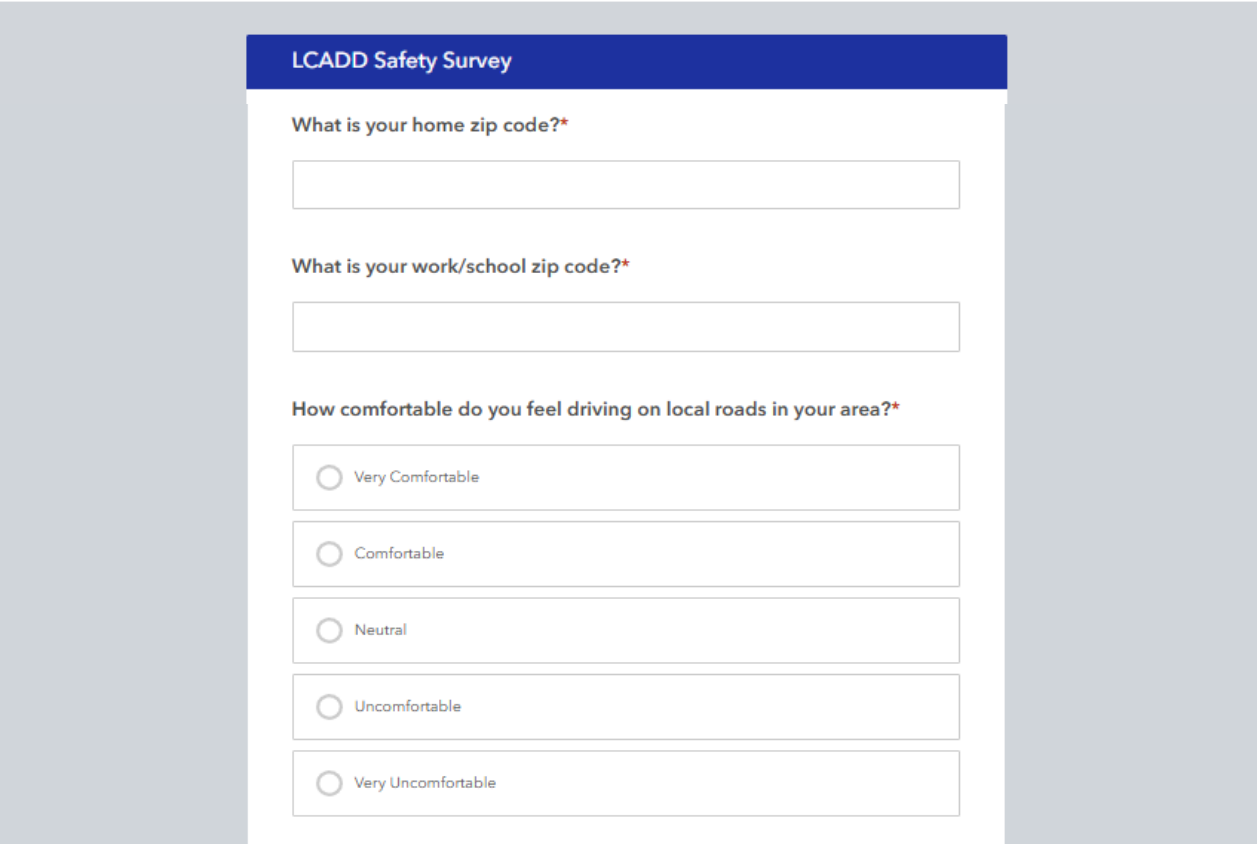
How old are you?

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

What is your employment status?*

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

Z



LCADD 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

LCADD 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

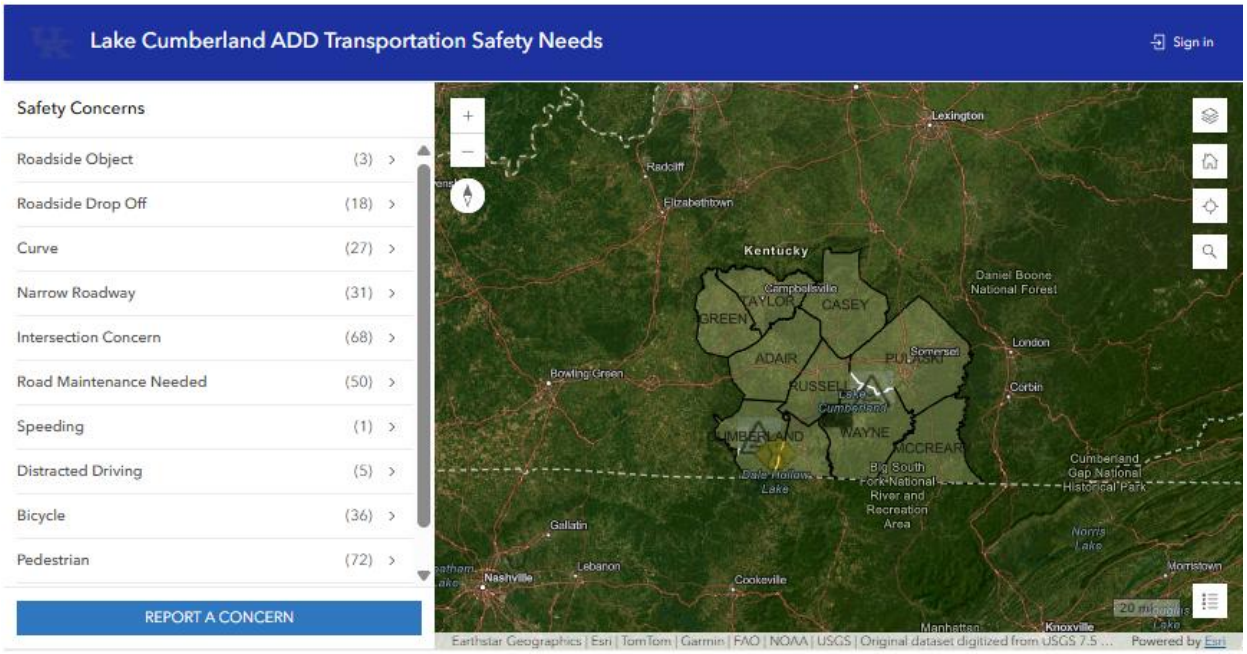
Powered by ArcGIS Survey123

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.



APPENDIX D: ADAIR COUNTY SAFETY ACTION PLAN

Adair County Overview

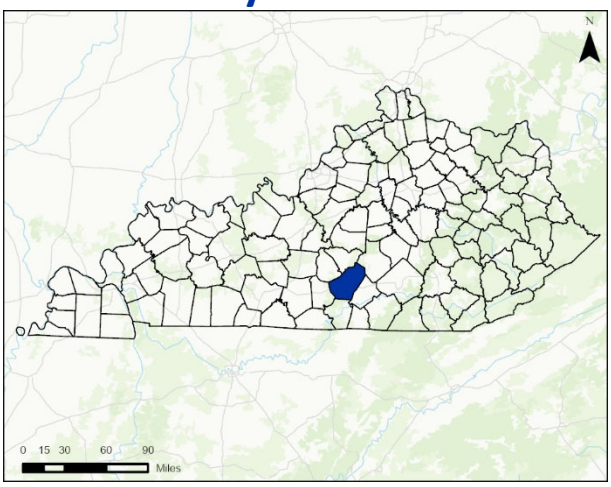


Exhibit Adair-1: Location Maps

Key Information Table Adair County	
Population	19,264
Population in Persistent Poverty	29%
Underserved Community	**Yes**
Fatalities (All Roads)	23
Fatalities (County Roads)	3
Fatality Rate per 100,000 persons	**119.39**
County Road Mileage	574.3
State Road Mileage	280.9
Total Mileage	**855.2**

Exhibit Adair-2: Key Information

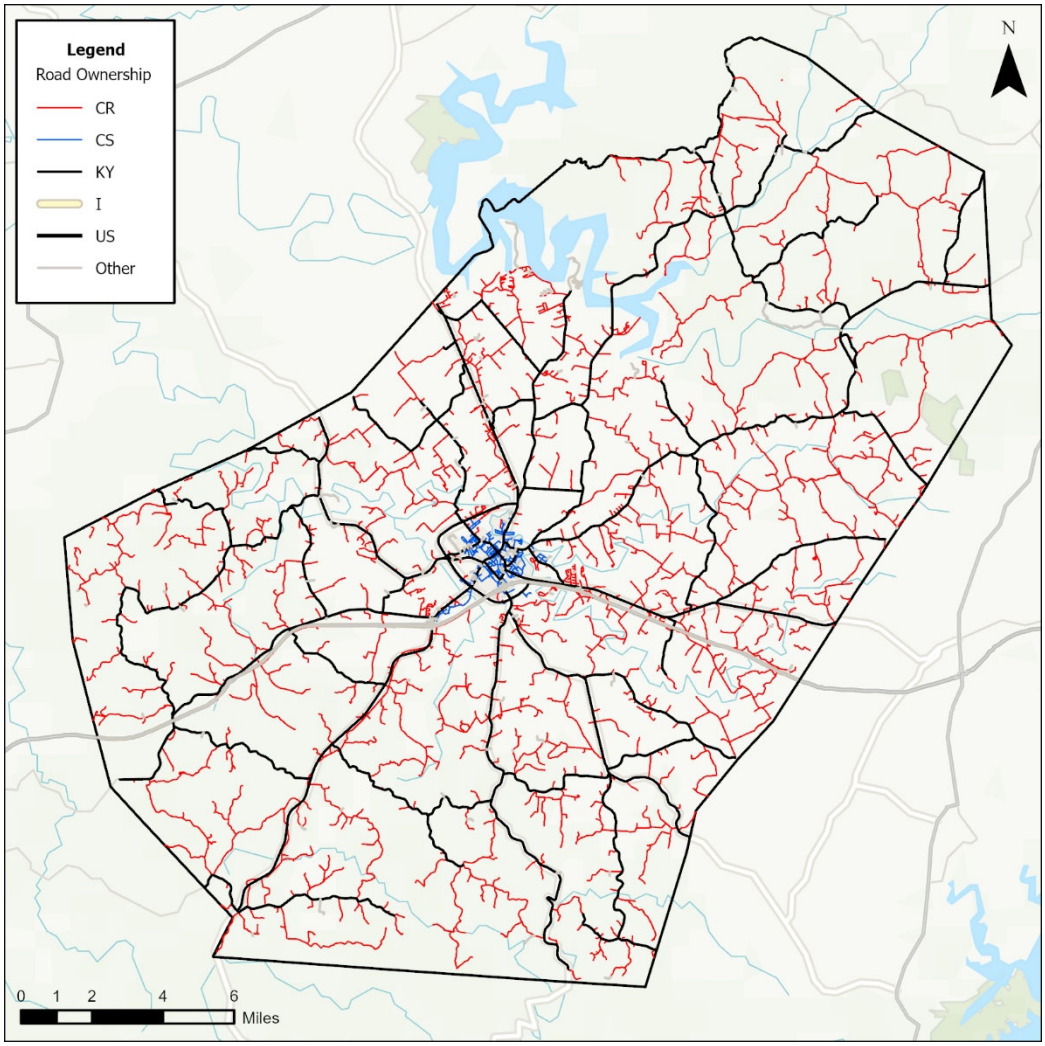


Exhibit Adair-3: Map of County Roadways

Crash Analysis

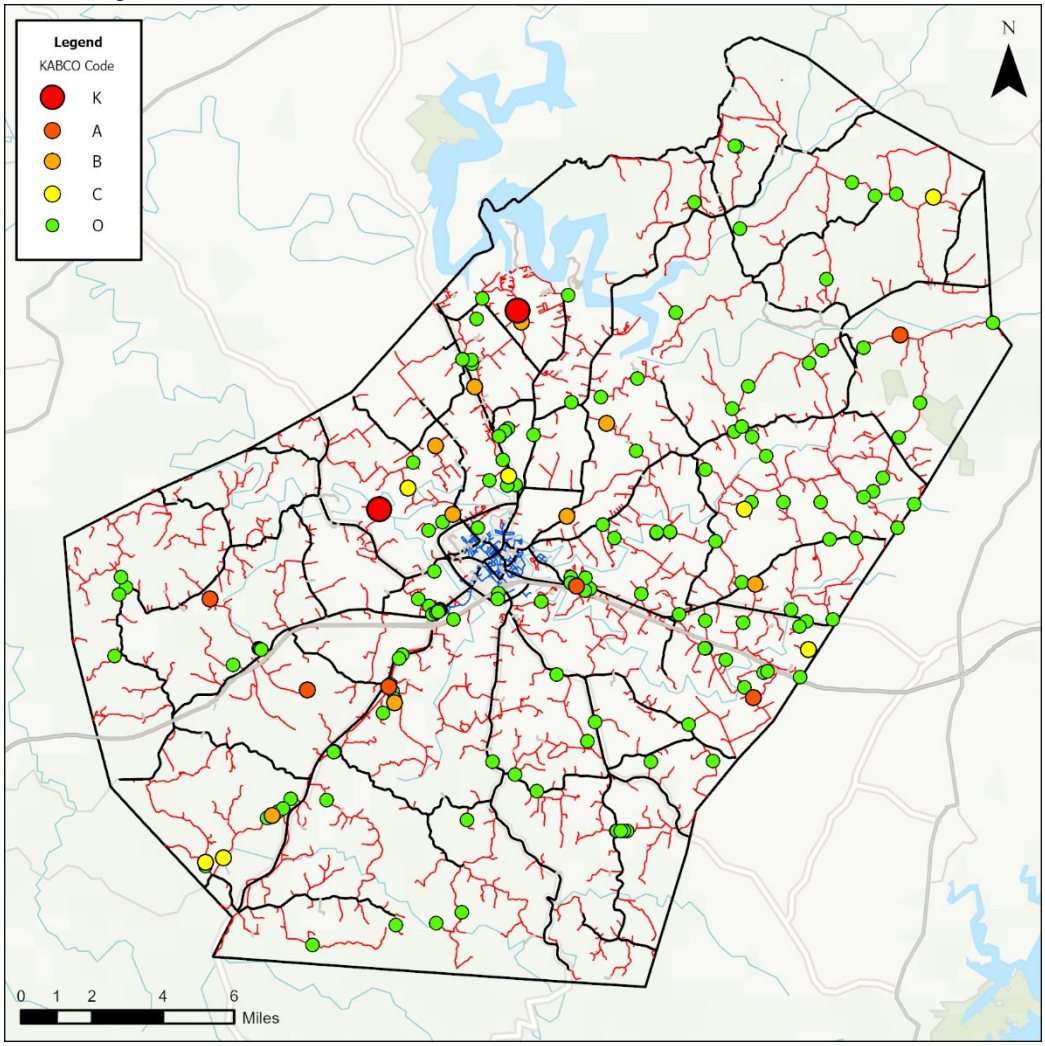
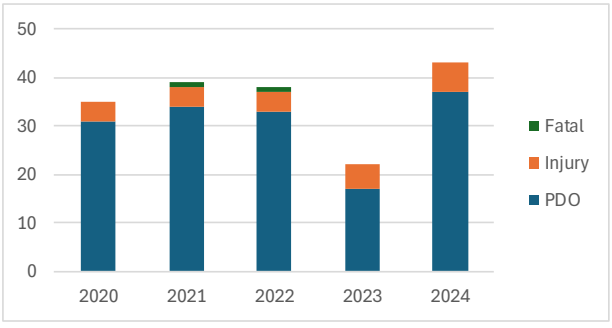


Exhibit Adair-4: Map of County Road Crashes



Year	Property Damage Only	Injury	Fatal	Total
2020	31	4	0	**35**
2021	34	4	1	**39**
2022	33	4	1	**38**
2023	17	5	0	**22**
2024	37	6	0	**43**

Exhibit Adair-5: Crash Distribution by Year

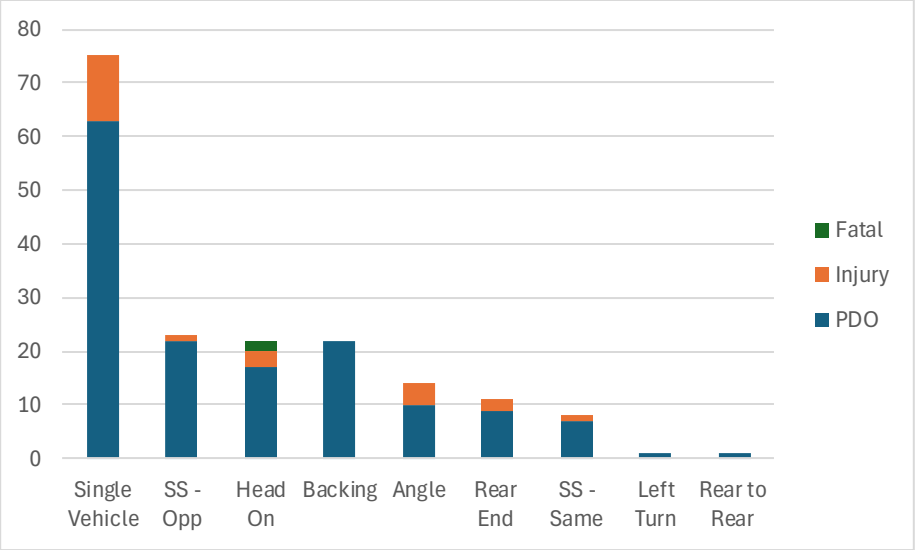


Exhibit Adair-6: Crash Frequency and Severity by Manner of Collision

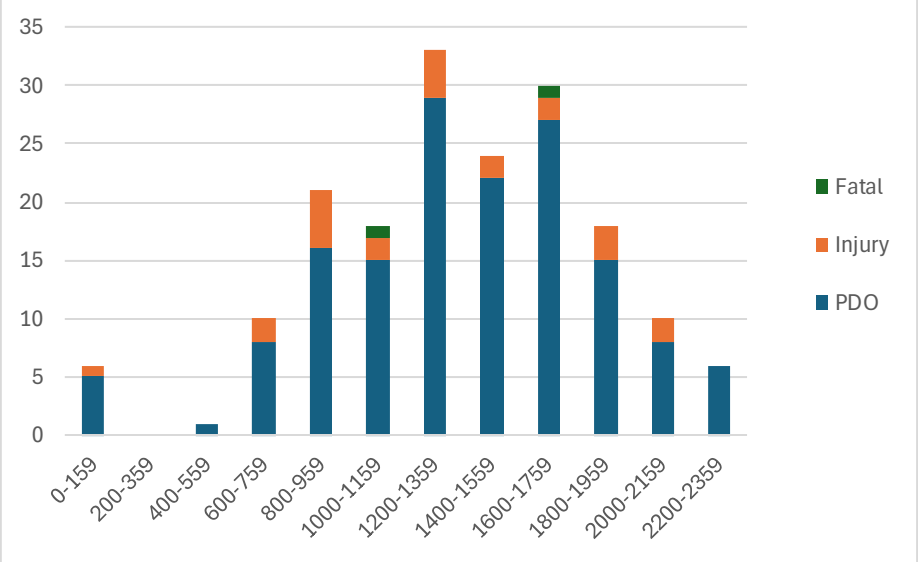


Exhibit Adair-7: Crashes and Severity by Time of Day

Focus Roadways

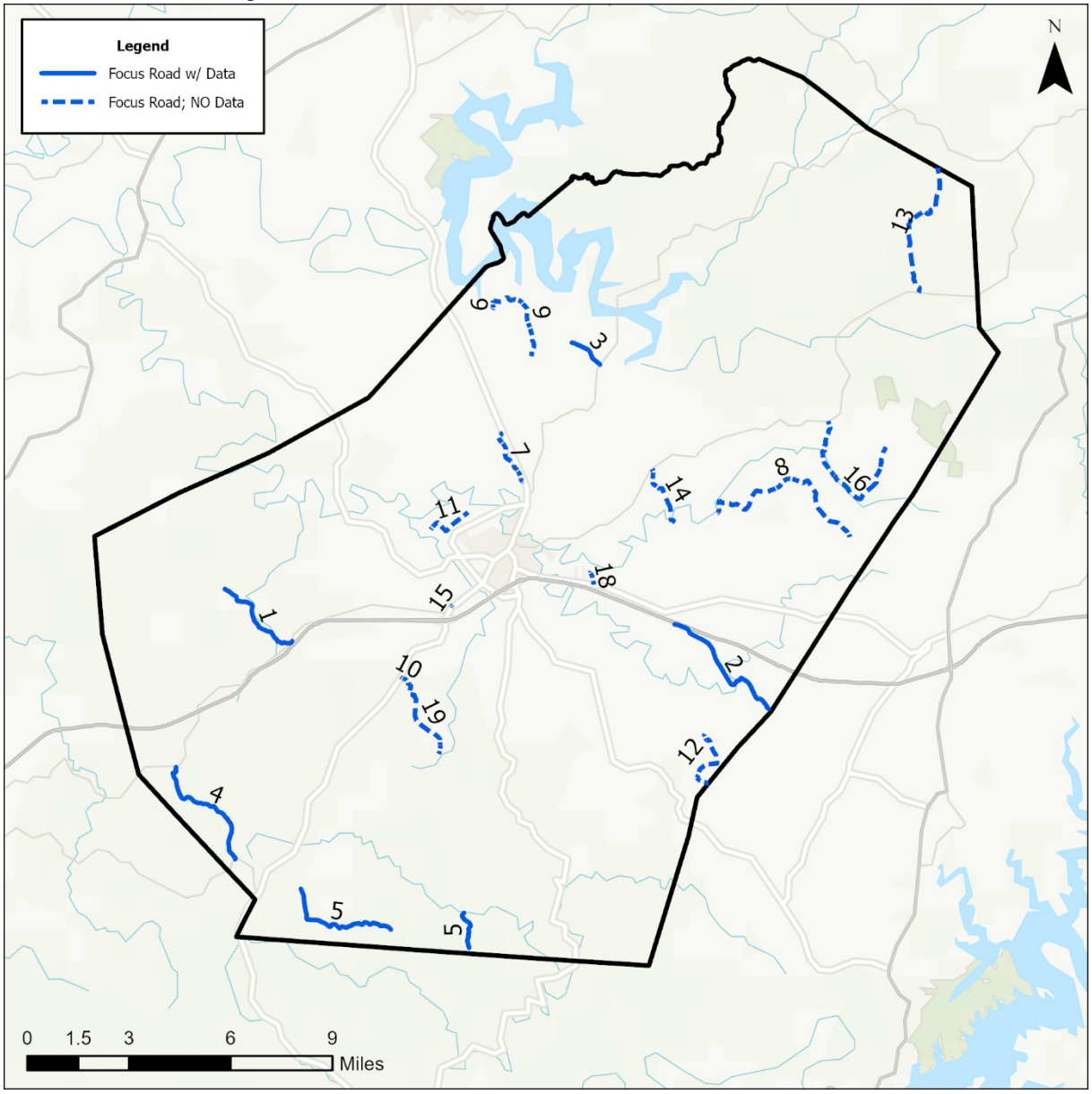


Exhibit Adair-8: Focus Roads

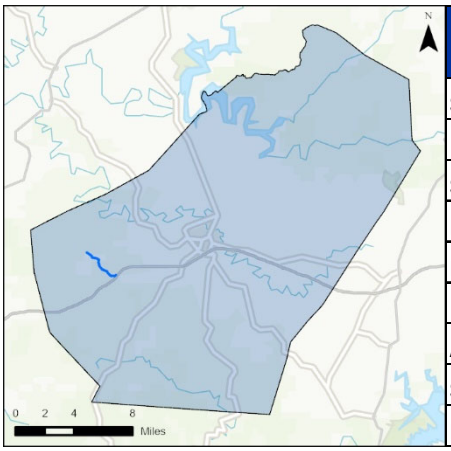
RT_UNIQUE	Length	County	Road Name	Injury Crash	Fatal Crashes	PDO	CrashScore	UseScore	Rank	Focus Road	Data Point	Roadway Data
Adair County												
001-CR-1336 -000	**2.9**	**Adair**	**OLD GRADYVILLE RD**	**0**	**0**	**2**	**0.26**	**5**	**1**	**1**	**10**	**6**
001-CR-1156 -000	**4.2**	**Adair**	**WHITE OAK CHURCH RD**	**1**	**0**	**1**	**2.44**	**2.47**	**2**	**1**	**14**	**1**
001-CR-1428 -000	**1.1**	**Adair**	**WEST EGYPT RD**	**0**	**0**	**0**	**0**	**4.33**	**3**	**1**	**4**	**1**
001-CR-1313 -000	**4.0**	**Adair**	**CHESTNUT GROVE RD**	**0**	**1**	**1**	**3.08**	**1.00**	**4**	**1**	**18**	**7**
001-CR-1302 -000	**7.7**	**Adair**	**GREENBRIAR RD**	**0**	**1**	**3**	**3.33**	**0.71**	**5**	**1**	**4**	**0**
001-CR-1631 -000	0.3	Adair	KELLYVILLE RD	0	1	0	2.95	0.96	6	1	0	0
001-CR-1511 -000	1.8	Adair	KELTNER RD	0	1	3	3.33	0.29	7	1	0	0
001-CR-1008 -000	5.8	Adair	ALLEN SCHOOLHOUSE RD	0	0	4	0.51	2.94	8	1	0	0
001-CR-1430 -000	2.6	Adair	BRIDGEWATER RD	1	0	0	2.31	1.11	9	1	0	0
001-CR-1997 -000	0.1	Adair	ACCESS RD 1	1	0	0	2.31	1.10	10	1	0	0
001-CR-1452 -000	1.5	Adair	ROCKY HILL RD	1	0	0	2.31	0.88	11	1	0	0
001-CR-1197 -000	2.2	Adair	COUNTY LINE RD	0	1	0	2.95	0.21	12	1	0	0
001-CR-1050 -000	4.4	Adair	BARNETTS CREEK RD	0	1	0	2.95	0.19	13	1	0	0
001-CR-1005 -000	1.9	Adair	L HANCOCK RD	0	1	0	2.95	0.19	14	1	0	0
001-CR-1402 -000	0.1	Adair	WILL WALKER RD	0	0	3	0.38	2.67	15	1	0	0
001-CR-1016 -000	4.7	Adair	SULPHUR CREEK RD	1	0	2	2.56	0.46	16	1	0	0
001-CR-1219 -000	0.1	Adair	BLAIR SCHOOL RD	0	0	0	0	3.00	17	1	0	0
001-CR-1845J -000	0.4	Adair	ROSE LN	0	0	0	0	2.81	18	1	0	0
001-CR-1290 -000	2.8	Adair	HUGHES RD	1	0	0	2.31	0.48	19	1	0	0

Exhibit Adair-9: List of Focus Roadways

Recommended Improvements (Top Roads)

OLD GRADYVILLE RD (001-CR-1336 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	3	0	0	**3**
Rear End	0	1	0	**1**
SS - Opp	0	0	0	**0**
Backing	0	0	0	**0**
Head On	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Angle	0	0	0	**0**
SS - Same	0	0	0	**0**
Left Turn	0	0	0	**0**

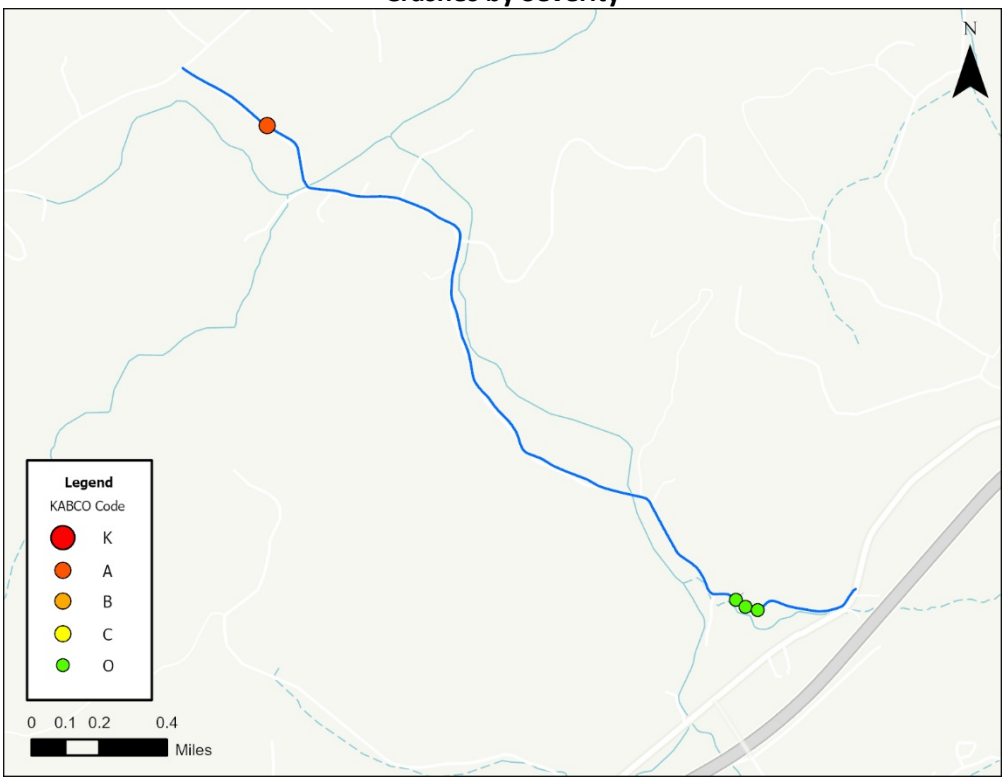
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
3964	001-CR-1336 -000	OLD GRADYVILLE RD	10	3	2	20-40	✓	✓	✓
3965	001-CR-1336 -000	OLD GRADYVILLE RD	10	2	3	20-40	✓	✓	✓
3966	001-CR-1336 -000	OLD GRADYVILLE RD	10	3	2	20-40	✓	✓	✓
3967	001-CR-1336 -000	OLD GRADYVILLE RD	10	2	3	0-20		✓	✓
3969	001-CR-1336 -000	OLD GRADYVILLE RD	10	3	1	20-40	✓	✓	✓
3973	001-CR-1336 -000	OLD GRADYVILLE RD	10	4	1	0-20		✓	✓

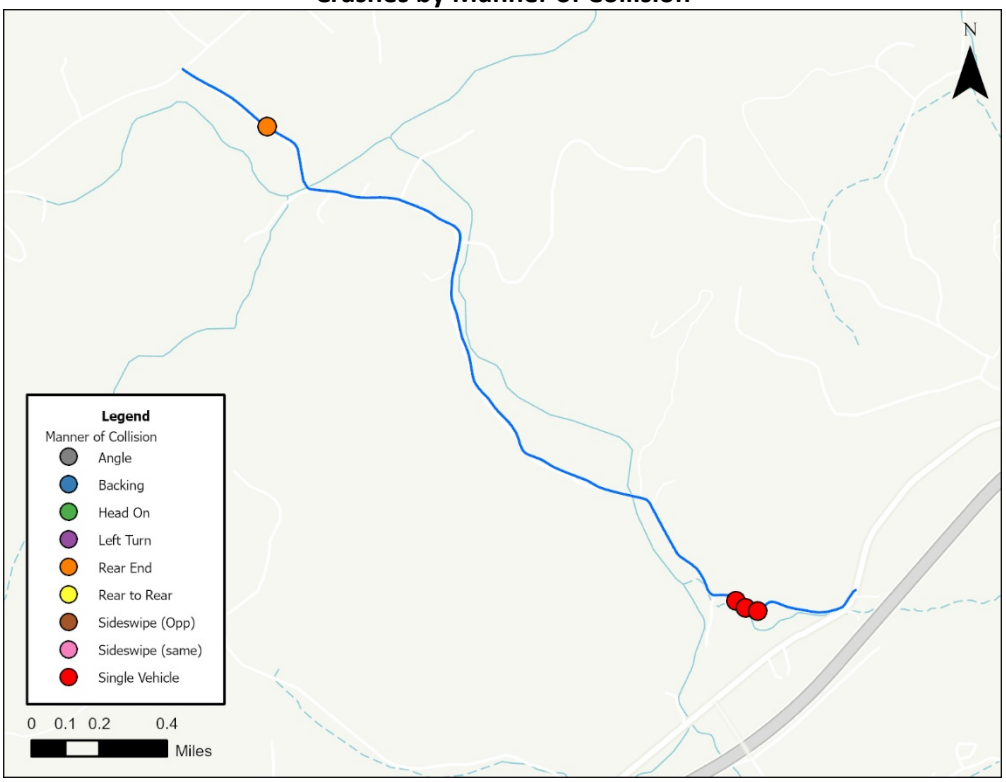
Roadway Typical Section



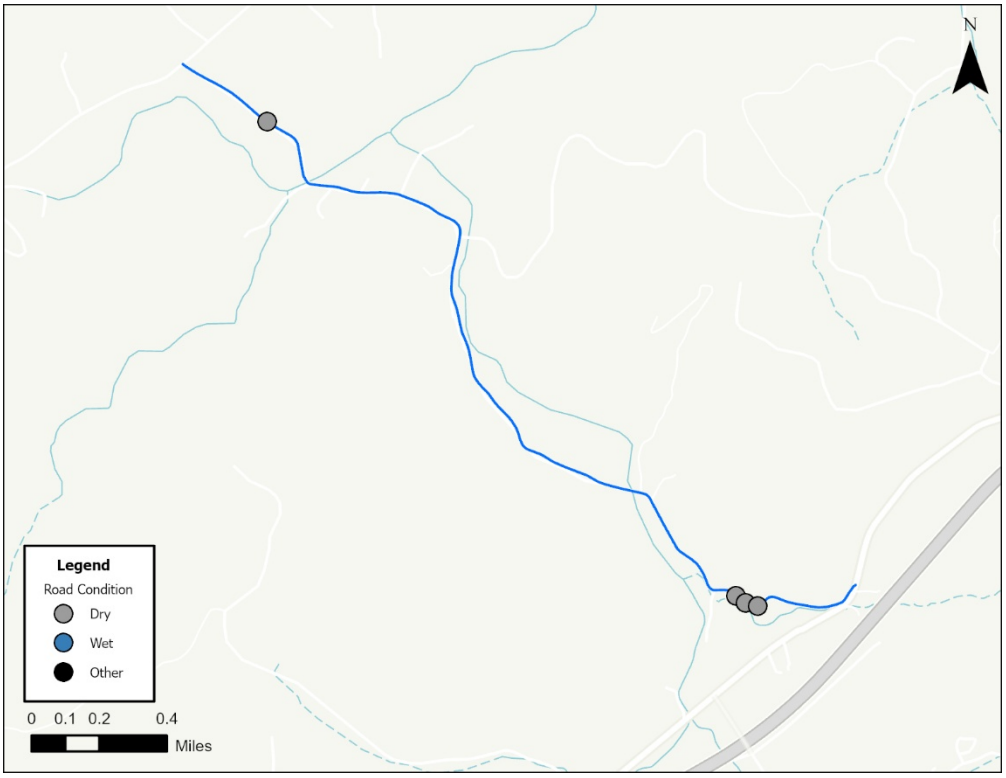
Crashes by Severity



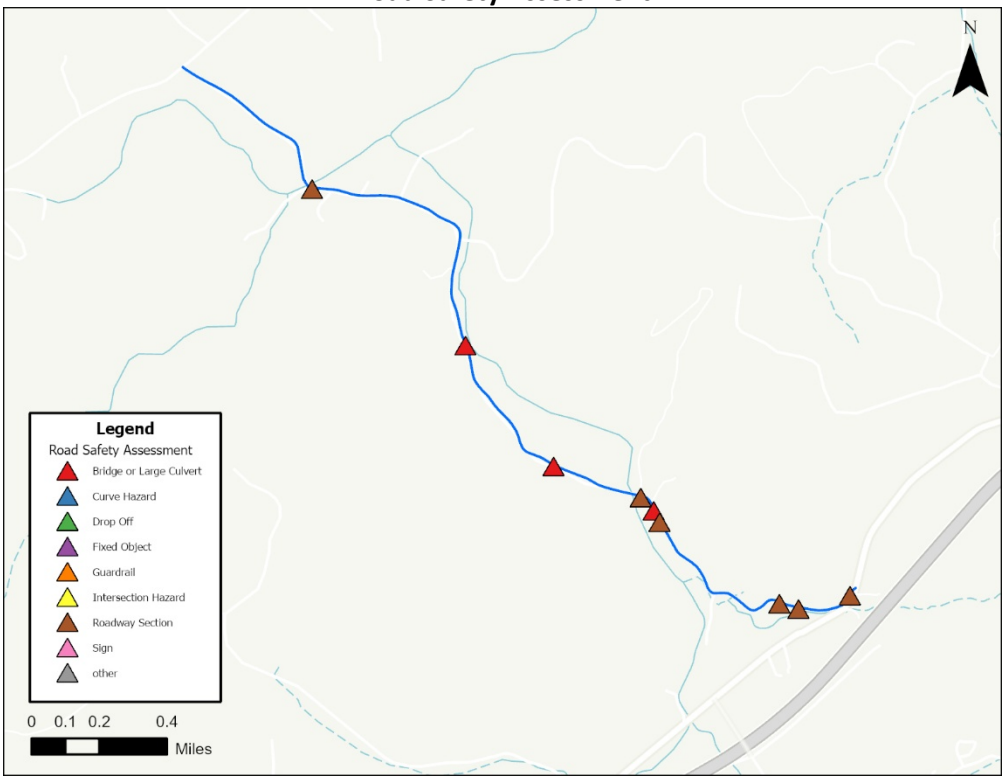
Crashes by Manner of Collision



Road Condition



Road Safety Assessment

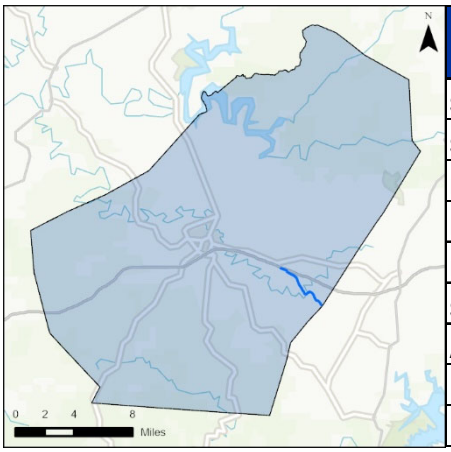


General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
3968	001-CR-1336 -000	OLD GRADYVILLE RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3970	001-CR-1336 -000	OLD GRADYVILLE RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3971	001-CR-1336 -000	OLD GRADYVILLE RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3972	001-CR-1336 -000	OLD GRADYVILLE RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.

WHITE OAK CHURCH RD (001-CR-1156 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	2	0	0	**2**
SS - Opp	0	1	0	**1**
Backing	1	0	0	**1**
Head On	0	0	0	**0**
Left Turn	0	0	0	**0**
SS - Same	0	0	0	**0**
Angle	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

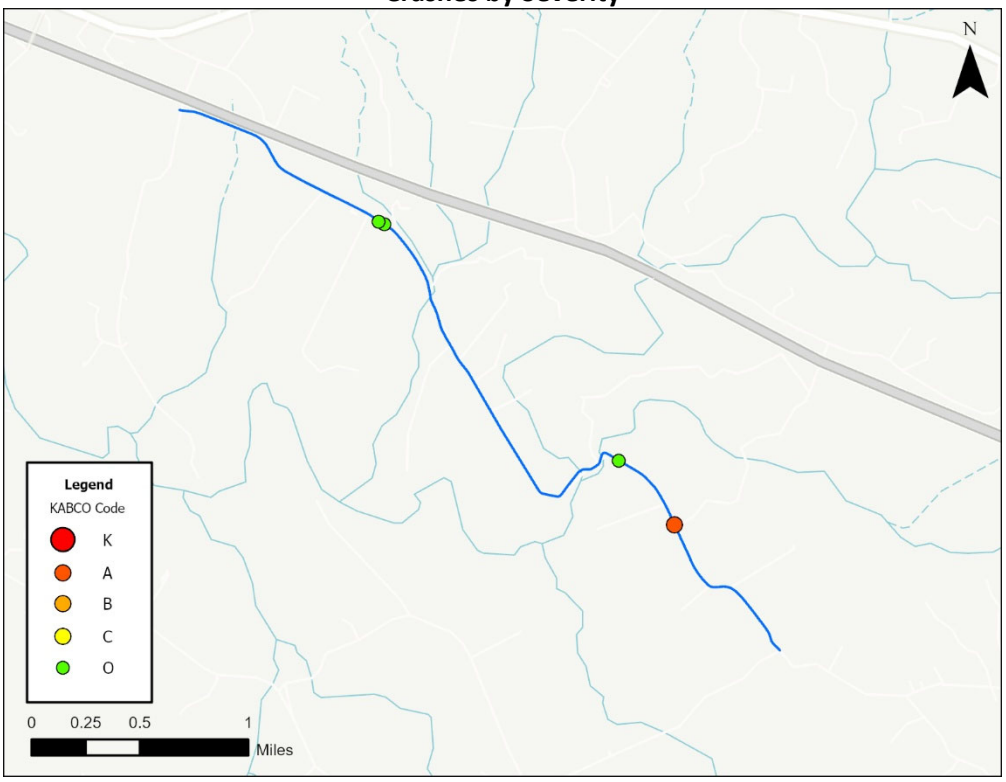
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
3711	001-CR-1156 -000	WHITE OAK CHURCH RD	10	4	2	40-60	✓	✓	✓

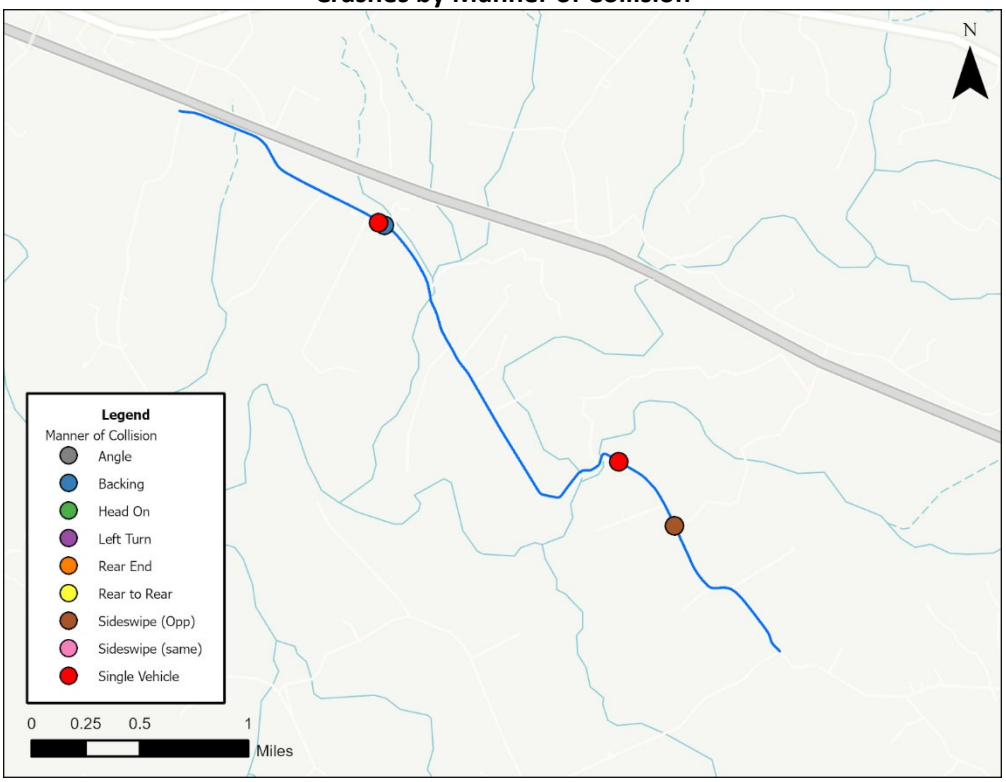
Roadway Typical Section



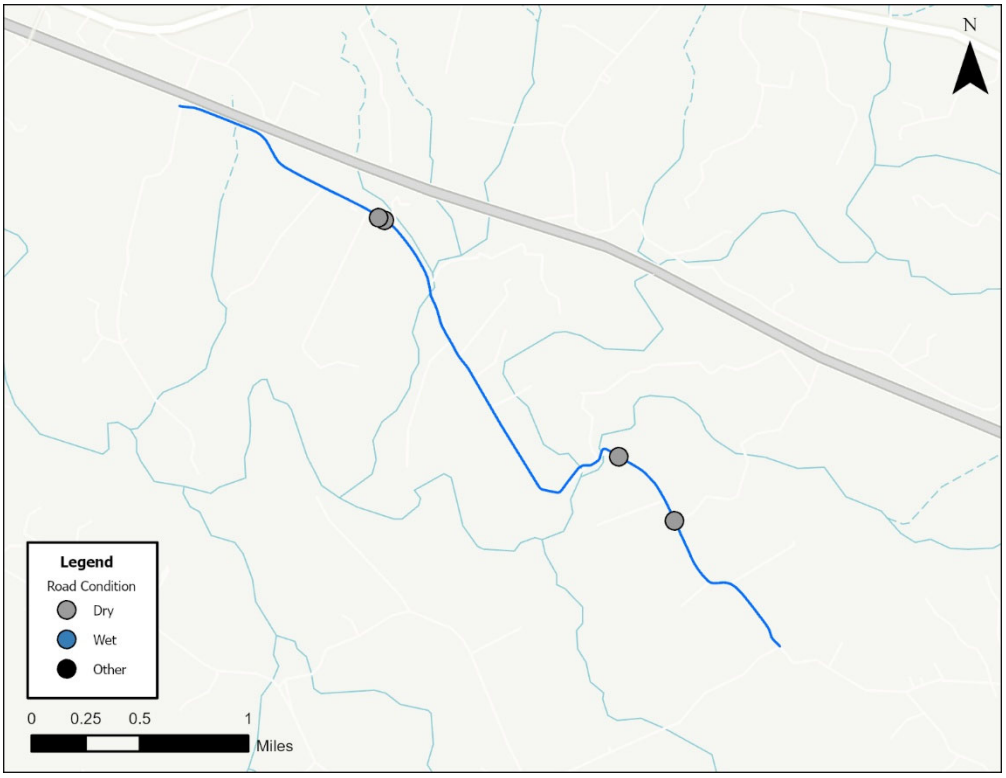
Crashes by Severity



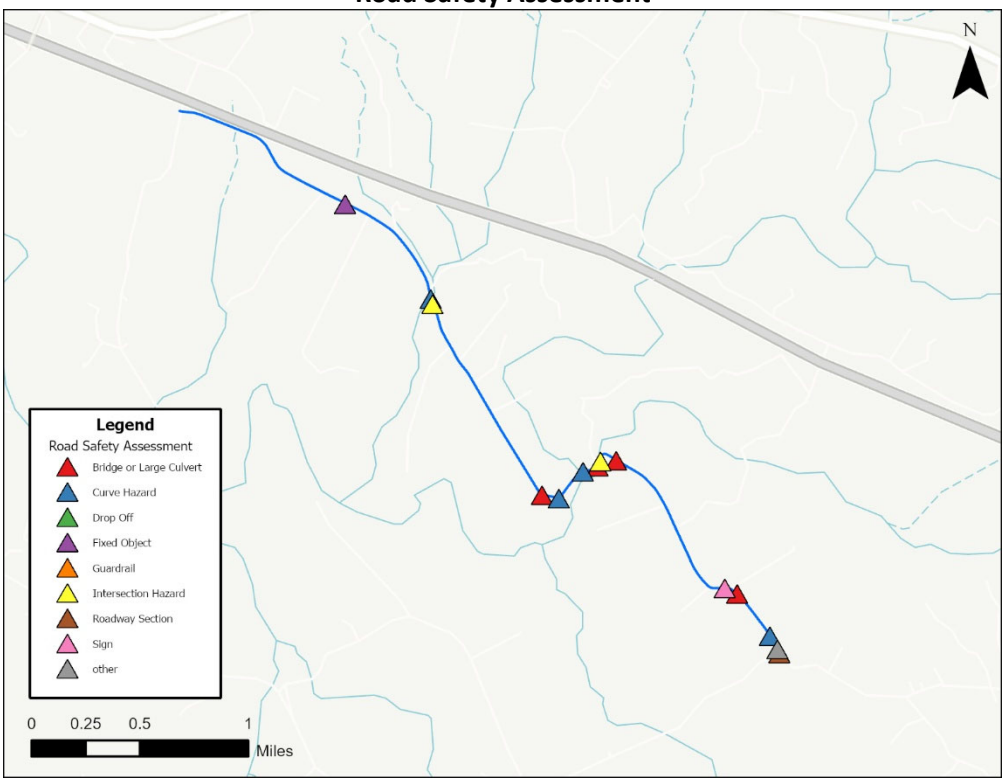
Crashes by Manner of Collision



Road Condition



Road Safety Assessment



General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
3714	001-CR-1156 -000	WHITE OAK CHURCH RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3716	001-CR-1156 -000	WHITE OAK CHURCH RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3718	001-CR-1156 -000	WHITE OAK CHURCH RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3721	001-CR-1156 -000	WHITE OAK CHURCH RD	10	2	0	Evaluate the need for guardrail on missing approaches. Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
3713	001-CR-1156 -000	WHITE OAK CHURCH RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
3719	001-CR-1156 -000	WHITE OAK CHURCH RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
3720	001-CR-1156 -000	WHITE OAK CHURCH RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
3723	001-CR-1156 -000	WHITE OAK CHURCH RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation

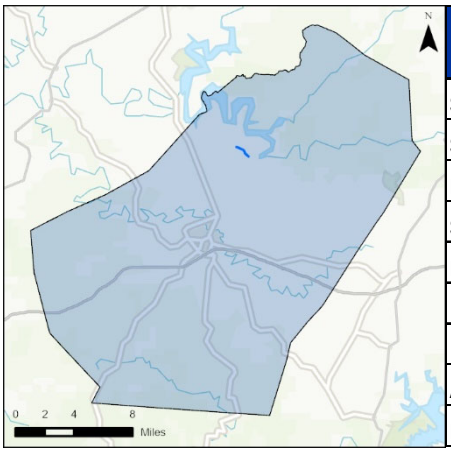
Point ID	RT_UNIQUE	RD_NAME	Object	Single / Series	Offset	Recommendations	Other
3724	001-CR-1156 -000	WHITE OAK CHURCH RD	Other	Single	1-3	Relocate mailbox further from road	Mailbox

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
3717	001-CR-1156 -000	WHITE OAK CHURCH RD	Intersection Obscured on Approa,Intersection Skew,Insufficient Sight Distance at	Yes	Clear vegetation and evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X); Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection skew
3722	001-CR-1156 -000	WHITE OAK CHURCH RD	Insufficient Sight Distance at ,Intersection Obscured on Approa,Intersection Skew	Yes	Clear vegetation and evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X); Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection skew

Point ID	RT_UNIQUE	RD_NAME	Recommendations	Other
3712	001-CR-1156 -000	WHITE OAK CHURCH RD	Identify origin of gravel, such as nearby driveway and/or drainage issues.	Gravel in lower section of road

WEST EGYPT RD (001-CR-1428 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	0	0	0	**0**
SS - Same	0	0	0	**0**
Head On	0	0	0	**0**
SS - Opp	0	0	0	**0**
Backing	0	0	0	**0**
Rear End	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Angle	0	0	0	**0**
Left Turn	0	0	0	**0**

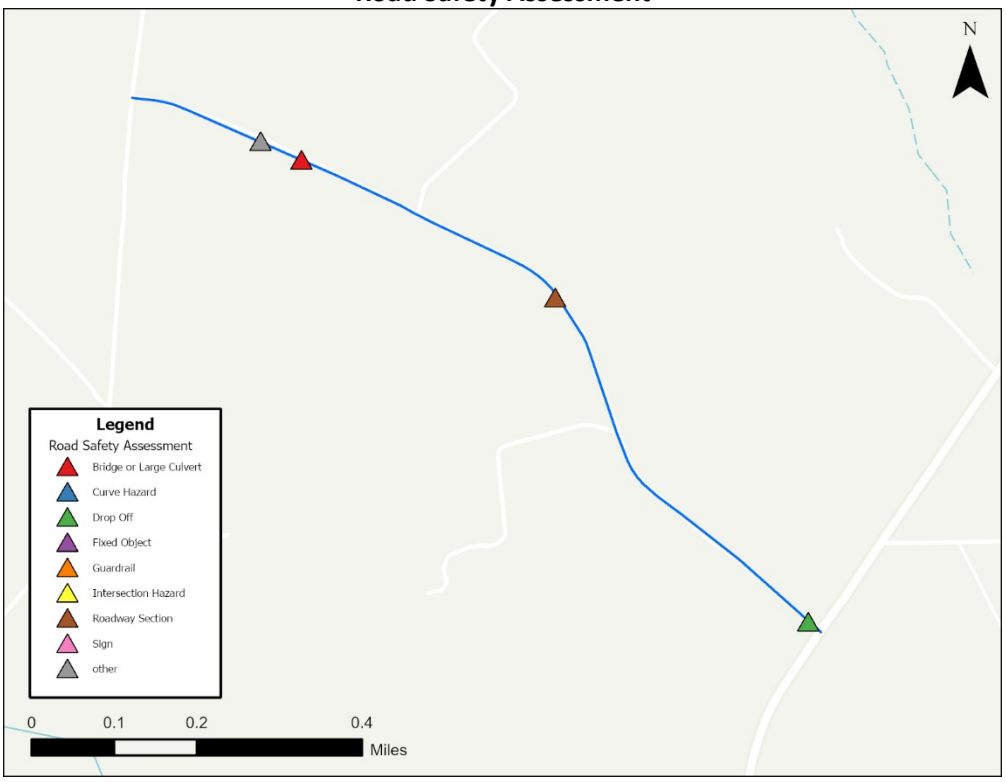
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
3982	001-CR-1428 -000	WEST EGYPT RD	10	4	1	0-20		✓	✓

Roadway Typical Section



Road Safety Assessment



General Recommendations

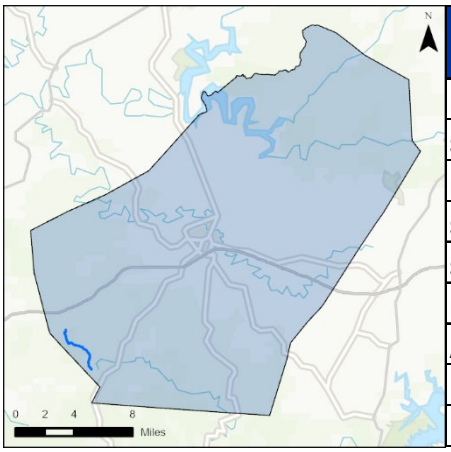
Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
3980	001-CR-1428 -000	WEST EGYPT RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.

Point ID	RT_UNIQUE	RD_NAME	Drop Off Offset	Drop Off Height	Recommendations
3979	001-CR-1428 -000	WEST EGYPT RD	0-1	2-5	Install Type 2 Object Marker(s) or Delineator(s)

Point ID	RT_UNIQUE	RD_NAME	Recommendations	Other
3981	001-CR-1428 -000	WEST EGYPT RD	Install Type 2 Object Marker(s) or Delineator(s)	Pond, within 5 feet of road.

CHESTNUT GROVE RD (001-CR-1313 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Head On	0	1	0	**1**
Single Vehicle	1	0	0	**1**
Left Turn	0	0	0	**0**
SS - Same	0	0	0	**0**
SS - Opp	0	0	0	**0**
Backing	0	0	0	**0**
Angle	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

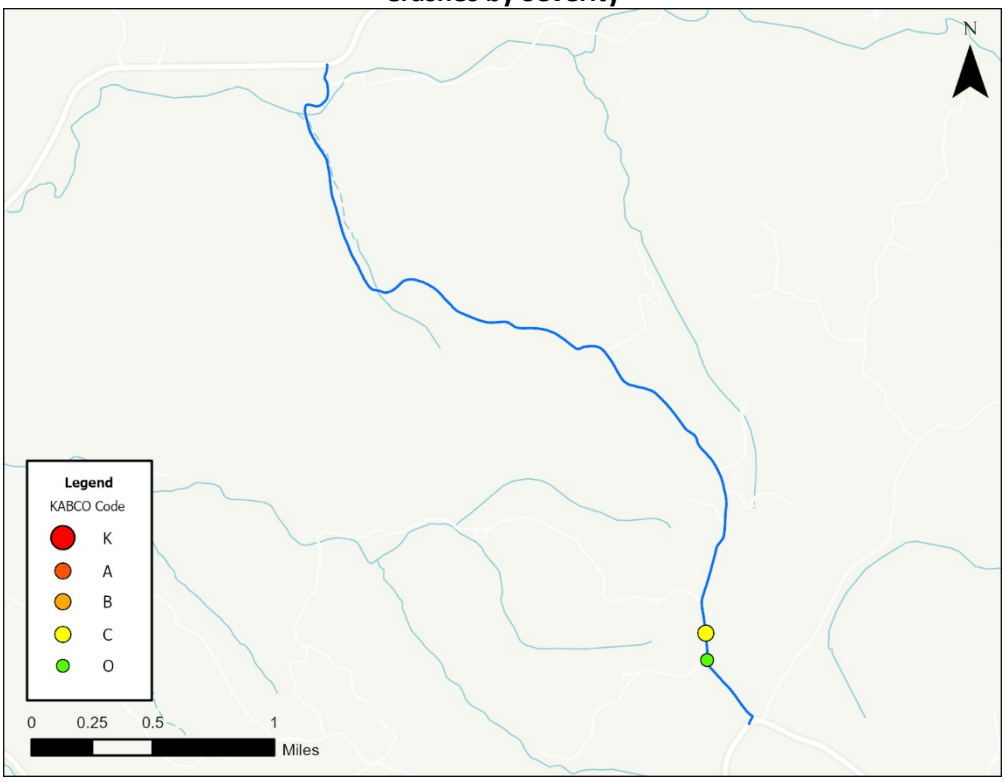
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
3947	001-CR-1313 -000	CHESTNUT GROVE RD	10	3	2	20-40	✓	✓	✓
3948	001-CR-1313 -000	CHESTNUT GROVE RD	10	3	1	0-20		✓	✓
3952	001-CR-1313 -000	CHESTNUT GROVE RD	10	3	1	0-20		✓	✓
3954	001-CR-1313 -000	CHESTNUT GROVE RD	10	3	1	40-60	✓	✓	✓
3955	001-CR-1313 -000	CHESTNUT GROVE RD	10	3	2	20-40	✓	✓	✓
3962	001-CR-1313 -000	CHESTNUT GROVE RD	10	3	3	40-60	✓	✓	✓
3963	001-CR-1313 -000	CHESTNUT GROVE RD	10	4	1	0-20		✓	✓

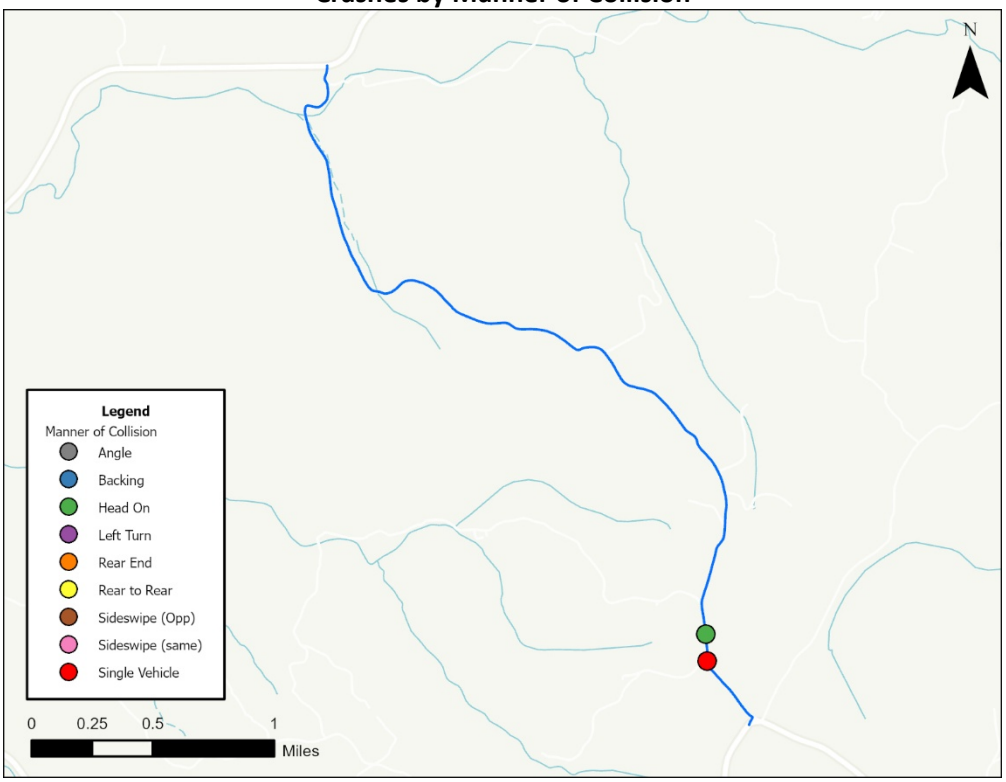
Roadway Typical Section



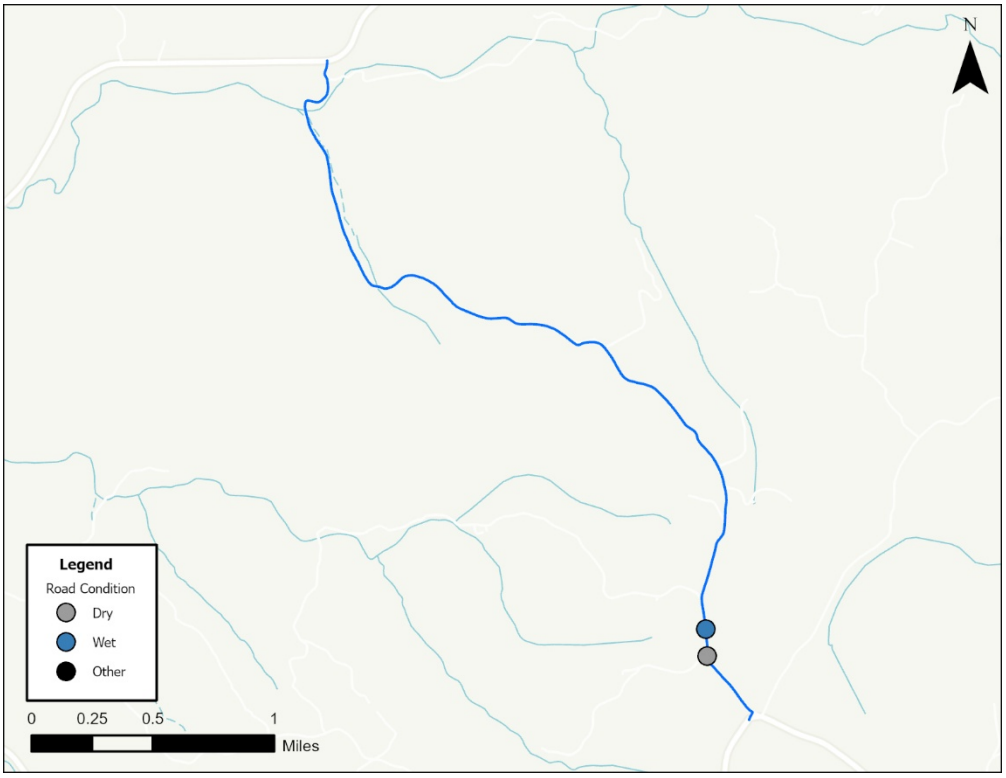
Crashes by Severity



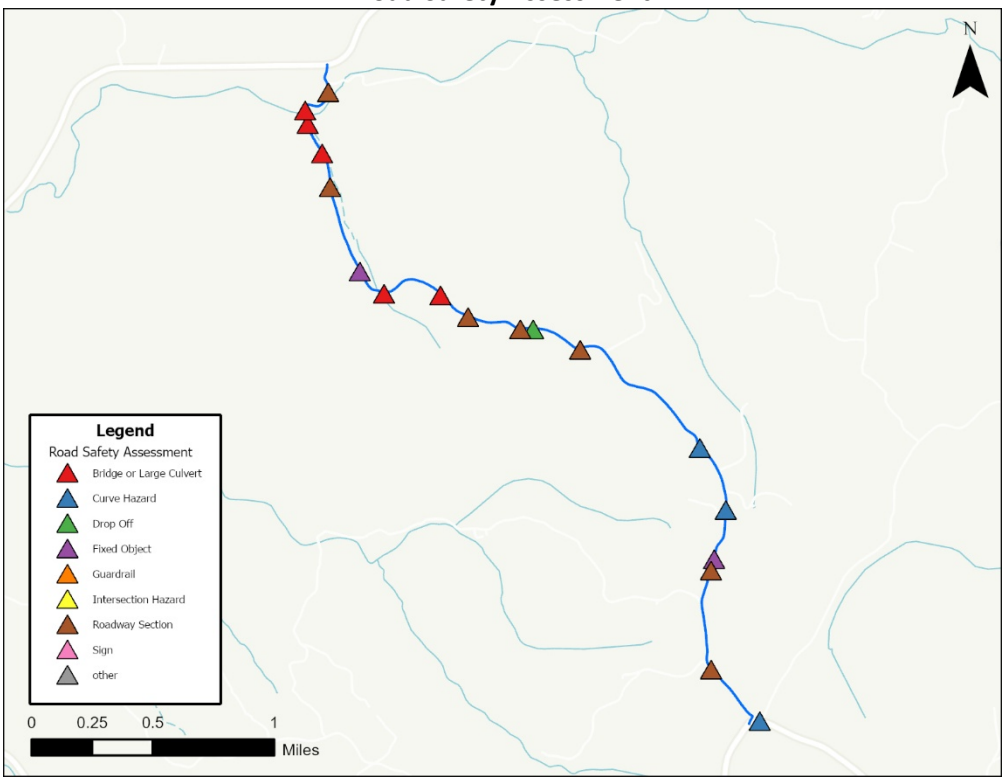
Crashes by Manner of Collision



Road Condition

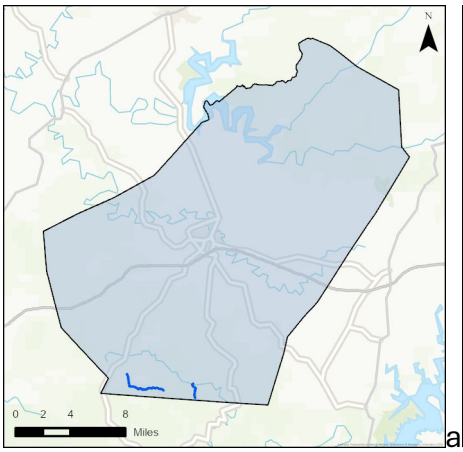


Road Safety Assessment



GREENBRIAR RD (001-CR-1302 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
SS - Opp	1	0	0	**1**
SS - Same	0	0	0	**0**
Backing	0	0	0	**0**
Left Turn	0	0	0	**0**
Head On	0	0	0	**0**
Single Vehicle	0	0	0	**0**
Angle	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

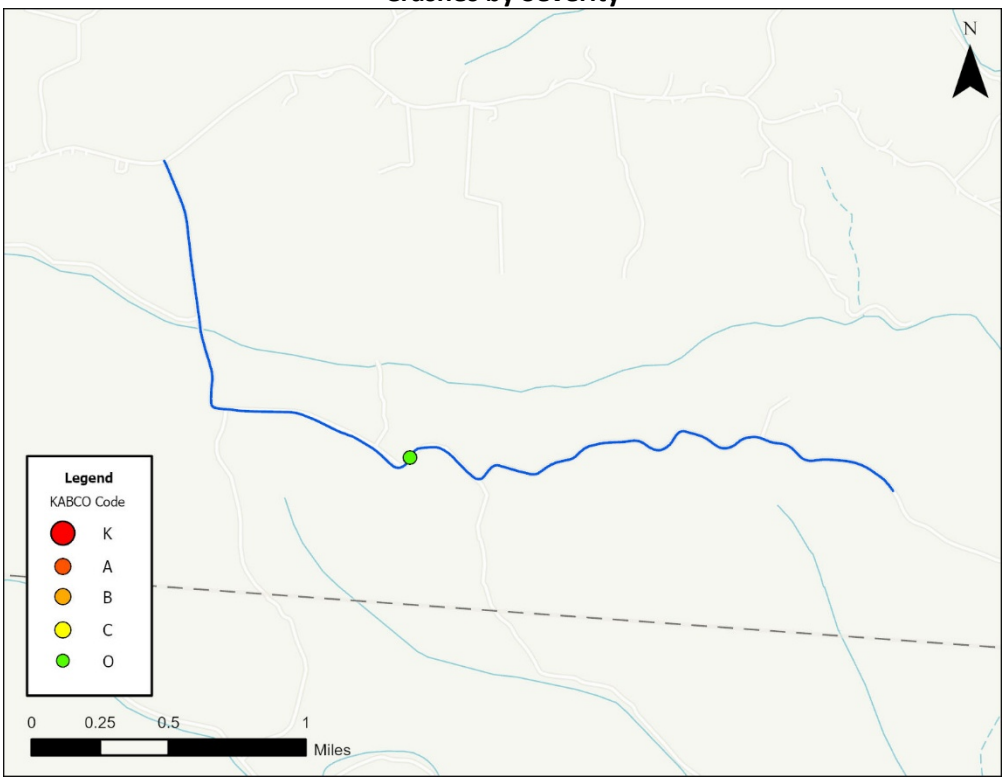
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4424	001-CR-1302 -000	GREENBRIAR RD	14	2	5	60-80	✓	✓	✓

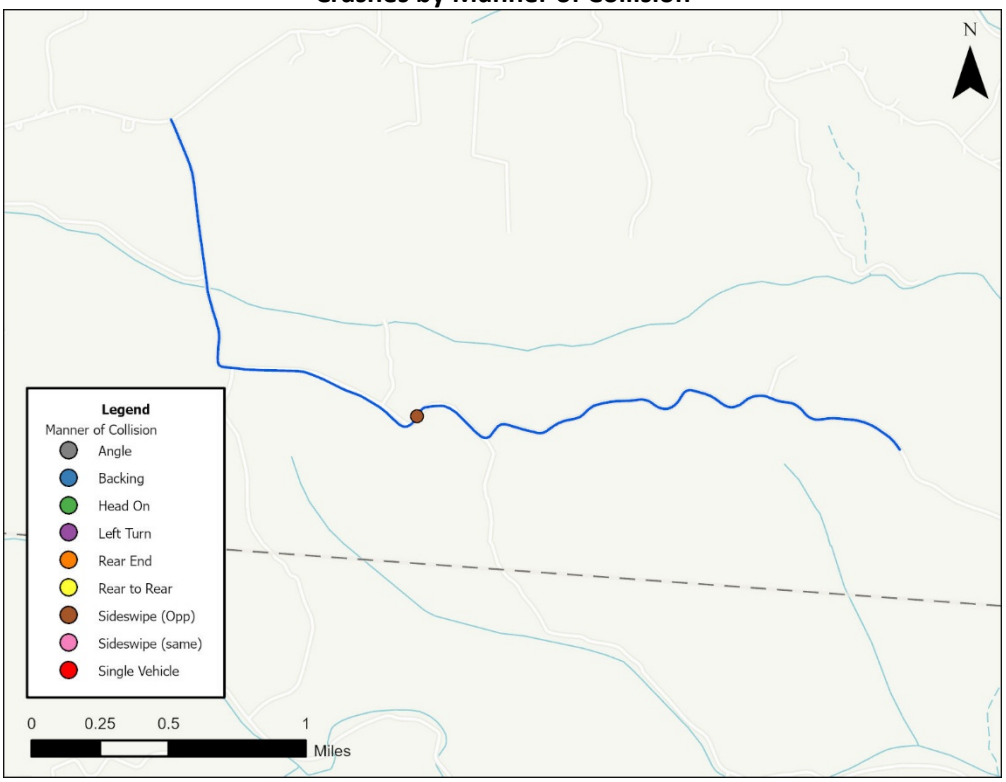
Roadway Typical Section



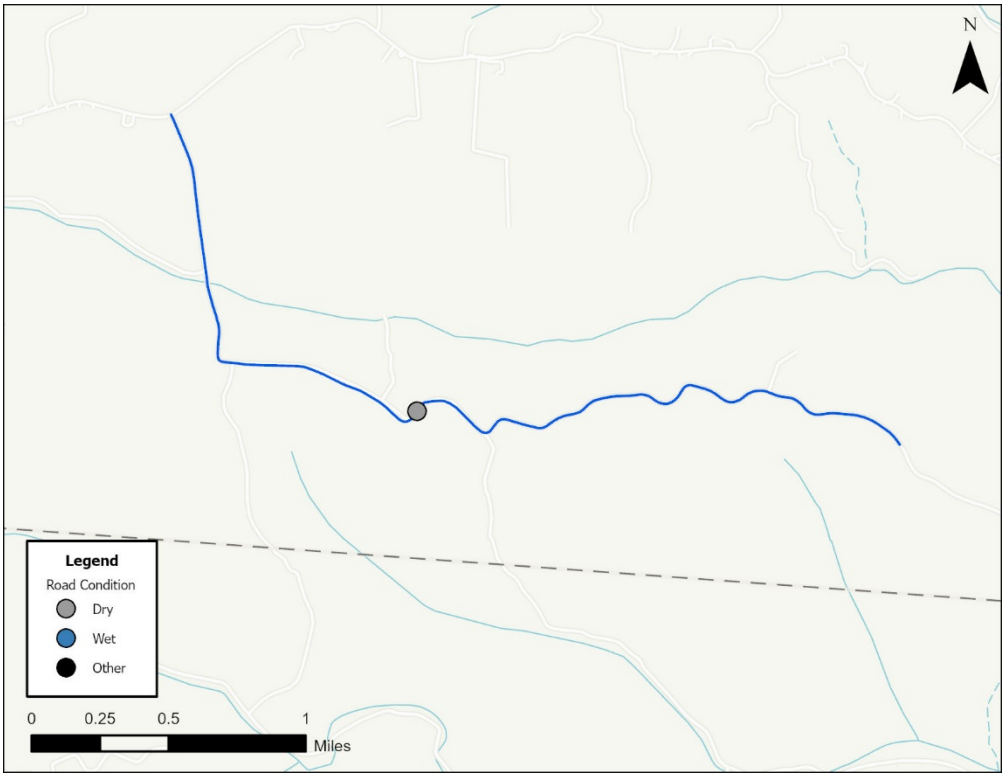
Crashes by Severity



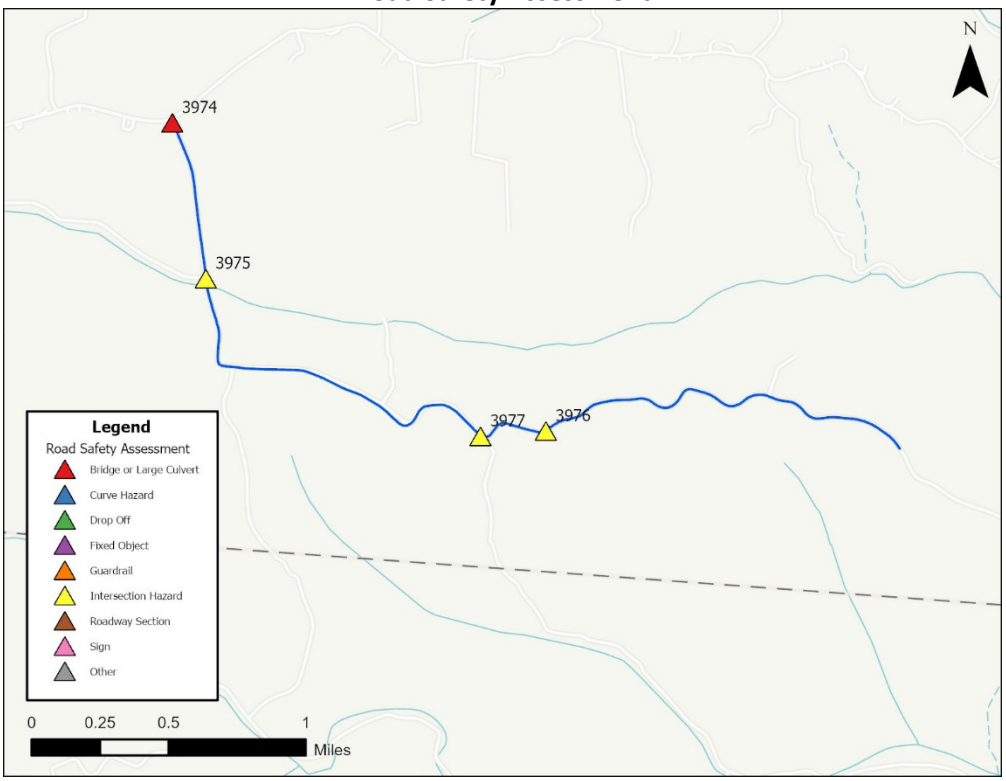
Crashes by Manner of Collision



Road Condition



Road Safety Assessment



General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4424	001-CR-1302 -000	GREENBRIAR RD	14	2	5	60-80	✓	✓	✓

Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
3974	001-CR-1302 -000	GREENBRIAR RD	10	2	0	Evaluate the need for guardrail on missing approaches. Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
3975	001-CR-1302 -000	GREENBRIAR RD	Intersection Obscured on Approa,Insufficient Sight Distance at	Yes	Clear vegetation and evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)
3976	001-CR-1302 -000	GREENBRIAR RD	Intersection Obscured on Approa,Insufficient Sight Distance at	No	Evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)
3977	001-CR-1302 -000	GREENBRIAR RD	Intersection Obscured on Approa,Intersection Skew	Yes	Clear vegetation and evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X); Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection skew

Other Roadways

General Roadway Conditions and Recommendations (Adair County)

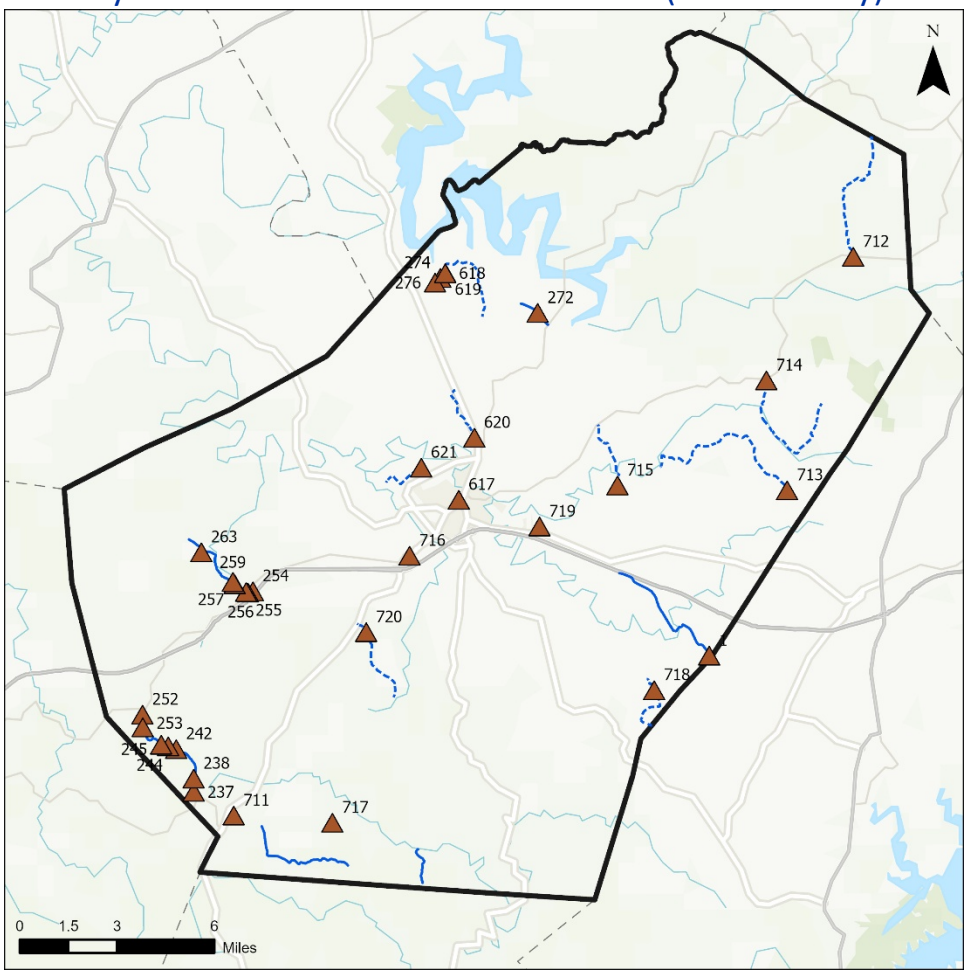


Exhibit Adair-10: General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4426	001-CR-1008 -000	ALLEN SCHOOLHOUSE RD	12	2	6	60-80	✓	✓	✓
4425	001-CR-1050 -000	BARNETTS CREEK RD	15	4	3	60-80	✓	✓	✓
3984	001-CR-1430 -000	BRIDGEWATER RD	10	3	1	20-40	✓	✓	✓
3986	001-CR-1430 -000	BRIDGEWATER RD	10	3	1	40-60	✓	✓	✓
3947	001-CR-1313 -000	CHESTNUT GROVE RD	10	3	2	20-40	✓	✓	✓
3948	001-CR-1313 -000	CHESTNUT GROVE RD	10	3	1	0-20		✓	✓
3952	001-CR-1313 -000	CHESTNUT GROVE RD	10	3	1	0-20		✓	✓
3954	001-CR-1313 -000	CHESTNUT GROVE RD	10	3	1	40-60	✓	✓	✓
3955	001-CR-1313 -000	CHESTNUT GROVE RD	10	3	2	20-40	✓	✓	✓
3962	001-CR-1313 -000	CHESTNUT GROVE RD	10	3	3	40-60	✓	✓	✓
3963	001-CR-1313 -000	CHESTNUT GROVE RD	10	4	1	0-20		✓	✓
4431	001-CR-1197 -000	COUNTY LINE RD	12	3	3	40-60	✓	✓	✓
4430	001-CR-1394 -000	E STOTTS RD	10	1	7	80-100	✓	✓	✓
4424	001-CR-1302 -000	GREENBRIAR RD	14	2	5	60-80	✓	✓	✓
4433	001-CR-1290 -000	HUGHES RD	14	2	5	60-80	✓	✓	✓
4331	001-CR-1631 -000	KELLYVILLE RD	18	3	4	40-60	✓	✓	✓
4332	001-CR-1631 -000	KELLYVILLE RD	15	4	2	20-40	✓	✓	✓
4333	001-CR-1511 -000	KELTNER RD	18	4	1	0-20		✓	✓
4428	001-CR-1005 -000	L HANCOCK RD	14	1	5	80-100	✓	✓	✓
3964	001-CR-1336 -000	OLD GRADYVILLE RD	10	3	2	20-40	✓	✓	✓
3965	001-CR-1336 -000	OLD GRADYVILLE RD	10	2	3	20-40	✓	✓	✓
3966	001-CR-1336 -000	OLD GRADYVILLE RD	10	3	2	20-40	✓	✓	✓
3967	001-CR-1336 -000	OLD GRADYVILLE RD	10	2	3	0-20		✓	✓
3969	001-CR-1336 -000	OLD GRADYVILLE RD	10	3	1	20-40	✓	✓	✓
3973	001-CR-1336 -000	OLD GRADYVILLE RD	10	4	1	0-20		✓	✓
4334	001-CR-1452 -000	ROCKY HILL RD	14	3	3	60-80	✓	✓	✓
4432	001-CR-1845J -000	ROSE LN	14	4	1	20-40	✓	✓	✓
4427	001-CR-1016 -000	SULPHUR CREEK RD	14	3	3	20-40	✓	✓	✓
3982	001-CR-1428 -000	WEST EGYPT RD	10	4	1	0-20		✓	✓
3711	001-CR-1156 -000	WHITE OAK CHURCH RD	10	4	2	40-60	✓	✓	✓
4429	001-CR-1402 -000	WILL WALKER RD	16	4	1	0-20		✓	✓

Exhibit Adair-11: General Roadway Recommendations

Bridge / Culvert Recommendations (Adair County)

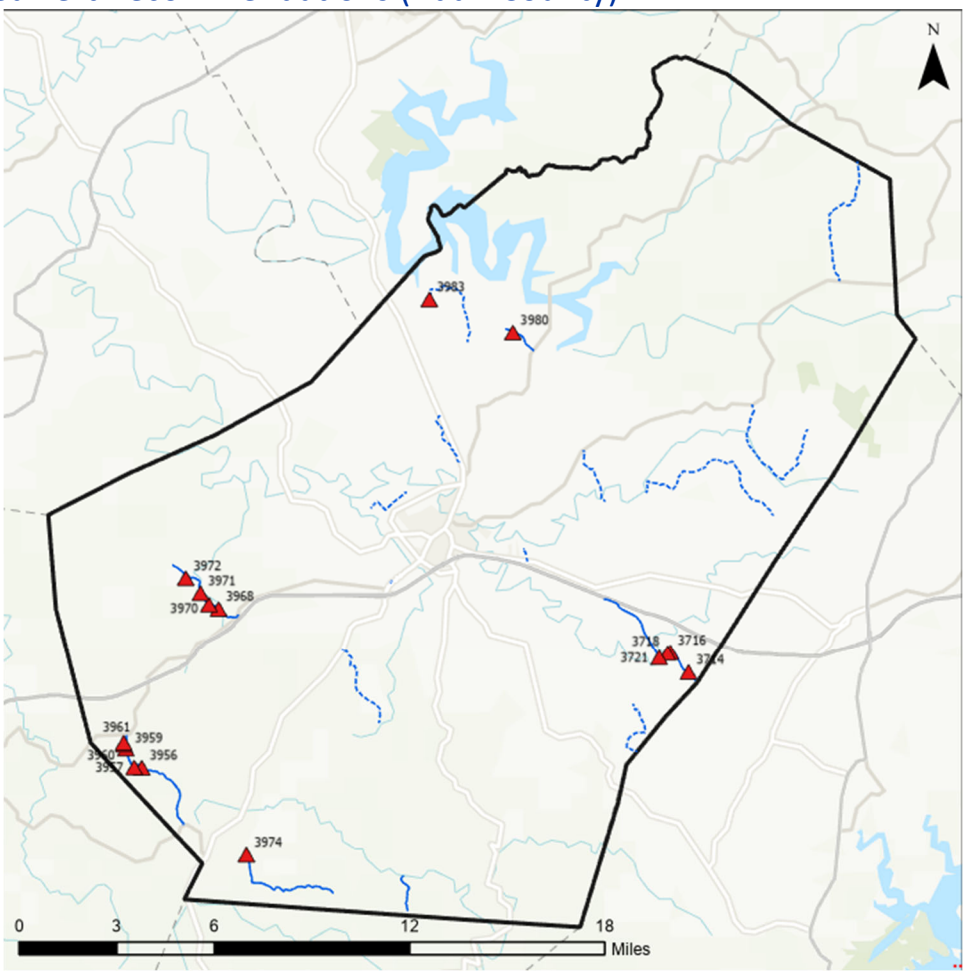


Exhibit Adair-12: Focus Road Bridge / Culvert Locations

Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
3983	001-CR-1430 -000	BRIDGEWATER RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3956	001-CR-1313 -000	CHESTNUT GROVE RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3957	001-CR-1313 -000	CHESTNUT GROVE RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3959	001-CR-1313 -000	CHESTNUT GROVE RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3960	001-CR-1313 -000	CHESTNUT GROVE RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3961	001-CR-1313 -000	CHESTNUT GROVE RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3974	001-CR-1302 -000	GREENBRIAR RD	10	2	0	Evaluate the need for guardrail on missing approaches. Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3968	001-CR-1336 -000	OLD GRADYVILLE RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3970	001-CR-1336 -000	OLD GRADYVILLE RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3971	001-CR-1336 -000	OLD GRADYVILLE RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3972	001-CR-1336 -000	OLD GRADYVILLE RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3980	001-CR-1428 -000	WEST EGYPT RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3714	001-CR-1156 -000	WHITE OAK CHURCH RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3716	001-CR-1156 -000	WHITE OAK CHURCH RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3718	001-CR-1156 -000	WHITE OAK CHURCH RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3721	001-CR-1156 -000	WHITE OAK CHURCH RD	10	2	0	Evaluate the need for guardrail on missing approaches. Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.

Exhibit Adair-13: Bridge / Culvert Recommendations

Curve Recommendations (Adair County)

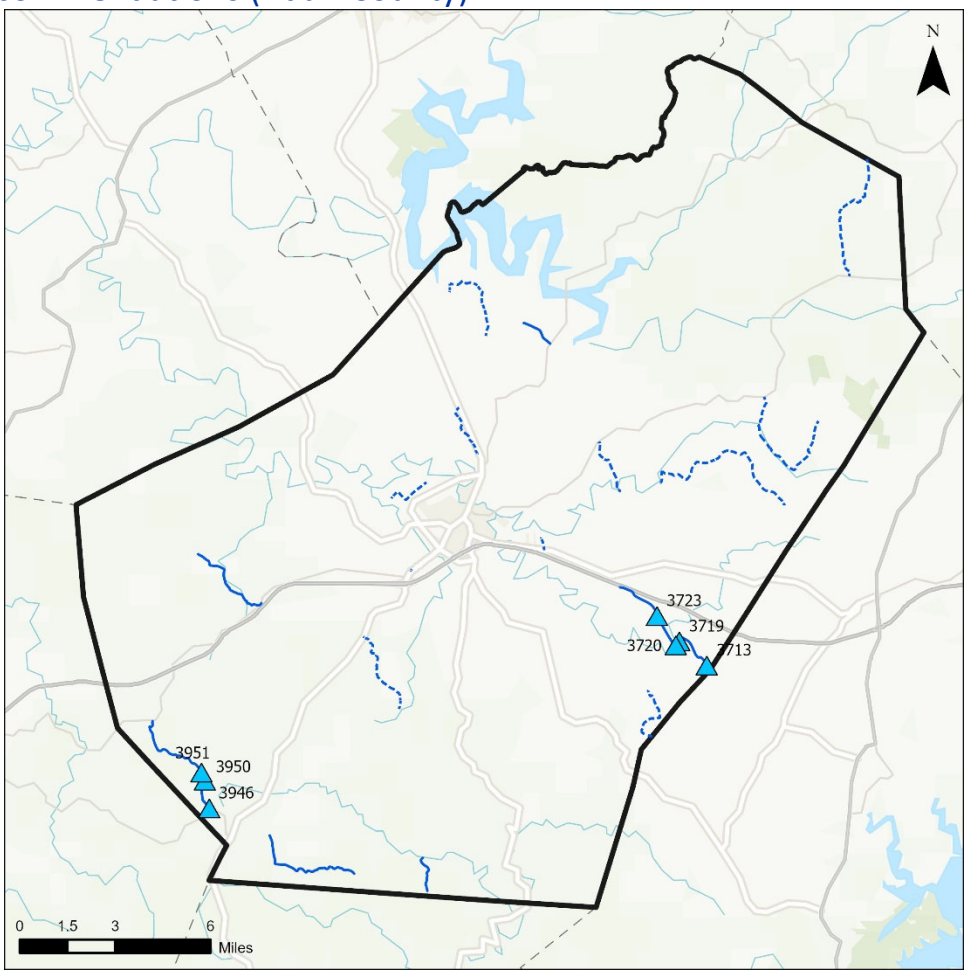


Exhibit Adair-14: Focus Road Curves

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
3713	001-CR-1156 -000	WHITE OAK CHURCH RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
3719	001-CR-1156 -000	WHITE OAK CHURCH RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
3720	001-CR-1156 -000	WHITE OAK CHURCH RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
3723	001-CR-1156 -000	WHITE OAK CHURCH RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
3946	001-CR-1313 -000	CHESTNUT GROVE RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
3950	001-CR-1313 -000	CHESTNUT GROVE RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
3951	001-CR-1313 -000	CHESTNUT GROVE RD	Intersection in Curve,Curve Obscured,vegetation	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation; Consider edgeline and stop bar installation at entrance/intersection

Exhibit Adair-15: Curve Recommendations

Roadside Drop Off Recommendations (Adair County)

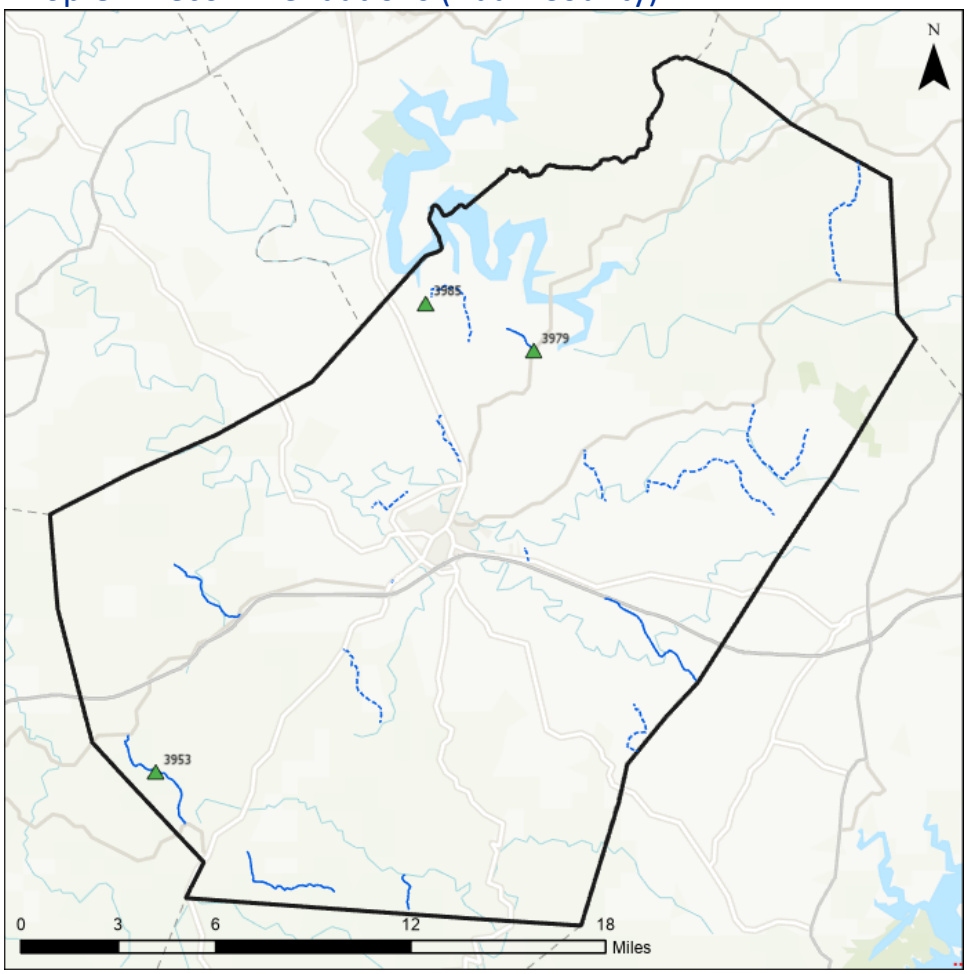


Exhibit Adair-16: Roadside Drop Off Locations

Point ID	RT_UNIQUE	RD_NAME	Drop Off Offset	Drop Off Height	Recommendations
3953	001-CR-1313 -000	CHESTNUT GROVE RD	0-1	>10	Evaluate roadway width, curvature and grade at drop off compared to Other locations in county to evaluate need for guardrail
3979	001-CR-1428 -000	WEST EGYPT RD	0-1	2-5	Install Type 2 Object Marker(s) or Delineator(s)
3985	001-CR-1430 -000	BRIDGEWATER RD	0-1	5-10	Install Type 2 Object Marker(s) or Delineator(s)

Exhibit Adair-17: Roadside Drop Off Recommendations

Fixed Object Recommendations (Adair County)

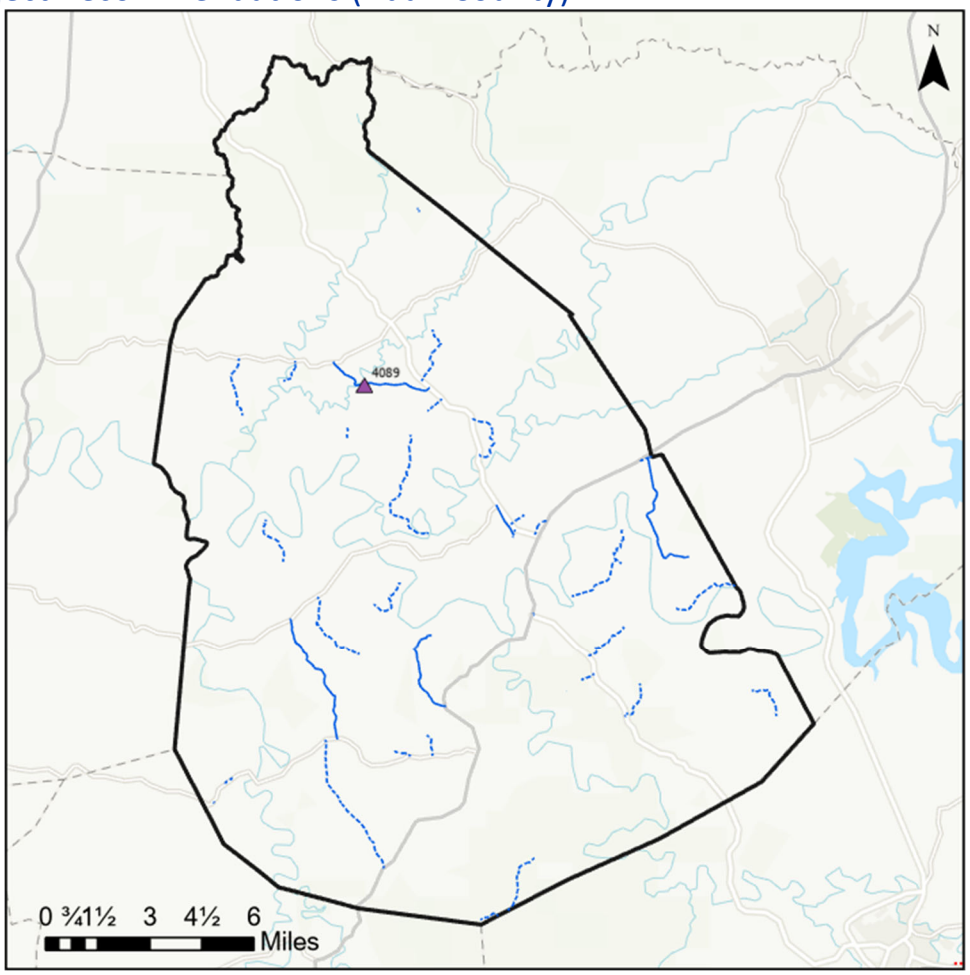


Exhibit Adair-18: Fixed Object Locations

Point ID	RT_UNIQUE	RD_NAME	Object	Single / Series	Offset	Recommendations	Other
3949	001-CR-1313 -000	CHESTNUT GROVE RD	Tree	Series	3-5	Remove if possible	
3958	001-CR-1313 -000	CHESTNUT GROVE RD	Tree	Single	3-5	Remove if possible; Install Type 2 Object Marker	Hangs over road.
3724	001-CR-1156 -000	WHITE OAK CHURCH RD	Other	Single	1-3	Relocate mailbox further from road	Mailbox

Exhibit Adair-19: Fixed Object Recommendations

Intersection Recommendations (Adair County)

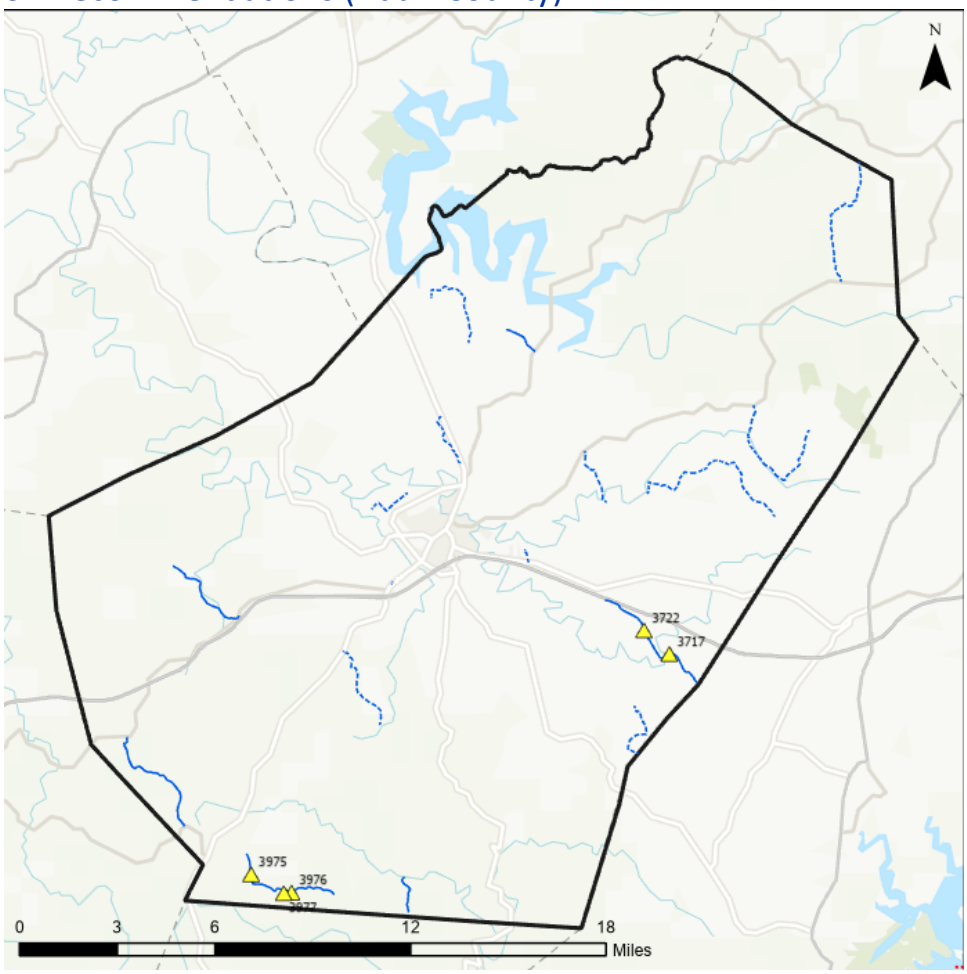


Exhibit Adair-20: Intersection Locations

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
3717	001-CR-1156 -000	WHITE OAK CHURCH RD	Intersection Obscured on Approa,Intersection Skew,Insufficient Sight Distance at	Yes	Clear vegetation and evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X); Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection skew
3722	001-CR-1156 -000	WHITE OAK CHURCH RD	Insufficient Sight Distance at ,Intersection Obscured on Approa,Intersection Skew	Yes	Clear vegetation and evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X); Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection skew
3975	001-CR-1302 -000	GREENBRIAR RD	Intersection Obscured on Approa,Insufficient Sight Distance at	Yes	Clear vegetation and evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)
3976	001-CR-1302 -000	GREENBRIAR RD	Intersection Obscured on Approa,Insufficient Sight Distance at	No	Evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)
3977	001-CR-1302 -000	GREENBRIAR RD	Intersection Obscured on Approa,Intersection Skew	Yes	Clear vegetation and evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X); Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection skew

Exhibit Adair-21: Intersection Recommendations

Other Recommendations (Adair County)

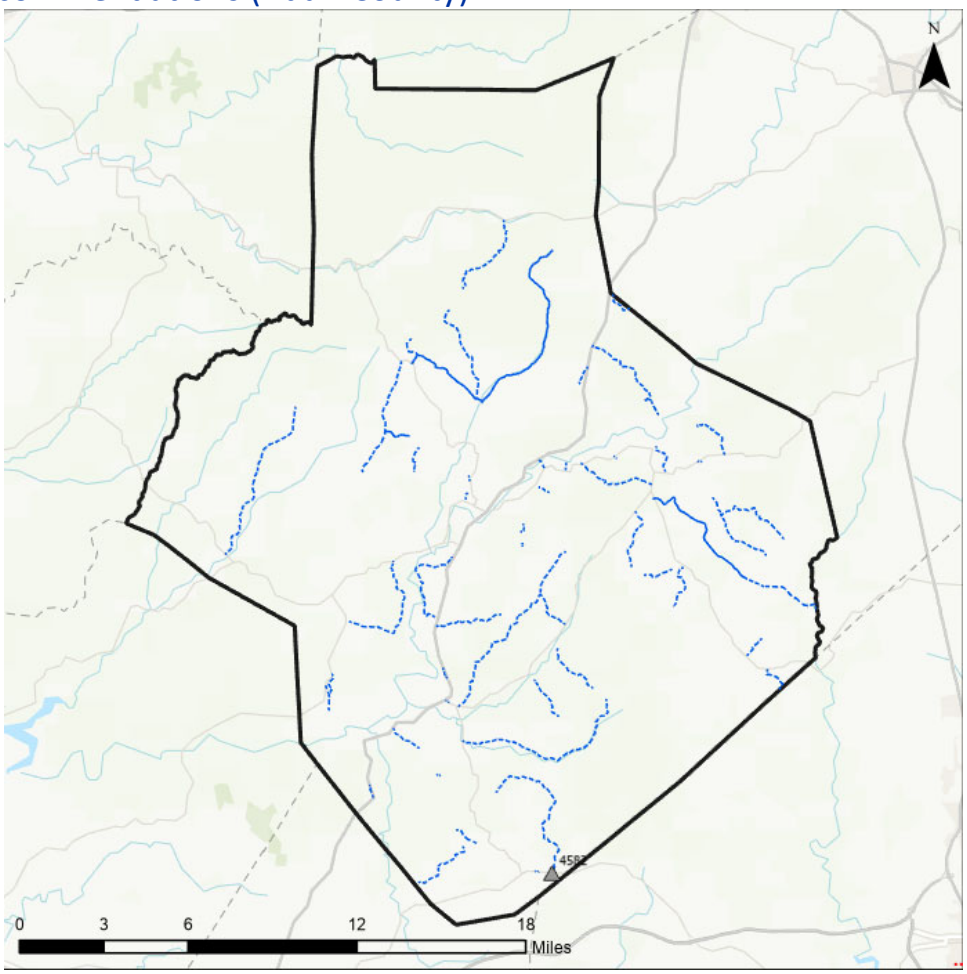


Exhibit Adair-22: Other Item Locations

Point ID	RT_UNIQUE	RD_NAME	Drop Off Offset	Drop Off Height	Recommendations
3953	001-CR-1313 -000	CHESTNUT GROVE RD	0-1	>10	Evaluate roadway width, curvature and grade at drop off compared to Other locations in county to evaluate need for guardrail
3979	001-CR-1428 -000	WEST EGYPT RD	0-1	2-5	Install Type 2 Object Marker(s) or Delineator(s)
3985	001-CR-1430 -000	BRIDGEWATER RD	0-1	5-10	Install Type 2 Object Marker(s) or Delineator(s)

Exhibit Adair-23: Other Item Recommendations

Signing Recommendations (Adair County)

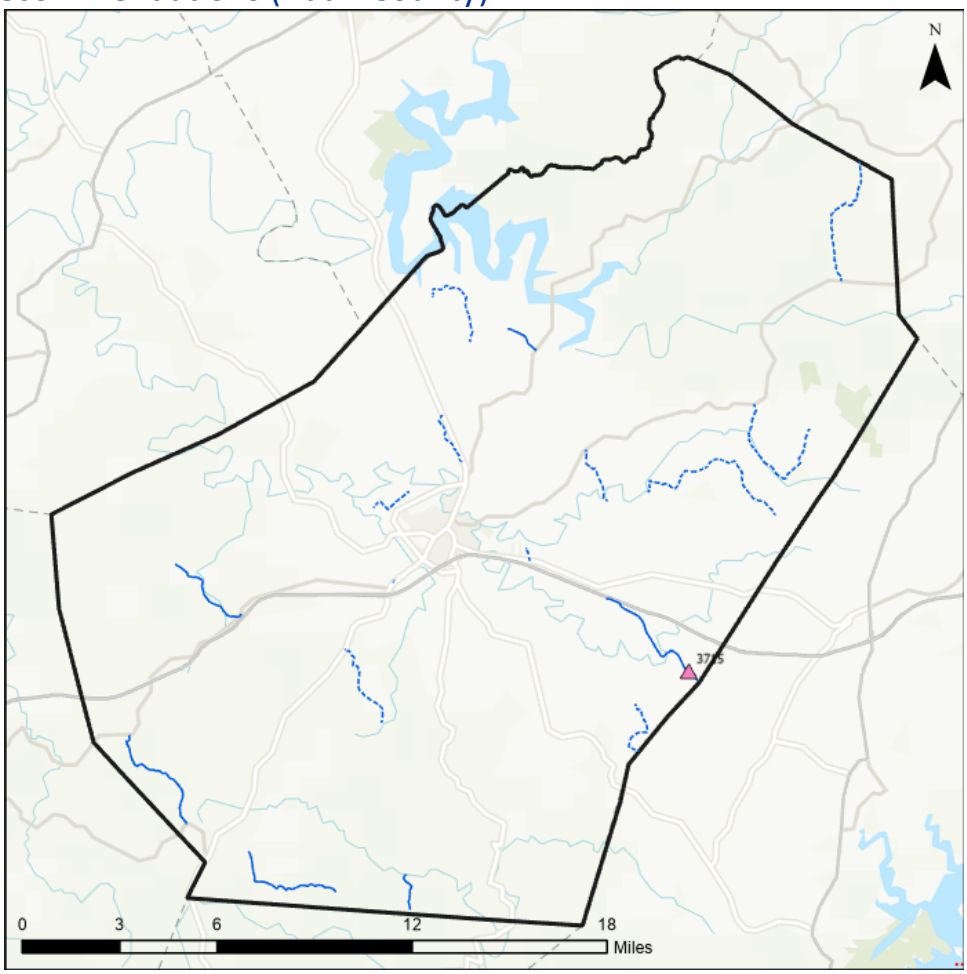


Exhibit Adair-24: Sign Locations

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/LCADDSAP.

APPENDIX E: CASEY COUNTY SAFETY ACTION PLAN

Casey County Overview

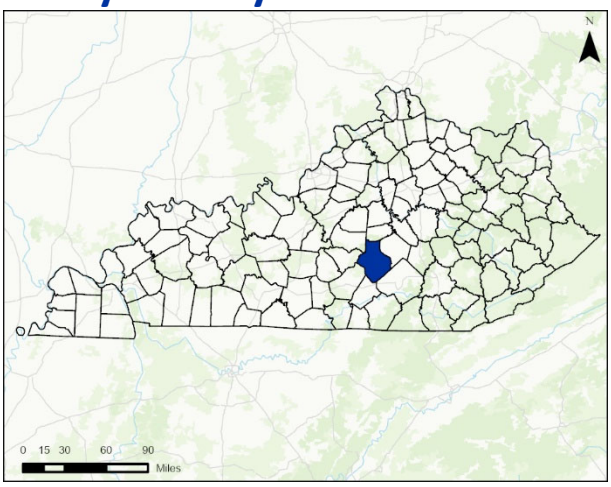


Exhibit Casey-1: Location Map

Key Information Table Casey County	
Population	15,918
Population in Persistent Poverty	26%
Underserved Community	**Yes**
Fatalities (All Roads)	15
Fatalities (County Roads)	2
Fatality Rate per 100,000 persons	**94.23**
County Road Mileage	503.4
State Road Mileage	248.8
Total Mileage	**752.1**

Exhibit Casey-2: Key Information

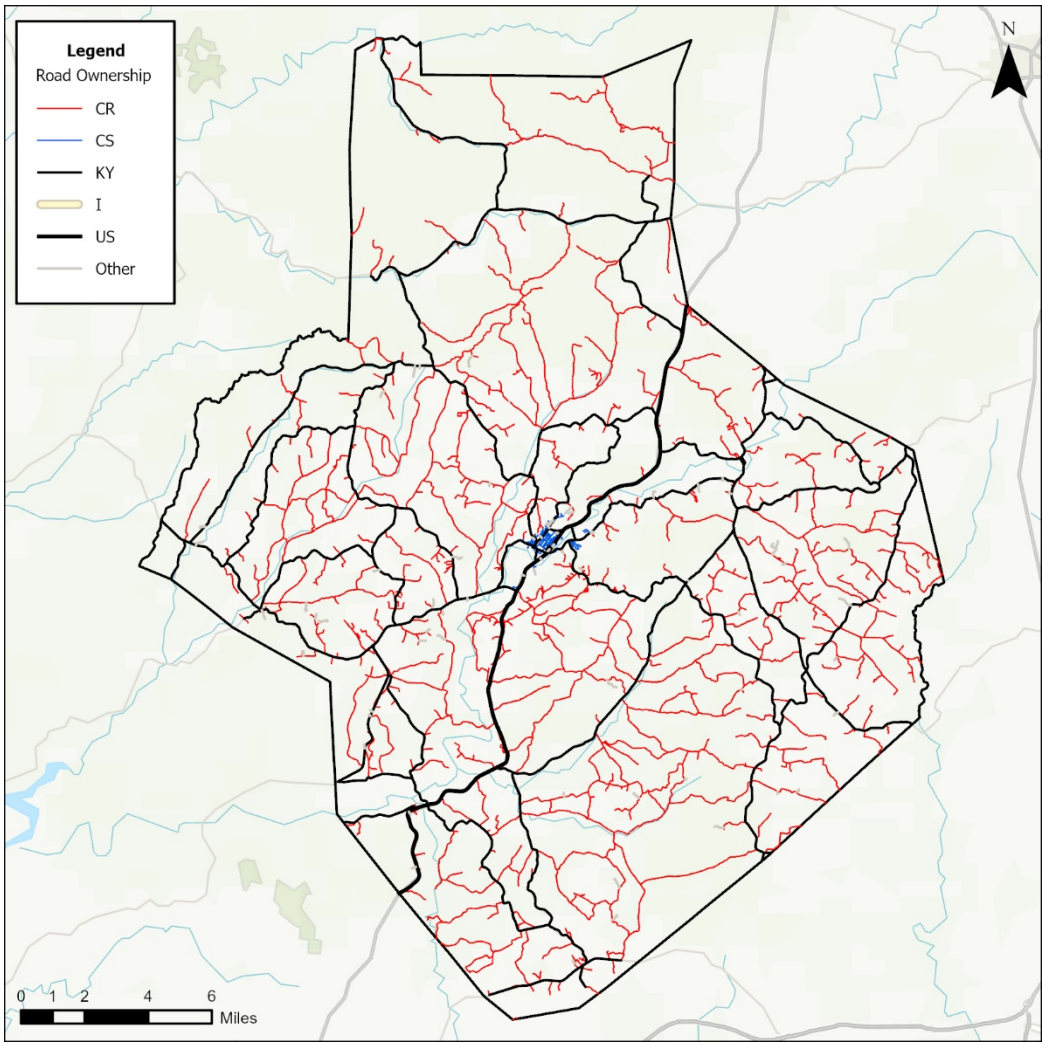


Figure Casey-3: Map of County Roadways

Crash Analysis

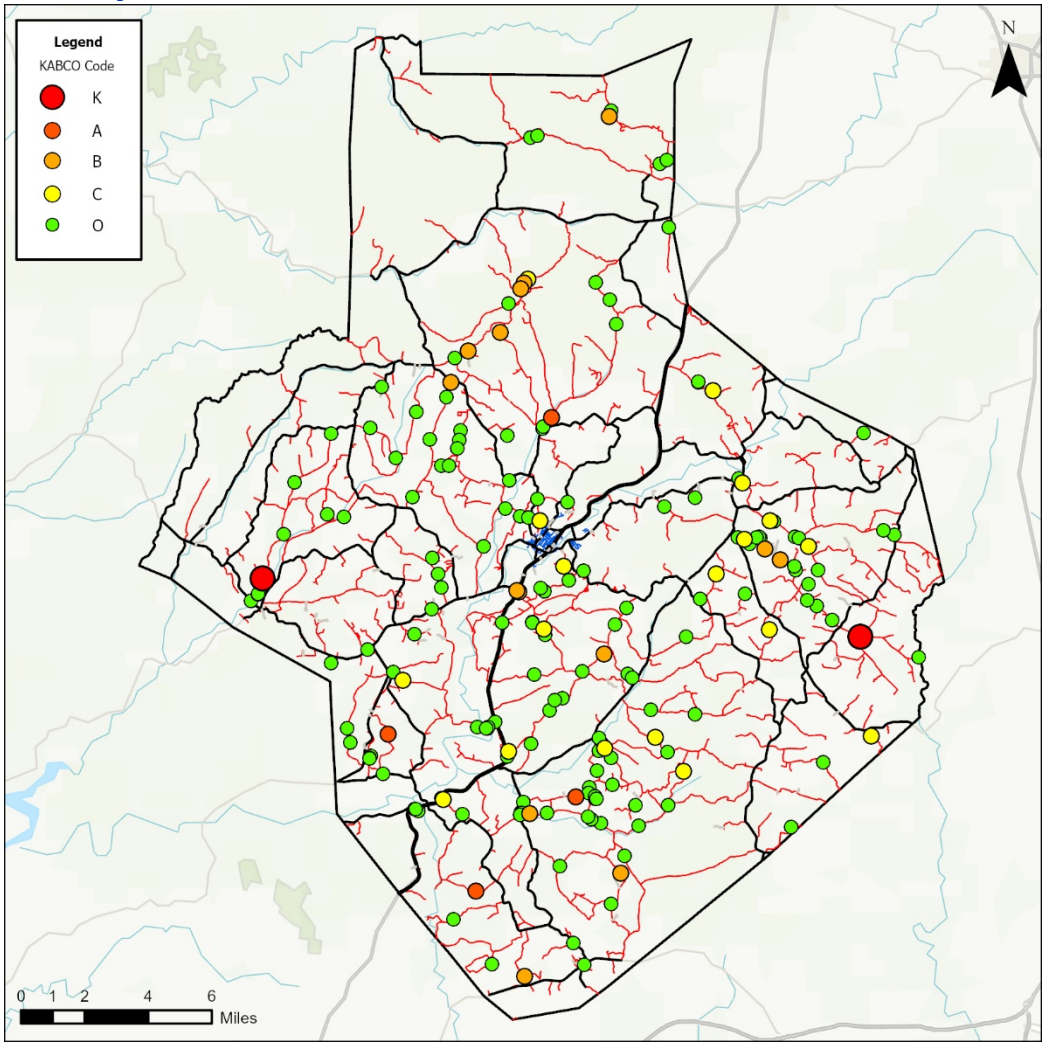
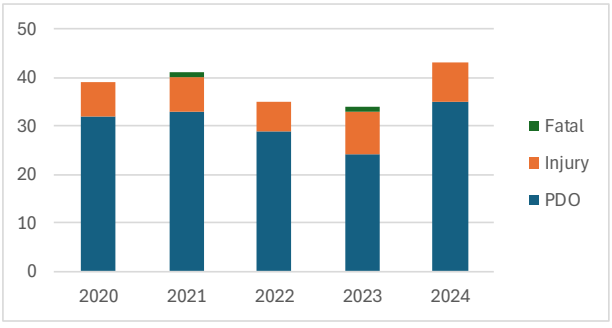


Figure Casey-4: Map of County Road Crashes



Year	Property Damage Only	Injury	Fatal	Total
2020	32	7	0	**39**
2021	33	7	1	**41**
2022	29	6	0	**35**
2023	24	9	1	**34**
2024	35	8	0	**43**

Figure Casey-5: Crash Distribution by Year

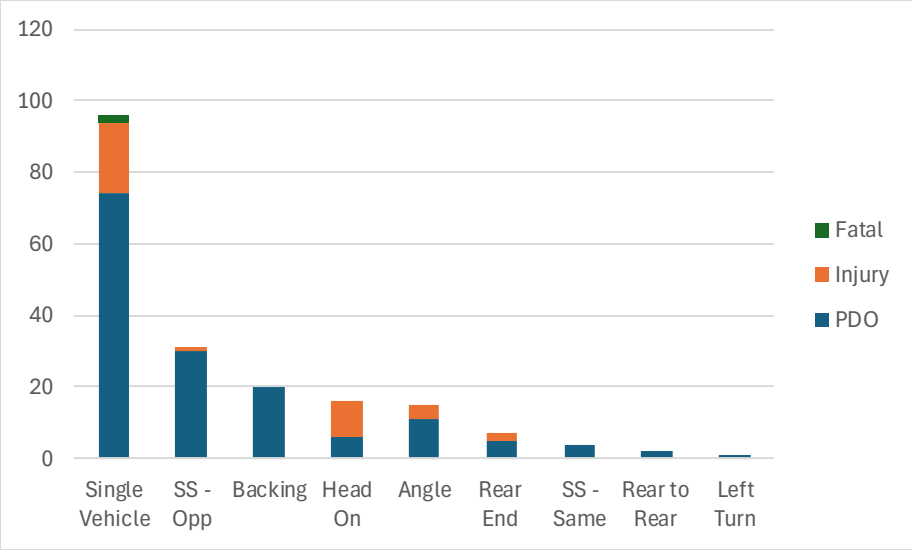


Exhibit Casey-6: Crash Frequency and Severity by Manner of Collision

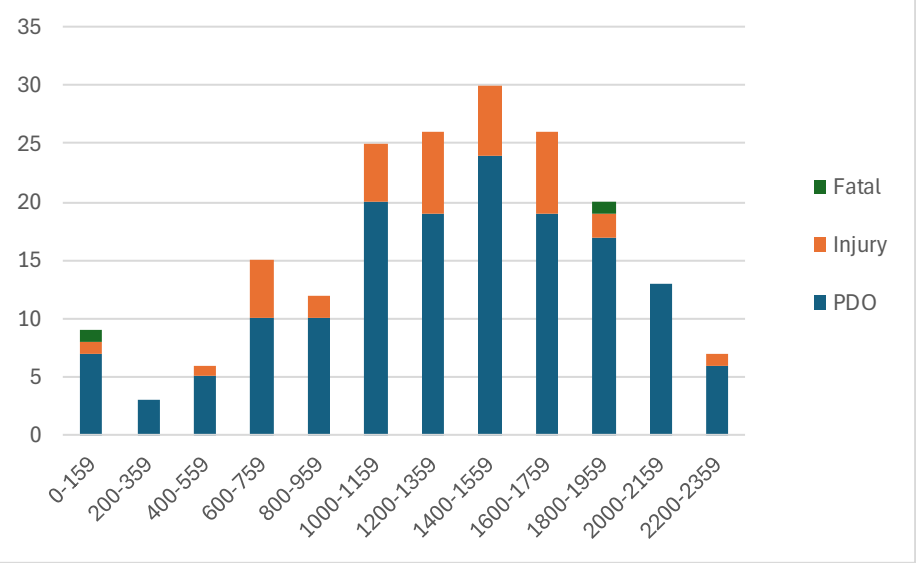


Figure Casey-7: Crashes and Severity by Time of Day

Focus Roadways

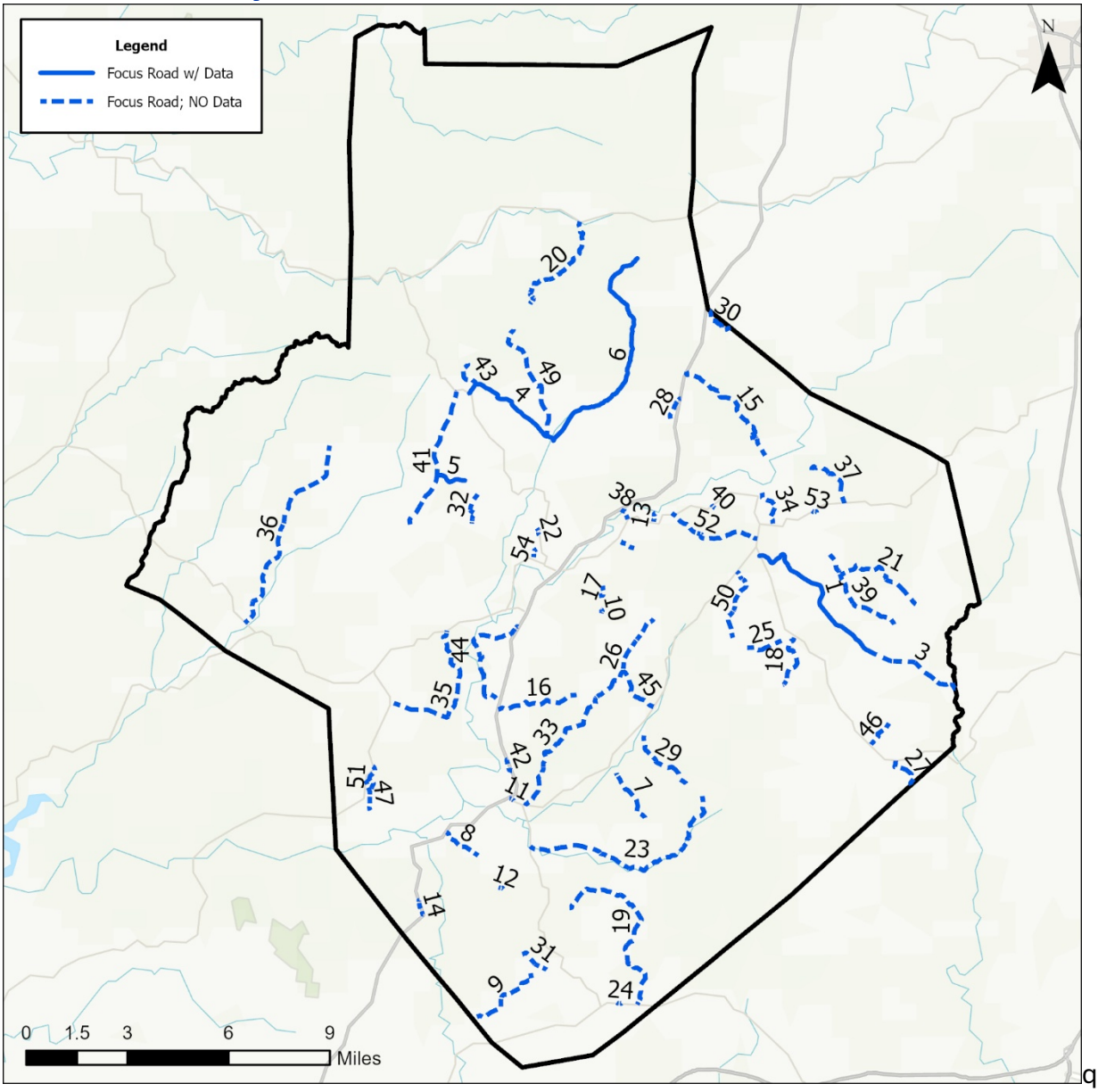


Exhibit Casey-8: Focus Roads

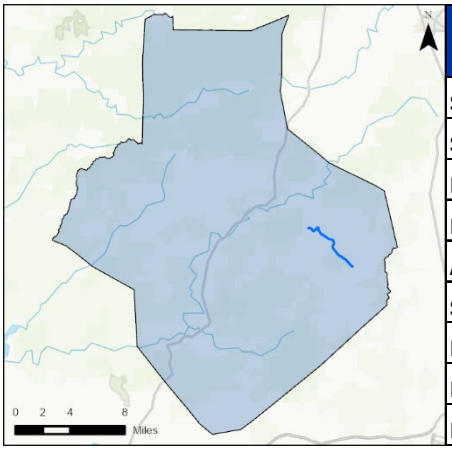
RT_UNIQUE	Length	County	Road Name	Injury Crashes	Fatal Crashes	PDO	CrashScore	UseScore	Rank	Focus Roads	Data Points	Roadway Data
Casey County												
023-CR-1132 -000	**5.1**	**Casey**	**CALVARY RIDGE RD**	**2**	**2**	**6**	**3.33**	**2.80**	**1**	**1**	**20**	**13**
023-CR-1031 -000	0.4	Casey	POND SCHOOL RD	0	2	1	1.81	1.56	2	1	0	0
023-CR-1104 -000	3.0	Casey	FISHING CREEK RD	0	0	0	0.00	3.11	3	1	0	0
023-CR-1339 -000	**3.4**	**Casey**	**REYNOLDS CREEK RD**	**0**	**0**	**0**	**0.00**	**3.01**	**4**	**1**	**9**	**7**
023-CR-1330 -000	**0.9**	**Casey**	**CALE BROWN RD**	**0**	**1**	**4**	**1.06**	**1.88**	**5**	**1**	**9**	**8**
023-CR-1006 -000	**7.4**	**Casey**	**UPPER BRUSH CREEK RD**	**1**	**0**	**2**	**2.41**	**0.47**	**6**	**1**	**16**	**8**
023-CR-1162 -000	1.7	Casey	HALON YOUNG RD	0	0	1	0.05	2.78	7	1	0	0
023-CR-1273 -000	1.2	Casey	SPRING HILL RD	0	0	6	0.28	2.35	8	1	0	0
023-CR-1202 -000	2.6	Casey	TURNER RIDGE RD	0	0	0	0.00	2.61	9	1	0	0
023-CR-1549 -000	0.2	Casey	MAZIES CT	0	0	0	0.00	2.56	10	1	0	0
023-CR-1649 -000	0.1	Casey	AARONS LOOP	0	0	0	0.00	2.54	11	1	0	0
023-CR-1628 -000	0.2	Casey	ROWE RD	0	0	0	0.00	2.54	12	1	0	0
023-CR-1410 -000	0.3	Casey	LANHAM CEMETERY	0	0	0	0.00	2.53	13	1	0	0
023-CR-1627 -000	0.5	Casey	OLD US 127 LOOP	0	0	0	0.00	2.52	14	1	0	0
023-CR-1022 -000	4.1	Casey	PATSY RIFFE RIDGE RD	0	1	2	0.97	1.36	15	1	0	0
023-CR-1249 -000	2.6	Casey	HENSON RIDGE RD	0	0	3	0.14	2.16	16	1	0	0
023-CR-1505D -000	0.4	Casey	BROOK DR	0	0	0	0.00	2.12	17	1	0	0
023-CR-1139 -000	1.8	Casey	ELMORE HILL RD	0	2	0	1.76	0.23	18	1	0	0
023-CR-1172 -000	6.0	Casey	MERRITT RIDGE RD	1	1	2	1.62	0.31	19	1	0	0
023-CR-1011 -000	3.5	Casey	LONG HOLLOW RD	1	1	1	1.57	0.25	20	1	0	0
023-CR-1035 -000	3.0	Casey	HURRICANE RIDGE RD	0	0	1	0.05	1.74	21	1	0	0
023-CR-1703 -000	0.2	Casey	BRYANT RIDGE HILL RD	0	1	0	0.88	0.90	22	1	0	0
023-CR-1122 -000	7.0	Casey	SOUTH FORK CREEK RD	0	1	8	1.25	0.45	23	1	0	0
023-CR-1553 -000	0.1	Casey	GODSEY DR	0	0	0	0.00	1.68	24	1	0	0
023-CR-1141 -000	1.1	Casey	PARTON RIDGE RD	0	0	0	0.00	1.66	25	1	0	0
023-CR-1524 -000	3.1	Casey	POPLAR SPRINGS RD	1	0	1	0.69	0.96	26	1	0	0
023-CR-1111 -000	1.1	Casey	BETHEL RIDGE RD	0	1	0	0.88	0.63	27	1	0	0
023-CR-1099 -000	0.7	Casey	LOOP RD (OLD KY 1552)	0	0	0	0.00	1.51	28	1	0	0
023-CR-1176 -000	2.1	Casey	MATHERLY RD	0	1	1	0.93	0.55	29	1	0	0
023-CR-1060 -000	1.0	Casey	NORRIS RD	0	0	0	0.00	1.32	30	1	0	0
023-CR-1208 -000	0.9	Casey	EAST PUMPKIN CHAPEL RD	0	0	0	0.00	1.32	31	1	0	0
023-CR-1327 -000	1.0	Casey	HOPEWELL RD	0	1	0	0.88	0.41	32	1	0	0
023-CR-1153 -000	4.3	Casey	CONTOWN RD	0	1	0	0.88	0.41	33	1	0	0
023-CR-1045 -000	1.2	Casey	EAST YOSEMITE RD	0	1	2	0.97	0.12	34	1	0	0
023-CR-1243 -000	4.6	Casey	LINNIE-RHEBER RD	0	1	0	0.88	0.20	35	1	0	0
023-CR-1316 -000	6.4	Casey	GUM LICK RD	0	0	3	0.14	0.94	36	1	0	0
023-CR-1041 -000	1.8	Casey	HIGH RIDGE RD	0	1	0	0.88	0.18	37	1	0	0
023-CR-1001 -000	0.4	Casey	ROYS MILL RD	0	0	0	0.00	1.06	38	1	0	0
023-CR-1133 -000	3.1	Casey	CARMAN CREEK RD	0	1	0	0.88	0.17	39	1	0	0
023-CR-1091A -000	0.2	Casey	DURHAMS PARK	0	0	0	0.00	1.03	40	1	0	0
023-CR-1331 -000	4.4	Casey	CANEY FORK RD	0	0	5	0.23	0.77	41	1	0	0
023-CR-1233 -000	0.4	Casey	ROBIN DR	0	0	0	0.00	0.95	42	1	0	0
023-CR-1398 -000	0.9	Casey	REYNOLDS CREEK SPUR RD	0	1	0	0.88	0.04	43	1	0	0
023-CR-1245 -000	3.8	Casey	SHUT-IN RD	0	1	0	0.88	0.04	44	1	0	0
023-CR-1152 -000	1.5	Casey	STRONG BRANCH RD	0	0	1	0.05	0.87	45	1	0	0
023-CR-1185 -000	0.9	Casey	MIKE MERRITT SOUTH RD	0	0	0	0.00	0.90	46	1	0	0
023-CR-1225 -000	0.9	Casey	RIFFE CREEK SCHOOL RD	0	0	0	0.00	0.89	47	1	0	0
023-CR-1404 -000	0.5	Casey	OB WILSON RD	0	0	0	0.00	0.89	48	1	0	0
023-CR-1344 -000	3.8	Casey	SNAKE RIDGE RD	1	0	0	0.65	0.24	49	1	0	0
023-CR-1144 -000	2.3	Casey	WILLOW SPRINGS RD	1	0	0	0.65	0.23	50	1	0	0
023-CR-1226 -000	0.9	Casey	COMBS RD	1	0	3	0.79	0.09	51	1	0	0
023-CR-1046 -000	3.0	Casey	DOE CREEK RD	1	0	2	0.74	0.13	52	1	0	0
023-CR-1402 -000	0.2	Casey	CORINTH CHURCH RD	0	0	0	0.00	0.84	53	1	0	0
023-CR-1395 -000	0.3	Casey	CAMPBELLS LN	1	0	0	0.65	0.19	54	1	0	0

Exhibit Casey-9: List of Focus Roadways

Recommended Improvements (Top 5 Roads)

CALVARY RIDGE RD (023-CR-1132 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	5	4	0	**9**
SS - Opp	2	0	0	**2**
Backing	1	0	0	**1**
Head On	1	0	0	**1**
Angle	1	0	0	**1**
SS - Same	0	0	0	**0**
Left Turn	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

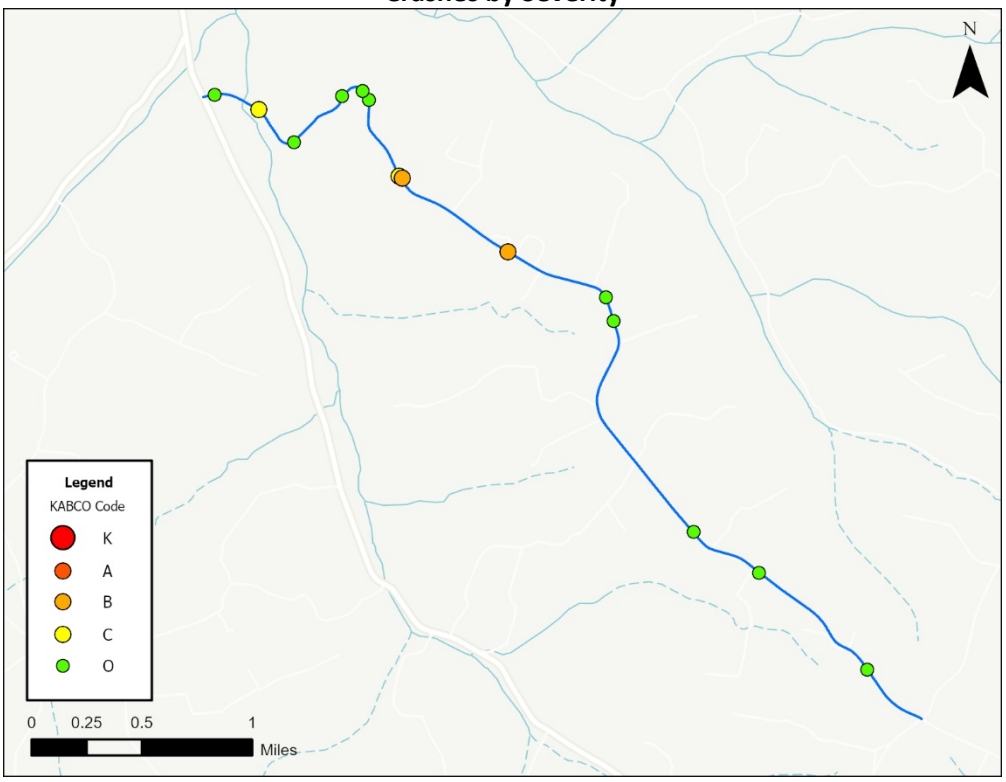
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4027	023-CR-1132 -000	CALVARY RIDGE RD	10	3	3	20-40	✓	✓	✓
4042	023-CR-1132 -000	CALVARY RIDGE RD	10	3	3	0-20		✓	✓
4043	023-CR-1132 -000	CALVARY RIDGE RD	10	3	2	0-20		✓	✓
4046	023-CR-1132 -000	CALVARY RIDGE RD	10	4	2	0-20		✓	✓

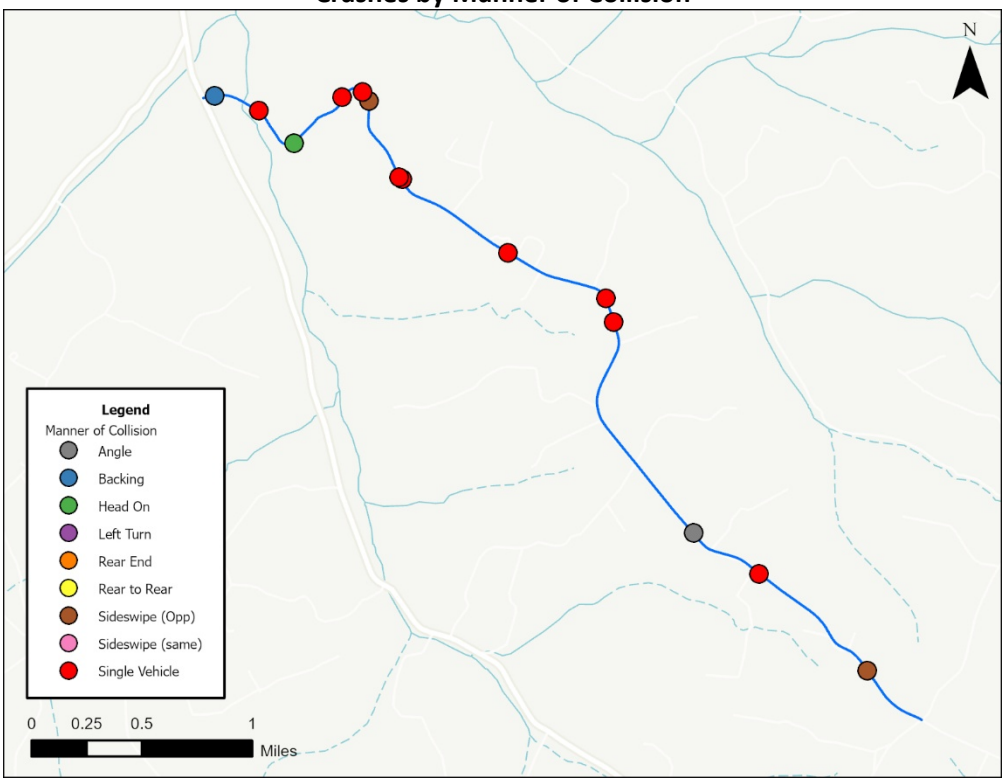
Roadway Typical Section



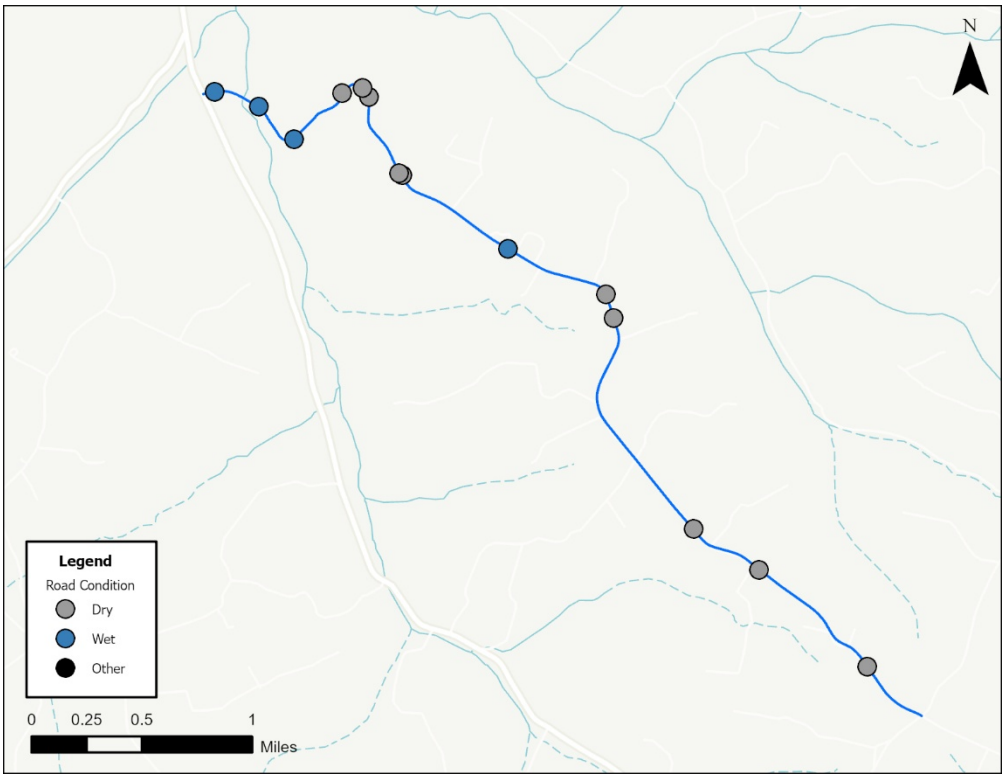
Crashes by Severity



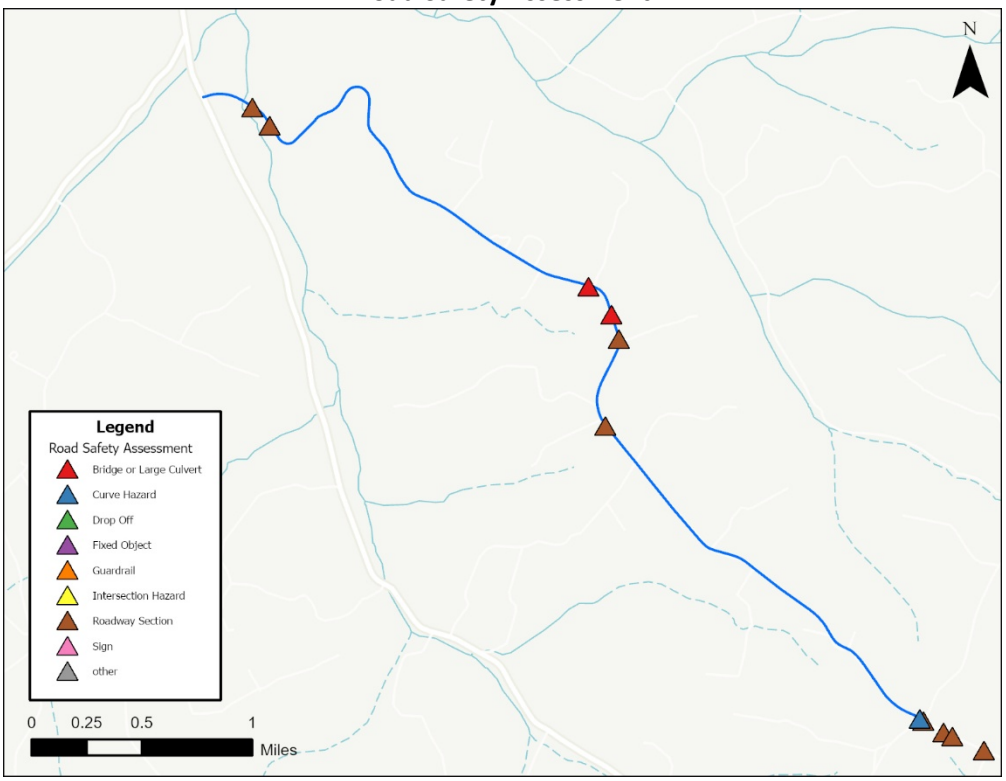
Crashes by Manner of Collision



Crashes by Road Condition



Road Safety Assessment



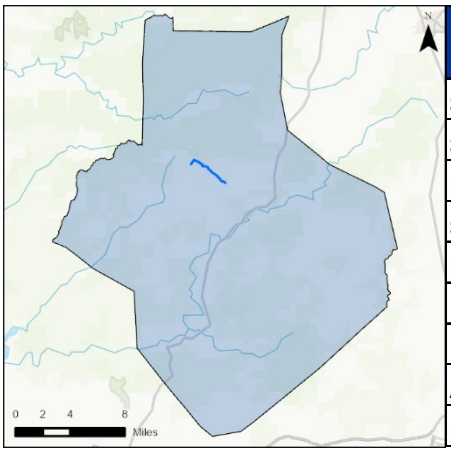
General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
4044	023-CR-1132 -000	CALVARY RIDGE RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4045	023-CR-1132 -000	CALVARY RIDGE RD	10	4	2	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
4041	023-CR-1132 -000	CALVARY RIDGE RD	vegetation,Curve Obscured	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation

REYNOLDS CREEK RD (023-CR-1339 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	0	0	0	**0**
SS - Same	0	0	0	**0**
Head On	0	0	0	**0**
SS - Opp	0	0	0	**0**
Backing	0	0	0	**0**
Rear End	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Angle	0	0	0	**0**
Left Turn	0	0	0	**0**

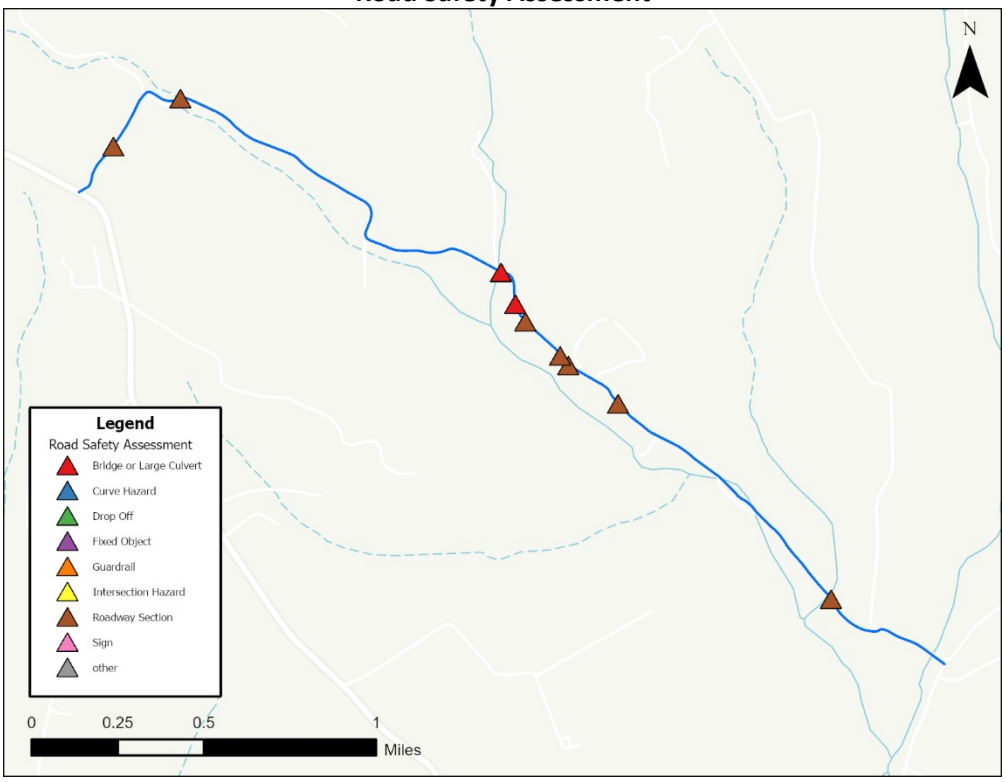
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4065	023-CR-1339 -000	REYNOLDS CREEK RD	10	3	2	0-20		✓	✓
4066	023-CR-1339 -000	REYNOLDS CREEK RD	10	3	1	80-100	✓	✓	✓
4067	023-CR-1339 -000	REYNOLDS CREEK RD	10	3	1	80-100	✓	✓	✓
4068	023-CR-1339 -000	REYNOLDS CREEK RD	10	3	1	80-100	✓	✓	✓
4069	023-CR-1339 -000	REYNOLDS CREEK RD	10	3	1	80-100	✓	✓	✓
4072	023-CR-1339 -000	REYNOLDS CREEK RD	10	3	1	0-20		✓	✓
4073	023-CR-1339 -000	REYNOLDS CREEK RD	10	3	2	20-40	✓	✓	✓

Roadway Typical Section



Road Safety Assessment

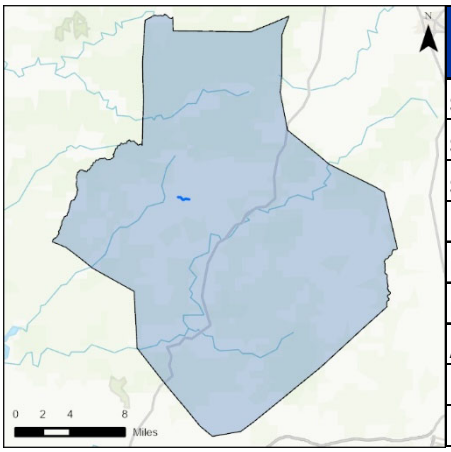


General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
4063	023-CR-1339 -000	REYNOLDS CREEK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4064	023-CR-1339 -000	REYNOLDS CREEK RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4070	023-CR-1339 -000	REYNOLDS CREEK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4071	023-CR-1339 -000	REYNOLDS CREEK RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.

CALE BROWN RD (023-CR-1330 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	2	0	0	**2**
SS - Same	0	0	0	**0**
SS - Opp	0	0	0	**0**
Left Turn	0	0	0	**0**
Head On	0	0	0	**0**
Backing	0	0	0	**0**
Angle	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

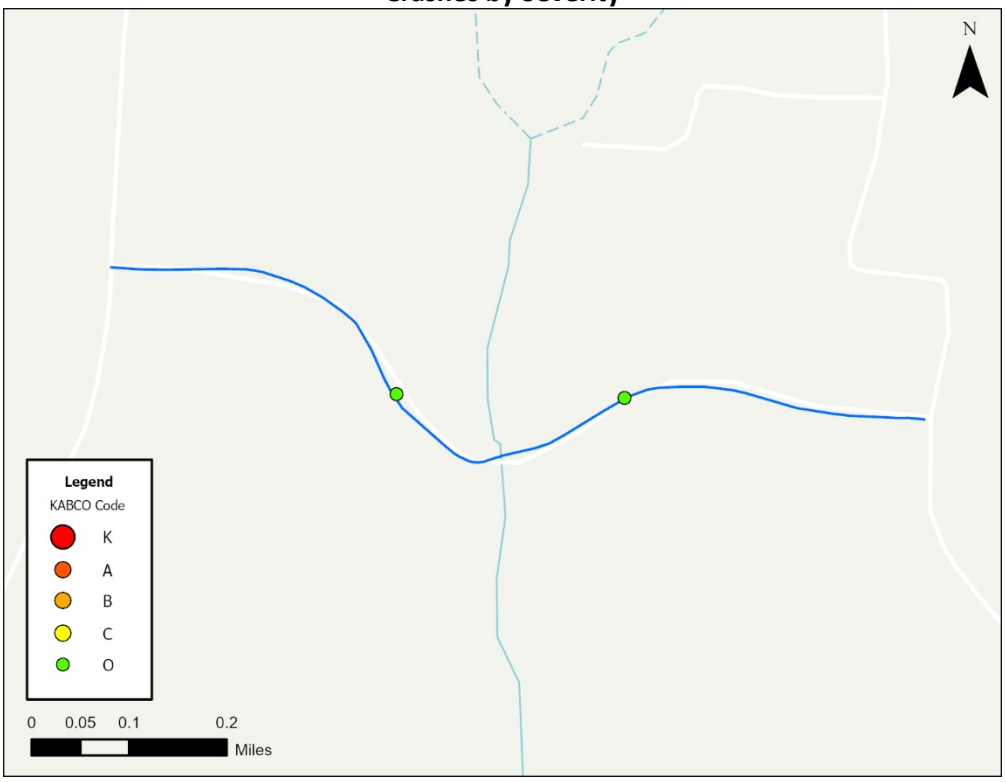
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4074	023-CR-1330 -000	CALE BROWN RD	10	2	1	0-20		✓	✓
4075	023-CR-1330 -000	CALE BROWN RD	10	2	1	0-20		✓	✓
4077	023-CR-1330 -000	CALE BROWN RD	10	2	1	0-20		✓	✓
4078	023-CR-1330 -000	CALE BROWN RD	10	1	3	80-100	✓	✓	✓
4079	023-CR-1330 -000	CALE BROWN RD	10	1	3	40-60	✓	✓	✓
4080	023-CR-1330 -000	CALE BROWN RD	10	3	2	20-40	✓	✓	✓
4081	023-CR-1330 -000	CALE BROWN RD	10	3	2	0-20		✓	✓
4082	023-CR-1330 -000	CALE BROWN RD	10	3	1	20-40	✓	✓	✓

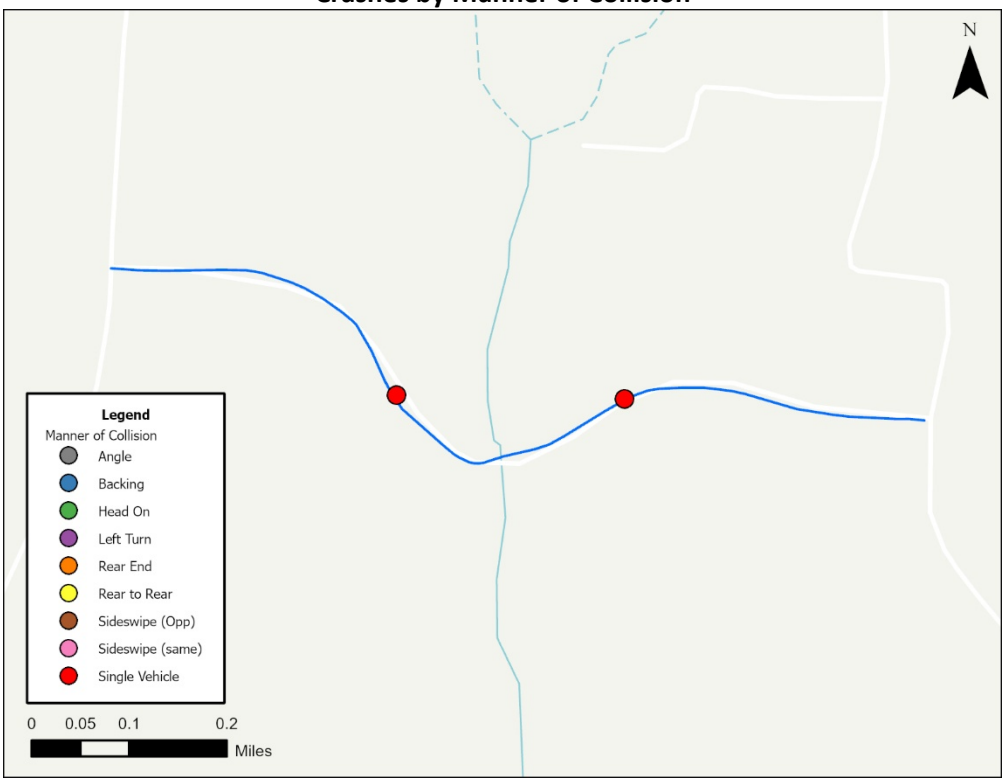
Roadway Typical Section



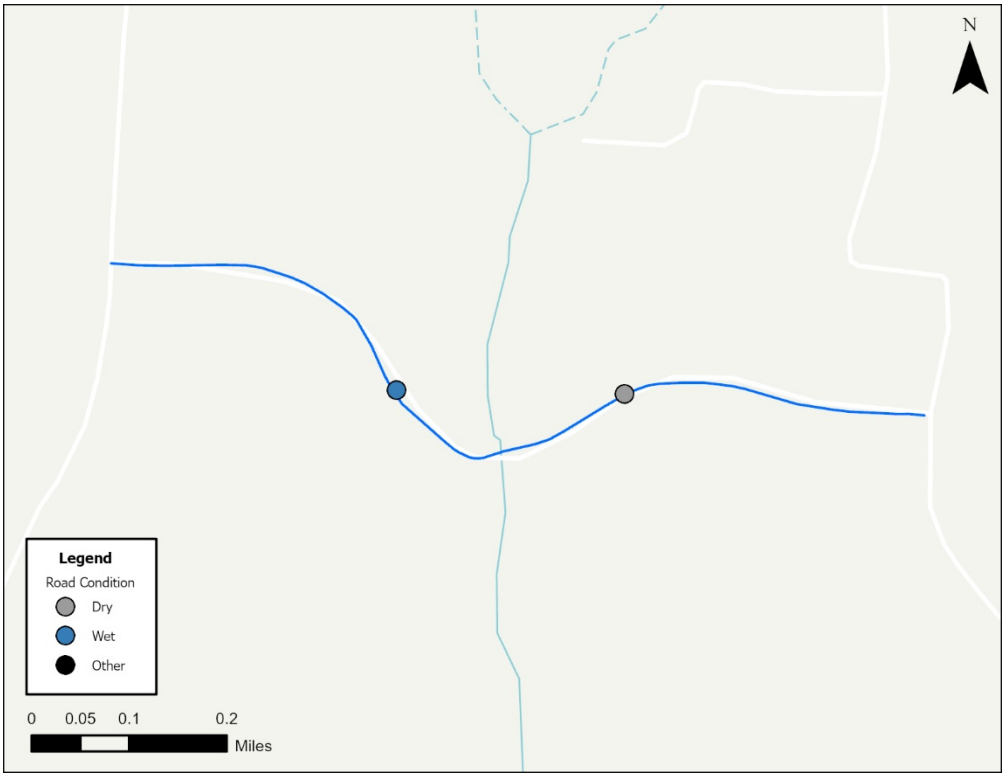
Crashes by Severity



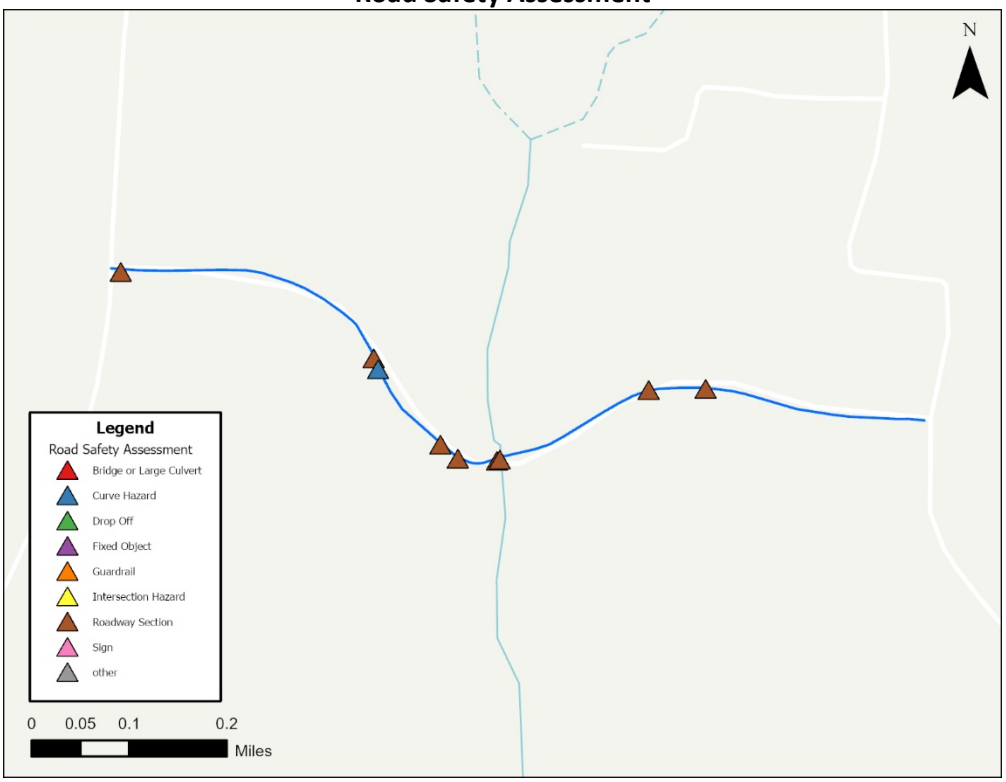
Crashes by Manner of Collision



Road Condition



Road Safety Assessment

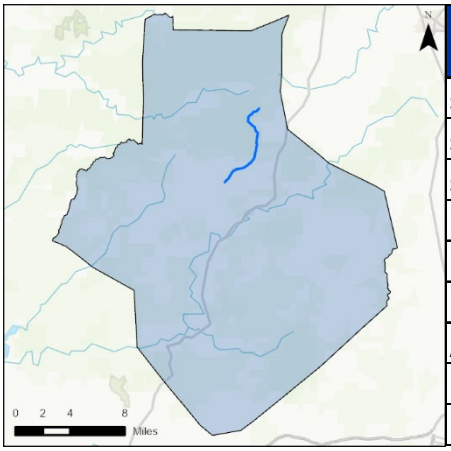


General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
4076	023-CR-1330 -000	CALE BROWN RD	Curve Obscured,vegetation	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation

UPPER BRUSH CREEK RD (023-CR-1006 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	3	1	0	**4**
SS - Opp	2	0	0	**2**
SS - Same	0	0	0	**0**
Left Turn	0	0	0	**0**
Head On	0	0	0	**0**
Backing	0	0	0	**0**
Angle	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

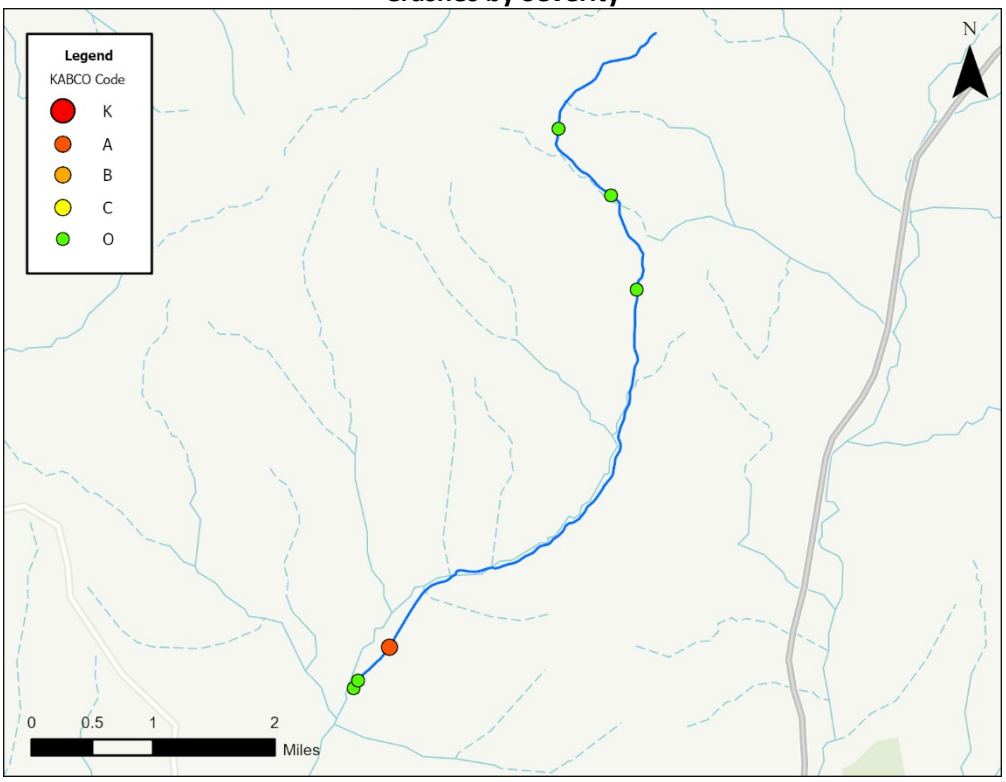
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4052	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	3	2	0-20		✓	✓
4053	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	5	1	0-20		✓	✓
4055	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	3	3	20-40	✓	✓	✓
4057	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	3	2	20-40	✓	✓	✓
4058	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	3	2	20-40	✓	✓	✓
4059	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	3	2	20-40	✓	✓	✓
4061	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	2	1	0-20		✓	✓
4062	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	4	1	0-20		✓	✓

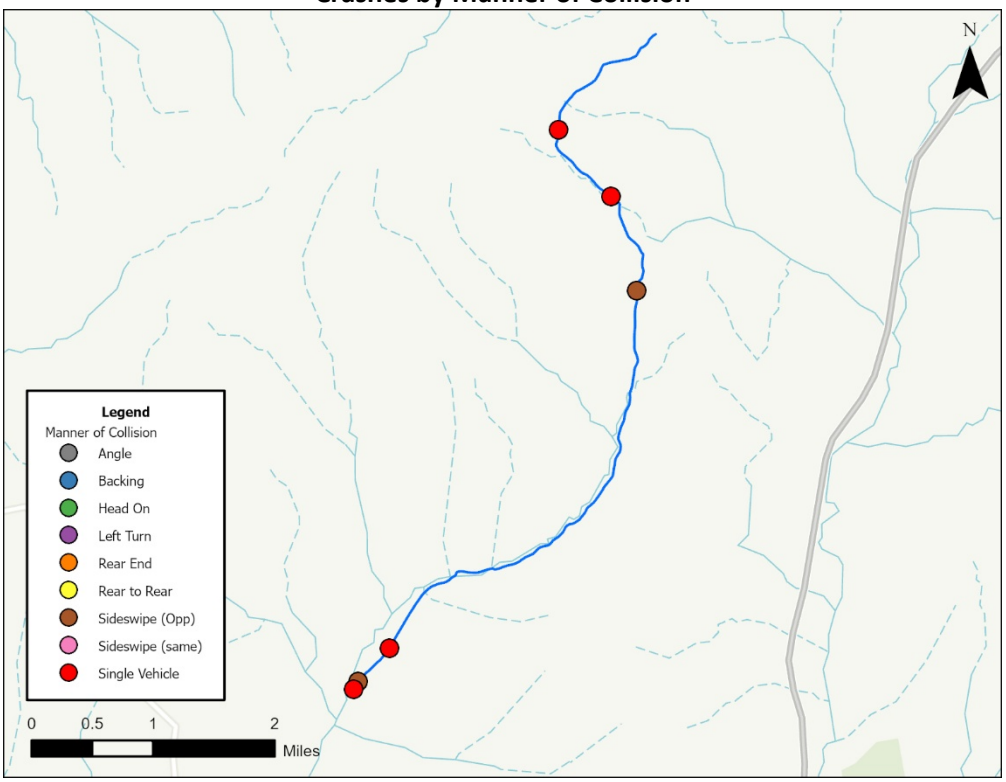
Roadway Typical Section



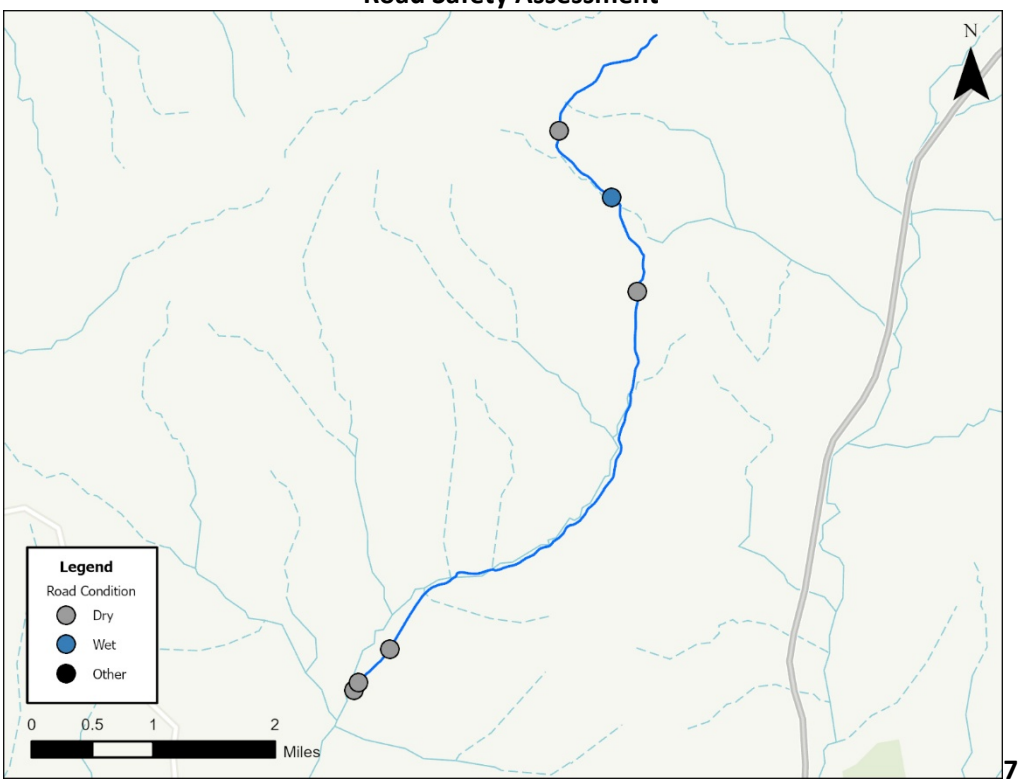
Crashes by Severity



Crashes by Manner of Collision

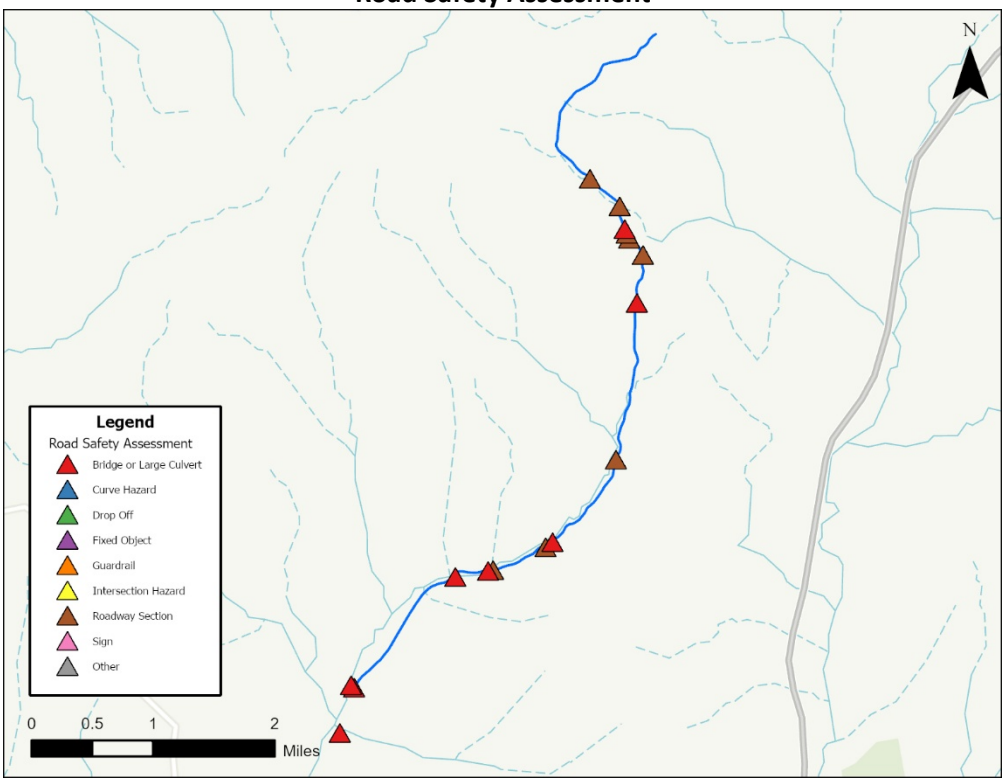


Road Safety Assessment



7

Road Safety Assessment



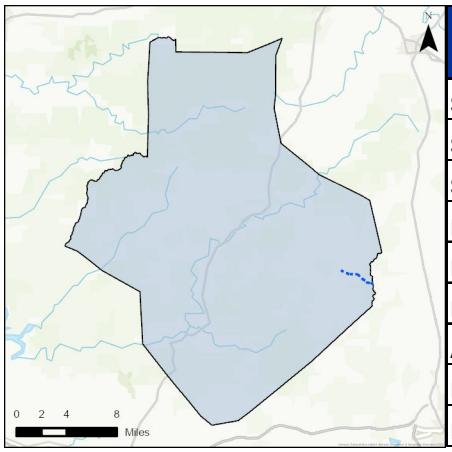
General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4052	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	3	2	0-20		✓	✓
4053	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	5	1	0-20		✓	✓
4055	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	3	3	20-40	✓	✓	✓
4057	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	3	2	20-40	✓	✓	✓
4058	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	3	2	20-40	✓	✓	✓
4059	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	3	2	20-40	✓	✓	✓
4061	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	2	1	0-20		✓	✓
4062	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	4	1	0-20		✓	✓

Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
4047	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	4	4	Install "One Lane Bridge" (W5-1) Sign.
4048	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	4	4	Install "One Lane Bridge" (W5-1) Sign.
4049	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4050	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4051	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4054	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4056	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4060	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.

FISHING CREEK RD (023-CR-1104 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	1	0	1	**2**
SS - Same	0	0	0	**0**
SS - Opp	0	0	0	**0**
Left Turn	0	0	0	**0**
Head On	0	0	0	**0**
Backing	0	0	0	**0**
Angle	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

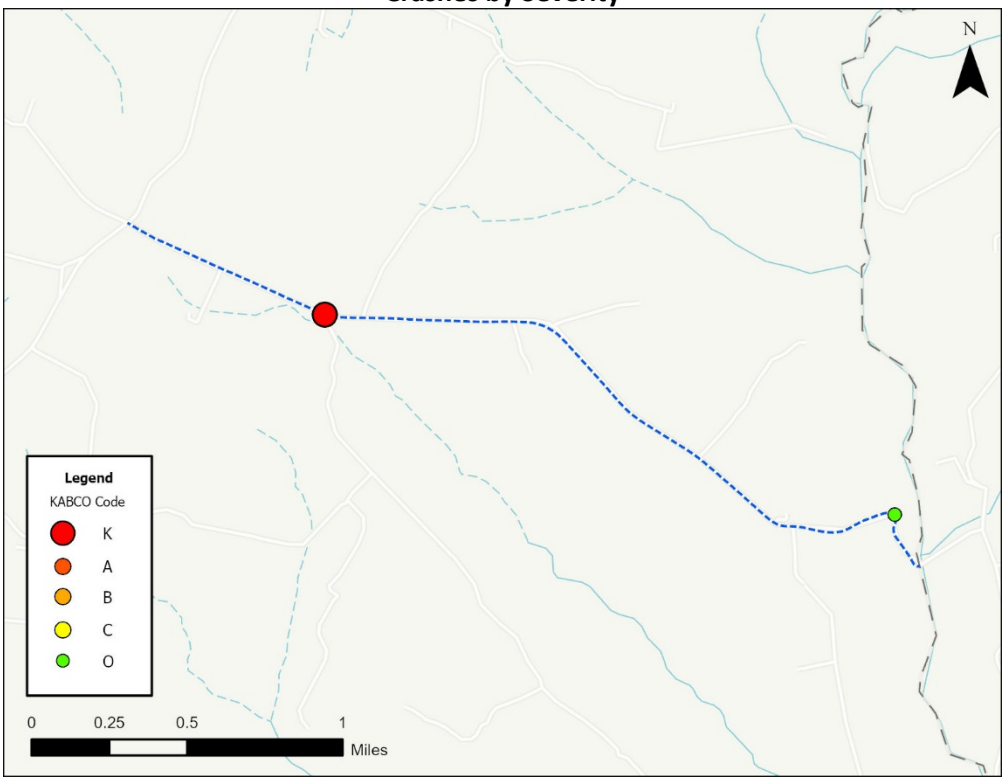
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4028	023-CR-1104 -000	FISHING CREEK RD	10	3	2	0-20		✓	✓
4029	023-CR-1104 -000	FISHING CREEK RD	10	3	2	0-20		✓	✓
4030	023-CR-1104 -000	FISHING CREEK RD	10	3	2	0-20		✓	✓
4031	023-CR-1104 -000	FISHING CREEK RD	10	3	2	0-20		✓	✓
4032	023-CR-1104 -000	FISHING CREEK RD	10	3	2	80-100	✓	✓	✓
4034	023-CR-1104 -000	FISHING CREEK RD	10	3	1	80-100	✓	✓	✓
4035	023-CR-1104 -000	FISHING CREEK RD	10	2	3	20-40	✓	✓	✓
4036	023-CR-1104 -000	FISHING CREEK RD	10	3	3	20-40	✓	✓	✓
4040	023-CR-1104 -000	FISHING CREEK RD	10	4	1	0-20		✓	✓
4568	023-CR-1104 -000	FISHING CREEK RD	16	3	3	20-40	✓	✓	✓

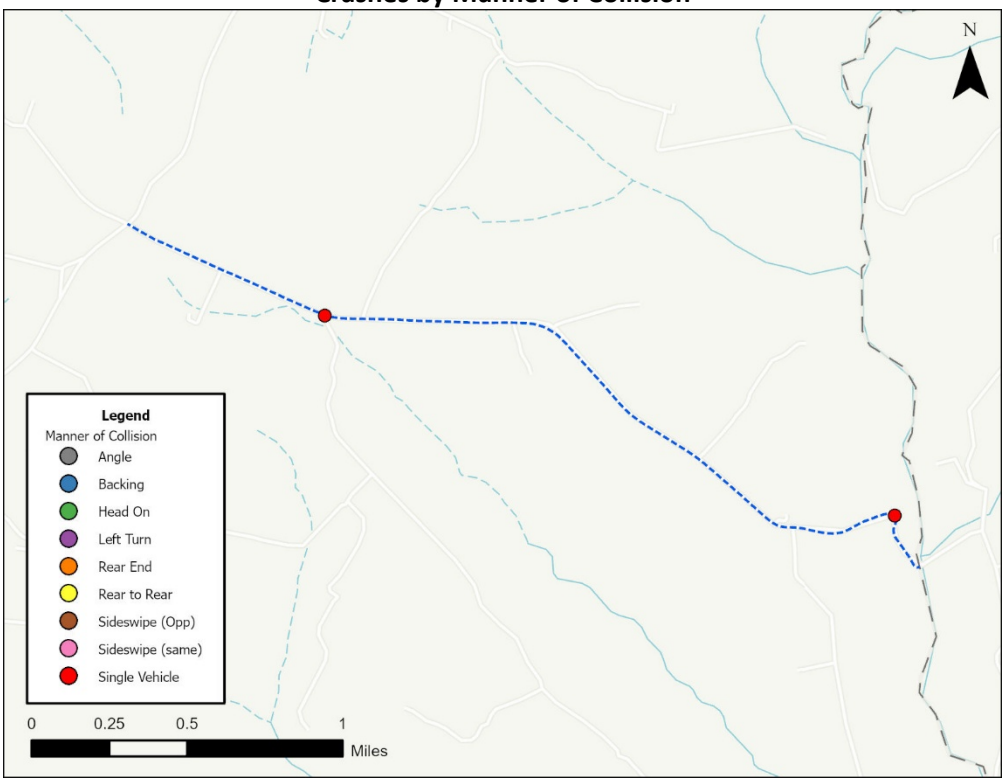
Roadway Typical Section



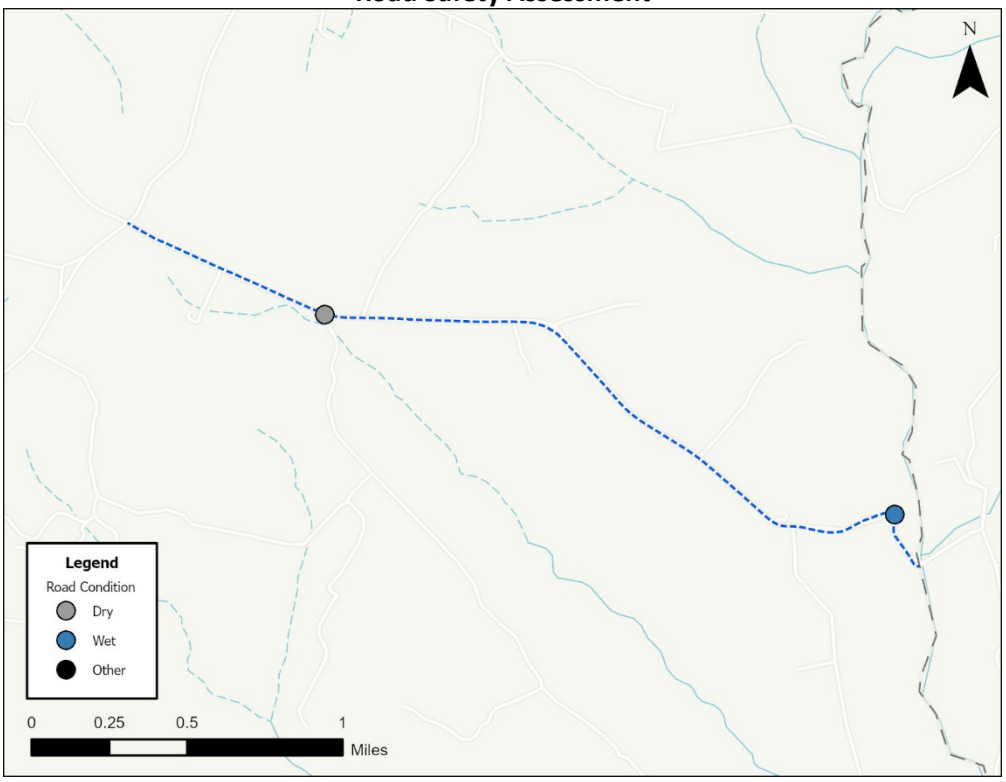
Crashes by Severity



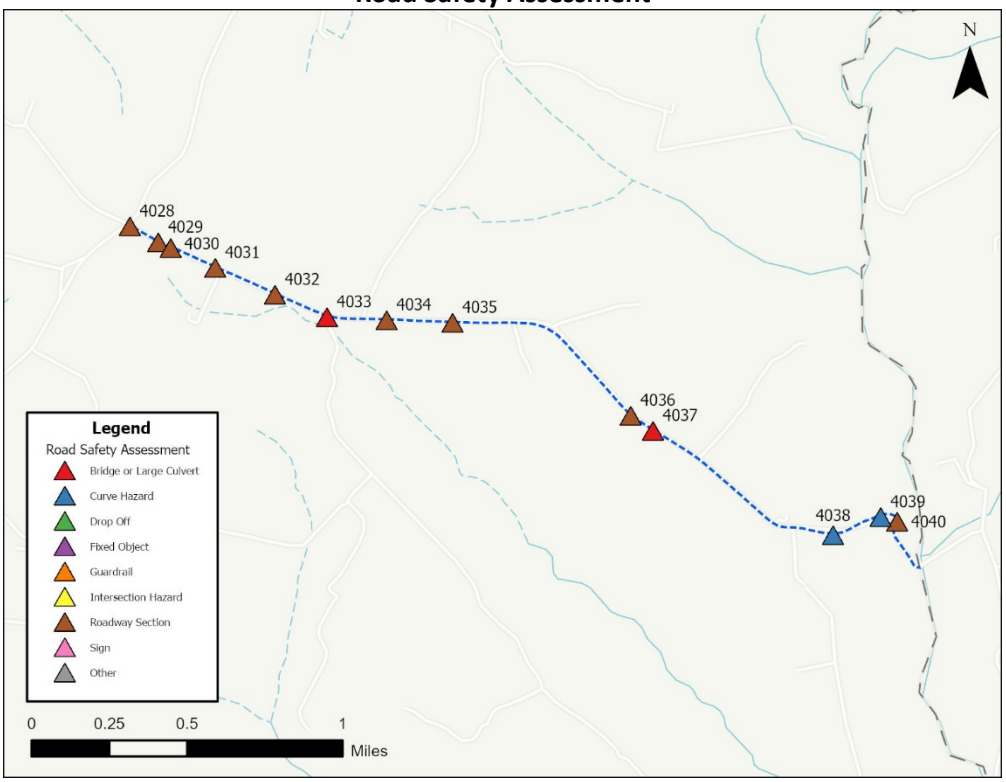
Crashes by Manner of Collision



Road Safety Assessment



Road Safety Assessment



General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4028	023-CR-1104 -000	FISHING CREEK RD	10	3	2	0-20		✓	✓
4029	023-CR-1104 -000	FISHING CREEK RD	10	3	2	0-20		✓	✓
4030	023-CR-1104 -000	FISHING CREEK RD	10	3	2	0-20		✓	✓
4031	023-CR-1104 -000	FISHING CREEK RD	10	3	2	0-20		✓	✓
4032	023-CR-1104 -000	FISHING CREEK RD	10	3	2	80-100	✓	✓	✓
4034	023-CR-1104 -000	FISHING CREEK RD	10	3	1	80-100	✓	✓	✓
4035	023-CR-1104 -000	FISHING CREEK RD	10	2	3	20-40	✓	✓	✓
4036	023-CR-1104 -000	FISHING CREEK RD	10	3	3	20-40	✓	✓	✓
4040	023-CR-1104 -000	FISHING CREEK RD	10	4	1	0-20		✓	✓
4568	023-CR-1104 -000	FISHING CREEK RD	16	3	3	20-40	✓	✓	✓

Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
4033	023-CR-1104 -000	FISHING CREEK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4037	023-CR-1104 -000	FISHING CREEK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
4038	023-CR-1104 -000	FISHING CREEK RD	Curve Obscured,vegetation	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation
4039	023-CR-1104 -000	FISHING CREEK RD	Curve Obscured,vegetation	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation

Other Roadways

General Roadway Conditions and Recommendations (Casey County)

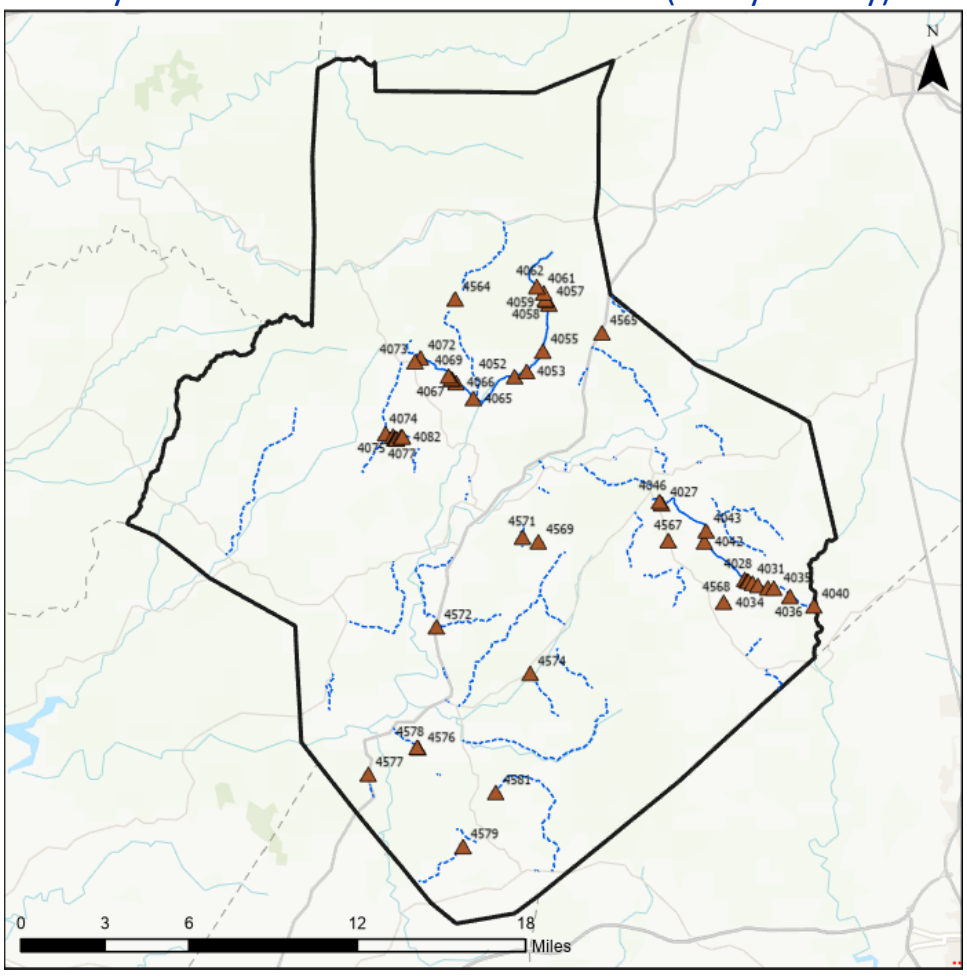


Exhibit Casey-10: General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4569	023-CR-1505D -000	BROOK DR	15	4	2	20-40	✓	✓	✓
4074	023-CR-1330 -000	CALE BROWN RD	10	2	1	0-20		✓	✓
4075	023-CR-1330 -000	CALE BROWN RD	10	2	1	0-20		✓	✓
4077	023-CR-1330 -000	CALE BROWN RD	10	2	1	0-20		✓	✓
4078	023-CR-1330 -000	CALE BROWN RD	10	1	3	80-100	✓	✓	✓
4079	023-CR-1330 -000	CALE BROWN RD	10	1	3	40-60	✓	✓	✓
4080	023-CR-1330 -000	CALE BROWN RD	10	3	2	20-40	✓	✓	✓
4081	023-CR-1330 -000	CALE BROWN RD	10	3	2	0-20		✓	✓
4082	023-CR-1330 -000	CALE BROWN RD	10	3	1	20-40	✓	✓	✓
4027	023-CR-1132 -000	CALVARY RIDGE RD	10	3	3	20-40	✓	✓	✓
4042	023-CR-1132 -000	CALVARY RIDGE RD	10	3	3	0-20		✓	✓
4043	023-CR-1132 -000	CALVARY RIDGE RD	10	3	2	0-20		✓	✓
4046	023-CR-1132 -000	CALVARY RIDGE RD	10	4	2	0-20		✓	✓
4567	023-CR-1139 -000	ELMORE HILL RD	18	4	4	40-60	✓	✓	✓
4028	023-CR-1104 -000	FISHING CREEK RD	10	3	2	0-20		✓	✓
4029	023-CR-1104 -000	FISHING CREEK RD	10	3	2	0-20		✓	✓
4030	023-CR-1104 -000	FISHING CREEK RD	10	3	2	0-20		✓	✓
4031	023-CR-1104 -000	FISHING CREEK RD	10	3	2	0-20		✓	✓
4032	023-CR-1104 -000	FISHING CREEK RD	10	3	2	80-100	✓	✓	✓
4034	023-CR-1104 -000	FISHING CREEK RD	10	3	1	80-100	✓	✓	✓
4035	023-CR-1104 -000	FISHING CREEK RD	10	2	3	20-40	✓	✓	✓
4036	023-CR-1104 -000	FISHING CREEK RD	10	3	3	20-40	✓	✓	✓
4040	023-CR-1104 -000	FISHING CREEK RD	10	4	1	0-20		✓	✓
4568	023-CR-1104 -000	FISHING CREEK RD	16	3	3	20-40	✓	✓	✓
4574	023-CR-1162 -000	HALON YOUNG RD	18	4	3	20-40	✓	✓	✓
4572	023-CR-1249 -000	HENSON RIDGE RD	18	3	3	20-40	✓	✓	✓
4564	023-CR-1011 -000	LONG HOLLOW RD	11	1	5	60-80	✓	✓	✓
4571	023-CR-1549 -000	MAZIES CT	13	3	3	0-20		✓	✓
4581	023-CR-1172 -000	MERRITT RIDGE RD	16	4	3	20-40	✓	✓	✓
4577	023-CR-1627 -000	OLD US 127 LOOP	15	4	2	20-40	✓	✓	✓
4565	023-CR-1022 -000	PATSY RIFFE RIDGE RD	14	3	4	40-60	✓	✓	✓
4065	023-CR-1339 -000	REYNOLDS CREEK RD	10	3	2	0-20		✓	✓
4066	023-CR-1339 -000	REYNOLDS CREEK RD	10	3	1	80-100	✓	✓	✓
4067	023-CR-1339 -000	REYNOLDS CREEK RD	10	3	1	80-100	✓	✓	✓
4068	023-CR-1339 -000	REYNOLDS CREEK RD	10	3	1	80-100	✓	✓	✓
4069	023-CR-1339 -000	REYNOLDS CREEK RD	10	3	1	80-100	✓	✓	✓
4072	023-CR-1339 -000	REYNOLDS CREEK RD	10	3	1	0-20		✓	✓
4073	023-CR-1339 -000	REYNOLDS CREEK RD	10	3	2	20-40	✓	✓	✓
4576	023-CR-1273 -000	SPRING HILL RD	18	4	2	0-20		✓	✓
4578	023-CR-1273 -000	SPRING HILL RD	10	1	7	80-100	✓	✓	✓
4579	023-CR-1202 -000	TURNER RIDGE RD	15	3	2	20-40	✓	✓	✓
4052	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	3	2	0-20		✓	✓
4053	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	5	1	0-20		✓	✓
4055	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	3	3	20-40	✓	✓	✓
4057	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	3	2	20-40	✓	✓	✓
4058	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	3	2	20-40	✓	✓	✓
4059	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	3	2	20-40	✓	✓	✓
4061	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	2	1	0-20		✓	✓
4062	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	4	1	0-20		✓	✓

Exhibit Casey-11: General Roadway Recommendations



Bridge / Culvert Recommendations (Casey County)

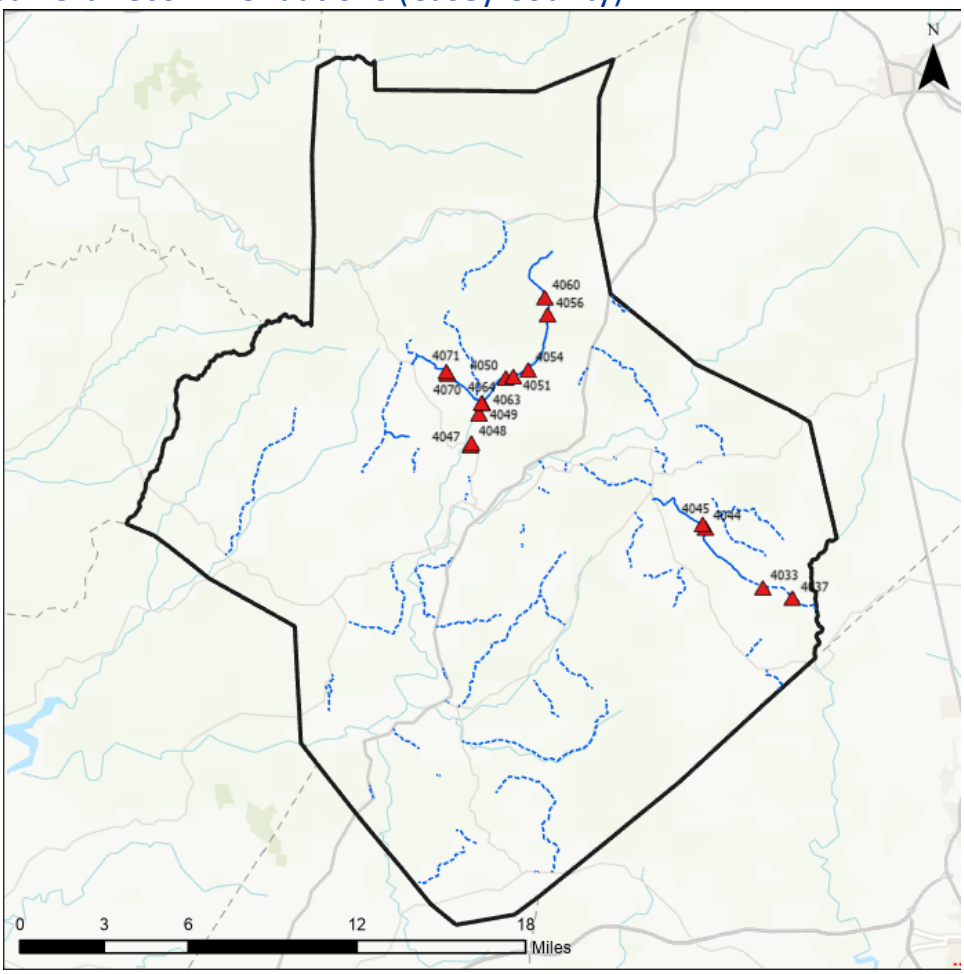


Exhibit Casey-12: Bridge / Culvert Locations

Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
4044	023-CR-1132 -000	CALVARY RIDGE RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4045	023-CR-1132 -000	CALVARY RIDGE RD	10	4	2	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4033	023-CR-1104 -000	FISHING CREEK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4037	023-CR-1104 -000	FISHING CREEK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4063	023-CR-1339 -000	REYNOLDS CREEK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4064	023-CR-1339 -000	REYNOLDS CREEK RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4070	023-CR-1339 -000	REYNOLDS CREEK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4071	023-CR-1339 -000	REYNOLDS CREEK RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4047	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	4	4	Install "One Lane Bridge" (W5-1) Sign.
4048	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	4	4	Install "One Lane Bridge" (W5-1) Sign.
4049	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4050	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4051	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4054	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4056	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4060	023-CR-1006 -000	UPPER BRUSH CREEK RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.

Exhibit Casey-13: Bridge / Culvert Recommendations

Curve Recommendations (Casey County)

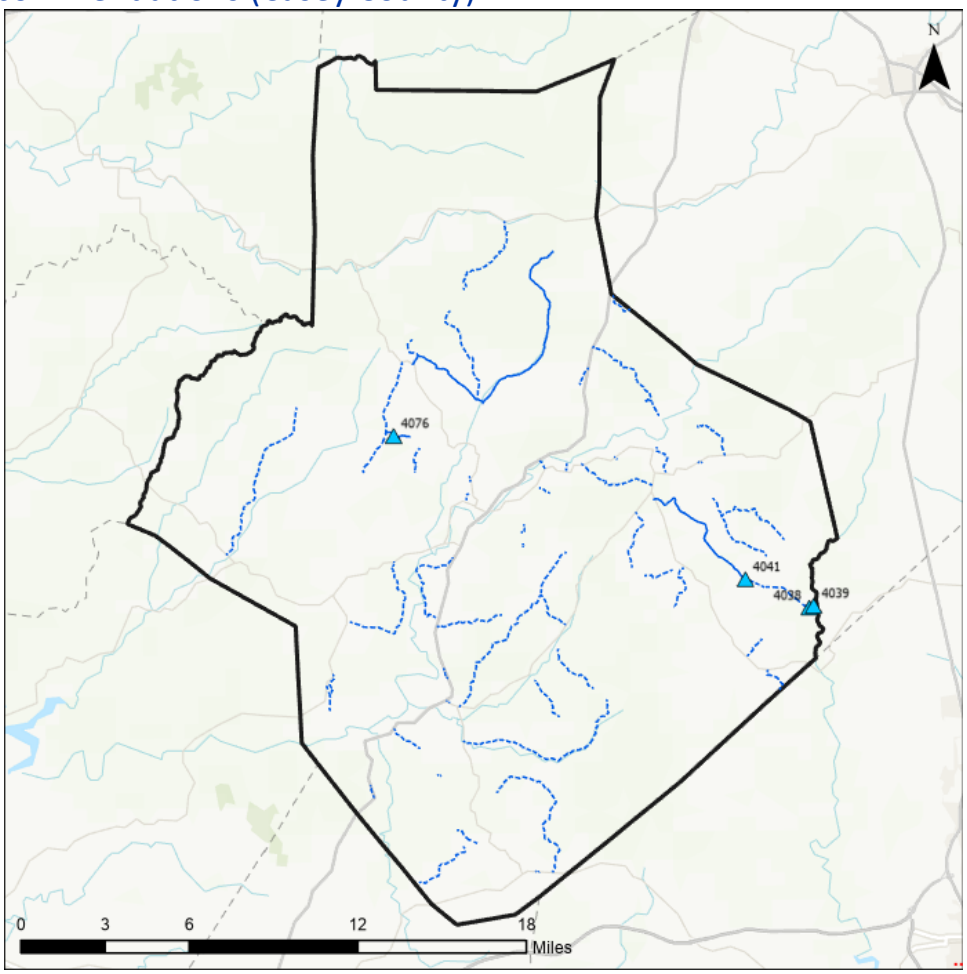


Exhibit Casey-14: Focus Road Curves

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
4038	023-CR-1104 -000	FISHING CREEK RD	Curve Obscured,vegetation	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation
4039	023-CR-1104 -000	FISHING CREEK RD	Curve Obscured,vegetation	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation
4041	023-CR-1132 -000	CALVARY RIDGE RD	vegetation,Curve Obscured	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation
4076	023-CR-1330 -000	CALE BROWN RD	Curve Obscured,vegetation	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation

Exhibit Casey-15: Curve Recommendations

Other Recommendations (Casey County)

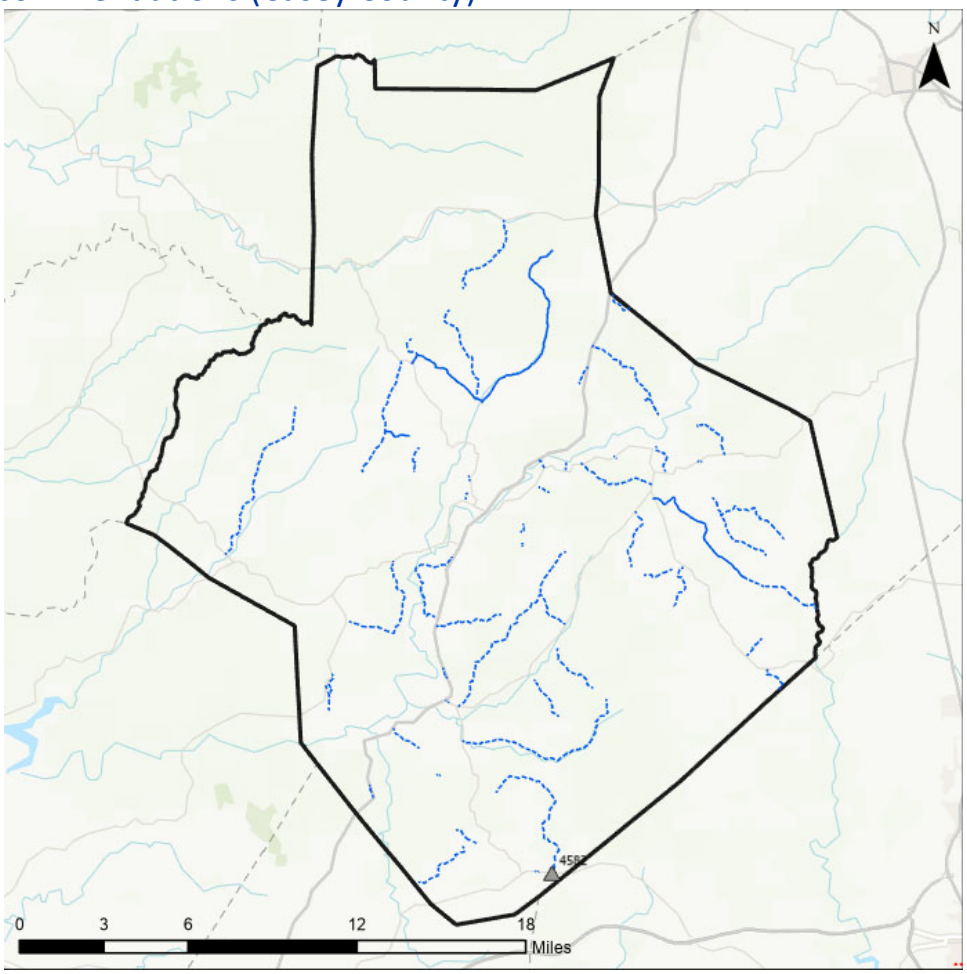


Exhibit Casey-16: Other Item Locations

Point ID	RT_UNIQUE	RD_NAME	Recommendations	Other
4582	023-CR-1172 -000	MERRITT RIDGE RD	Install advance curve signing and chevrons;	Blind curve

Exhibit Casey-17: Other Item Recommendations

Signing Recommendations (Casey County)

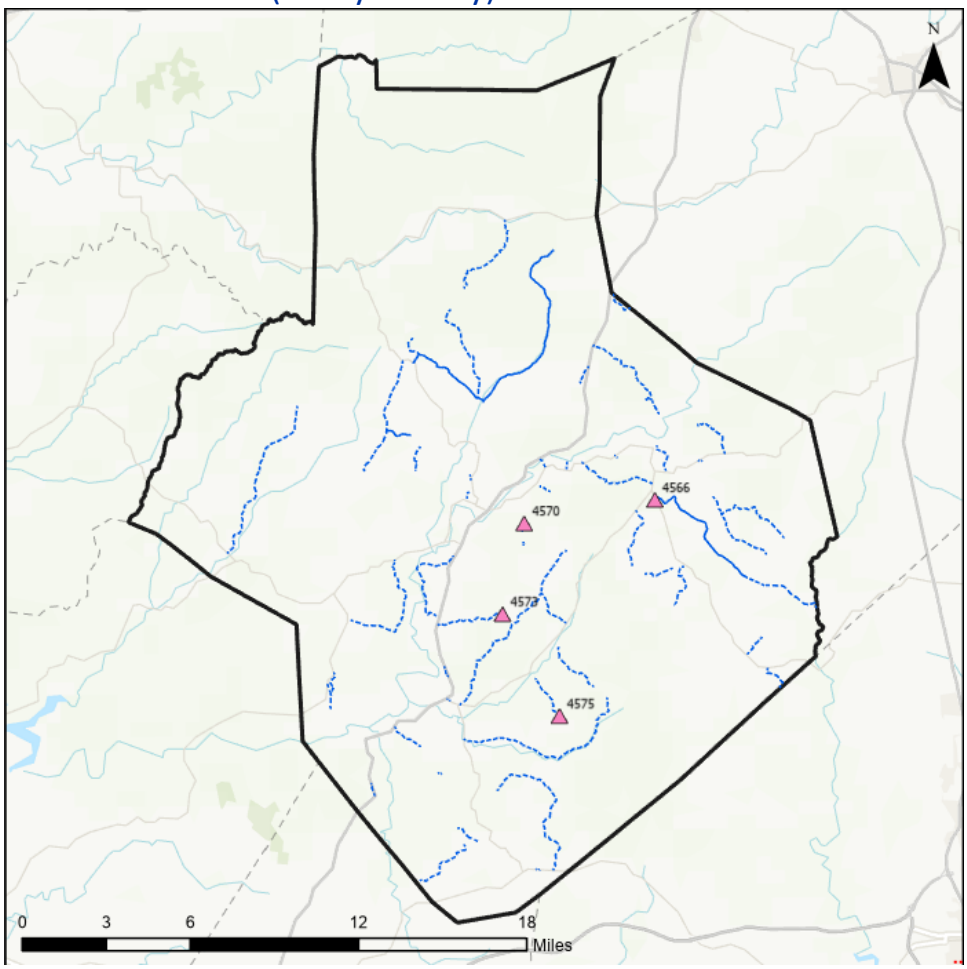


Exhibit Casey-18: Sign Locations

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/LCADDSAP.

APPENDIX F: CLINTON COUNTY SAFETY ACTION PLAN

Clinton County Overview

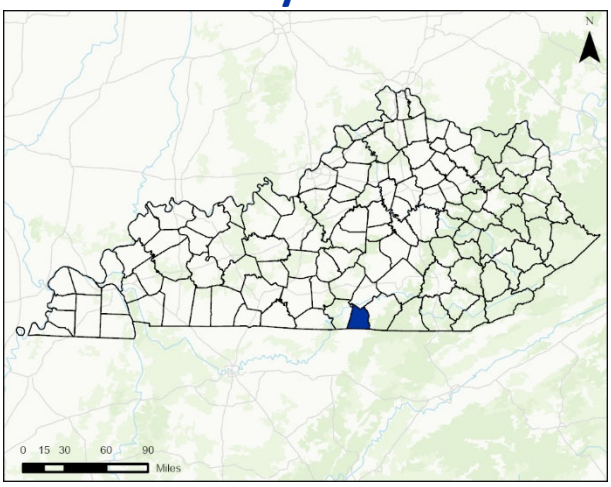


Exhibit Clinton-1: Location Map

Key Information Table Clinton County	
Population	9,148
Population in Persistent Poverty	28%
Underserved Community	**Yes**
Fatalities (All Roads)	16
Fatalities (County Roads)	0
Fatality Rate per 100,000 persons	**174.90**
County Road Mileage	210.9
State Road Mileage	166.9
Total Mileage	**377.8**

Exhibit Clinton-2: Key Information

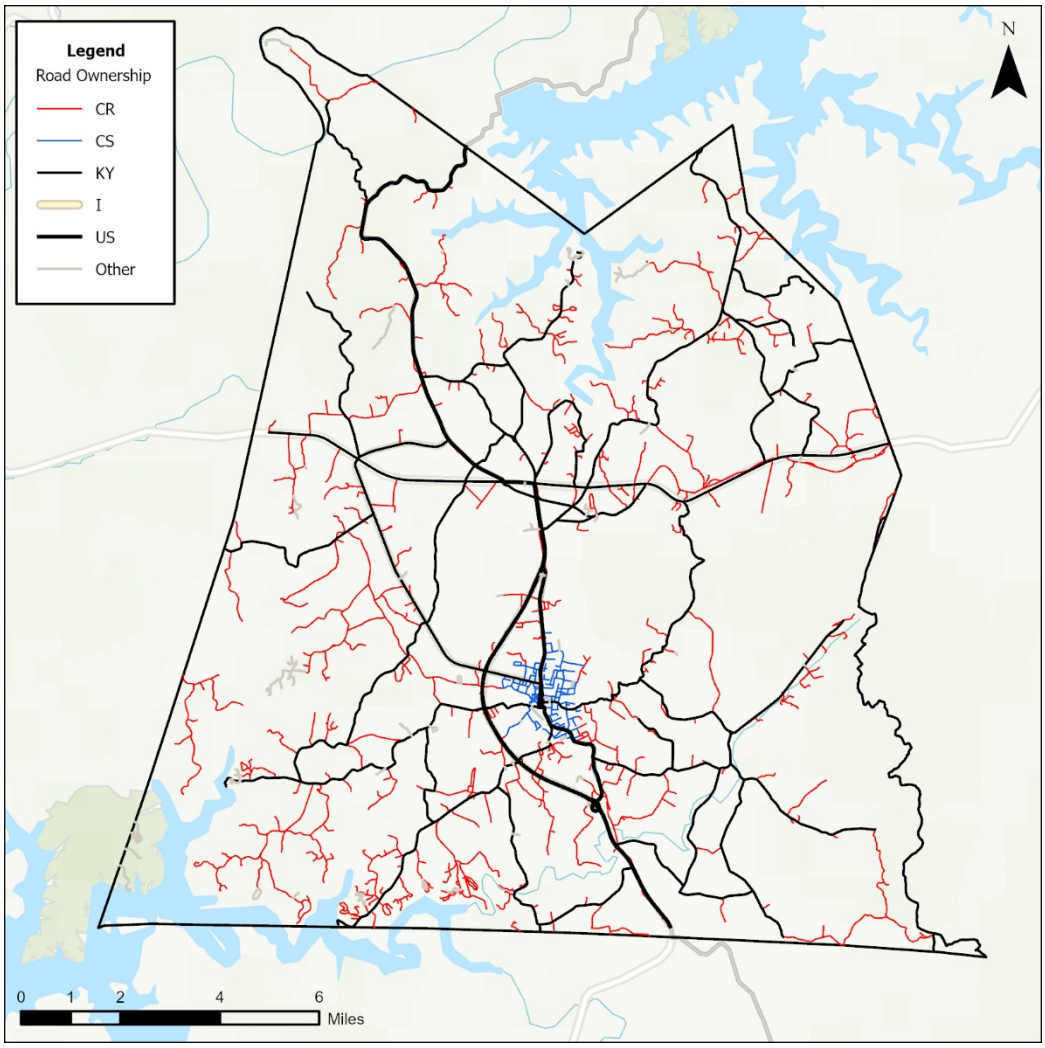


Figure Clinton-3: Map of County Roadways

Crash Analysis

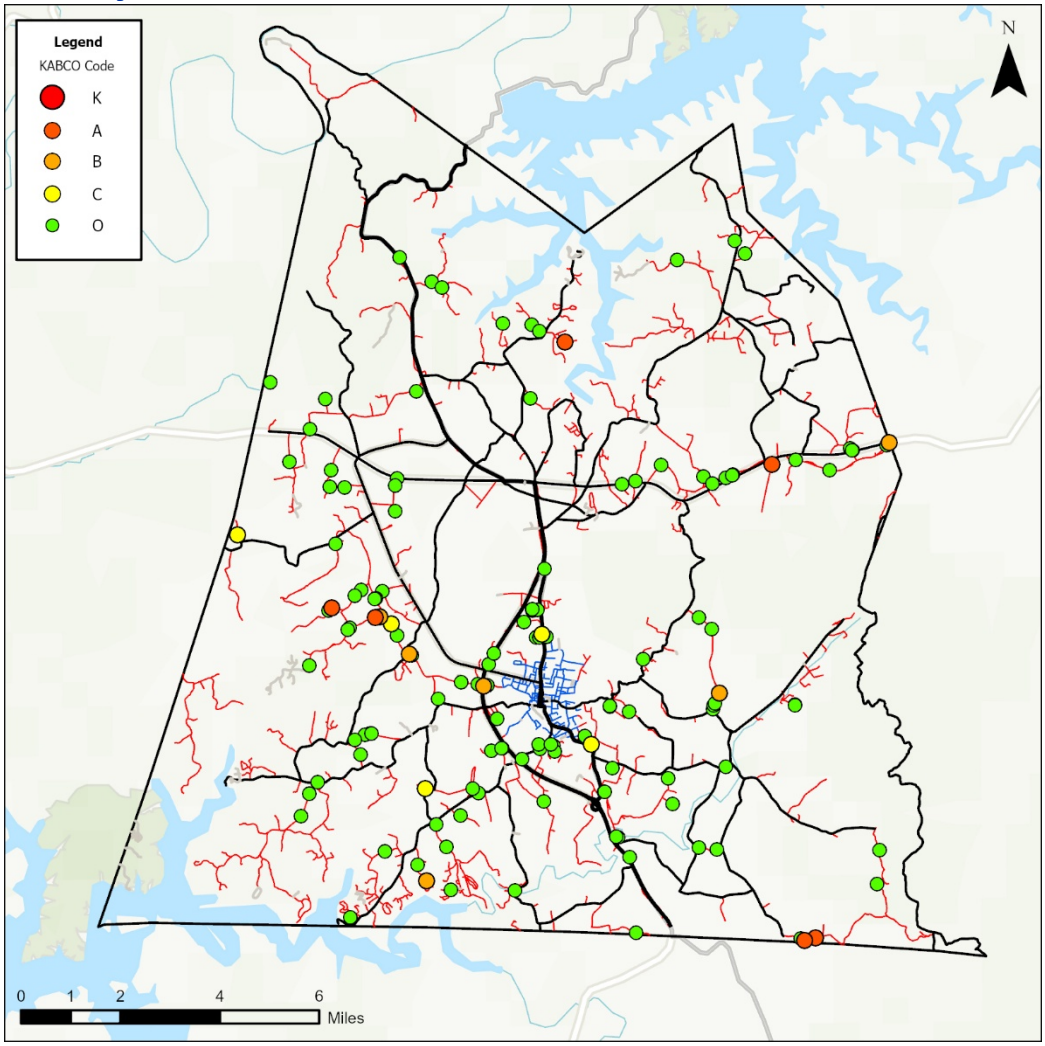
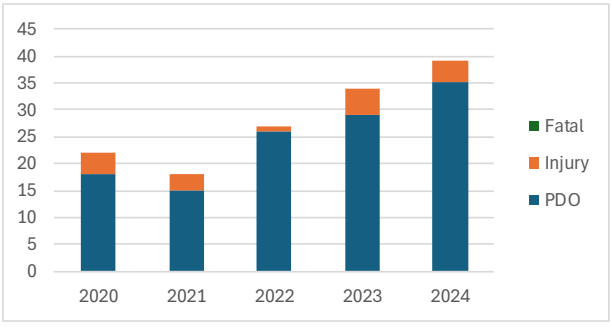


Figure Clinton-4: Map of County Road Crashes



Year	Property Damage Only	Injury	Fatal	Total
2020	18	4	0	**22**
2021	15	3	0	**18**
2022	26	1	0	**27**
2023	29	5	0	**34**
2024	35	4	0	**39**

Table Clinton-5: Crash Distribution by Year

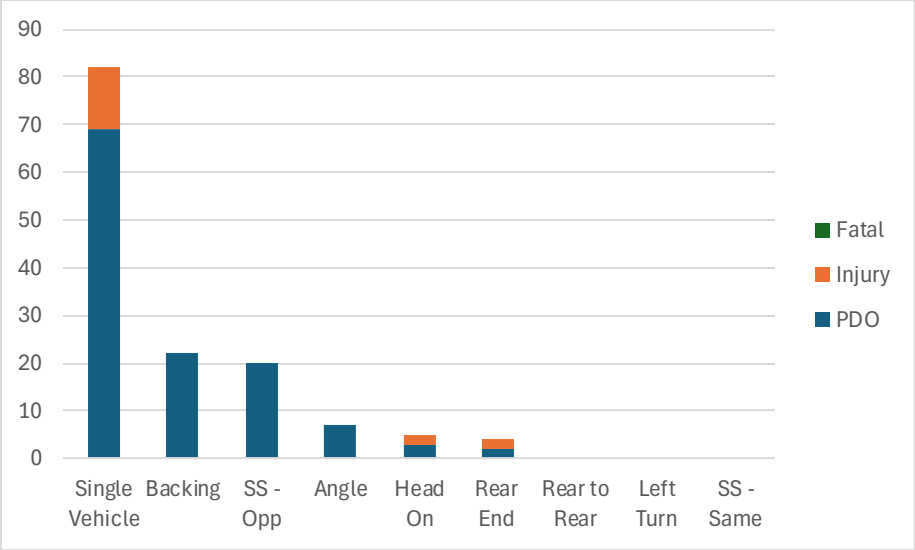


Exhibit Clinton-6: Crash Frequency and Severity by Manner of Collision

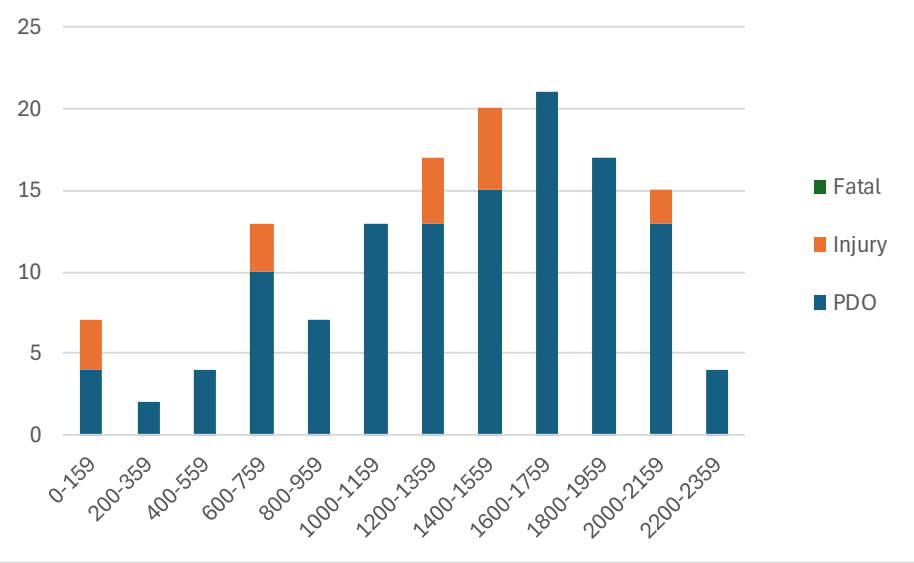


Figure Clinton-7: Crashes and Severity by Time of Day

Focus Roadways

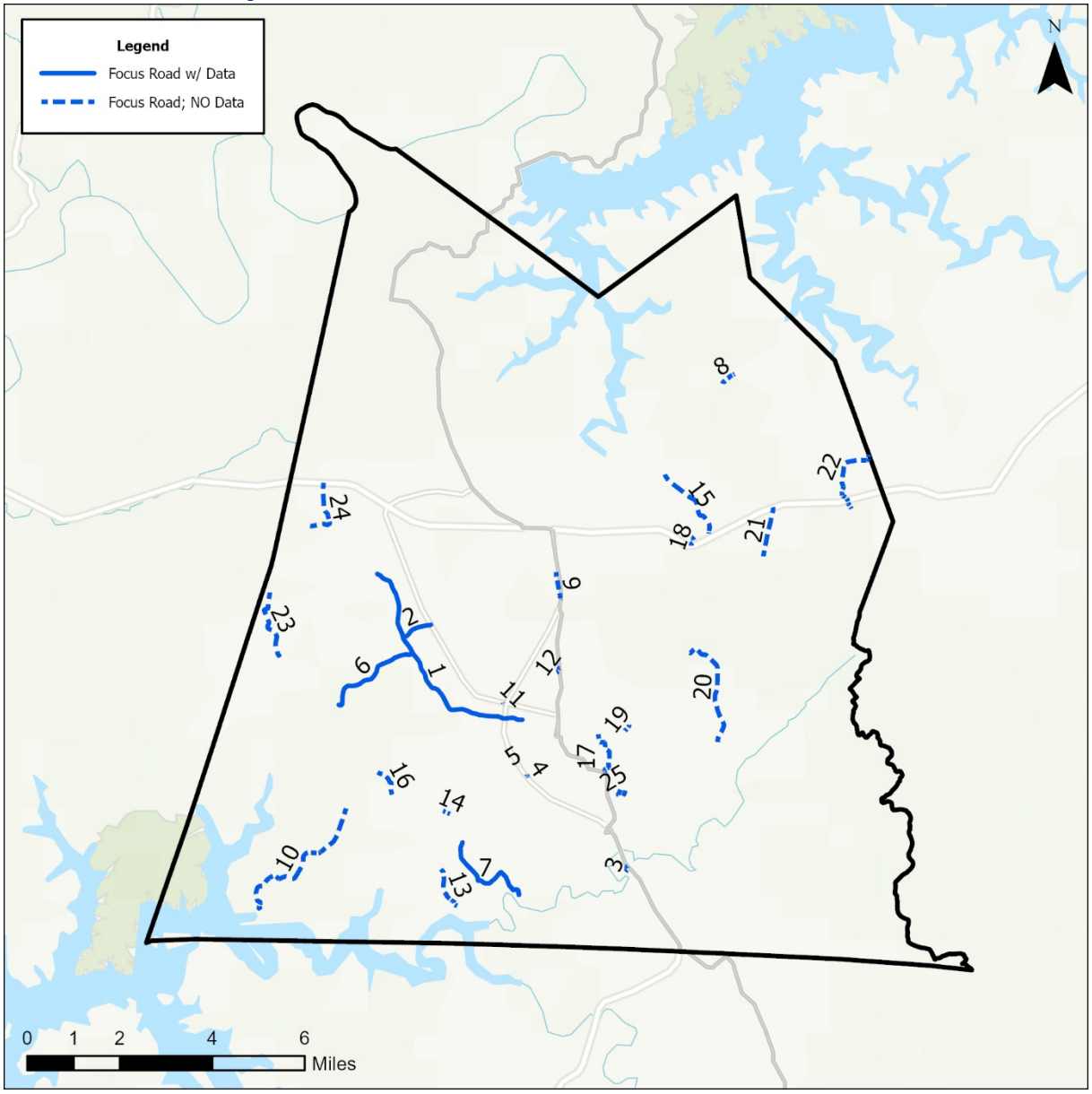


Exhibit Clinton-8: Focus Roads

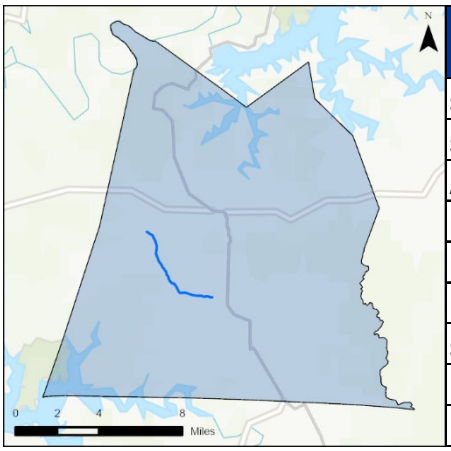
RT_UNIQUE	Length	County	Road Name	Injury Crashes	Fatal Crashes	PDO	CrashScore	UseScore	Rank	Focus Roads	Data Points	Roadway Data
Clinton County												
027-CR-1202 -000	**5.1**	**Clinton**	**OLD BURKESVILLE RD**	**2**	**1**	**7**	**3.33**	**0.54**	**1**	**1**	**9**	**7**
027-CR-1258 -000	**0.7**	**Clinton**	**BOSS BROWN RD**	**0**	**0**	**1**	**0.06**	**2.65**	**2**	**1**	**3**	**3**
027-CR-1198 -000	0.2	Clinton	CEDAR KNOB SPUR	0	0	0	0.00	2.67	3	1	0	0
027-CR-1724 -000	0.1	Clinton	SHARED ENTRANCE RD	0	0	0	0.00	2.65	4	1	0	0
027-CR-1151 -030	0.0	Clinton	FAIRGROUNDS RD X	0	0	0	0.00	2.11	5	1	0	0
027-CR-1254 -000	**2.2**	**Clinton**	**HOGBACK RD**	**1**	**0**	**0**	**0.86**	**1.09**	**6**	**1**	**4**	**2**
027-CR-1217 -000	**2.3**	**Clinton**	**SPECK RD**	**0**	**0**	**1**	**0.06**	**1.61**	**7**	**1**	**4**	**4**
027-CR-1015G -000	0.4	Clinton	CARLIE AYERS RD	0	0	0	0.00	1.62	8	1	0	0
027-CR-1058 -000	0.6	Clinton	CANEY GAP RD	0	1	0	1.17	0.39	9	1	0	0
027-CR-1236 -000	3.6	Clinton	LETTERED OAK RD	0	0	1	0.06	1.45	10	1	0	0
027-CR-1157 -000	0.0	Clinton	SHARED ENTRANCE RD	0	0	0	0.00	1.44	11	1	0	0
027-CR-1184 -000	0.1	Clinton	KING DR	0	1	0	1.17	0.26	12	1	0	0
027-CR-1219 -000	1.0	Clinton	BUTLER RIDGE RD	1	0	0	0.86	0.52	13	1	0	0
027-CR-1286 -000	0.2	Clinton	DANNY THOMAS RD	0	1	0	1.17	0.12	14	1	0	0
027-CR-1006 -000	1.7	Clinton	MARLOW-CARTWRIGHT RD	0	0	2	0.12	1.17	15	1	0	0
027-CR-1241 -000	0.6	Clinton	WILLEN SCHOOL RD	0	0	0	0.00	1.29	16	1	0	0
027-CR-1155 -000	1.0	Clinton	GEORGE SLOAN RD	0	1	0	1.17	0.11	17	1	0	0
027-CR-1004 -000	0.2	Clinton	STONY POINT RD	0	0	1	0.06	1.10	18	1	0	0
027-CR-1158 -000	0.2	Clinton	PIKEVIEW LN	0	0	0	0.00	1.16	19	1	0	0
027-CR-1115 -000	2.5	Clinton	SUGAR VALLEY RD	1	0	1	0.93	0.17	20	1	0	0
027-CR-1010 -000	1.1	Clinton	HUBBARD RD	1	0	0	0.86	0.17	21	1	0	0
027-CR-1017 -000	1.7	Clinton	PLEASANT RIDGE RD	0	0	2	0.12	0.89	22	1	0	0
027-CR-1225 -000	1.6	Clinton	EVANS SCHOOL RD	1	0	0	0.86	0.14	23	1	0	0
027-CR-1337 -000	1.4	Clinton	RIDDLETOWN RD	0	0	1	0.06	0.90	24	1	0	0
027-CR-1186 -000	0.4	Clinton	HORSESHOE BEND RD	1	0	1	0.93	0.04	25	1	0	0

Exhibit Clinton-9: List of Focus Roadways

Recommended Improvements (Top 5 Roads)

OLD BURKESVILLE RD (027-CR-1202 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	4	3	0	**7**
SS - Opp	1	0	0	**1**
Angle	1	0	0	**1**
Head On	0	0	0	**0**
Left Turn	0	0	0	**0**
Backing	0	0	0	**0**
SS - Same	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

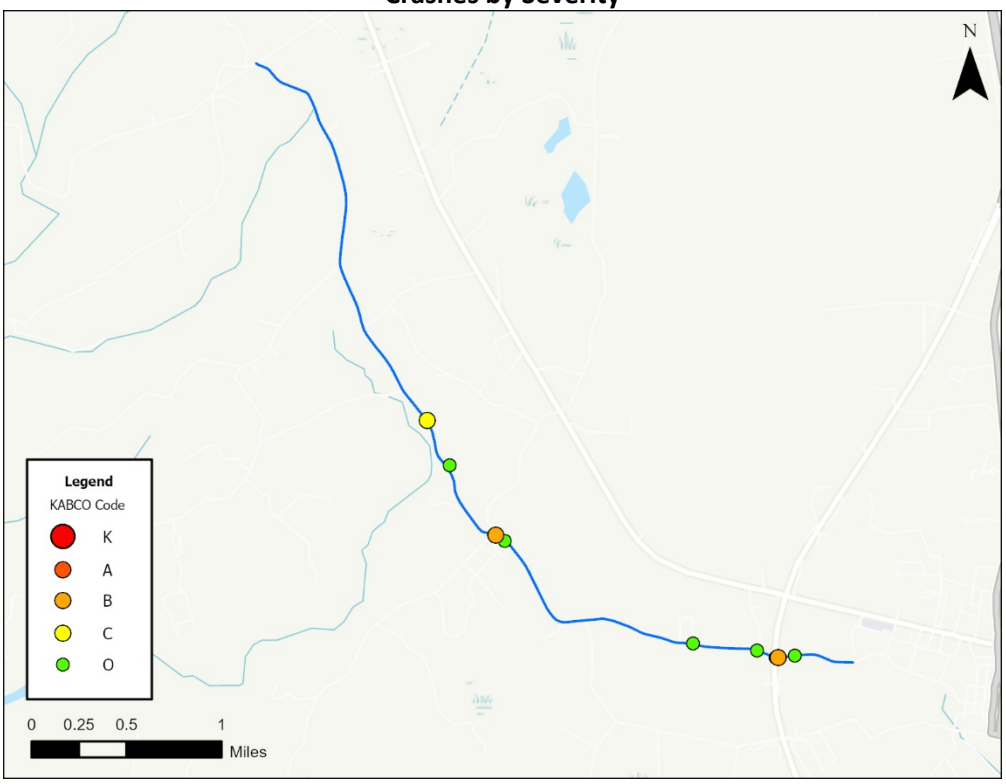
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4127	027-CR-1202 -000	OLD BURKESVILLE RD	10	3	1	0-20		✓	✓
4128	027-CR-1202 -000	OLD BURKESVILLE RD	10	3	1	0-20		✓	✓
4129	027-CR-1202 -000	OLD BURKESVILLE RD	10	3	1	0-20		✓	✓
4131	027-CR-1202 -000	OLD BURKESVILLE RD	10	3	1	0-20		✓	✓
4132	027-CR-1202 -000	OLD BURKESVILLE RD	10	3	1	0-20		✓	✓
4133	027-CR-1202 -000	OLD BURKESVILLE RD	10	4	1	0-20		✓	✓

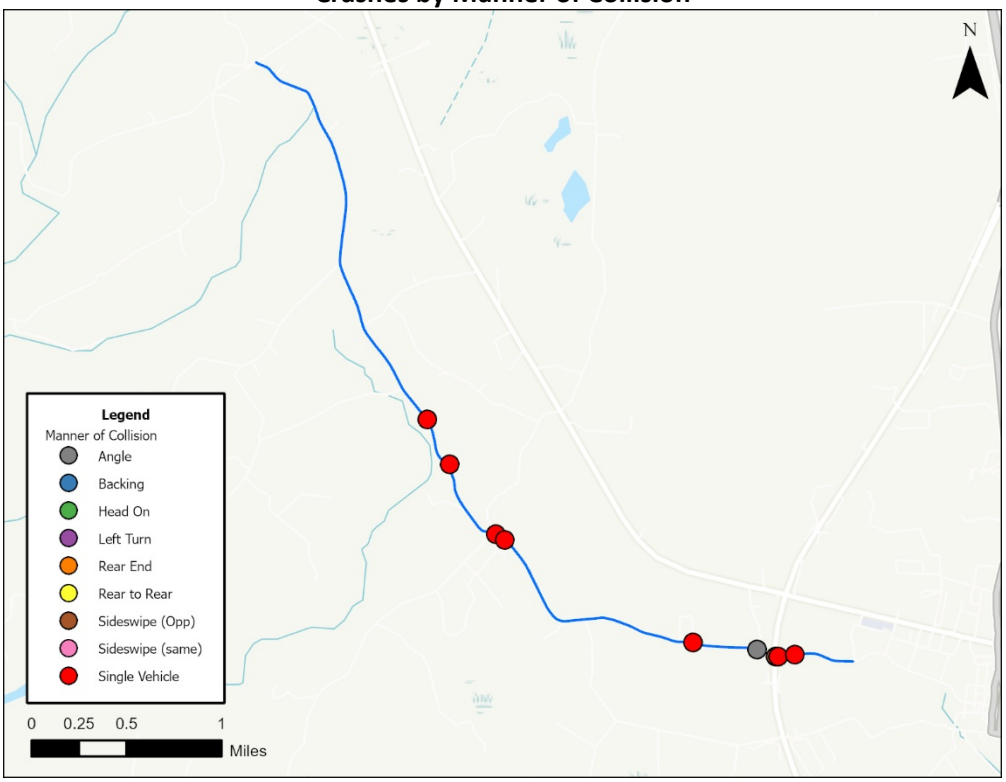
Roadway Typical Section



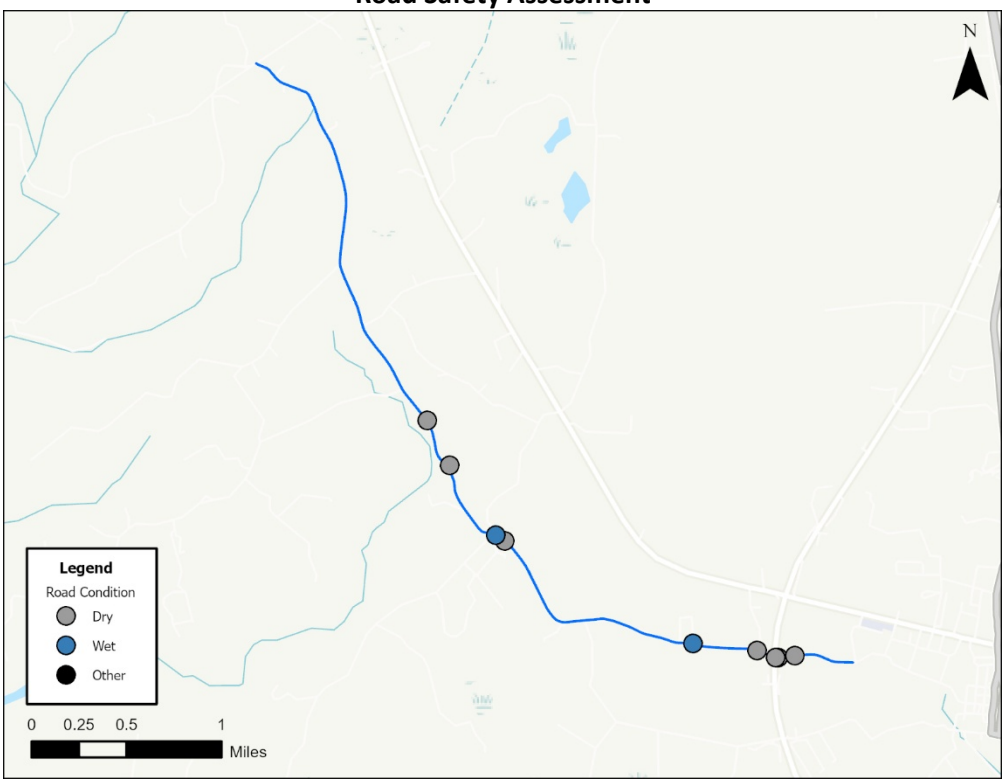
Crashes by Severity



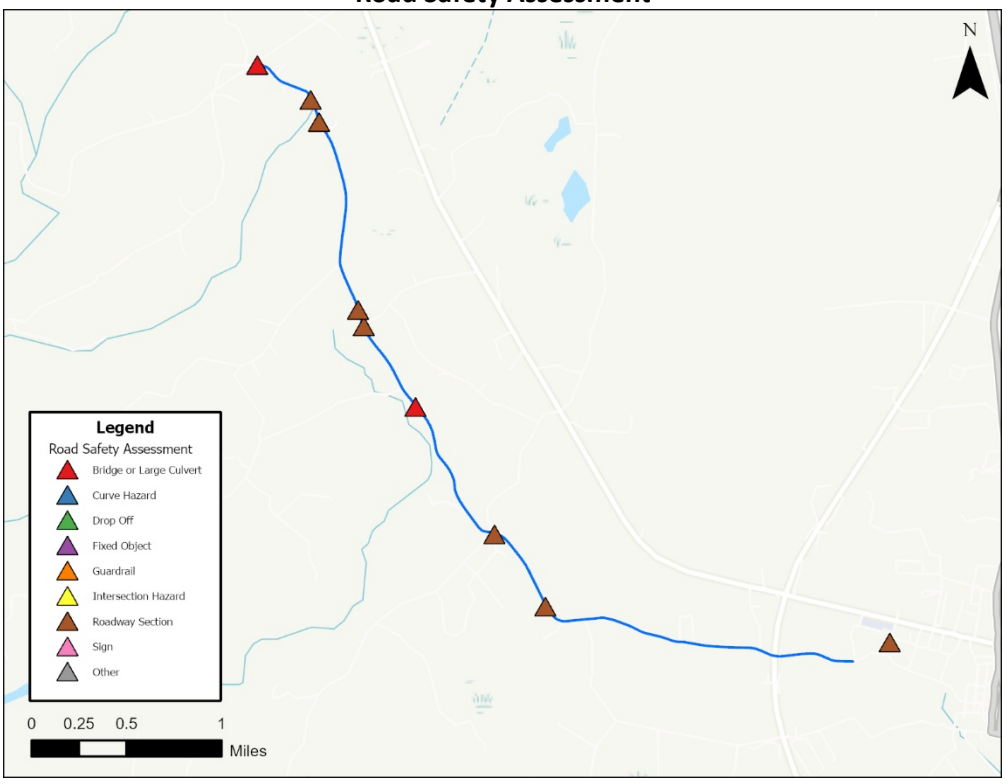
Crashes by Manner of Collision



Road Safety Assessment



Road Safety Assessment

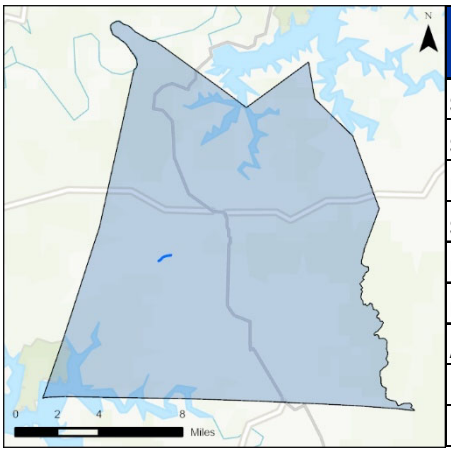


Recommendations

Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
4126	027-CR-1202 -000	OLD BURKESVILLE RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4130	027-CR-1202 -000	OLD BURKESVILLE RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.

BOSS BROWN RD (027-CR-1258 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
SS - Opp	2	0	0	**2**
Single Vehicle	1	0	0	**1**
Left Turn	0	0	0	**0**
SS - Same	0	0	0	**0**
Head On	0	0	0	**0**
Backing	0	0	0	**0**
Angle	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

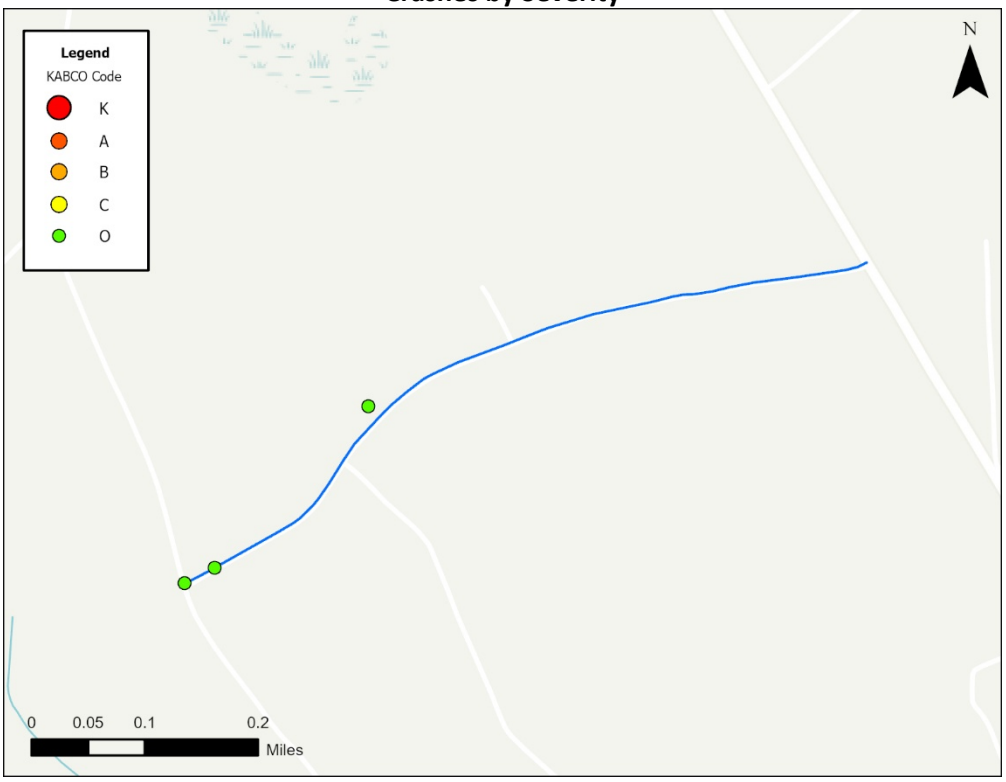
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4122	027-CR-1258 -000	BOSS BROWN RD	10	3	2	0-20		✓	✓
4123	027-CR-1258 -000	BOSS BROWN RD	10	3	1	0-20		✓	✓
4124	027-CR-1258 -000	BOSS BROWN RD	10	3	1	20-40	✓	✓	✓
4125	027-CR-1258 -000	BOSS BROWN RD	10	4	1	0-20		✓	✓

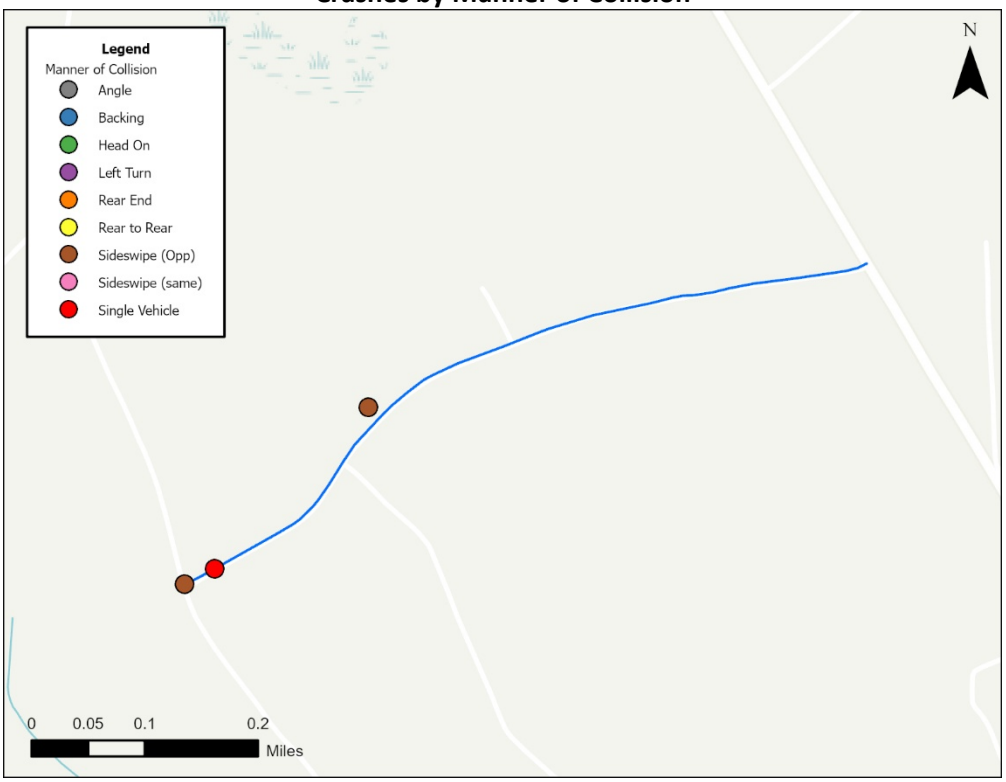
Roadway Typical Section



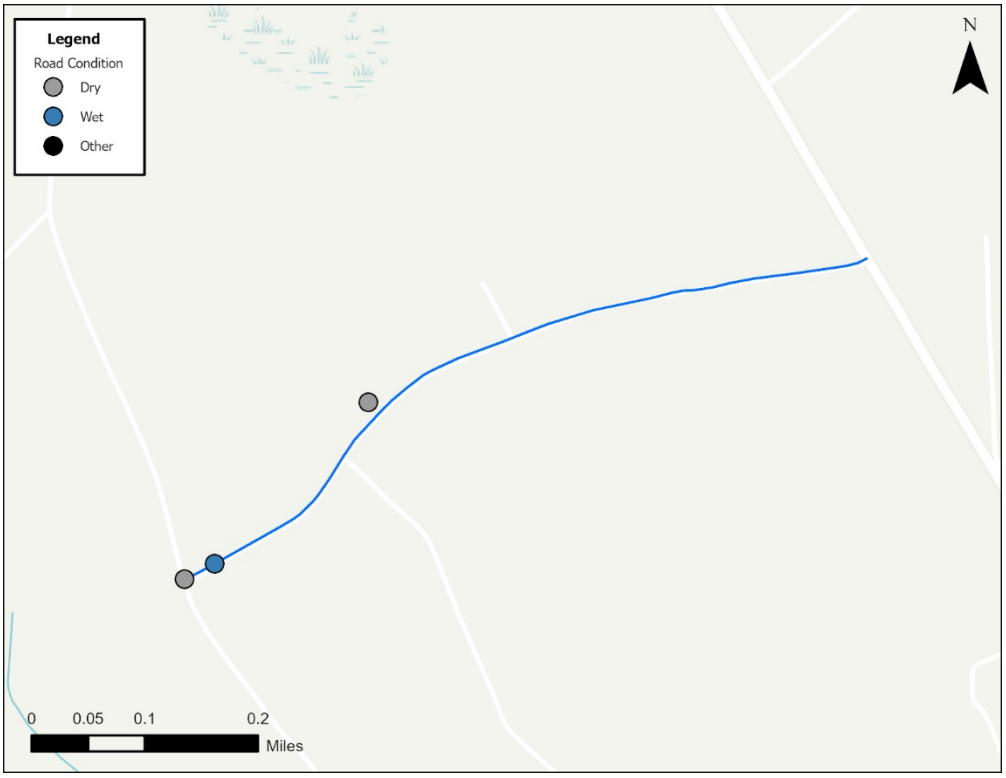
Crashes by Severity



Crashes by Manner of Collision



Road Conditions



Road Safety Assessment

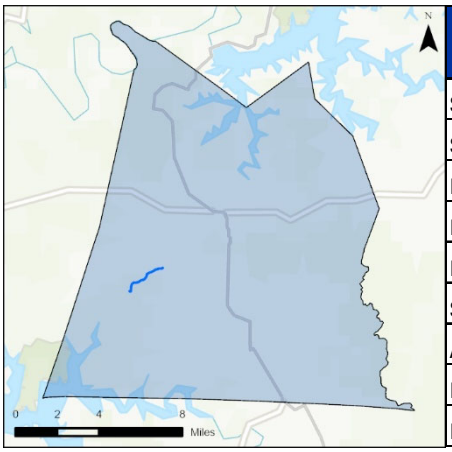


General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4122	027-CR-1258 -000	BOSS BROWN RD	10	3	2	0-20		✓	✓
4123	027-CR-1258 -000	BOSS BROWN RD	10	3	1	0-20		✓	✓
4124	027-CR-1258 -000	BOSS BROWN RD	10	3	1	20-40	✓	✓	✓
4125	027-CR-1258 -000	BOSS BROWN RD	10	4	1	0-20		✓	✓

HOGBACK RD (027-CR-1254 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	1	2	0	**3**
SS - Opp	1	0	0	**1**
Backing	1	0	0	**1**
Head On	0	0	0	**0**
Left Turn	0	0	0	**0**
SS - Same	0	0	0	**0**
Angle	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

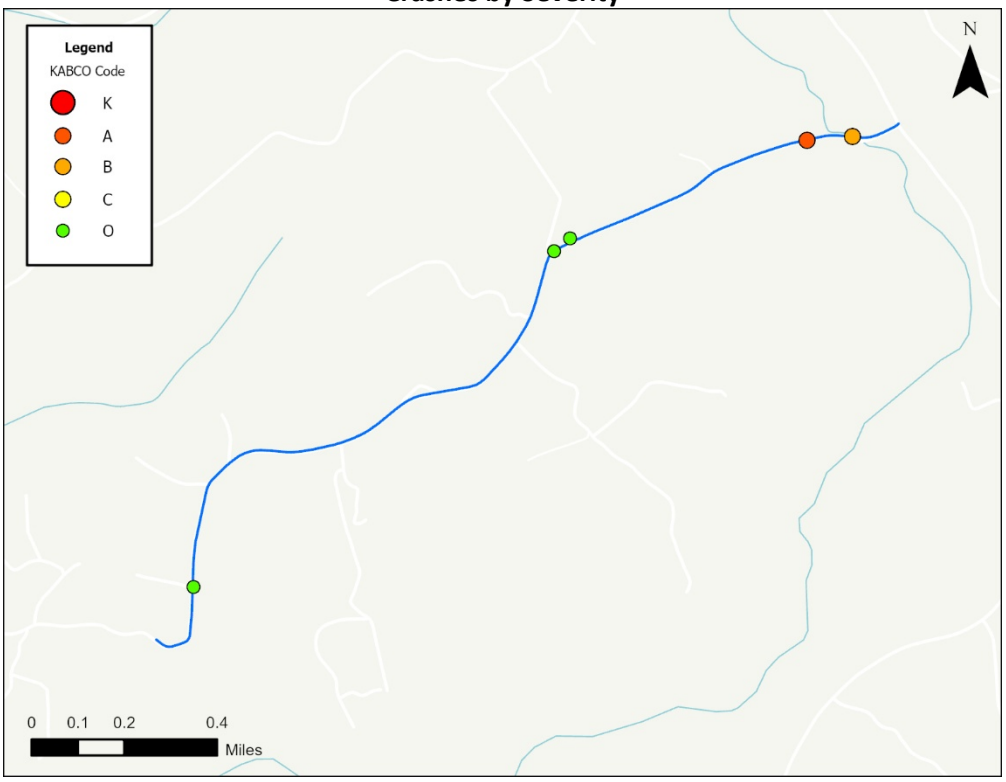
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4140	027-CR-1254 -000	HOGBACK RD	10	3	1	0-20		✓	✓
4141	027-CR-1254 -000	HOGBACK RD	10	4	1	0-20		✓	✓

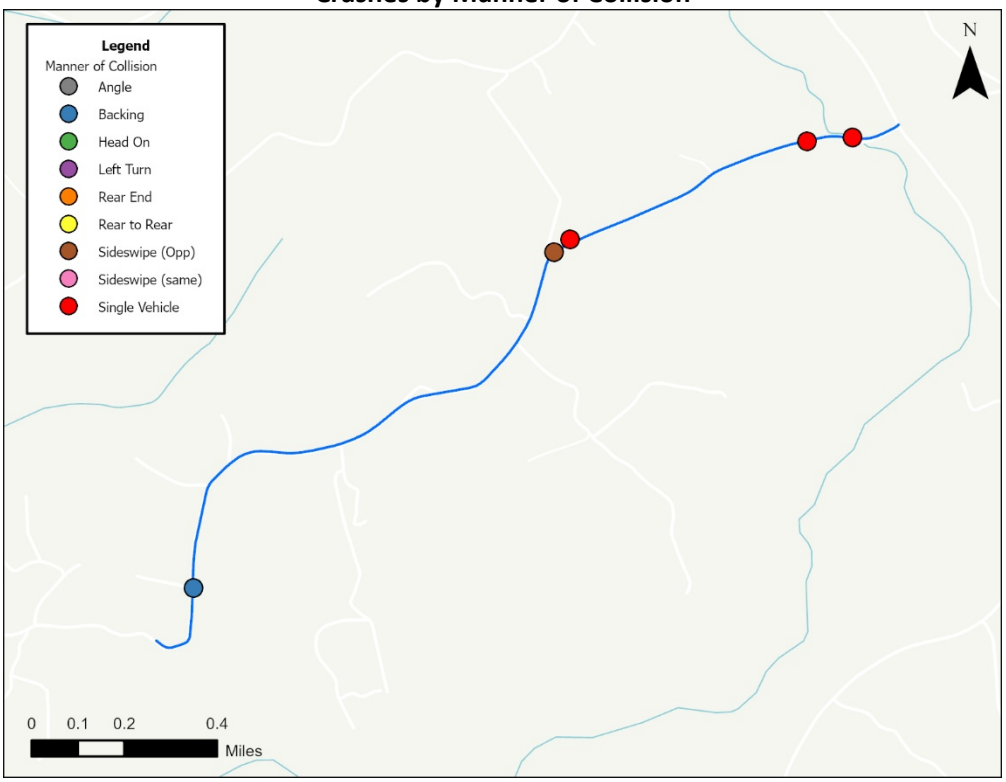
Roadway Typical Section



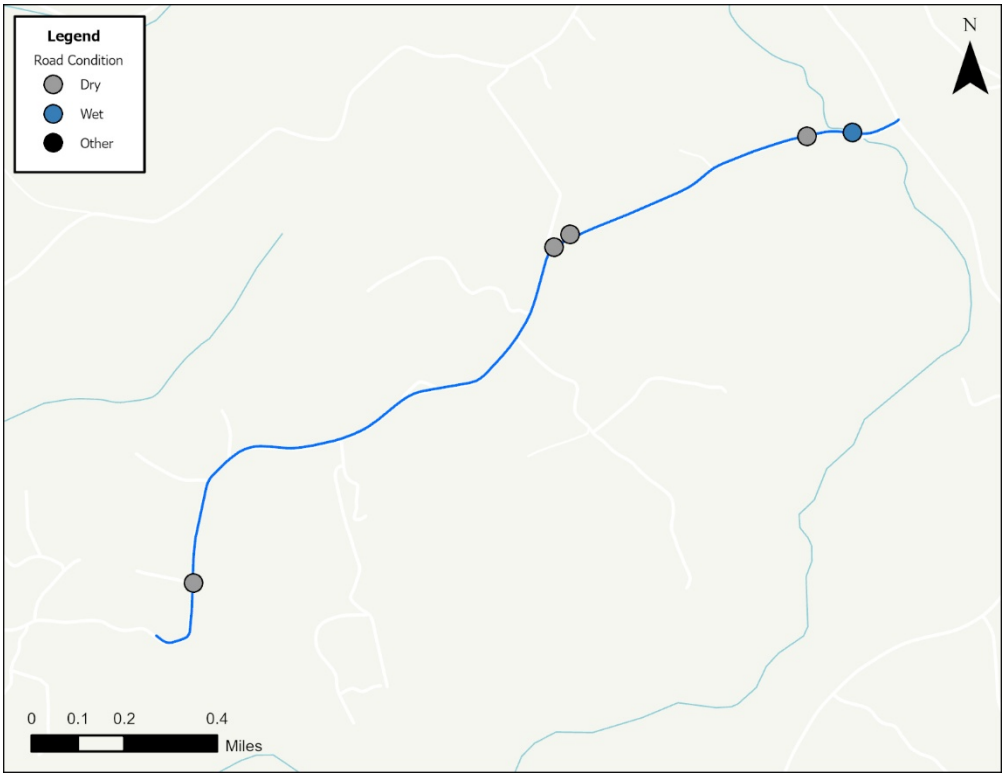
Crashes by Severity



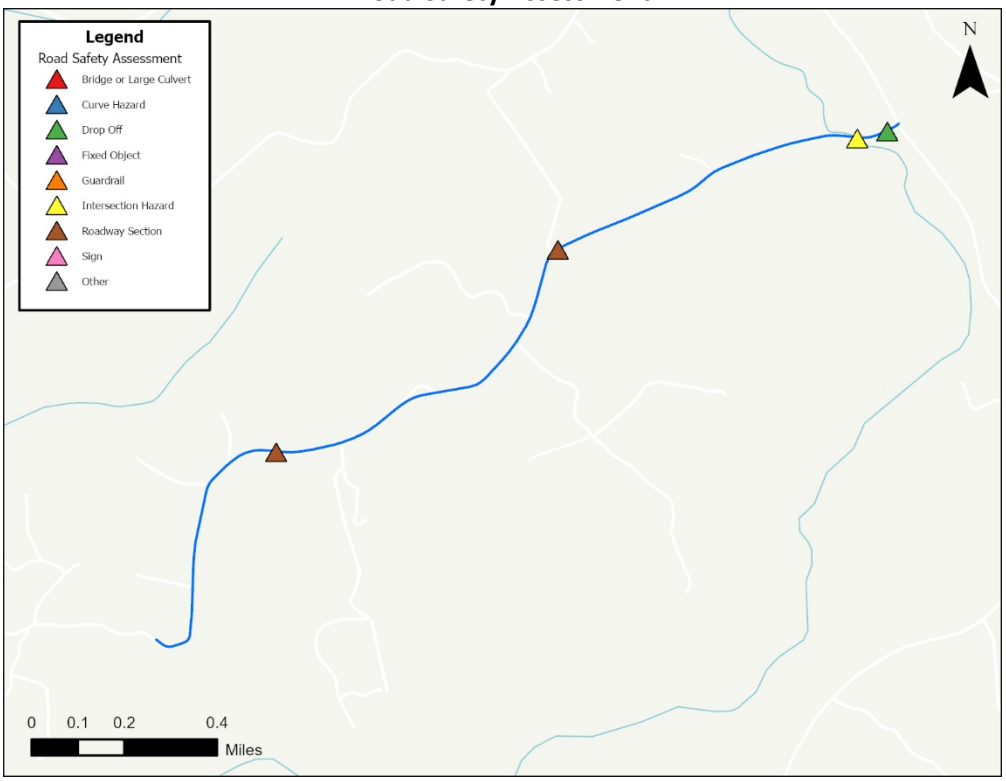
Crashes by Manner of Collision



Road Conditions



Road Safety Assessment



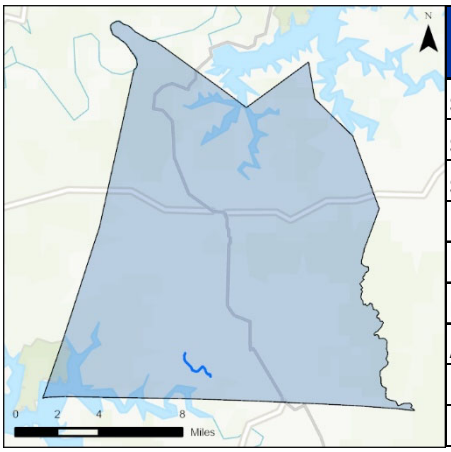
General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Drop Off Offset	Drop Off Height	Recommendations
4138	027-CR-1254 -000	HOGBACK RD	0-1	5-10	Install Type 2 Object Marker(s) or Delineator(s)

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
4139	027-CR-1254 -000	HOGBACK RD	Intersection Obscured on Approa	No	Evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)

SPECK RD (027-CR-1217 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	2	0	0	**2**
SS - Same	0	0	0	**0**
SS - Opp	0	0	0	**0**
Left Turn	0	0	0	**0**
Head On	0	0	0	**0**
Backing	0	0	0	**0**
Angle	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

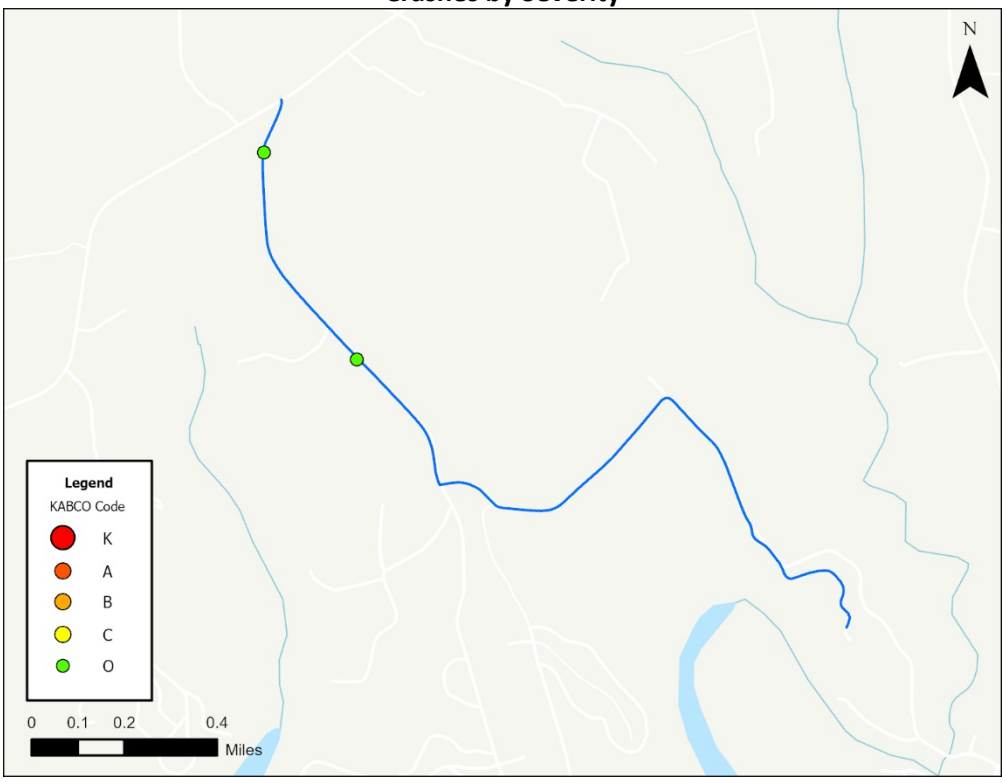
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing	Other
4134	027-CR-1217 -000	SPECK RD	10	3	1	40-60	✓	✓	✓	
4135	027-CR-1217 -000	SPECK RD	10	3	1	0-20		✓	✓	
4136	027-CR-1217 -000	SPECK RD	10	2	7	80-100	✓	✓	✓	Road is too narrow for two-way traffic. There is significant damage and deterioration to the road.
4137	027-CR-1217 -000	SPECK RD	10	4	1	0-20		✓	✓	

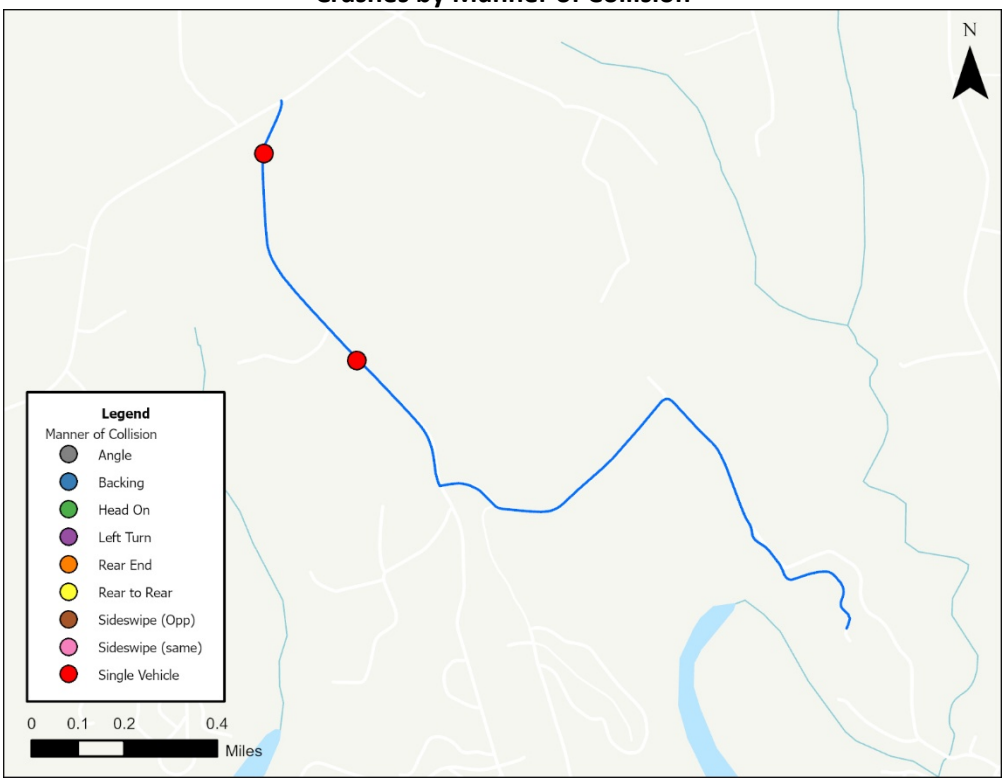
Roadway Typical Section



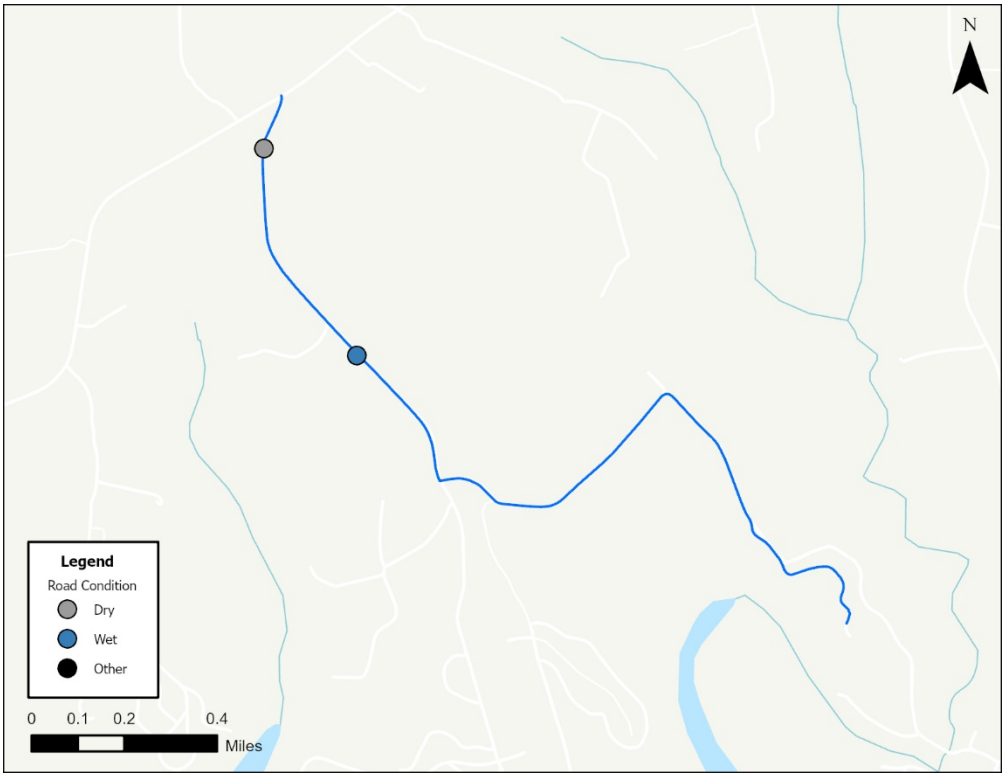
Crashes by Severity



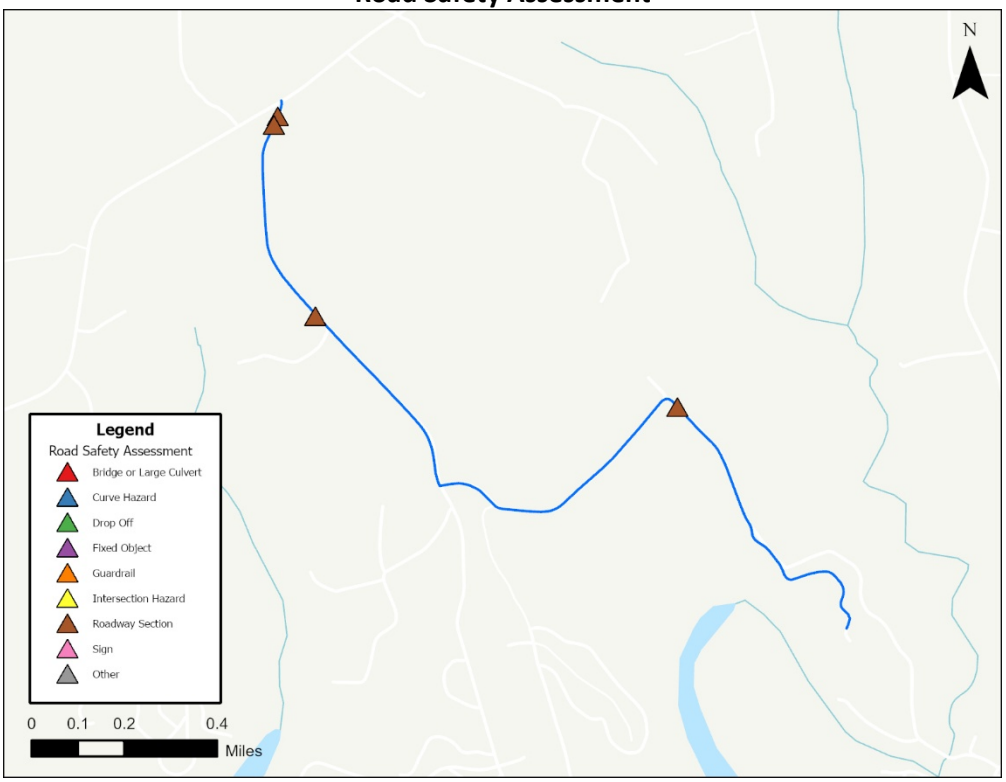
Crashes by Manner of Collision



Road Conditions



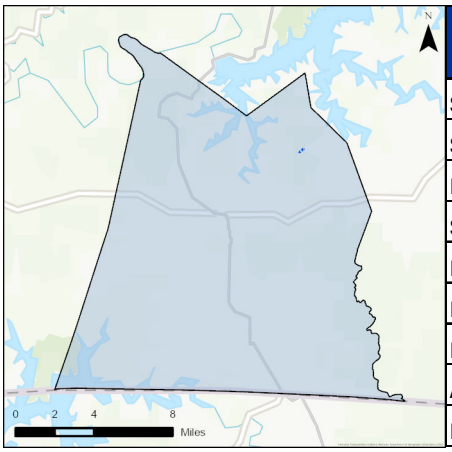
Road Safety Assessment



General Recommendations

CARLIE AYERS RD (027-CR-1015G -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	0	0	0	**0**
SS - Same	0	0	0	**0**
Head On	0	0	0	**0**
SS - Opp	0	0	0	**0**
Backing	0	0	0	**0**
Rear End	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Angle	0	0	0	**0**
Left Turn	0	0	0	**0**

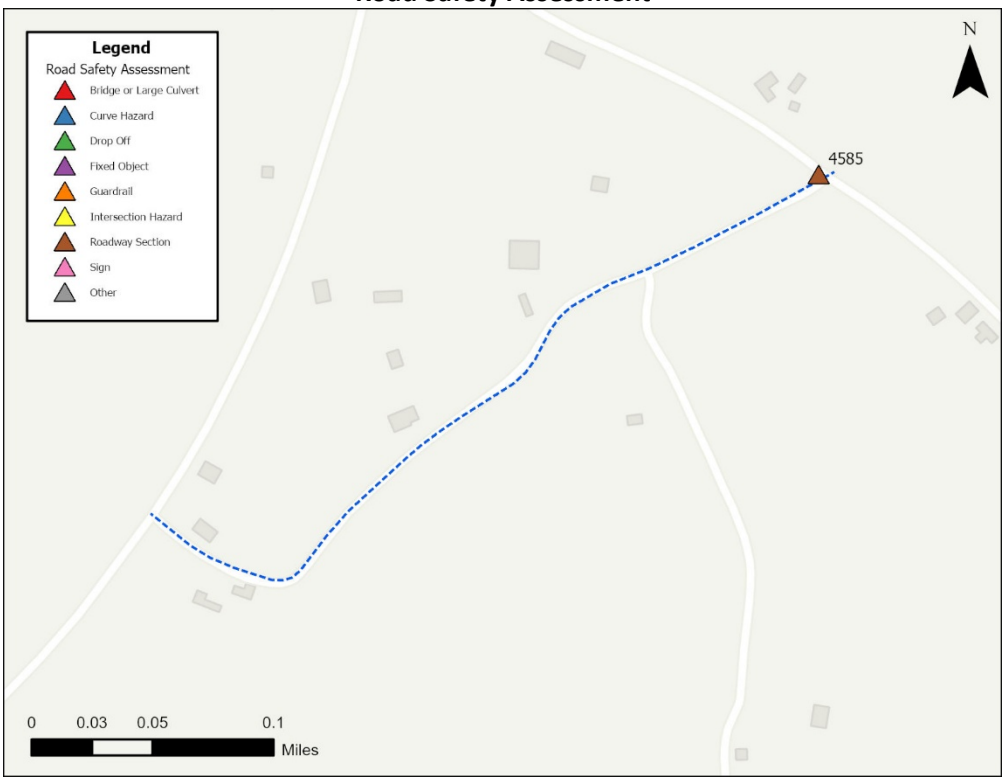
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4585	027-CR-1015G -000	CARLIE AYERS RD	14	4	2	20-40	✓	✓	✓

Roadway Typical Section



Road Safety Assessment



General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4585	027-CR-1015G -000	CARLIE AYERS RD	14	4	2	20-40	✓	✓	✓

Other Roadways

General Roadway Conditions and Recommendations (Clinton County)

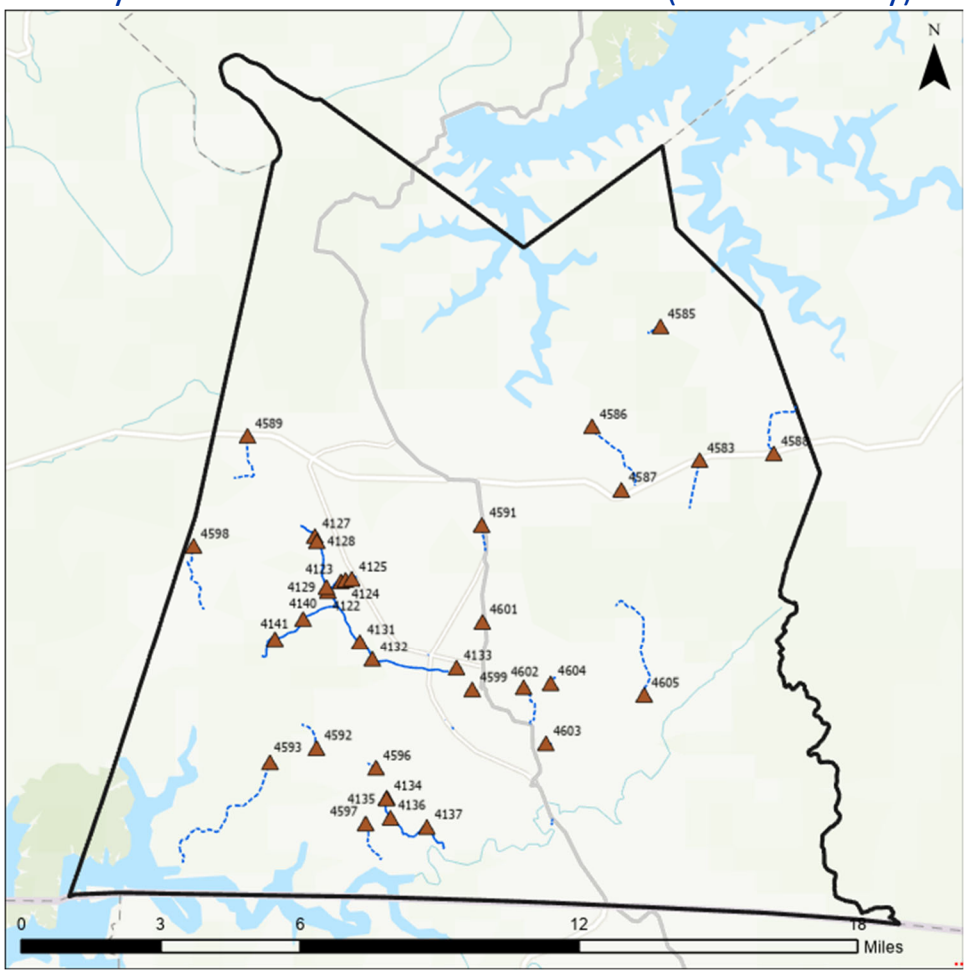


Exhibit Clinton-10: General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4122	027-CR-1258 -000	BOSS BROWN RD	10	3	2	0-20		✓	✓
4123	027-CR-1258 -000	BOSS BROWN RD	10	3	1	0-20		✓	✓
4124	027-CR-1258 -000	BOSS BROWN RD	10	3	1	20-40	✓	✓	✓
4125	027-CR-1258 -000	BOSS BROWN RD	10	4	1	0-20		✓	✓
4597	027-CR-1219 -000	BUTLER RIDGE RD	14	4	2	0-20		✓	✓
4591	027-CR-1058 -000	CANEY GAP RD	19	4	2	20-40	✓	✓	✓
4585	027-CR-1015G -000	CARLIE AYERS RD	14	4	2	20-40	✓	✓	✓
4596	027-CR-1286 -000	DANNY THOMAS RD	12	4	2	0-20		✓	✓
4598	027-CR-1225 -000	EVANS SCHOOL RD	16	3	2	20-40	✓	✓	✓
4599	027-CS-1001 -000	FAIRGROUNDS RD	14	4	2	0-20		✓	✓
4602	027-CR-1155 -000	GEORGE SLOAN RD	16	4	3	20-40	✓	✓	✓
4140	027-CR-1254 -000	HOGBACK RD	10	3	1	0-20		✓	✓
4141	027-CR-1254 -000	HOGBACK RD	10	4	1	0-20		✓	✓
4603	027-CR-1186 -000	HORSESHOE BEND RD	16	4	2	0-20		✓	✓
4583	027-CR-1010 -000	HUBBARD RD	14	4	3	20-40	✓	✓	✓
4601	027-CR-1184 -000	KING DR	13	3	2	0-20		✓	✓
4593	027-CR-1236 -000	LETTERED OAK RD	16	4	3	20-40	✓	✓	✓
4586	027-CR-1006 -000	MARLOW-CARTWRIGHT RD	18	4	2	20-40	✓	✓	✓
4127	027-CR-1202 -000	OLD BURKESVILLE RD	10	3	1	0-20		✓	✓
4128	027-CR-1202 -000	OLD BURKESVILLE RD	10	3	1	0-20		✓	✓
4129	027-CR-1202 -000	OLD BURKESVILLE RD	10	3	1	0-20		✓	✓
4131	027-CR-1202 -000	OLD BURKESVILLE RD	10	3	1	0-20		✓	✓
4132	027-CR-1202 -000	OLD BURKESVILLE RD	10	3	1	0-20		✓	✓
4133	027-CR-1202 -000	OLD BURKESVILLE RD	10	4	1	0-20		✓	✓
4604	027-CR-1158 -000	PIKEVIEW LN	18	4	3	0-20		✓	✓
4588	027-CR-1017 -000	PLEASANT RIDGE RD	20	4	2	20-40	✓		✓
4589	027-CR-1337 -000	RIDDLETOWN RD	20	4	2	20-40	✓		✓
4134	027-CR-1217 -000	SPECK RD	10	3	1	40-60	✓	✓	✓
4135	027-CR-1217 -000	SPECK RD	10	3	1	0-20		✓	✓
4136	027-CR-1217 -000	SPECK RD	10	2	7	80-100	✓	✓	✓
4137	027-CR-1217 -000	SPECK RD	10	4	1	0-20		✓	✓
4587	027-CR-1004 -000	STONY POINT RD	14	5	1	0-20		✓	✓
4605	027-CR-1115 -000	SUGAR VALLEY RD	20	4	1	20-40	✓		✓
4592	027-CR-1241 -000	WILLEN SCHOOL RD	14	3	2	20-40	✓	✓	✓

Exhibit Clinton-11: General Roadway Recommendations

Bridge Recommendations (Clinton County)

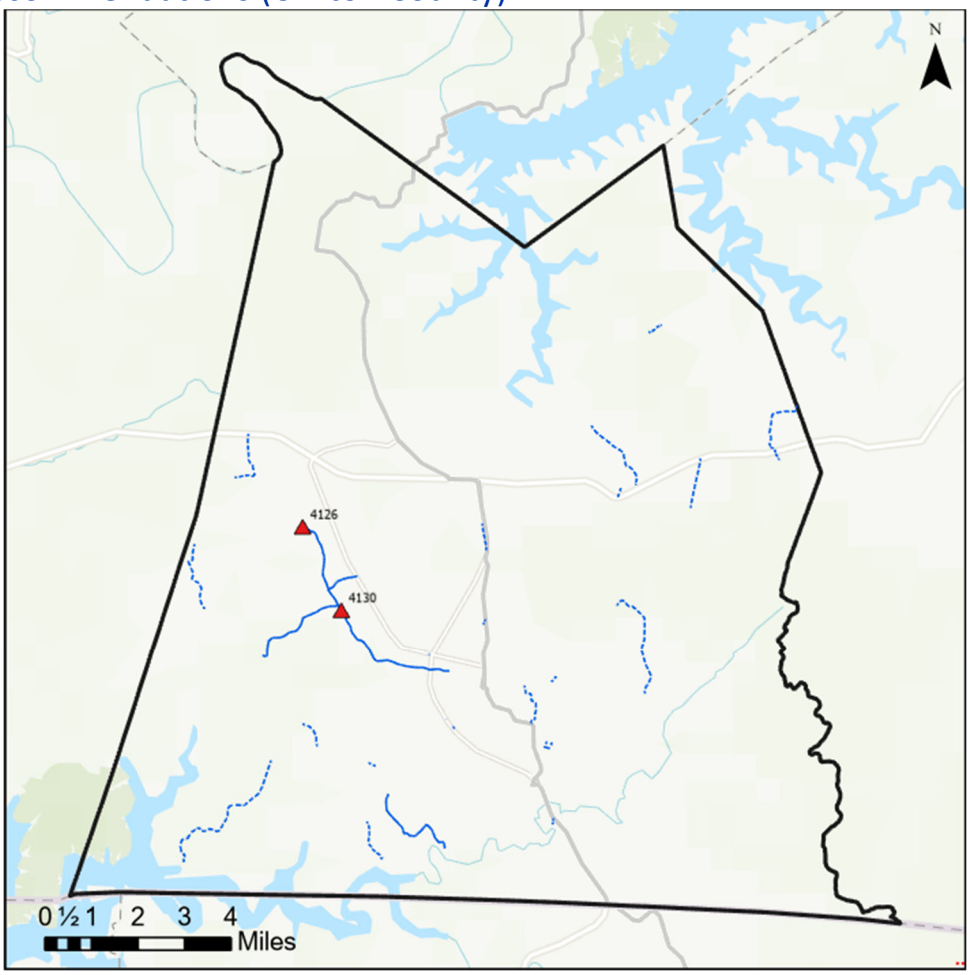


Exhibit Clinton-12: Focus Road Bridges

Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
4126	027-CR-1202 -000	OLD BURKESVILLE RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4130	027-CR-1202 -000	OLD BURKESVILLE RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.

Exhibit Clinton-13: Bridge Recommendations

Curve Recommendations (Clinton County)

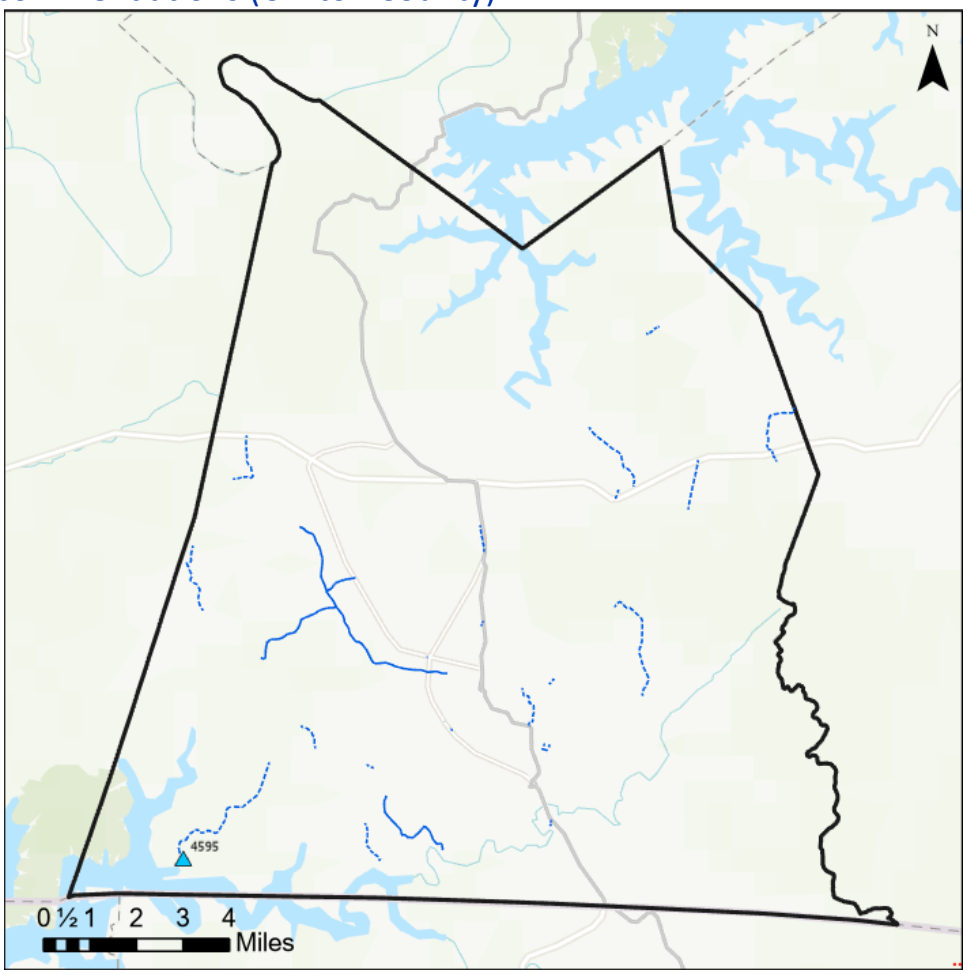


Exhibit Clinton-14: Focus Road Curves

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
4595	027-CR-1236 -000	LETTERED OAK RD	Entrance in Curve	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection

Exhibit Clinton-15: Curve Recommendations

Roadside Drop Off Recommendations (Clinton County)

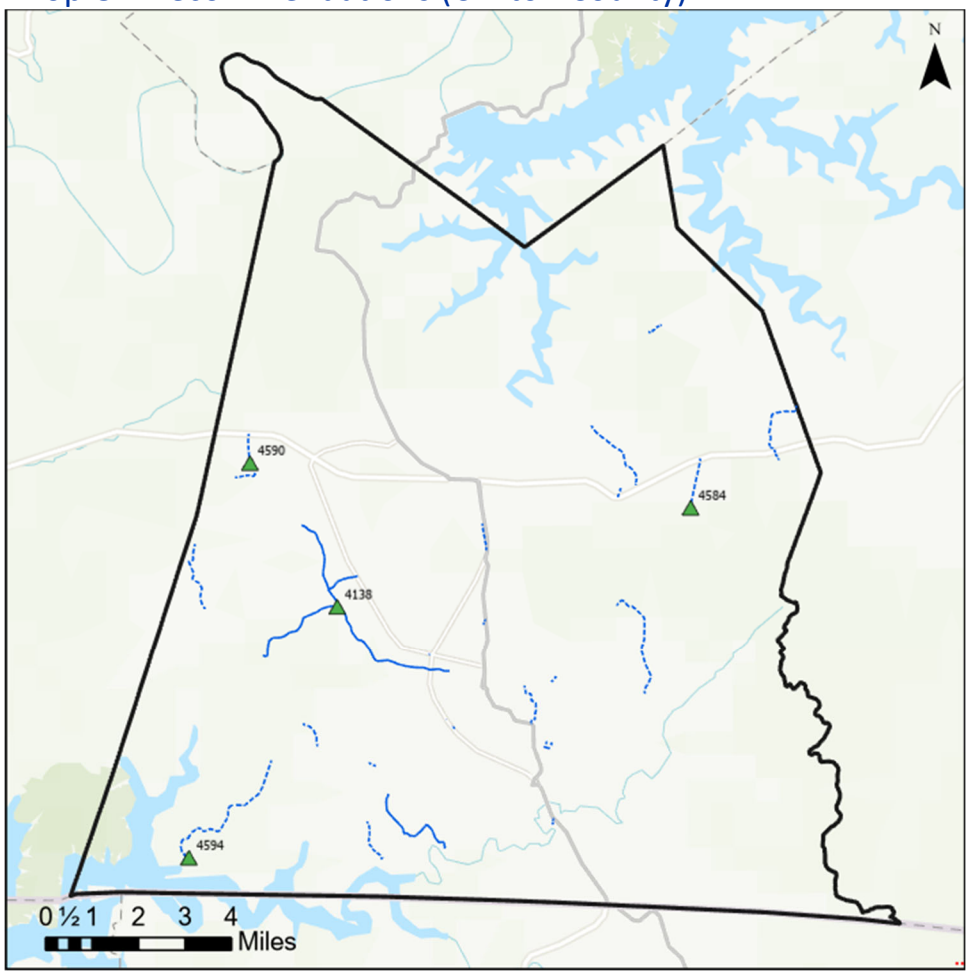


Exhibit Clinton-16: Roadside Drop Off Locations

Point ID	RT_UNIQUE	RD_NAME	Drop Off Offset	Drop Off Height	Recommendations
4138	027-CR-1254 -000	HOGBACK RD	0-1	5-10	Install Type 2 Object Marker(s) or Delineator(s)
4584	027-CR-1010 -000	HUBBARD RD	0-1	2-5	Install Type 2 Object Marker(s) or Delineator(s)
4590	027-CR-1337 -000	RIDDLETOWN RD	0-1	5-10	Install Type 2 Object Marker(s) or Delineator(s)
4594	027-CR-1236 -000	LETTERED OAK RD	0-1	>10	Evaluate roadway width, curvature and grade at drop off compared to Other locations in county to evaluate need for guardrail

Exhibit Clinton-17: Roadside Drop Off Recommendations

Fixed Object Recommendations (Clinton County)

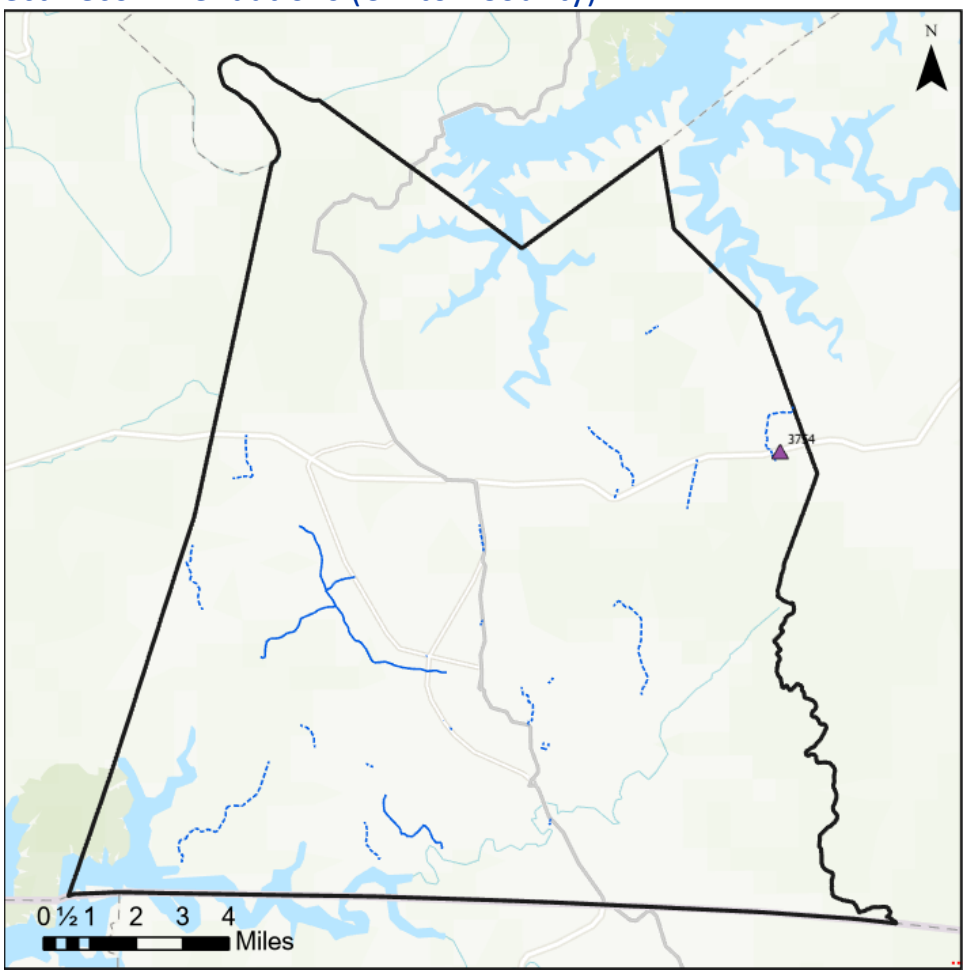


Exhibit Clinton-18: Fixed Object Locations

Point ID	RT_UNIQUE	RD_NAME	Object	Single / Series	Offset	Recommendations
3754	027-CR-1017 -000	PLEASANT RIDGE RD	Tree	Single	1-3	Remove

Exhibit Clinton-19: Fixed Object Recommendations

Intersection Recommendations (Clinton County)

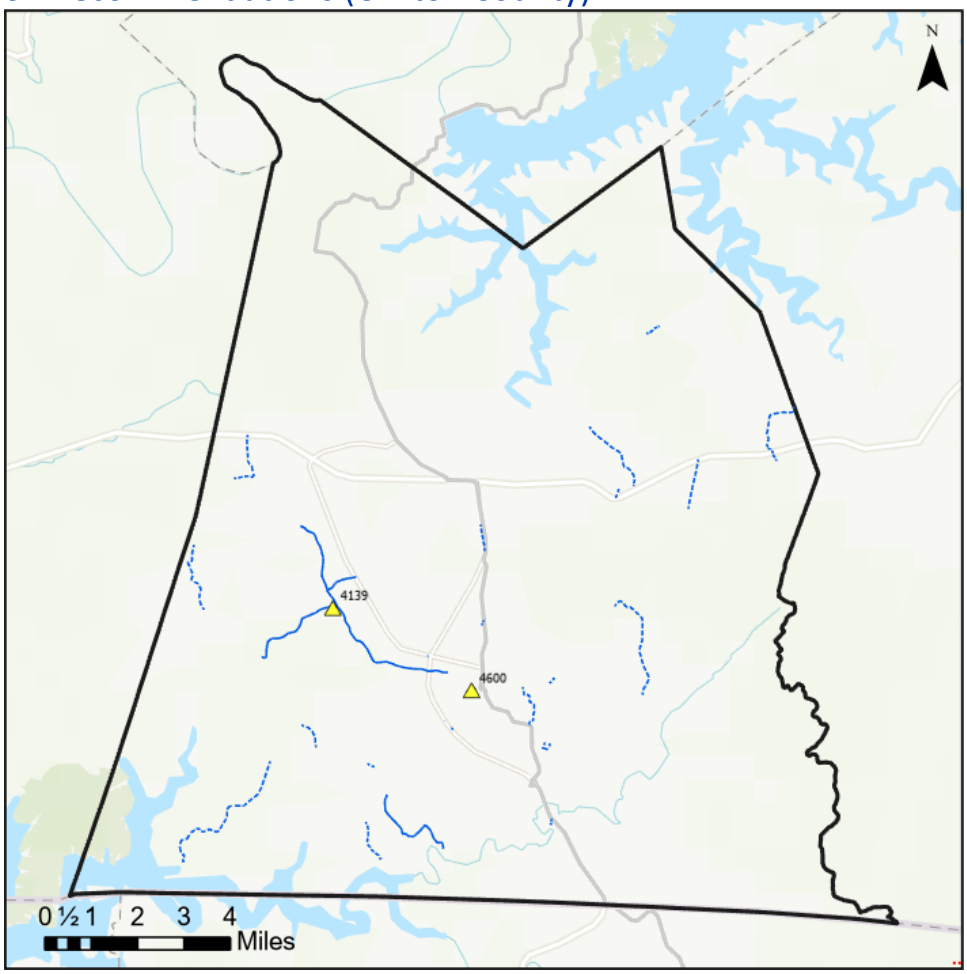


Exhibit Clinton-20: Intersection Locations

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
4139	027-CR-1254 -000	HOGBACK RD	Intersection Obscured on	No	Evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)
4600	027-CS-1001 -000	FAIRGROUNDS RD	Insufficient Sight Distance at	No	Evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)

Exhibit Clinton-21: Section Recommendations

APPENDIX G: CUMBERLAND COUNTY SAFETY ACTION PLAN

Cumberland County Overview

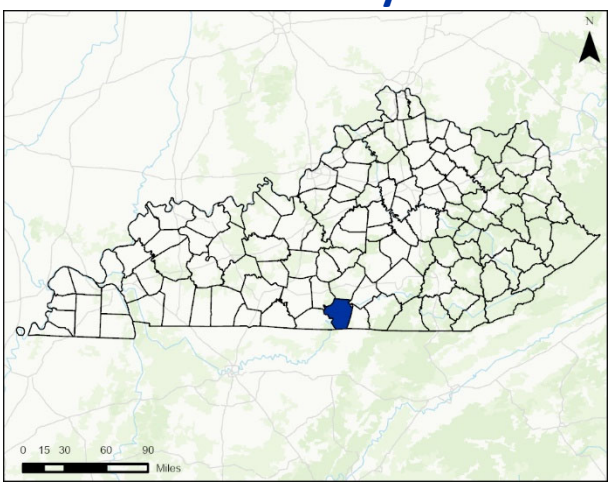


Exhibit Cumberland-1: Location Map

Key Information Table Cumberland County	
Population	6,000
Population in Persistent Poverty	27%
Underserved Community	Yes
Fatalities (All Roads)	7
Fatalities (County Roads)	0
Fatality rate per 100,000 persons	116.7
County Road Mileage	289.1
State Road Mileage	172.1
Total Mileage	**461.2**

Exhibit Cumberland-2: Key Information

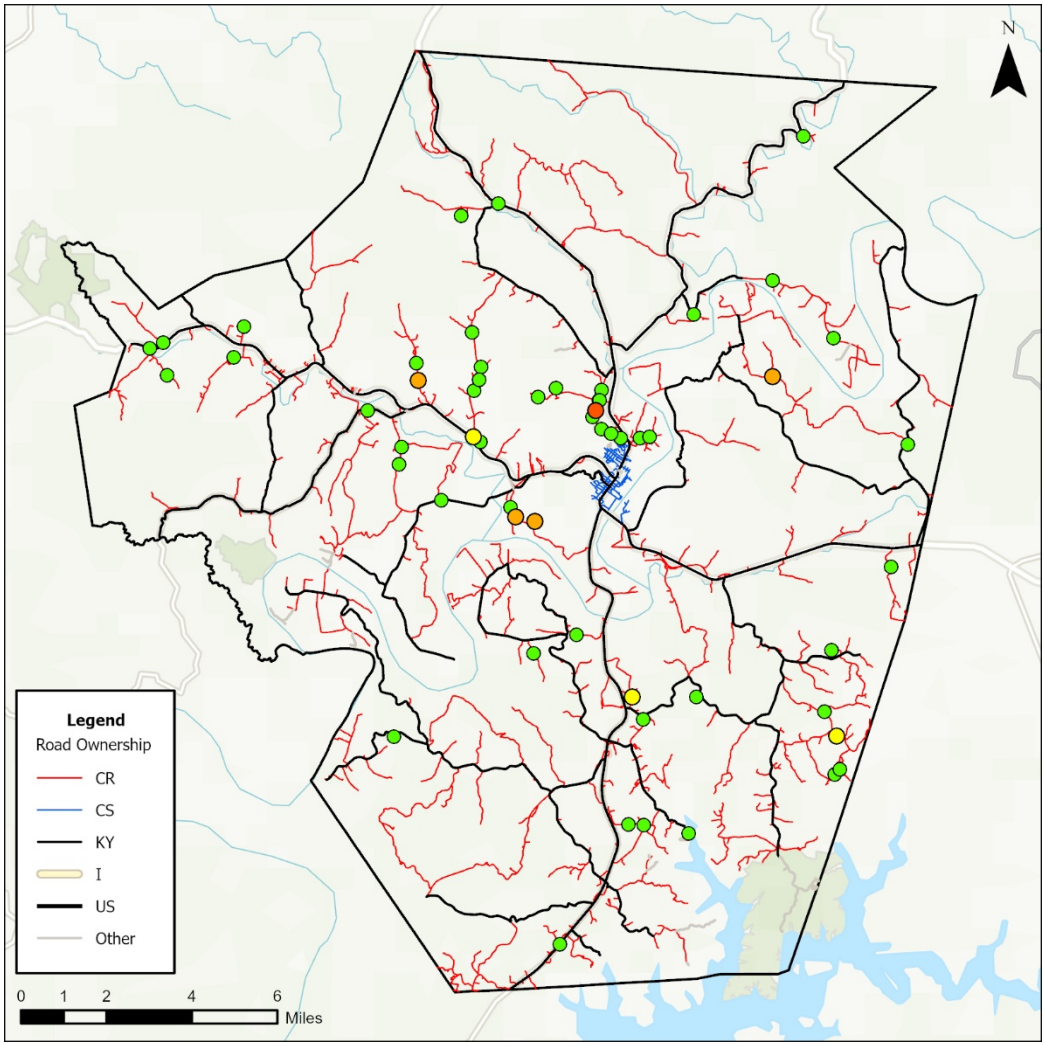


Figure Cumberland-3: Map of County Roadways

Crash Analysis

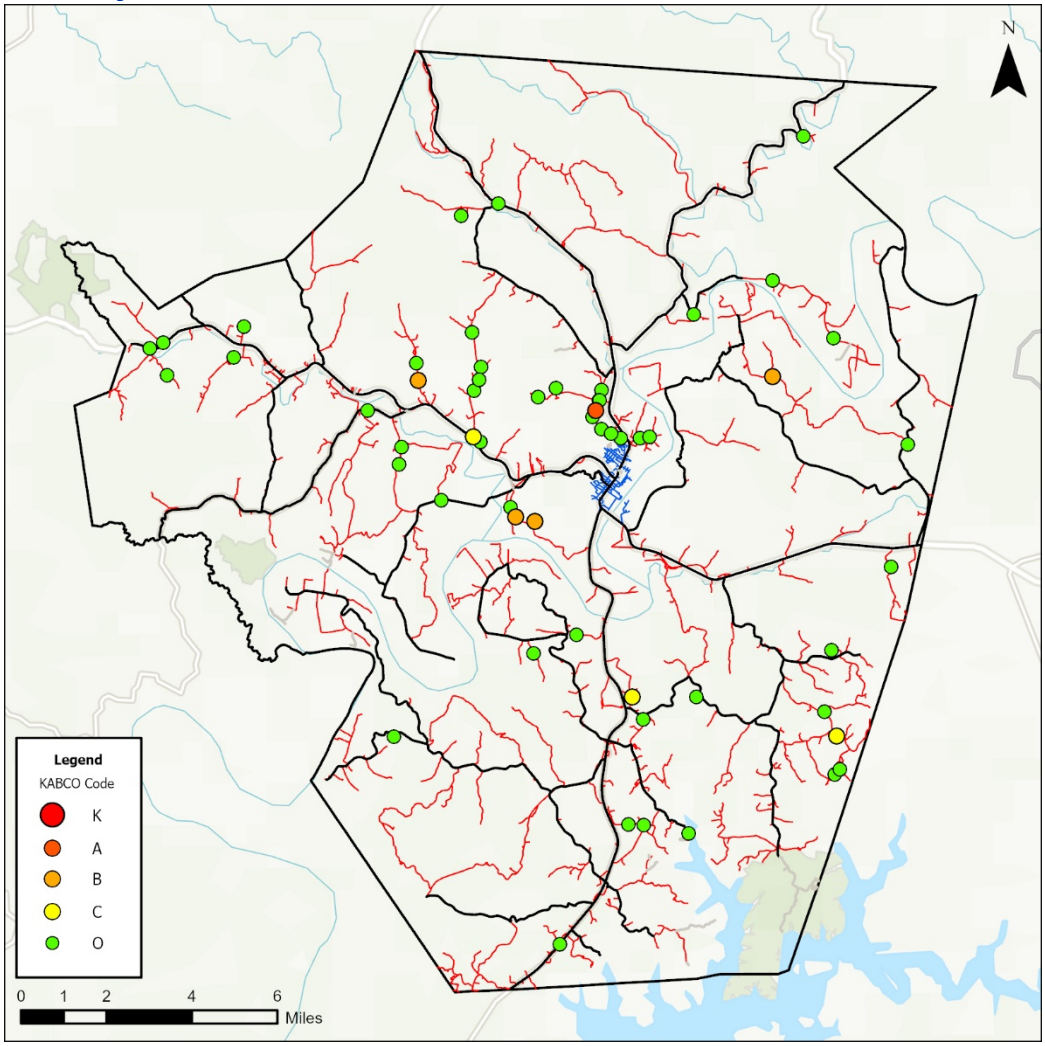
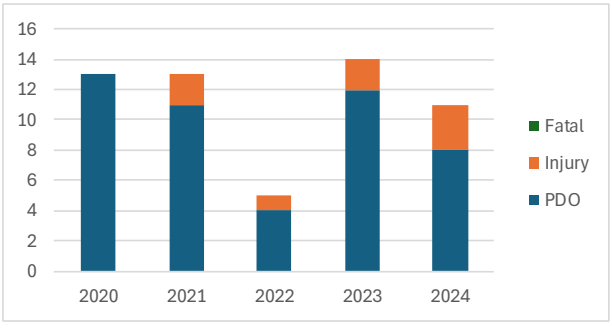


Figure Cumberland-4: Map of County Road Crashes



Year	Property Damage Only	Injury	Fatal	Total
2020	13	0	0	**13**
2021	11	2	0	**13**
2022	4	1	0	**5**
2023	12	2	0	**14**
2024	8	3	0	**11**

Figure Cumberland-5: Crash Distribution by Year

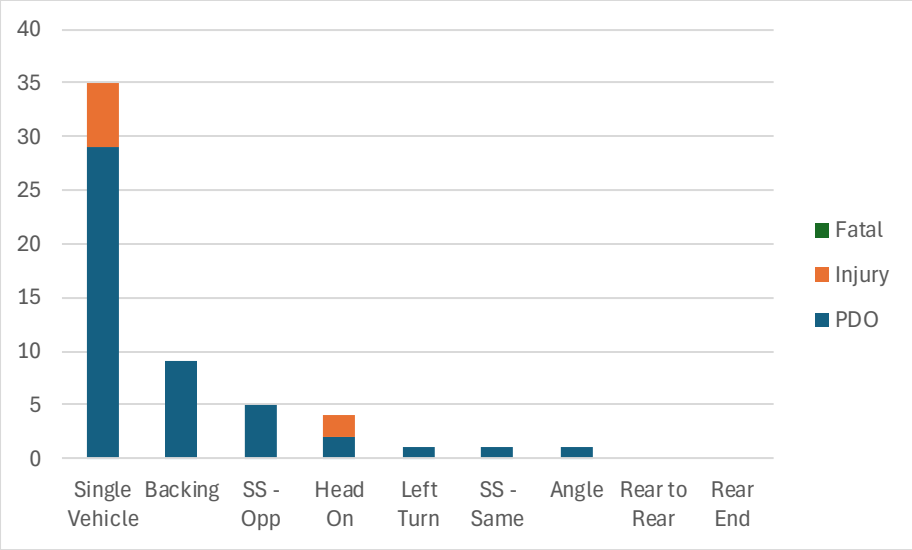


Exhibit Cumberland-6: Crash Frequency and Severity by Manner of Collision

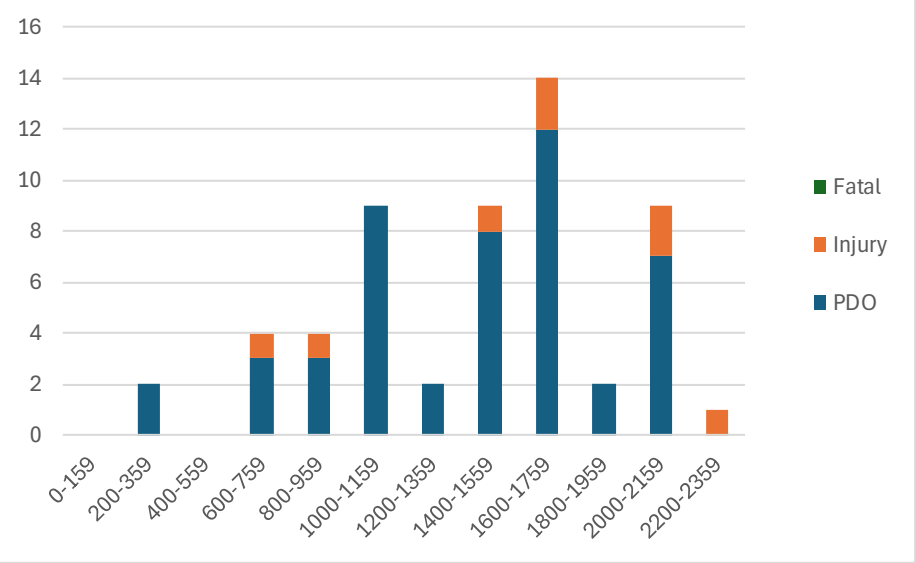


Exhibit Cumberland-7: Crashes and Severity by Time of Day

Focus Roadways

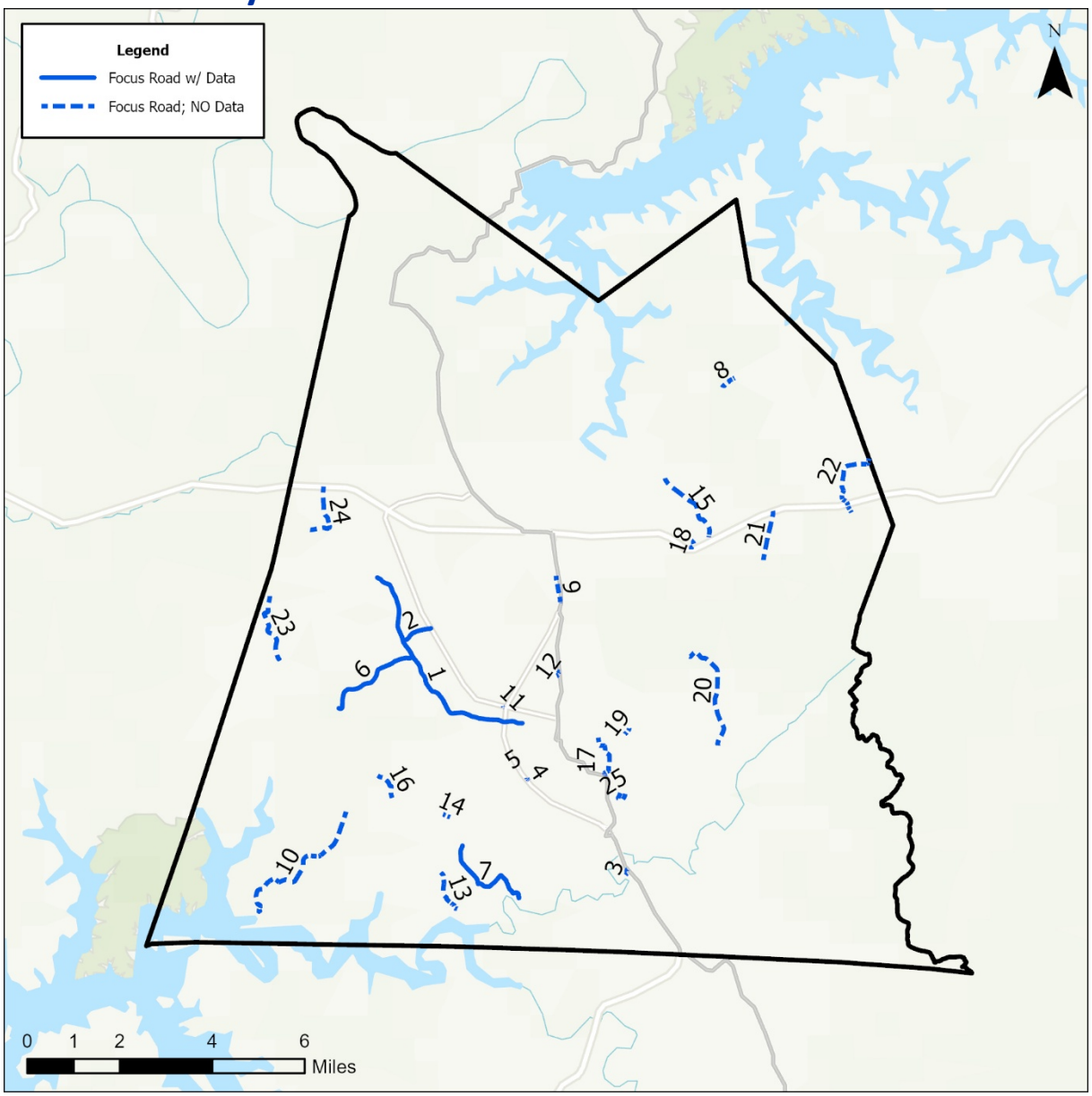


Exhibit Cumberland-8: Focus Roads

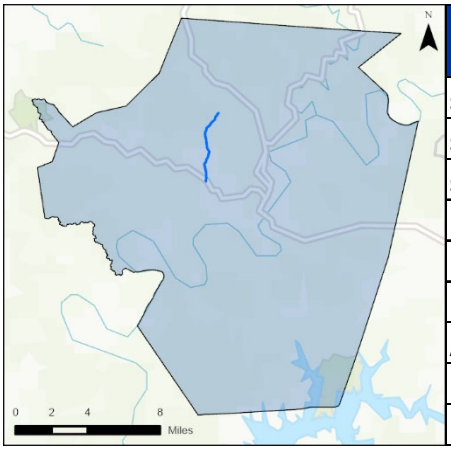
RT_UNIQUE	Length	County	Road Name	Injury Crashes	Fatal Crashes	PDO	CrashScore	UseScore	Rank	Focus Road	Data Points	Roadway Data
Cumberland County												
029-CR-1304 -000	**4.2**	**Cumberland**	**ALLENS CREEK RD**	**1**	**0**	**5**	**3.33**	**3.10**	**1**	**1**	**14**	**4**
029-CR-1009 -000	**2.7**	**Cumberland**	**BRUSH CREEK RD**	**1**	**0**	**0**	**4.17**	**0.31**	**2**	**1**	**9**	**1**
029-CR-1319 -000	**3.4**	**Cumberland**	**GARRETT CREEK RD**	**0**	**1**	**0**	**3.33**	**0.47**	**3**	**1**	**6**	**1**
029-CR-1204 -000	**1.0**	**Cumberland**	**COLD SPRINGS RD**	**0**	**0**	**3**	**0.50**	**2.80**	**4**	**1**	**5**	**2**
029-CR-1347 -000	**2.7**	**Cumberland**	**BEECH GROVE RD**	**1**	**0**	**1**	**2.67**	**0.60**	**5**	**1**	**9**	**1**
029-CR-1329 -000	**1.4**	**Cumberland**	**LEATHERWOOD RD**	**0**	**0**	**1**	**0.17**	**2.94**	**6**	**1**	**5**	**1**
029-CR-1322 -000	**2.6**	**Cumberland**	**DUTCH CREEK RD**	**1**	**0**	**1**	**2.67**	**0.42**	**7**	**1**	**16**	**7**
029-CR-1028 -000	1.0	Cumberland	JONES RIDGE RD	0	0	0	0.00	2.81	8	1	0	0
029-CR-1157 -000	1.8	Cumberland	JOE SCOTT RD	1	0	0	2.50	0.23	9	1	0	0
029-CR-1112 -000	2.2	Cumberland	PALESTINE RD	0	0	0	0.00	2.67	10	1	0	0
029-CR-1013 -000	0.3	Cumberland	SEMINARY CHURCH RD	1	0	0	2.50	0.14	11	1	0	0
029-CR-1712 -000	1.3	Cumberland	MEADOWS OF THE CUMBERLAND	1	0	0	2.50	0.12	12	1	0	0

Exhibit Cumberland-9: List of Focus Roadways

Recommended Improvements (Top 5 Roads)

ALLENS CREEK RD (029-CR-1304 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	3	1	0	**4**
SS - Opp	1	0	0	**1**
SS - Same	0	0	0	**0**
Left Turn	0	0	0	**0**
Head On	0	0	0	**0**
Backing	0	0	0	**0**
Angle	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

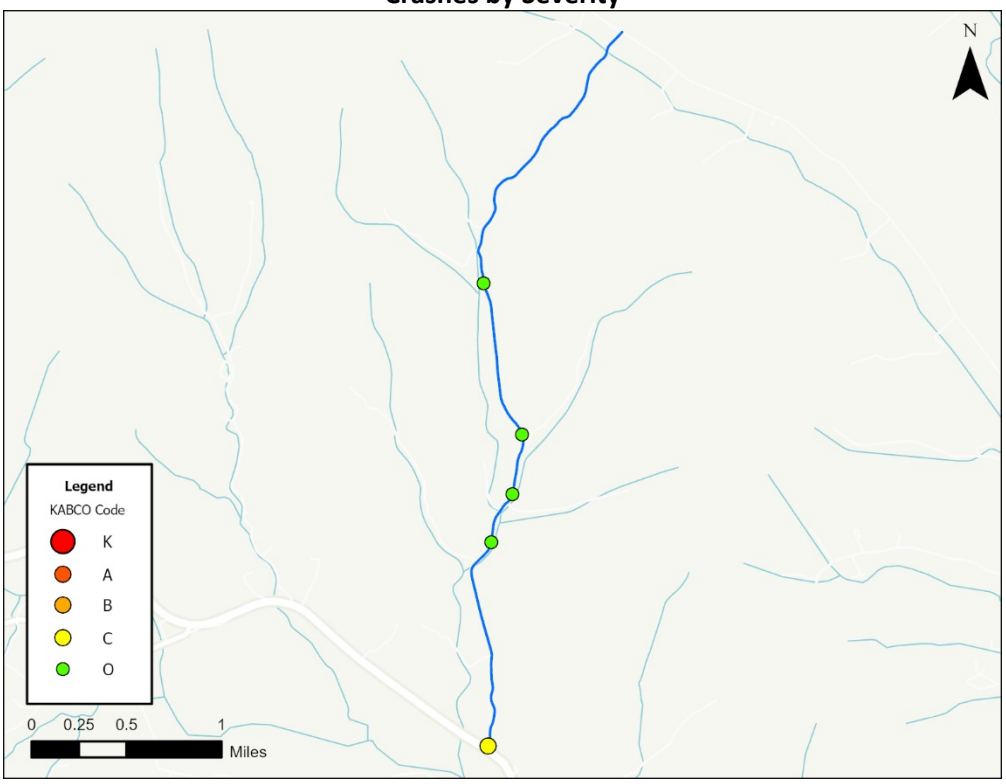
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
3840	029-CR-1304 -000	ALLENS CREEK RD	10	4	1	0-20		✓	✓
3843	029-CR-1304 -000	ALLENS CREEK RD	10	3	3	40-60	✓	✓	✓
3847	029-CR-1304 -000	ALLENS CREEK RD	10	3	3	20-40	✓	✓	✓
3852	029-CR-1304 -000	ALLENS CREEK RD	10	3	3	0-20		✓	✓
3854	029-CR-1304 -000	ALLENS CREEK RD	10	4	2	0-20		✓	✓

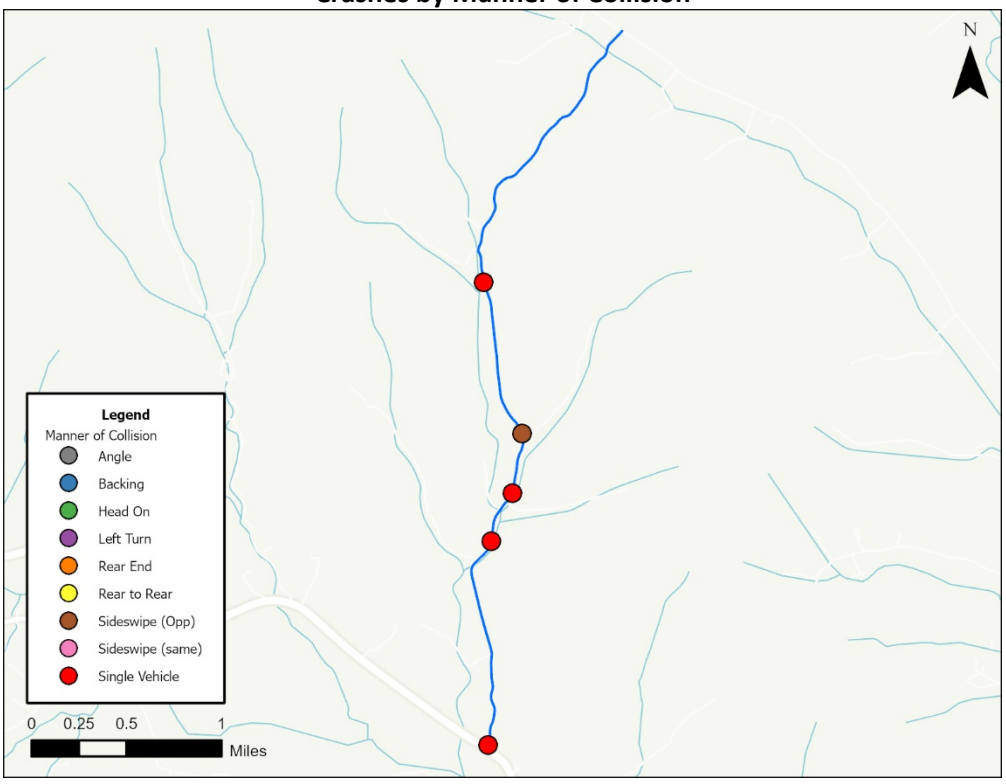
Roadway Typical Section

No Data Collected

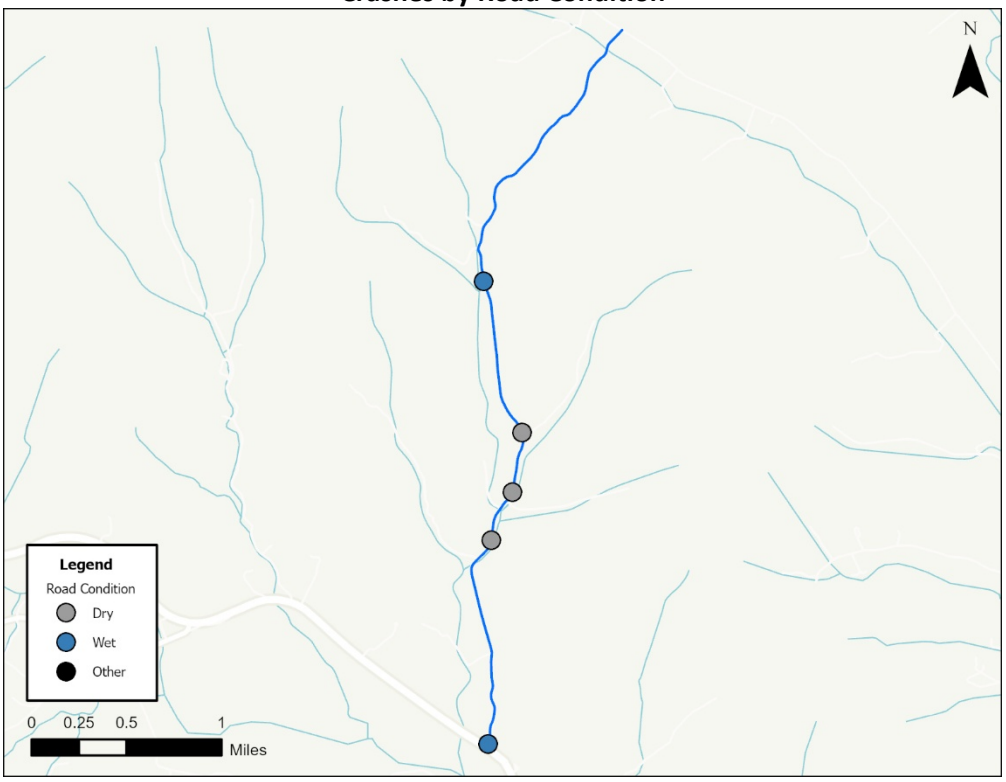
Crashes by Severity



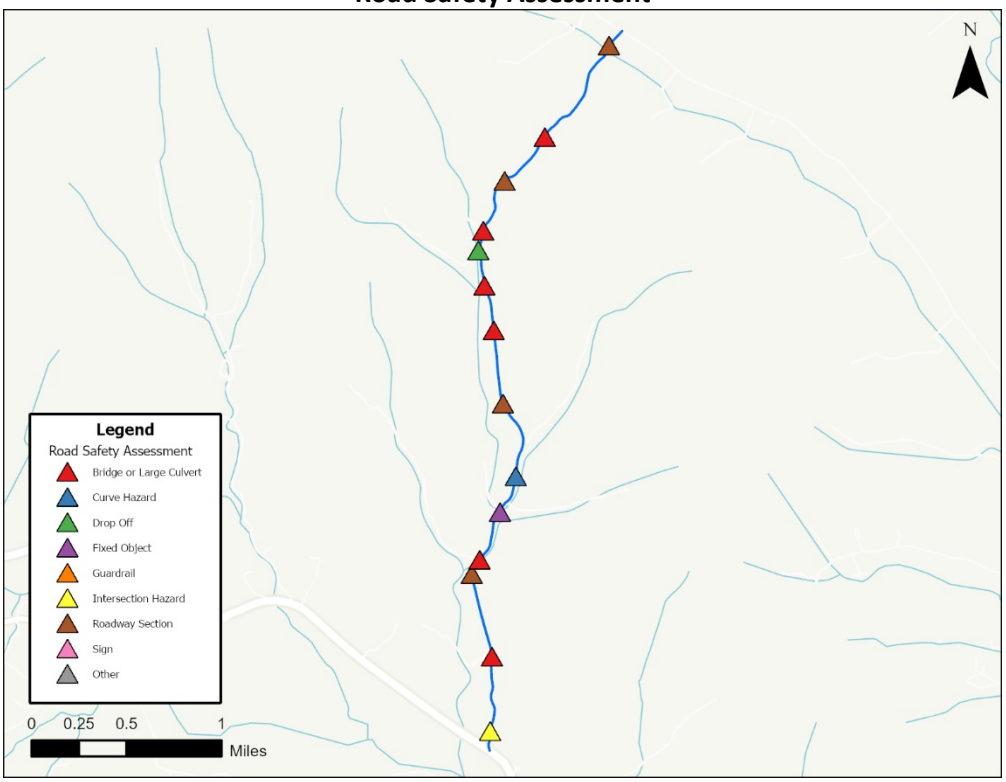
Crashes by Manner of Collision



Crashes by Road Condition



Road Safety Assessment



General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
3842	029-CR-1304 -000	ALLENS CREEK RD	10	4	3	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3844	029-CR-1304 -000	ALLENS CREEK RD	10	4	3	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3848	029-CR-1304 -000	ALLENS CREEK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3849	029-CR-1304 -000	ALLENS CREEK RD	10	4	4	Install "One Lane Bridge" (W5-1) Sign.
3851	029-CR-1304 -000	ALLENS CREEK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3853	029-CR-1304 -000	ALLENS CREEK RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
3846	029-CR-1304 -000	ALLENS CREEK RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation

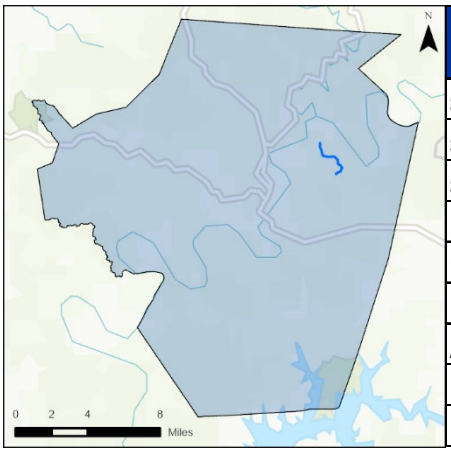
Point ID	RT_UNIQUE	RD_NAME	Drop Off Offset	Drop Off Height	Recommendations
3850	029-CR-1304 -000	ALLENS CREEK RD	1-3	5-10	Install Type 2 Object Marker(s) or Delineator(s)

Point ID	RT_UNIQUE	RD_NAME	Object	Single / Series	Offset	Recommendations
3845	029-CR-1304 -000	ALLENS CREEK RD	Utility Pole	Single	1-3	Install Type 2 Object Marker(s)

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
3841	029-CR-1304 -000	ALLENS CREEK RD	Insufficient Sight Distance at ,Intersection Skew	No	Evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X); Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection skew

BRUSH CREEK RD (029-CR-1009 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	0	1	0	**1**
SS - Same	0	0	0	**0**
SS - Opp	0	0	0	**0**
Left Turn	0	0	0	**0**
Head On	0	0	0	**0**
Backing	0	0	0	**0**
Angle	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

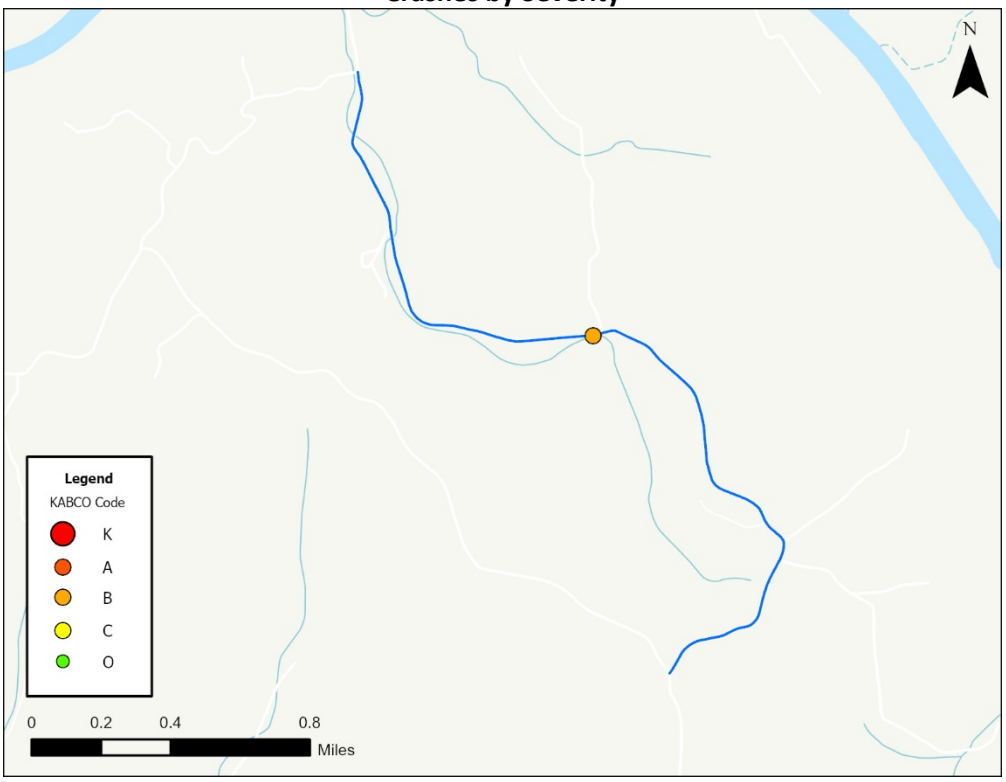
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
3896	029-CR-1009 -000	BRUSH CREEK RD	10	3	3	20-40	✓	✓	✓

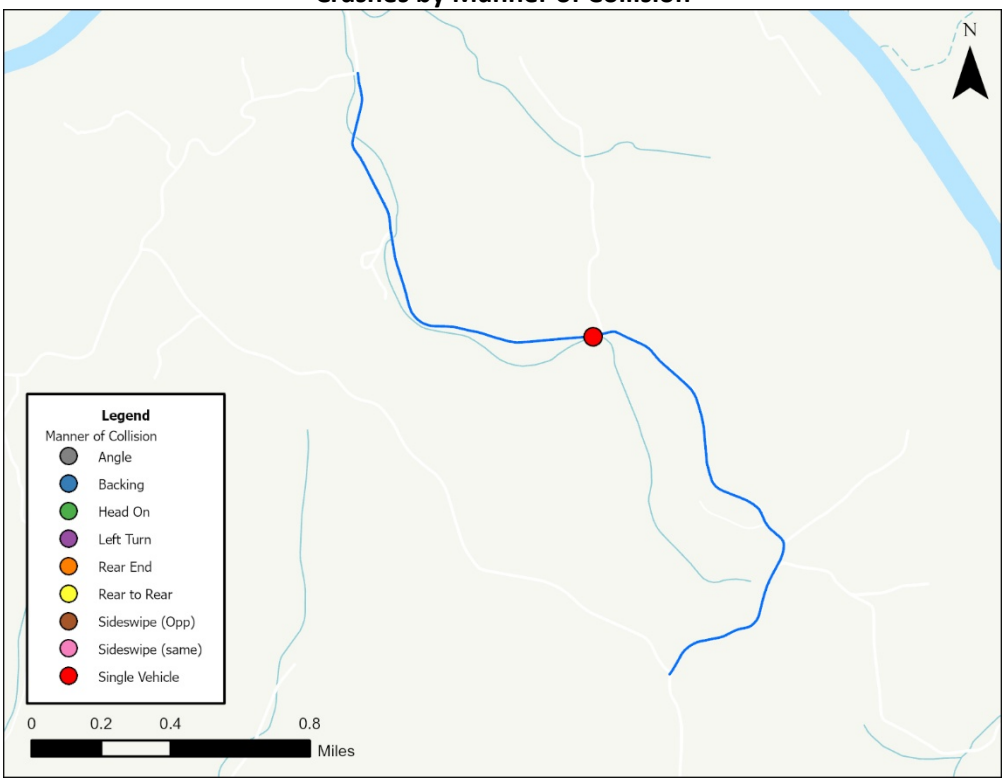
Roadway Typical Section



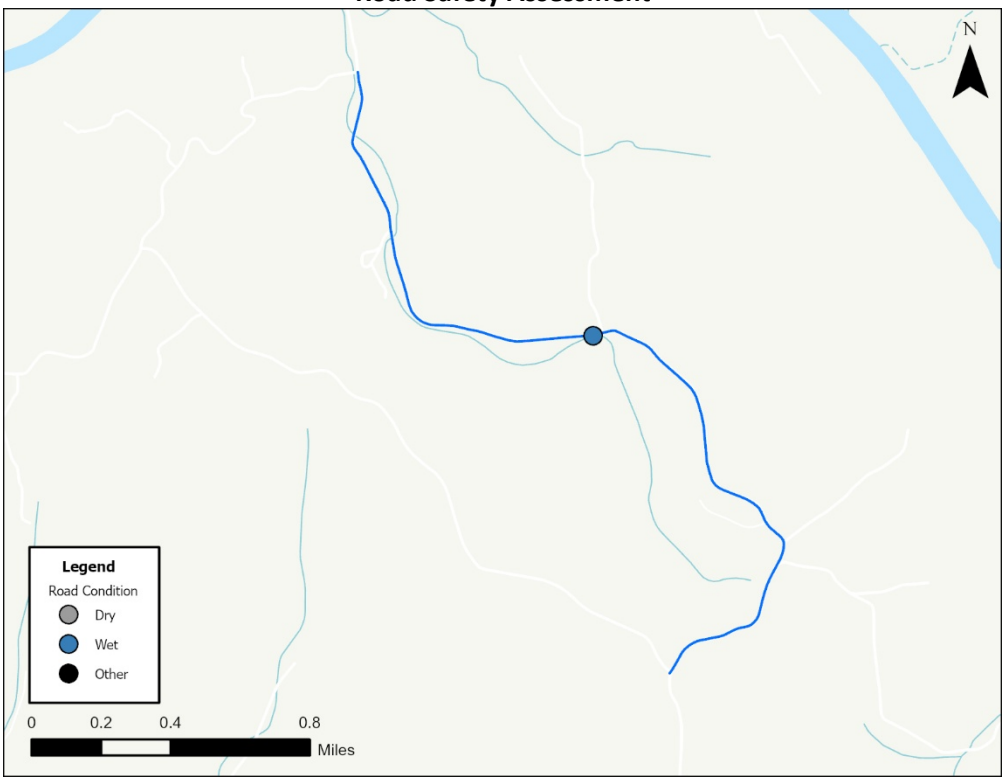
Crashes by Severity



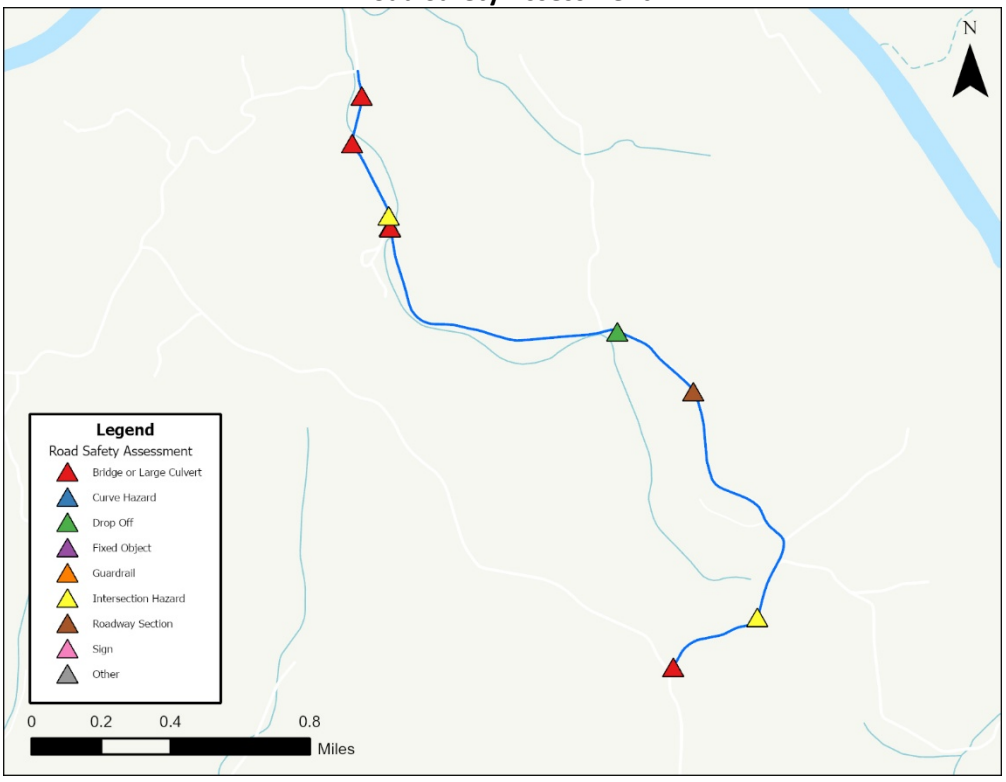
Crashes by Manner of Collision



Road Safety Assessment



Road Safety Assessment



General Recommendations

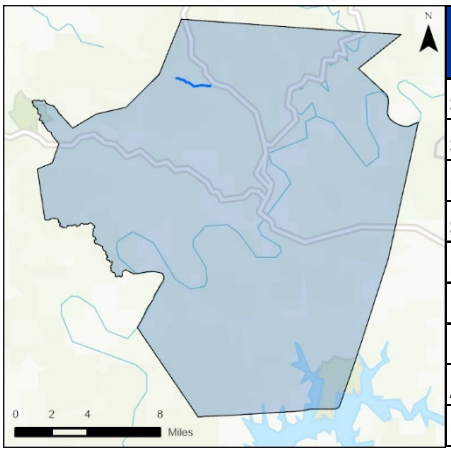
Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
3890	029-CR-1009 -000	BRUSH CREEK RD	10	4	4	Install "One Lane Bridge" (W5-1) Sign.
3891	029-CR-1009 -000	BRUSH CREEK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3893	029-CR-1009 -000	BRUSH CREEK RD	10	4	3	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3894	029-CR-1009 -000	BRUSH CREEK RD	10	4	3	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3898	029-CR-1009 -000	BRUSH CREEK RD	10	0	3	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.

Point ID	RT_UNIQUE	RD_NAME	Drop Off Offset	Drop Off Height	Recommendations
3895	029-CR-1009 -000	BRUSH CREEK RD	0-1	2-5	Install Type 2 Object Marker(s) or Delineator(s)

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
3892	029-CR-1009 -000	BRUSH CREEK RD	Intersection Skew	No	Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection skew
3897	029-CR-1009 -000	BRUSH CREEK RD	Intersection Skew	No	Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection skew

GARRETT CREEK RD (029-CR-1319 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	0	0	0	**0**
SS - Same	0	0	0	**0**
Head On	0	0	0	**0**
SS - Opp	0	0	0	**0**
Backing	0	0	0	**0**
Rear End	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Angle	0	0	0	**0**
Left Turn	0	0	0	**0**

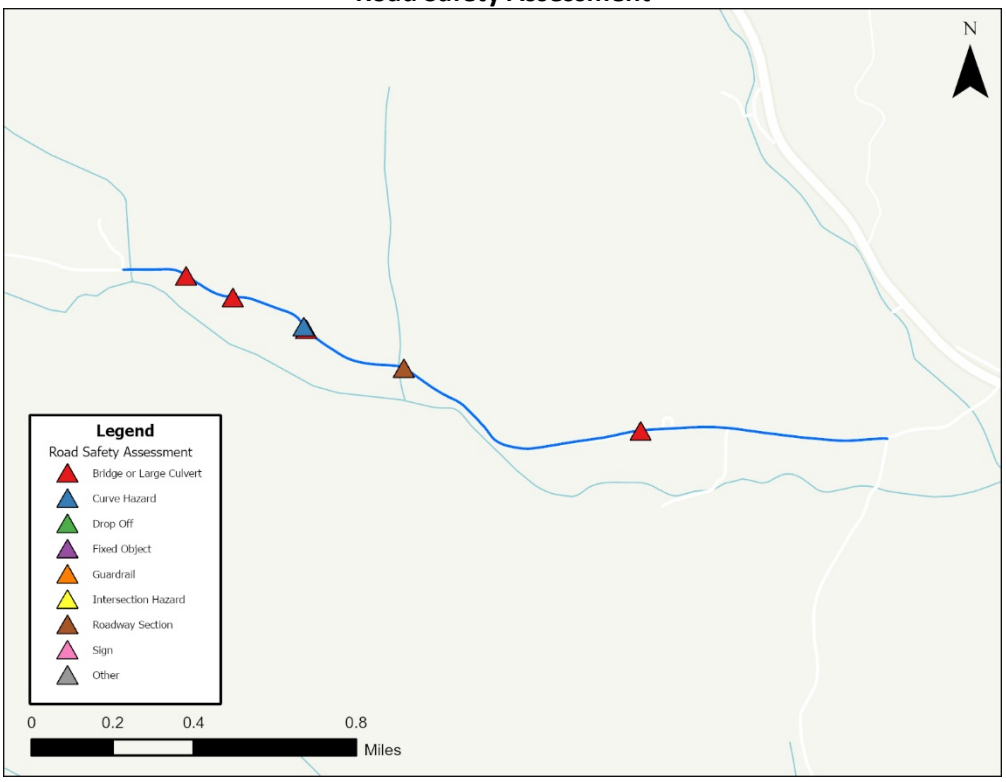
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
3900	029-CR-1319 -000	GARRETT CREEK RD	10	4	1	0-20		✓	✓

Roadway Typical Section



Road Safety Assessment



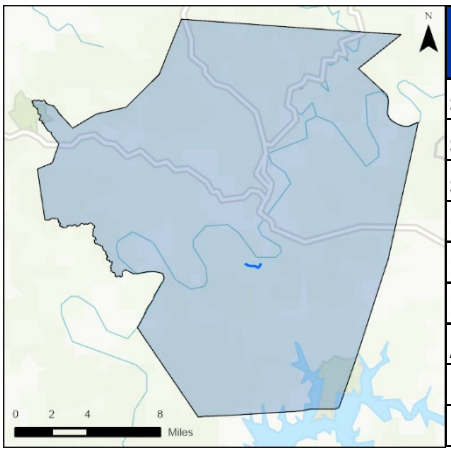
General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
3899	029-CR-1319 -000	GARRETT CREEK RD	10	0	2	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3901	029-CR-1319 -000	GARRETT CREEK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3903	029-CR-1319 -000	GARRETT CREEK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3904	029-CR-1319 -000	GARRETT CREEK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations	Other
3902	029-CR-1319 -000	GARRETT CREEK RD	Other	Yes	Evaluate curve hazard	Ditch/tree

COLD SPRINGS RD (029-CR-1204 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	1	0	0	**1**
SS - Same	0	0	0	**0**
SS - Opp	0	0	0	**0**
Left Turn	0	0	0	**0**
Head On	0	0	0	**0**
Backing	0	0	0	**0**
Angle	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

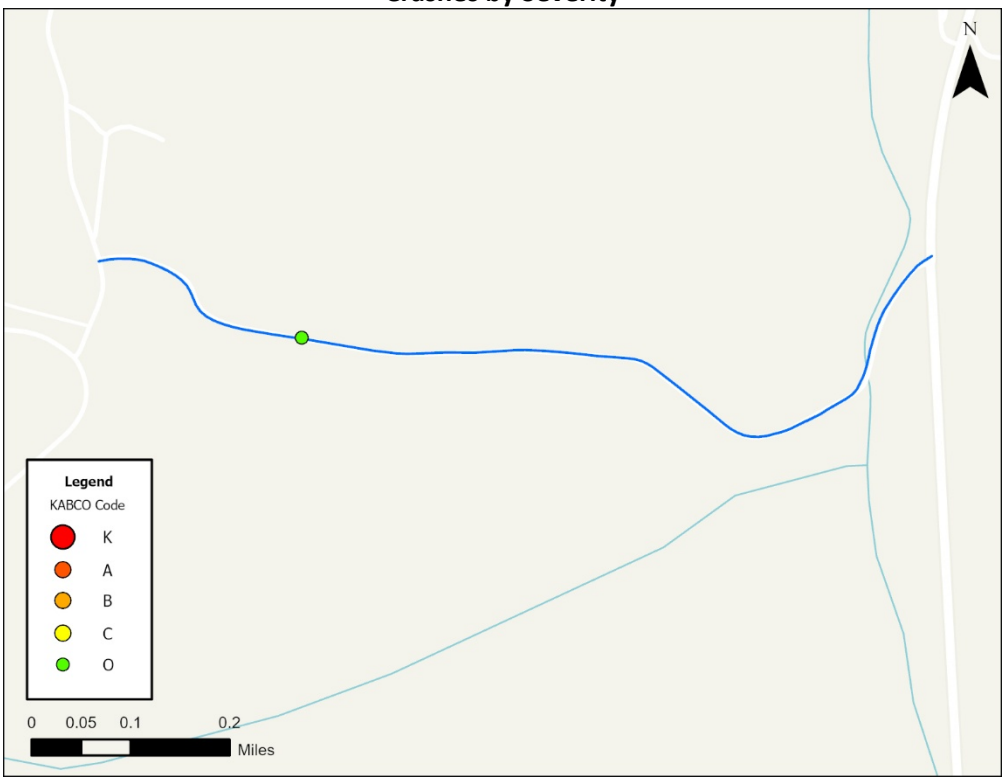
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
3886	029-CR-1204 -000	COLD SPRINGS RD	10	3	3	0-20		✓	✓
3889	029-CR-1204 -000	COLD SPRINGS RD	10	4	1	0-20		✓	✓

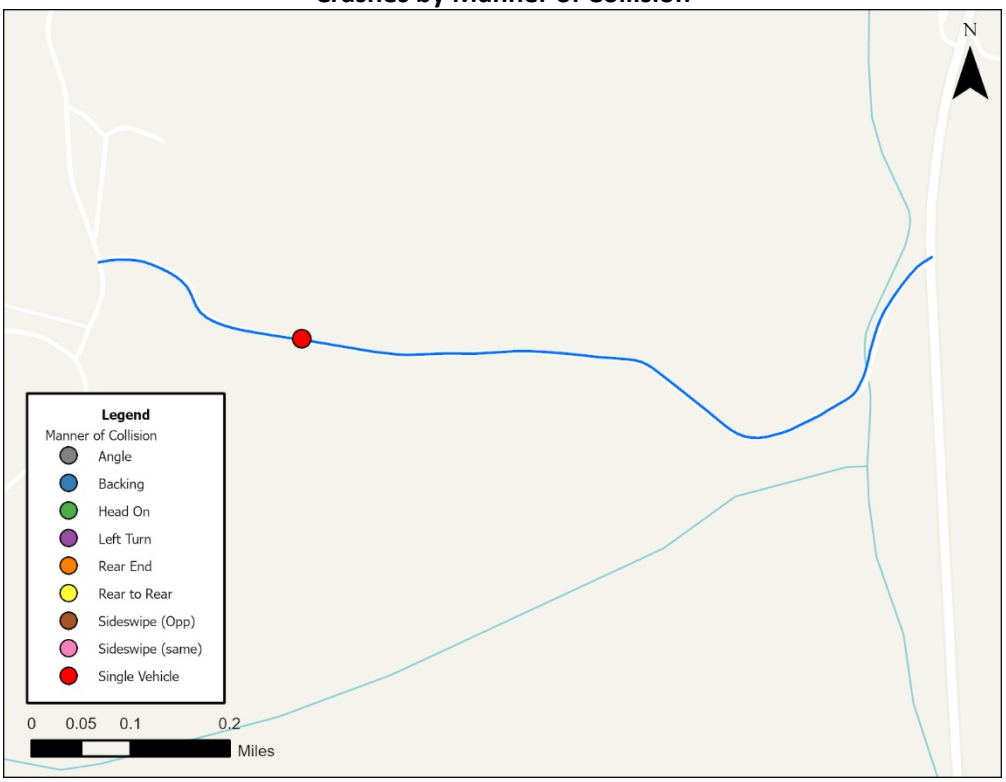
Roadway Typical Section



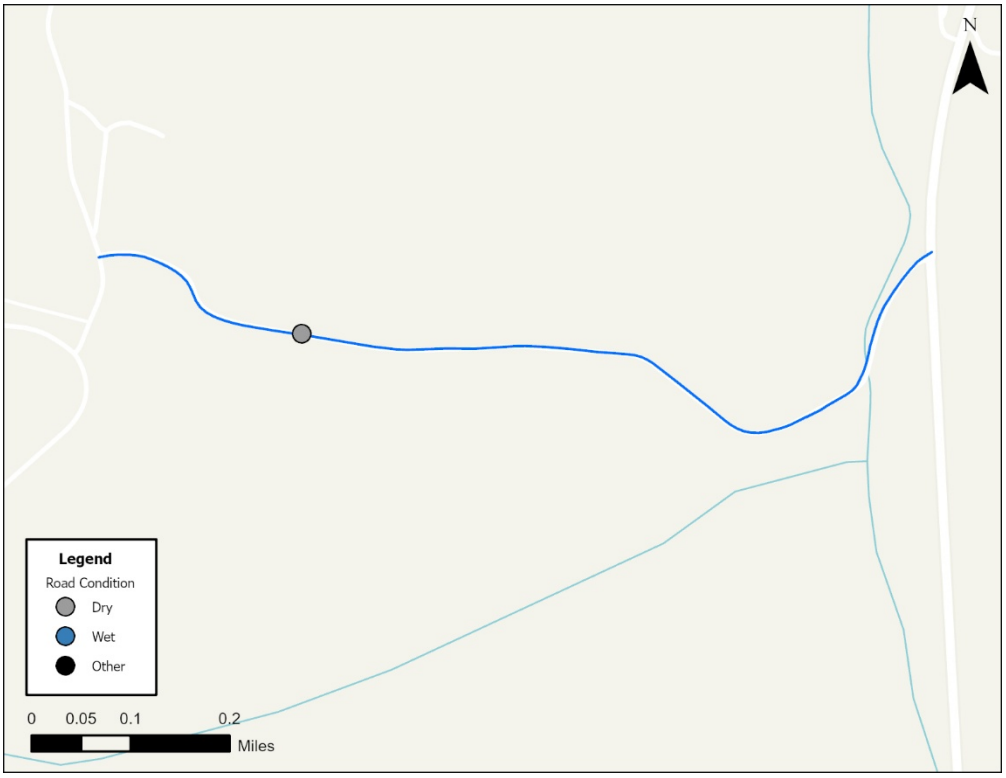
Crashes by Severity



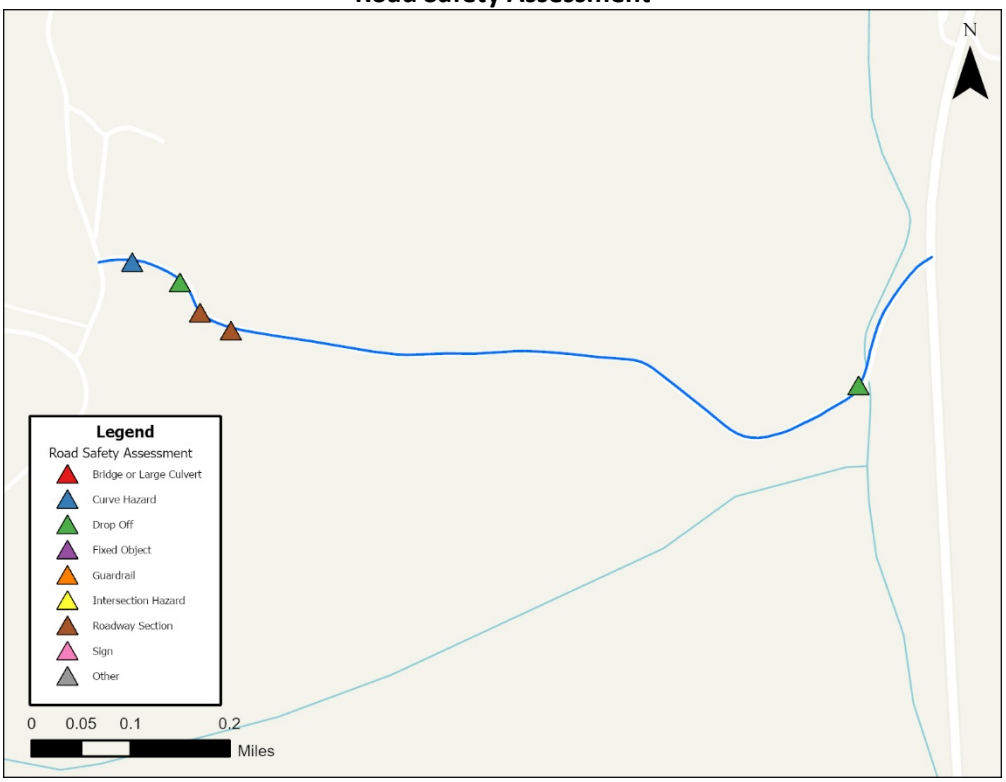
Crashes by Manner of Collision



Road Conditions



Road Safety Assessment



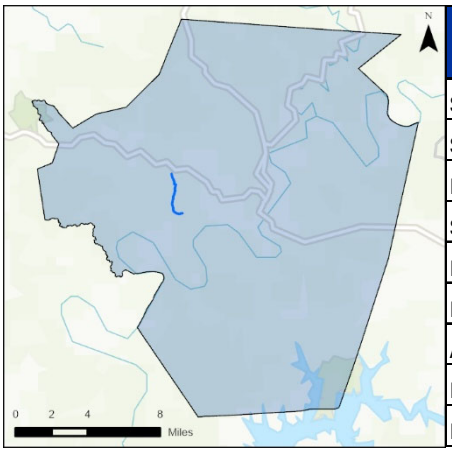
General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
3887	029-CR-1204 -000	COLD SPRINGS RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation

Point ID	RT_UNIQUE	RD_NAME	Drop Off Offset	Drop Off Height	Recommendations
3885	029-CR-1204 -000	COLD SPRINGS RD	0-1	2-5	Install Type 2 Object Marker(s) or Delineator(s)
3888	029-CR-1204 -000	COLD SPRINGS RD	0-1	2-5	Install Type 2 Object Marker(s) or Delineator(s)

BEECH GROVE RD (029-CR-1347 -000)

Road Location Map and Crash History

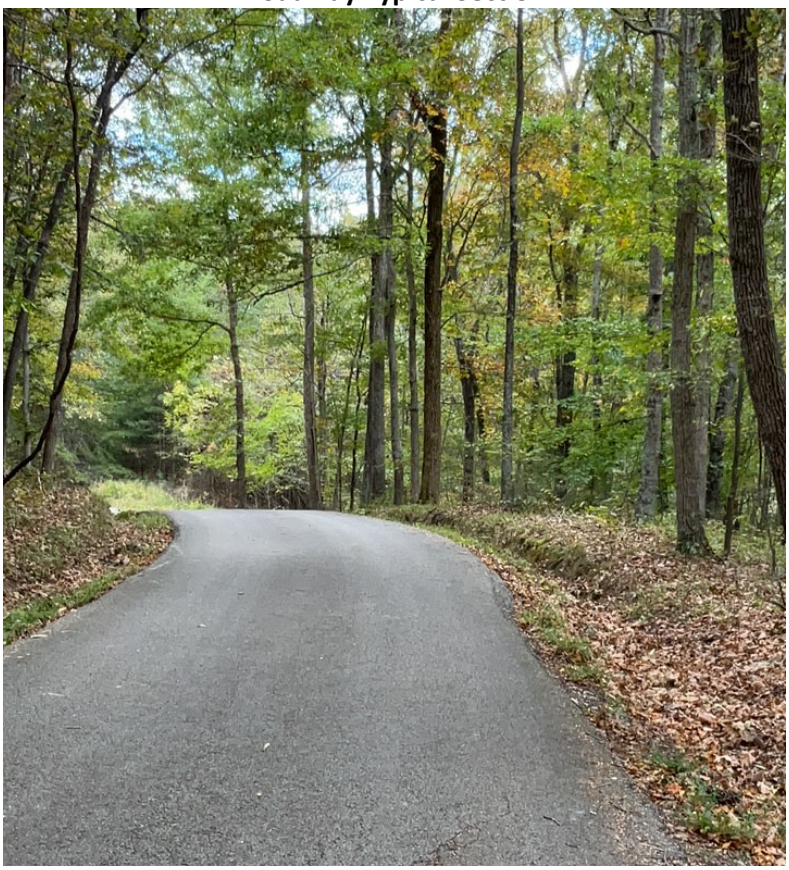


Manner of Collision	Property Damage Only	Injury	Fatal	Total
SS - Opp	1	0	0	**1**
Single Vehicle	1	0	0	**1**
Left Turn	0	0	0	**0**
SS - Same	0	0	0	**0**
Head On	0	0	0	**0**
Backing	0	0	0	**0**
Angle	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

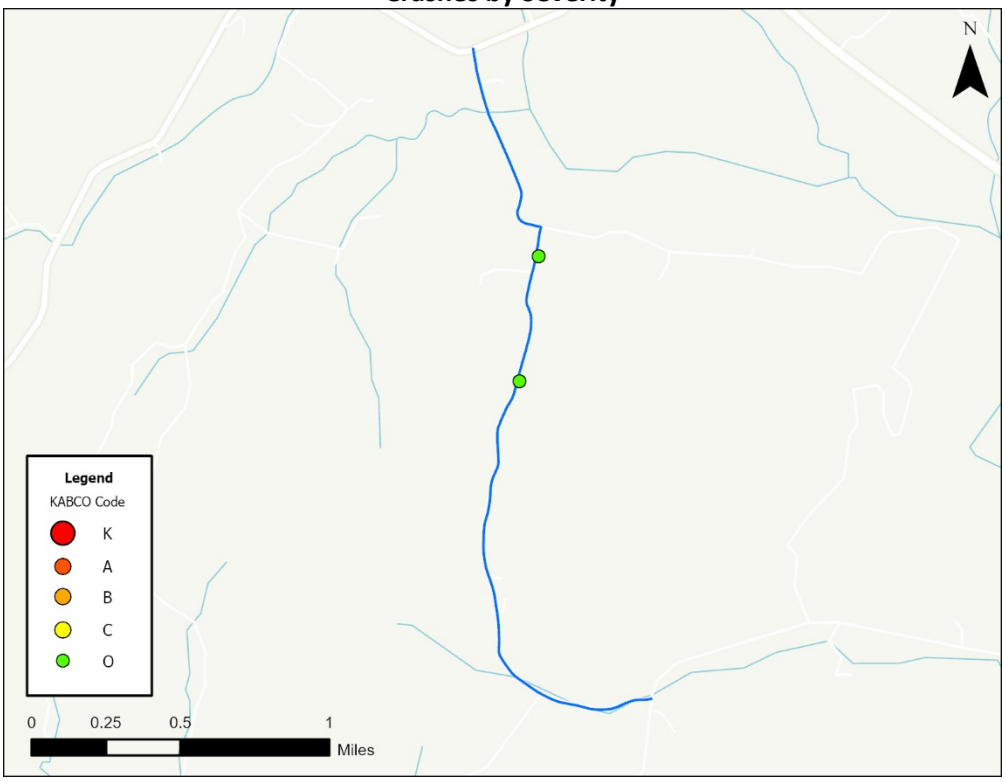
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
3871	029-CR-1347 -000	BEECH GROVE RD	10	3	2	0-20		✓	✓

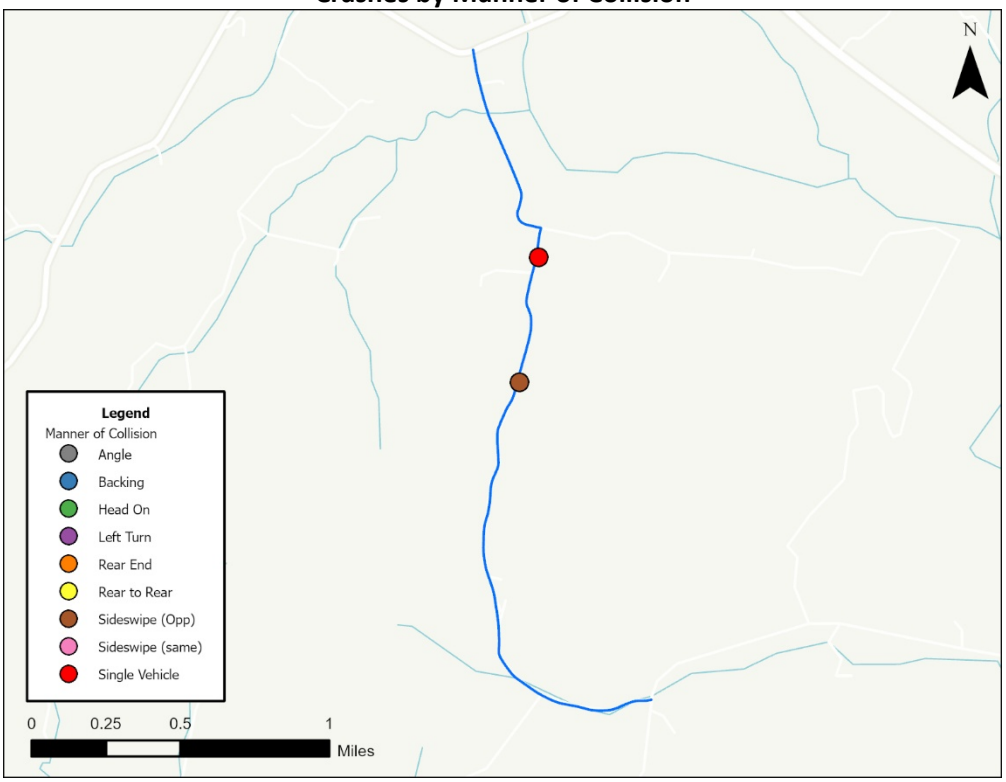
Roadway Typical Section



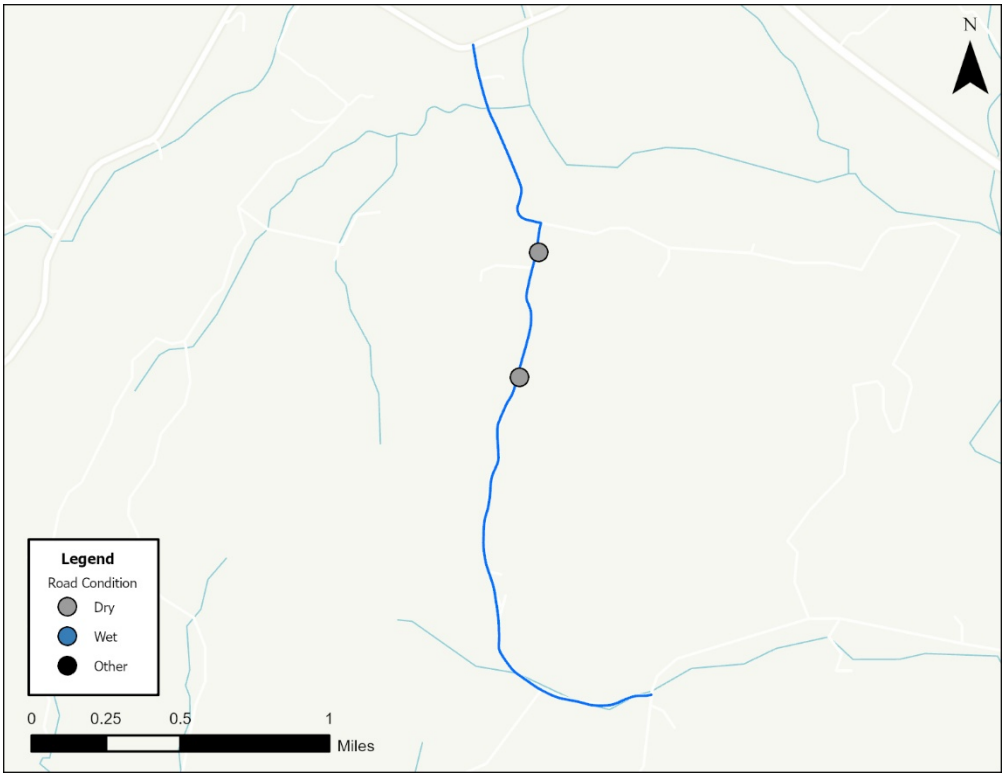
Crashes by Severity



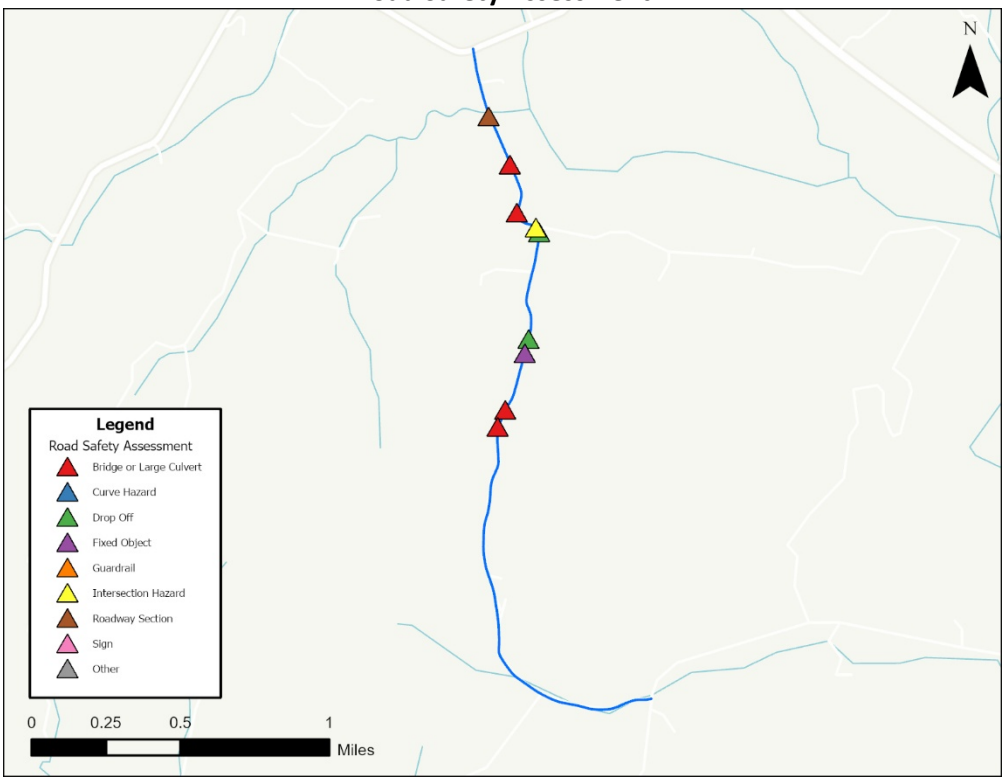
Crashes by Manner of Collision



Road Conditions



Road Safety Assessment



General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
3872	029-CR-1347 -000	BEECH GROVE RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3873	029-CR-1347 -000	BEECH GROVE RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3878	029-CR-1347 -000	BEECH GROVE RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3879	029-CR-1347 -000	BEECH GROVE RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.

Point ID	RT_UNIQUE	RD_NAME	Drop Off Offset	Drop Off Height	Recommendations
3875	029-CR-1347 -000	BEECH GROVE RD	0-1	2-5	Install Type 2 Object Marker(s) or Delineator(s)
3876	029-CR-1347 -000	BEECH GROVE RD	0-1	2-5	Install Type 2 Object Marker(s) or Delineator(s)

Point ID	RT_UNIQUE	RD_NAME	Object	Single / Series	Offset	Recommendations
3877	029-CR-1347 -000	BEECH GROVE RD	Tree	Series	1-3	Remove trees within 3 ft of roadway

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
3874	029-CR-1347 -000	BEECH GROVE RD	Insufficient Sight Distance at ,Intersection Skew	Yes	Clear vegetation and evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X); Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection skew

Other Roadways

General Roadway Conditions and Recommendations (Cumberland County)

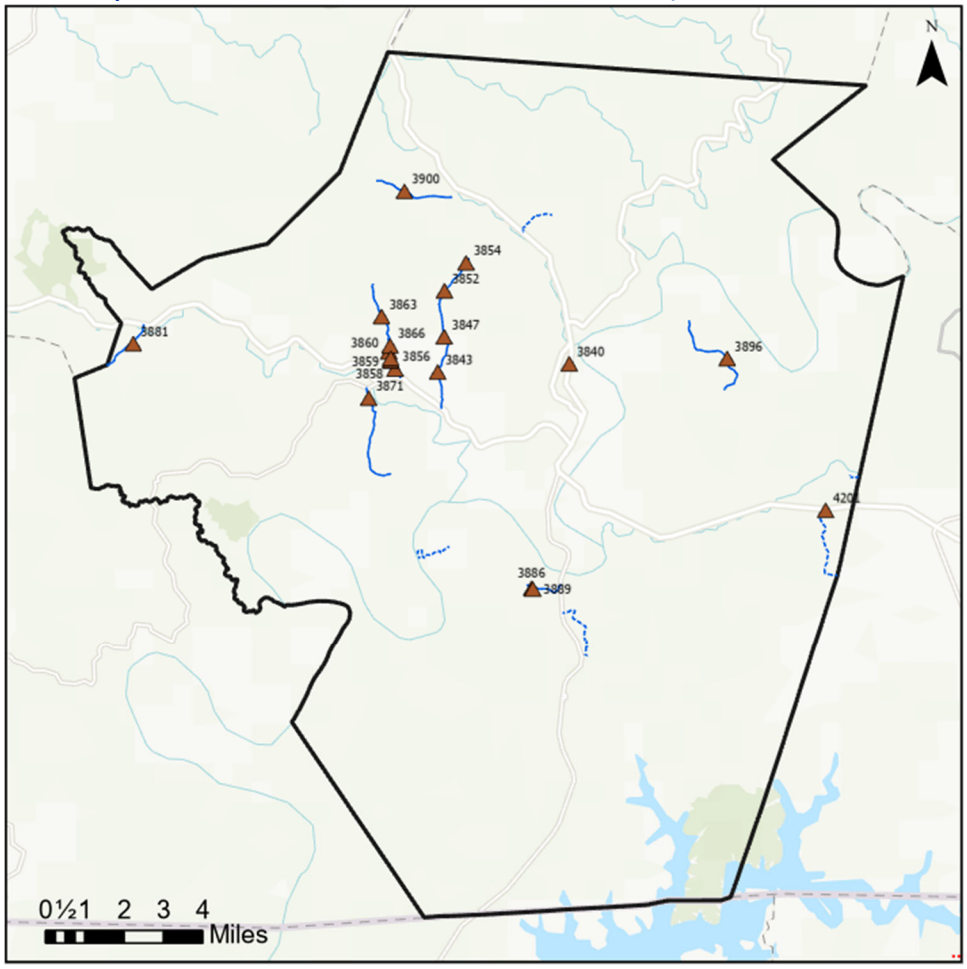


Exhibit Cumberland-10: General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
3840	029-CR-1304 -000	ALLENS CREEK RD	10	4	1	0-20		✓	✓
3843	029-CR-1304 -000	ALLENS CREEK RD	10	3	3	40-60	✓	✓	✓
3847	029-CR-1304 -000	ALLENS CREEK RD	10	3	3	20-40	✓	✓	✓
3852	029-CR-1304 -000	ALLENS CREEK RD	10	3	3	0-20		✓	✓
3854	029-CR-1304 -000	ALLENS CREEK RD	10	4	2	0-20		✓	✓
3871	029-CR-1347 -000	BEECH GROVE RD	10	3	2	0-20		✓	✓
3896	029-CR-1009 -000	BRUSH CREEK RD	10	3	3	20-40	✓	✓	✓
3886	029-CR-1204 -000	COLD SPRINGS RD	10	3	3	0-20		✓	✓
3889	029-CR-1204 -000	COLD SPRINGS RD	10	4	1	0-20		✓	✓
3856	029-CR-1322 -000	DUTCH CREEK RD	10	3	3	0-20		✓	✓
3858	029-CR-1322 -000	DUTCH CREEK RD	10	3	2	0-20		✓	✓
3859	029-CR-1322 -000	DUTCH CREEK RD	10	3	1	0-20		✓	✓
3860	029-CR-1322 -000	DUTCH CREEK RD	10	3	2	0-20		✓	✓
3863	029-CR-1322 -000	DUTCH CREEK RD	10	3	3	20-40	✓	✓	✓
3866	029-CR-1322 -000	DUTCH CREEK RD	10	3	2	40-60	✓	✓	✓
3868	029-CR-1322 -000	DUTCH CREEK RD	10	3	3	40-60	✓	✓	✓
3900	029-CR-1319 -000	GARRETT CREEK RD	10	4	1	0-20		✓	✓
3881	029-CR-1329 -000	LEATHERWOOD RD	10	3	2	0-20		✓	✓
4201	029-CR-1112 -000	PALESTINE RD	14	1	7	60-80	✓	✓	✓

Exhibit Cumberland-11: General Roadway Recommendations

Bridge / Culvert Recommendations (Cumberland County)

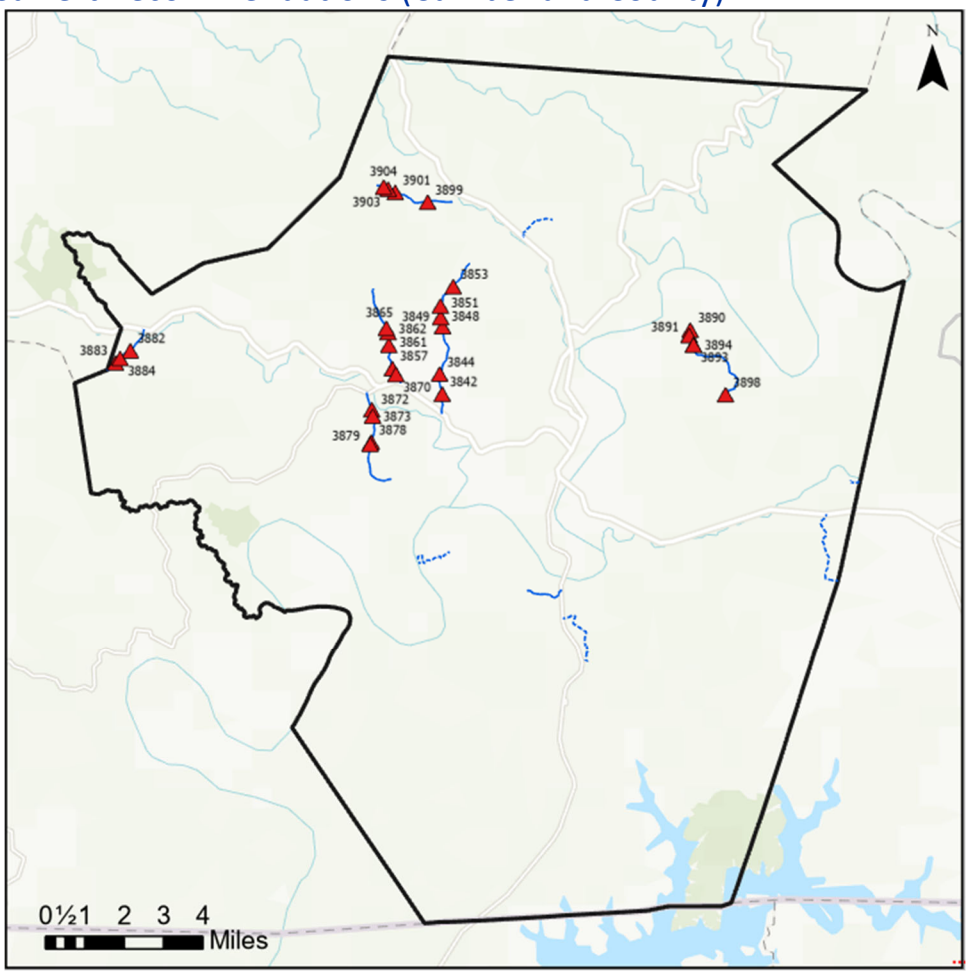


Exhibit Cumberland-12: Bridge / Culvert Locations

Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
3842	029-CR-1304 -000	ALLENS CREEK RD	10	4	3	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3844	029-CR-1304 -000	ALLENS CREEK RD	10	4	3	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3848	029-CR-1304 -000	ALLENS CREEK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3849	029-CR-1304 -000	ALLENS CREEK RD	10	4	4	Install "One Lane Bridge" (W5-1) Sign.
3851	029-CR-1304 -000	ALLENS CREEK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3853	029-CR-1304 -000	ALLENS CREEK RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3872	029-CR-1347 -000	BEECH GROVE RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3873	029-CR-1347 -000	BEECH GROVE RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3878	029-CR-1347 -000	BEECH GROVE RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3879	029-CR-1347 -000	BEECH GROVE RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3890	029-CR-1009 -000	BRUSH CREEK RD	10	4	4	Install "One Lane Bridge" (W5-1) Sign.
3891	029-CR-1009 -000	BRUSH CREEK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3893	029-CR-1009 -000	BRUSH CREEK RD	10	4	3	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3894	029-CR-1009 -000	BRUSH CREEK RD	10	4	3	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3898	029-CR-1009 -000	BRUSH CREEK RD	10	0	3	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3857	029-CR-1322 -000	DUTCH CREEK RD	10	0	1	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3861	029-CR-1322 -000	DUTCH CREEK RD	10	4	3	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3862	029-CR-1322 -000	DUTCH CREEK RD	10	4	4	Install "One Lane Bridge" (W5-1) Sign.
3865	029-CR-1322 -000	DUTCH CREEK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3870	029-CR-1322 -000	DUTCH CREEK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3899	029-CR-1319 -000	GARRETT CREEK RD	10	0	2	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3901	029-CR-1319 -000	GARRETT CREEK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3903	029-CR-1319 -000	GARRETT CREEK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3904	029-CR-1319 -000	GARRETT CREEK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3882	029-CR-1329 -000	LEATHERWOOD RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3883	029-CR-1329 -000	LEATHERWOOD RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3884	029-CR-1329 -000	LEATHERWOOD RD	10	4	2	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.

Exhibit Cumberland-13: Bridge / Culvert Recommendations

Curve Recommendations (Cumberland County)

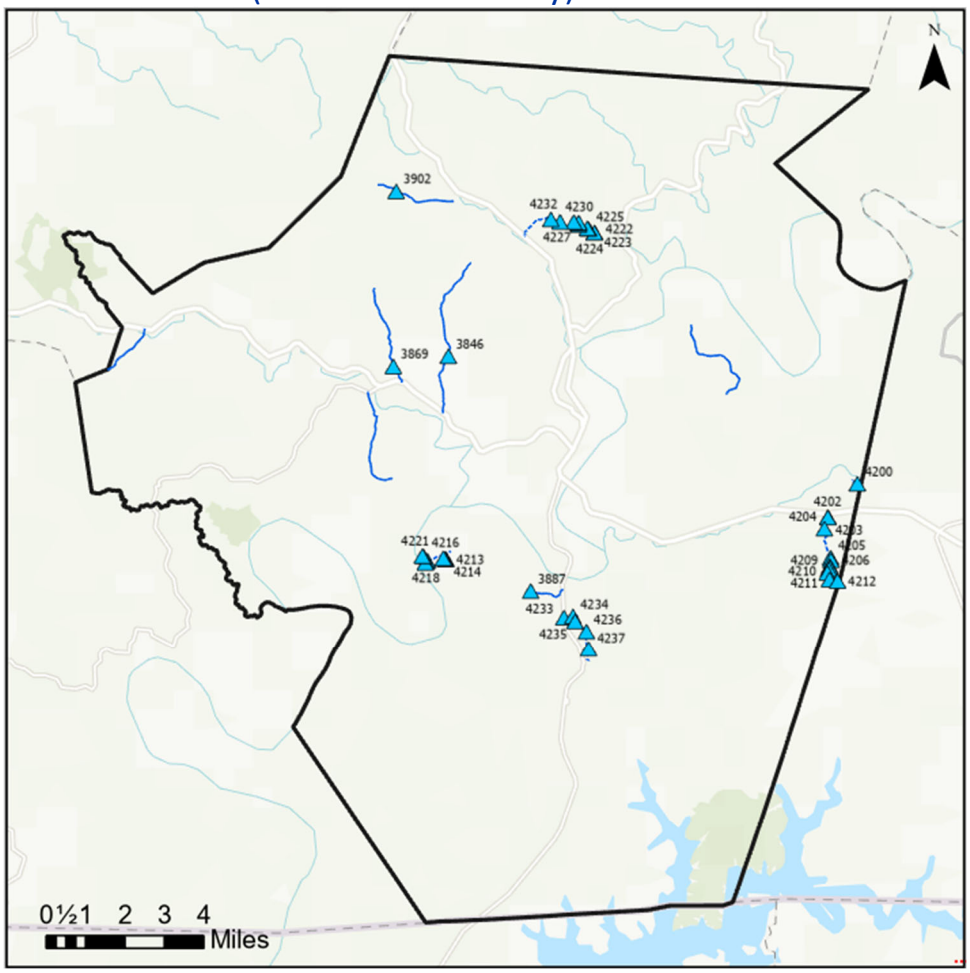


Exhibit Cumberland-14: Focus Road Curves

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations	Other
3846	029-CR-1304 -000	ALLENS CREEK RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3869	029-CR-1322 -000	DUTCH CREEK RD	vegetation,Other	Yes	Evaluate curve hazard; clear vegetation; install advance warning signs.	Culvert blocked
3887	029-CR-1204 -000	COLD SPRINGS RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3902	029-CR-1319 -000	GARRETT CREEK RD	Other	Yes	Evaluate curve hazard	Ditch/tree
4200	029-CR-1013 -000	SEMINARY CHURCH RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
4202	029-CR-1112 -000	PALESTINE RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	
4203	029-CR-1112 -000	PALESTINE RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
4204	029-CR-1112 -000	PALESTINE RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
4205	029-CR-1112 -000	PALESTINE RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	
4206	029-CR-1112 -000	PALESTINE RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
4207	029-CR-1112 -000	PALESTINE RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	
4208	029-CR-1112 -000	PALESTINE RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	
4209	029-CR-1112 -000	PALESTINE RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	
4210	029-CR-1112 -000	PALESTINE RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	
4211	029-CR-1112 -000	PALESTINE RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	
4212	029-CR-1112 -000	PALESTINE RD	Curve Obscured,vegetation	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation	
4213	029-CR-1712 -000	MEADOWS OF THE CUMBERLAND	vegetation,Curve Obscured	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation	
4214	029-CR-1712 -000	MEADOWS OF THE CUMBERLAND	vegetation,Curve Obscured	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation	
4215	029-CR-1712 -000	MEADOWS OF THE CUMBERLAND	Curve Obscured	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation	
4216	029-CR-1712 -000	MEADOWS OF THE CUMBERLAND	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	
4217	029-CR-1712 -000	MEADOWS OF THE CUMBERLAND	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
4218	029-CR-1712 -000	MEADOWS OF THE CUMBERLAND	vegetation,Curve Obscured	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation	
4219	029-CR-1712 -000	MEADOWS OF THE CUMBERLAND	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	
4220	029-CR-1712 -000	MEADOWS OF THE CUMBERLAND	Curve Obscured,vegetation	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation	
4221	029-CR-1712 -000	MEADOWS OF THE CUMBERLAND	Curve Obscured,vegetation	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation	
4222	029-CR-1028 -000	JONES RIDGE RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
4223	029-CR-1028 -000	JONES RIDGE RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
4224	029-CR-1028 -000	JONES RIDGE RD	Curve Obscured,vegetation	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation	
4225	029-CR-1028 -000	JONES RIDGE RD	Curve Obscured,vegetation	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation	
4226	029-CR-1028 -000	JONES RIDGE RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	
4227	029-CR-1028 -000	JONES RIDGE RD	Curve Obscured	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation	
4228	029-CR-1028 -000	JONES RIDGE RD	Curve Obscured	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation	
4229	029-CR-1028 -000	JONES RIDGE RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	
4230	029-CR-1028 -000	JONES RIDGE RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	
4231	029-CR-1028 -000	JONES RIDGE RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	
4232	029-CR-1028 -000	JONES RIDGE RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	
4233	029-CR-1157 -000	JOE SCOTT RD	Curve Obscured,vegetation	No	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation	
4234	029-CR-1157 -000	JOE SCOTT RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	
4235	029-CR-1157 -000	JOE SCOTT RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
4236	029-CR-1157 -000	JOE SCOTT RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	
4237	029-CR-1157 -000	JOE SCOTT RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	

Exhibit Cumberland-15: Curve Recommendations

Roadside Drop Off Recommendations (Cumberland County)

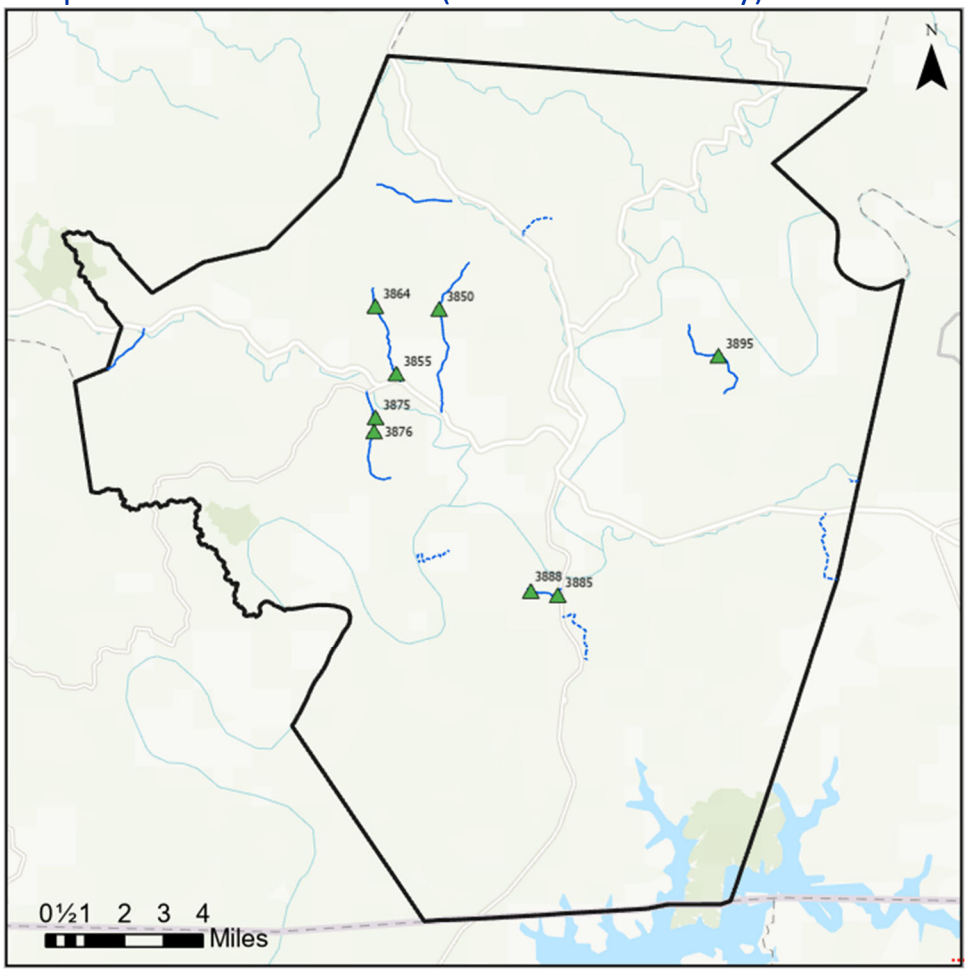


Exhibit Cumberland-16: Roadside Drop Off Locations

Point ID	RT_UNIQUE	RD_NAME	Drop Off Offset	Drop Off Height	Recommendations
3850	029-CR-1304 -000	ALLENS CREEK RD	1-3	5-10	Install Type 2 Object Marker(s) or Delineator(s)
3855	029-CR-1322 -000	DUTCH CREEK RD	0-1	2-5	Install Type 2 Object Marker(s) or Delineator(s)
3864	029-CR-1322 -000	DUTCH CREEK RD	0-1	5-10	Install Type 2 Object Marker(s) or Delineator(s)
3875	029-CR-1347 -000	BEECH GROVE RD	0-1	2-5	Install Type 2 Object Marker(s) or Delineator(s)
3876	029-CR-1347 -000	BEECH GROVE RD	0-1	2-5	Install Type 2 Object Marker(s) or Delineator(s)
3885	029-CR-1204 -000	COLD SPRINGS RD	0-1	2-5	Install Type 2 Object Marker(s) or Delineator(s)
3888	029-CR-1204 -000	COLD SPRINGS RD	0-1	2-5	Install Type 2 Object Marker(s) or Delineator(s)
3895	029-CR-1009 -000	BRUSH CREEK RD	0-1	2-5	Install Type 2 Object Marker(s) or Delineator(s)

Exhibit Cumberland-17: Roadside Drop Off Recommendations

Fixed Object Recommendations (Cumberland County)

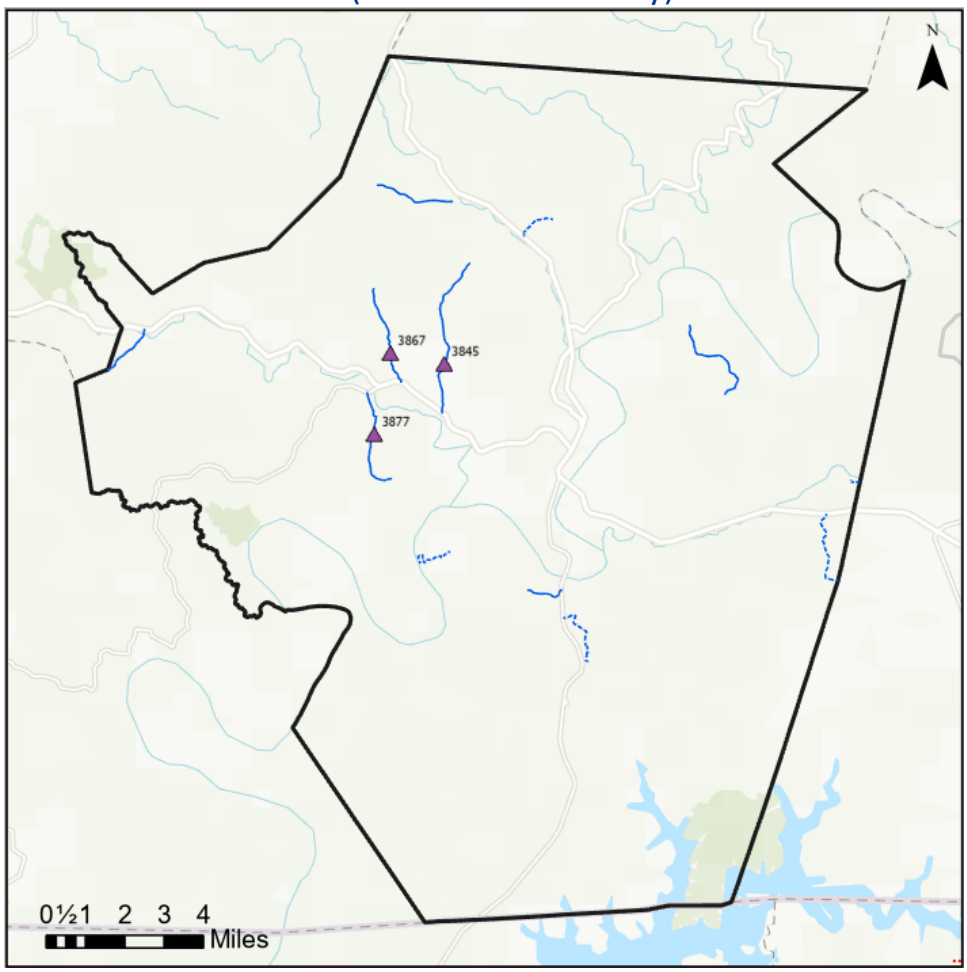


Exhibit Cumberland-18: Fixed Object Locations

Point ID	RT_UNIQUE	RD_NAME	Object	Single / Series	Offset	Recommendations
3845	029-CR-1304 -000	ALLENS CREEK RD	Utility Pole	Single	1-3	Install Type 2 Object Marker(s)
3877	029-CR-1347 -000	BEECH GROVE RD	Tree	Series	1-3	Remove trees within 3 ft of roadway
3867	029-CR-1322 -000	DUTCH CREEK RD	Tree	Single	1-3	Remove

Exhibit Cumberland-19: Fixed Object Recommendations

Intersection Recommendations (Cumberland County)

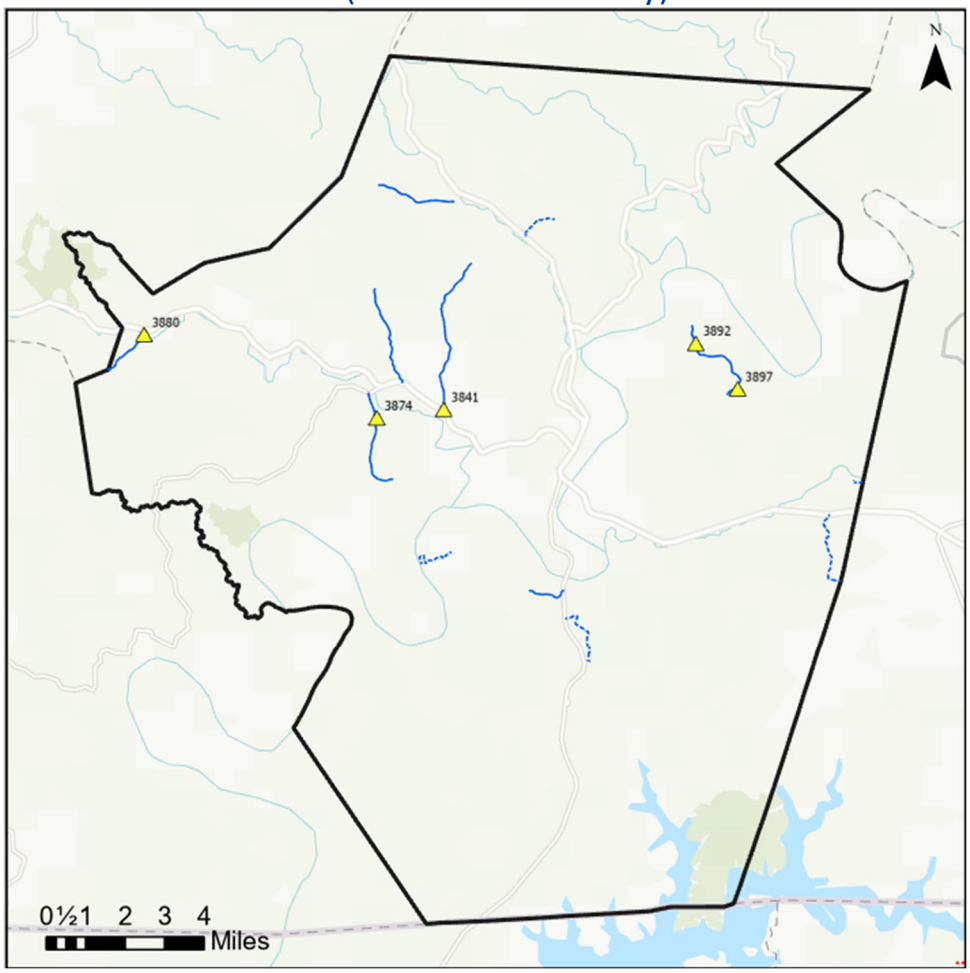


Exhibit Cumberland-20: Intersection Locations

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
3841	029-CR-1304 -000	ALLENS CREEK RD	Insufficient Sight Distance at ,Intersection Skew	No	Evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X); Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection skew
3874	029-CR-1347 -000	BEECH GROVE RD	Insufficient Sight Distance at ,Intersection Skew	Yes	Clear vegetation and evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X); Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection skew
3880	029-CR-1329 -000	LEATHERWOOD RD	Intersection Skew,Other	Yes	Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection skew;evaluate sight distance ; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)
3892	029-CR-1009 -000	BRUSH CREEK RD	Intersection Skew	No	Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection skew
3897	029-CR-1009 -000	BRUSH CREEK RD	Intersection Skew	No	Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection skew

Exhibit Cumberland-21: Intersection Recommendations

Other Recommendations (Cumberland County)

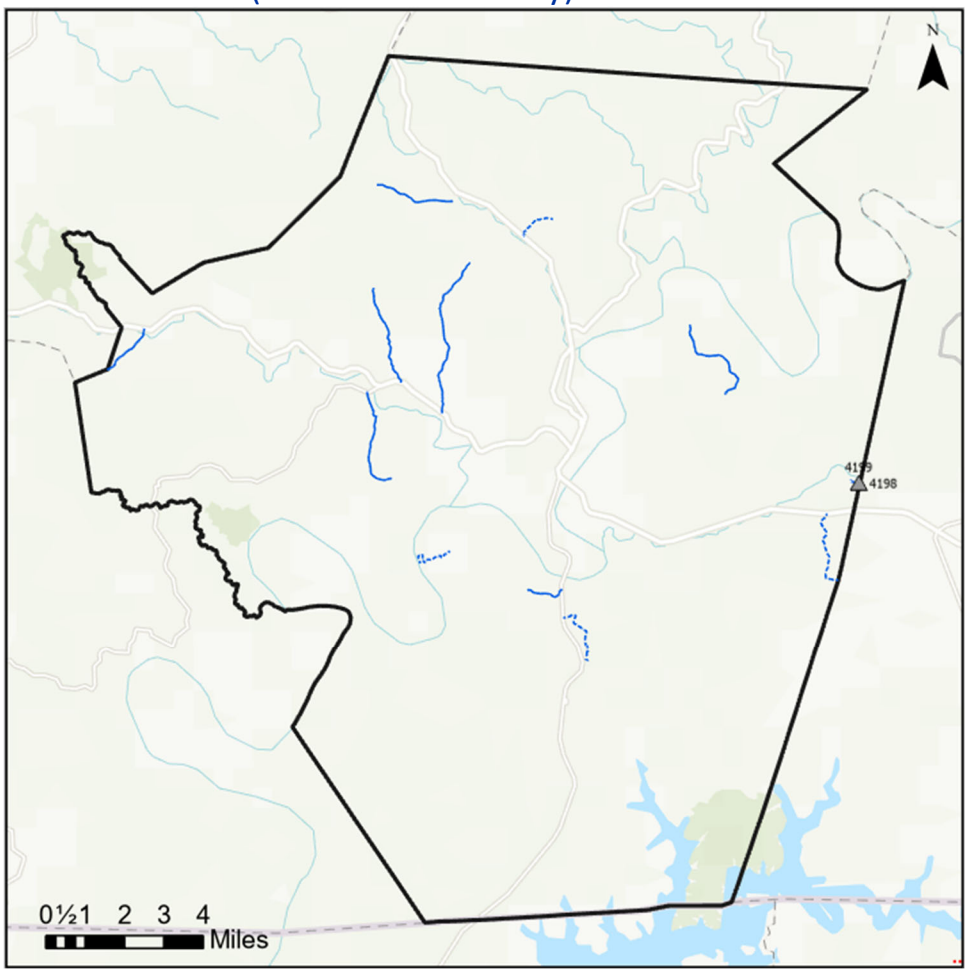


Exhibit Cumberland-22: Other Locations

Point ID	RT_UNIQUE	RD_NAME	Recommendations	Other
4198	029-CR-1013 -000	SEMINARY CHURCH RD	evaluate need for guadrail and/or slope correction	Slope and Drainage issue.
4199	029-CR-1013 -000	SEMINARY CHURCH RD	evaluate need for guadrail and/or slope correction	Slope and visual hazard

Exhibit Cumberland-23: Other Recommendations

APPENDX H: GREEN COUNTY SAFETY ACTION PLAN

GREEN COUNTY OVERVIEW

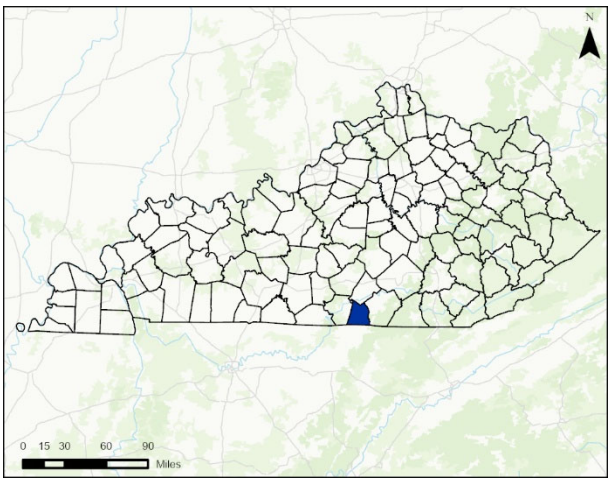


Exhibit Green-1: Location Map

Key Information Table Green County	
Population	11,468
Population in Persistent Poverty	24%
Underserved Community	**No**
Fatalities (All Roads)	18
Fatalities (County Roads)	2
Fatality Rate per 100,000 persons	**156.96**
County Road Mileage	366.5
State Road Mileage	176.2
Total Mileage	**542.7**

Exhibit Green-2: Key Information

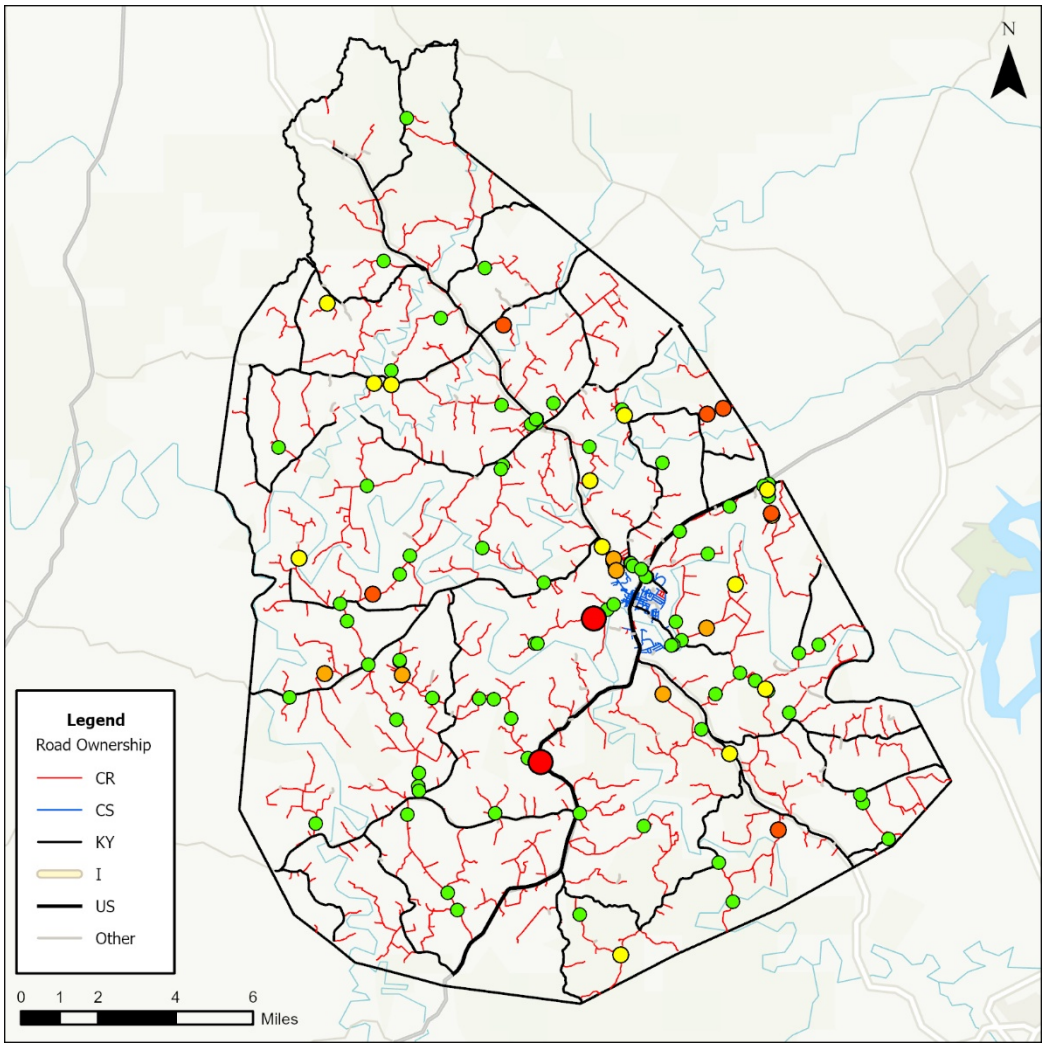


Exhibit Green-3: Map of County Roadways

Crash Analysis

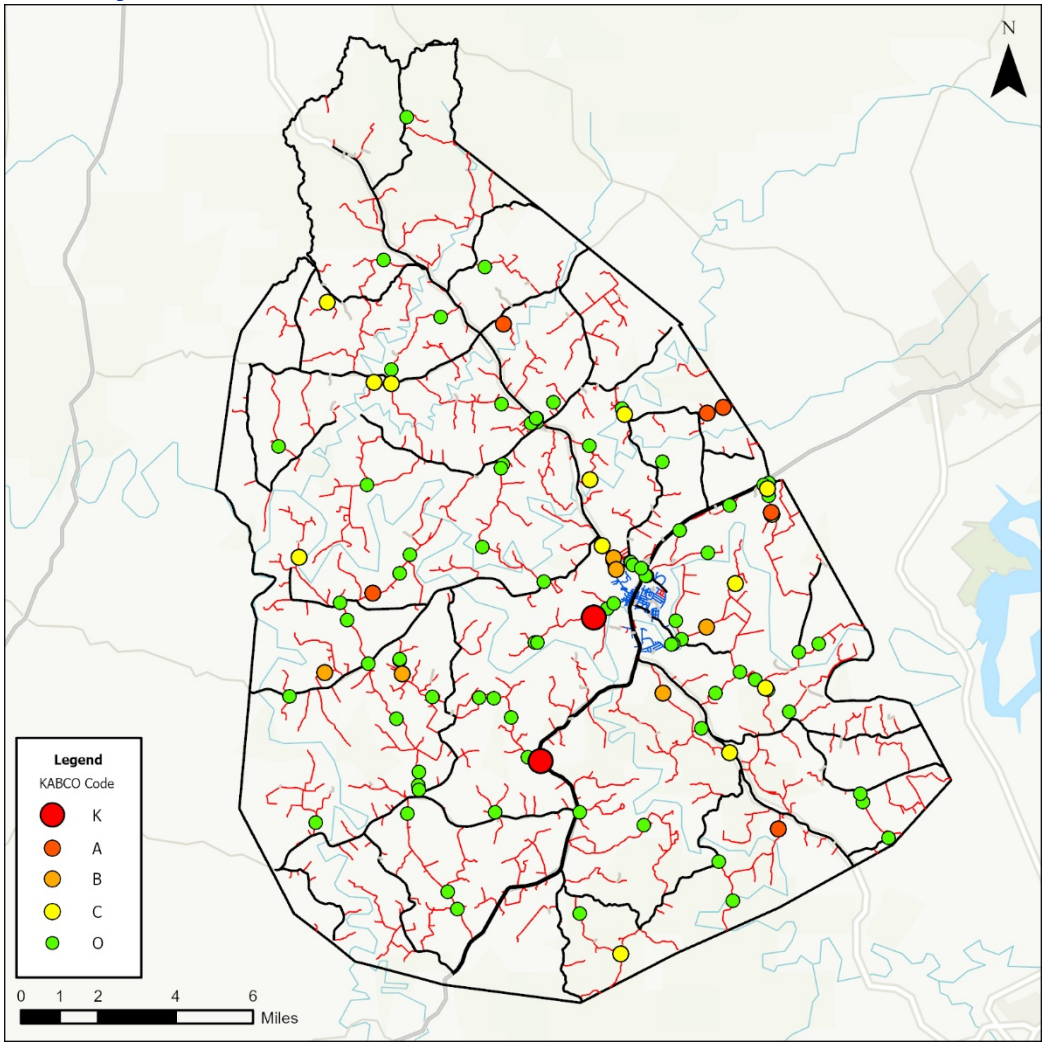
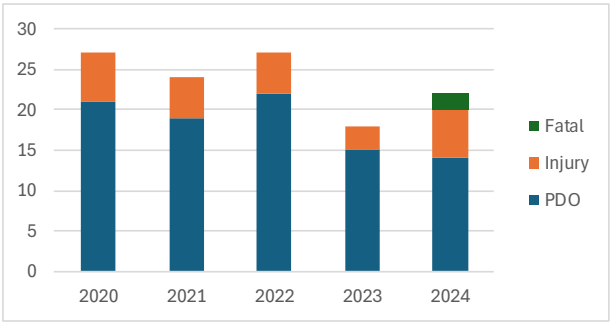


Exhibit Green-4: Map of County Road Crashes



Year	Property Damage Only	Injury	Fatal	Total
2020	21	6	0	**27**
2021	19	5	0	**24**
2022	22	5	0	**27**
2023	15	3	0	**18**
2024	14	6	2	**22**

Exhibit Green-5: Crash Distribution by Year

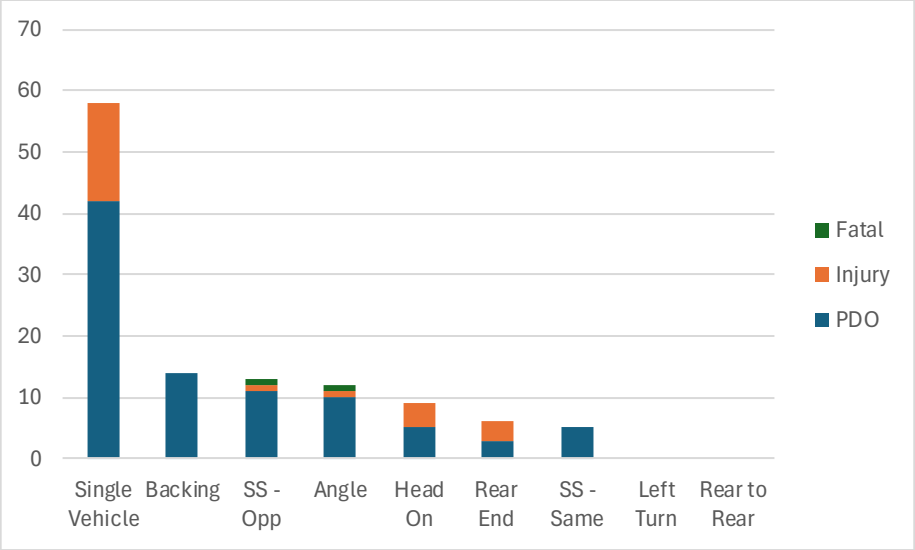


Exhibit Green-6: Crash Frequency and Severity by Manner of Collision

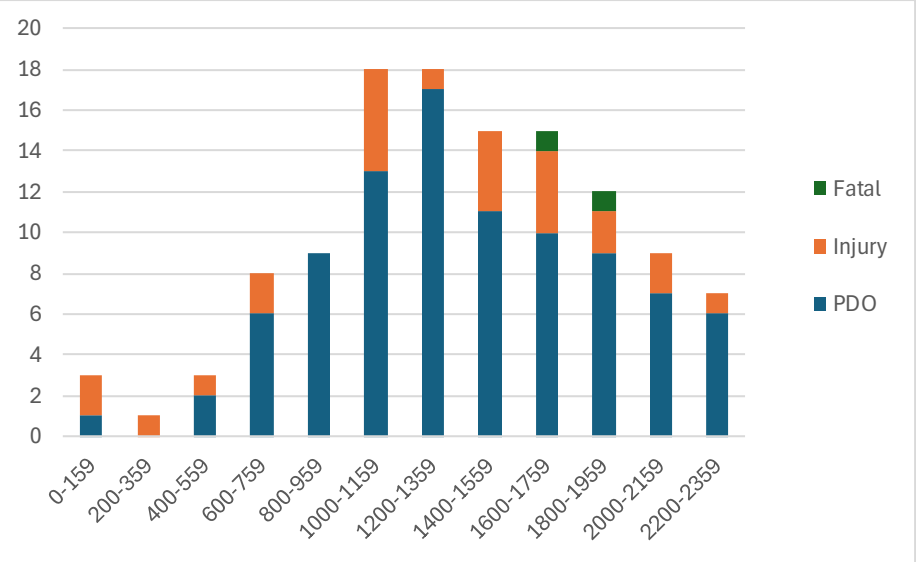


Figure Green-7: Crashes and Severity by Time of Day

Focus Roadways

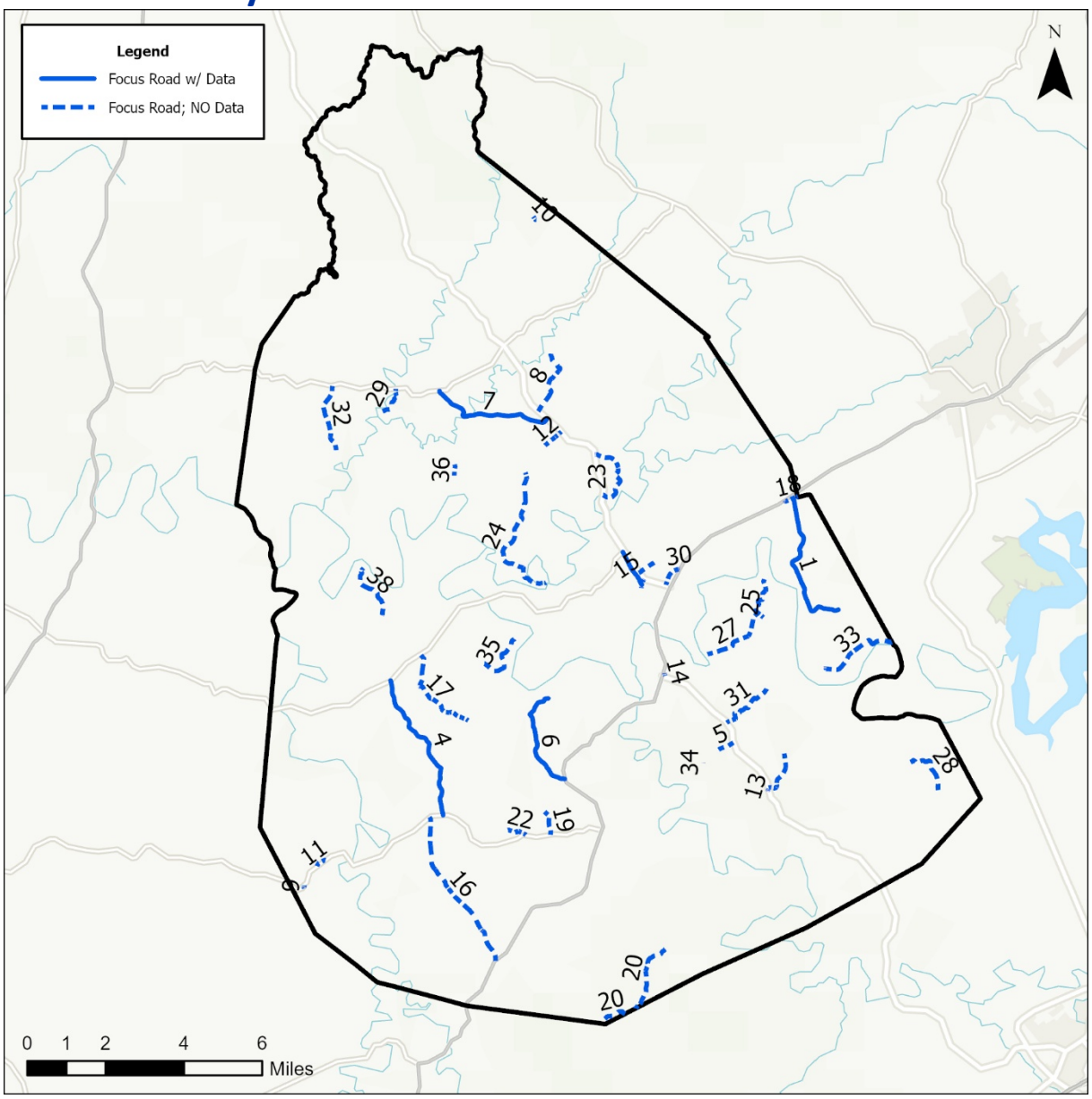


Exhibit Green-8: Focus Roads

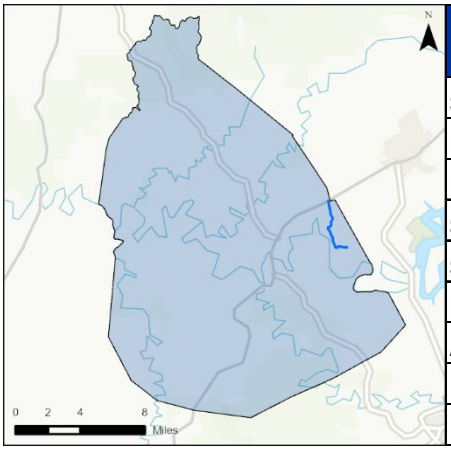
RT_UNIQUE	Length	County	Road Name	Injury Crashes	Fatal Crashes	PDO	CrashScore	UseScore	Rank	Focus Roads	Data Points	Roadway Data
Green County												
044-CR-1019 -000	**3.9**	**Green**	**WHITEWOOD RD**	**1**	**2**	**2**	**3.33**	**2.35**	**1**	**1**	**7**	**1**
044-CR-1531 -000	0.2	Green	OLD HODGENVILLE RD	0	0	0	0.00	5.00	2	1	0	0
044-CR-1715 -000	**1.0**	**Green**	**HAPPYVILLE RD**	**0**	**1**	**4**	**1.42**	**2.50**	**3**	**1**	**2**	**1**
044-CR-1266 -000	**4.0**	**Green**	**PIERCE-DONANSBURG RD**	**0**	**2**	**6**	**2.72**	**0.96**	**4**	**1**	**9**	**1**
044-CR-1136 -000	0.4	Green	TEMPERANCE RD	0	0	1	0.06	2.64	5	1	0	0
044-CR-1207 -000	**2.8**	**Green**	**MOUNT LEBANON CHURCH RD**	**0**	**0**	**1**	**0.06**	**2.56**	**6**	**1**	**8**	**4**
044-CR-1314 -000	**3.2**	**Green**	**DOC WARD RD**	**0**	**0**	**0**	**0.00**	**2.56**	**7**	**1**	**12**	**4**
044-CR-1044 -000	1.8	Green	GRASSY FLAT RD	0	0	0	0.00	2.55	8	1	0	0
044-CR-1637 -000	0.1	Green	HUNTERS TRAIL RD	0	0	0	0.00	2.54	9	1	0	0
044-CR-1722 -000	0.1	Green	RONDAL BRADSHAW RD	0	0	0	0.00	2.51	10	1	0	0
044-CR-1248 -000	0.3	Green	WISDOM LOOP	0	0	0	0.00	2.50	11	1	0	0
044-CR-1086E -000	0.5	Green	WILLIAM E LOBB DR	0	0	2	0.12	2.12	12	1	0	0
044-CR-1255 -000	0.1	Green	OLD KY 487	0	0	0	0.00	2.19	13	1	0	0
044-CR-1377 -000	0.1	Green	OLD KY 61	0	0	0	0.00	2.14	14	1	0	0
044-CR-1008 -000	0.5	Green	EAST KENTUCKY REA RD	0	0	1	0.06	2.07	15	1	0	0
044-CR-1227 -000	4.2	Green	LILETOWN RD	0	0	3	0.19	1.82	16	1	0	0
044-CR-1285 -000	2.5	Green	GRAB RD	0	0	2	0.12	1.62	17	1	0	0
044-CR-1701 -000	0.4	Green	BLACK GNAT RD	0	0	0	0.00	1.70	18	1	0	0
044-CR-1208 -000	0.7	Green	INEZ PRUITT RD	0	0	0	0.00	1.67	19	1	0	0
044-CR-1150 -000	2.5	Green	HOWARD SCHOOL RD	0	1	0	1.17	0.50	20	1	0	0
044-CR-1170 -000	1.2	Green	PIKEVIEW RD	0	0	0	0.00	1.48	21	1	0	0
044-CR-1211 -000	0.5	Green	JOSIE PIERCE RD	0	0	0	0.00	1.48	22	1	0	0
044-CR-1052 -000	1.9	Green	HALL CEMETERY RD	0	1	1	1.23	0.21	23	1	0	0
044-CR-1001 -000	3.9	Green	MONTGOMERY MILL RD	0	0	3	0.19	1.21	24	1	0	0
044-CR-1519 -000	1.3	Green	COX BEND RD	0	1	0	1.17	0.18	25	1	0	0
044-CR-1816 -000	1.3	Green	SAND RDG RD	0	0	0	0.00	1.32	26	1	0	0
044-CR-1107 -000	1.8	Green	TAYLOR COX RD	1	0	0	0.86	0.46	27	1	0	0
044-CR-1018 -000	1.4	Green	WOODLAND TRL	0	0	0	0.00	1.30	28	1	0	0
044-CR-1318 -000	0.8	Green	BRUSH CREEK RD	0	1	0	1.17	0.06	29	1	0	0
044-CR-1706 -000	0.6	Green	BLUEBIRD LN	0	0	2	0.12	1.11	30	1	0	0
044-CR-1113 -000	1.5	Green	OLD SPRINGS RD	0	0	0	0.00	1.11	31	1	0	0
044-CR-1366 -000	1.8	Green	AETNA GROVE CHURCH RD	0	0	0	0.00	1.08	32	1	0	0
044-CR-1114 -000	2.1	Green	ROACHVILLE RD	0	0	2	0.12	0.94	33	1	0	0
044-CR-1518 -020	0.0	Green	D MONTGOMERY RD Y	0	0	0	0.00	1.05	34	1	0	0
044-CR-1292 -000	1.5	Green	SLINKER RD	0	0	0	0.00	0.98	35	1	0	0
044-CR-1307 -000	0.3	Green	CLARENCE WALKER RD	0	0	0	0.00	0.95	36	1	0	0
044-CR-1028 -000	0.7	Green	MAC-PITMAN RD	0	0	1	0.06	0.88	37	1	0	0
044-CR-1282 -000	1.6	Green	CHARLIE RHEA RD	1	0	0	0.86	0.07	38	1	0	0

Exhibit Green-9: List of Focus Roadways

Recommended Improvements (Top 5 Roads)

WHITEWOOD RD (044-CR-1019 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	1	2	0	**3**
Head On	0	1	0	**1**
Left Turn	0	0	0	**0**
SS - Same	0	0	0	**0**
SS - Opp	0	0	0	**0**
Backing	0	0	0	**0**
Angle	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

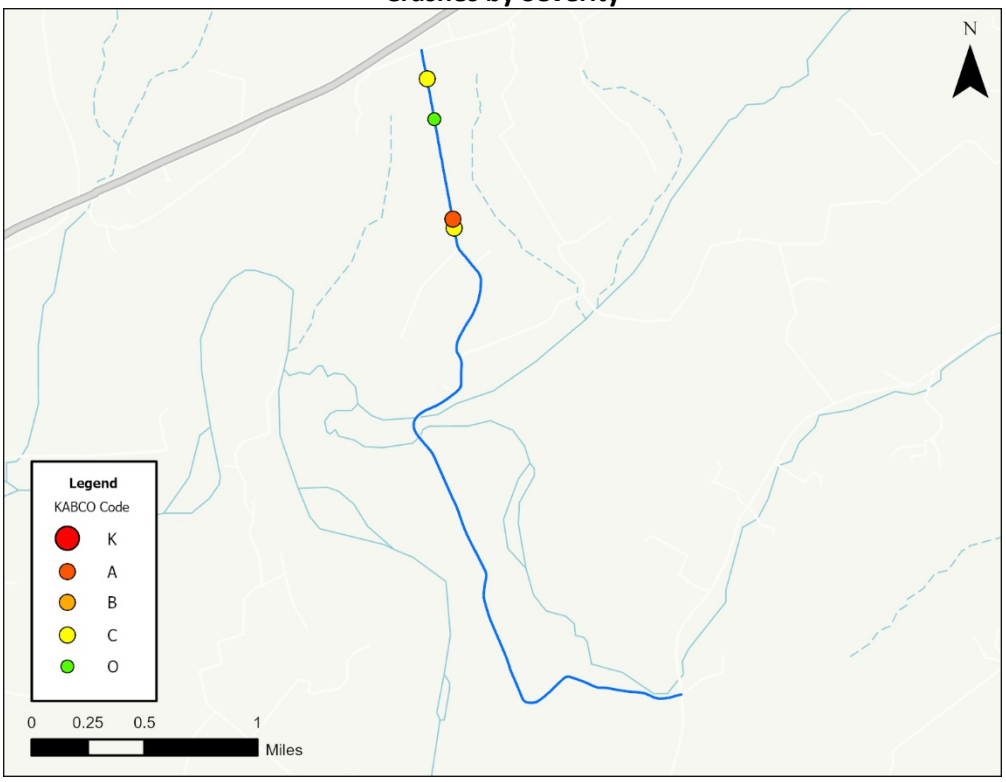
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4104	044-CR-1019 -000	WHITEWOOD RD	10	4	1	0-20		✓	✓

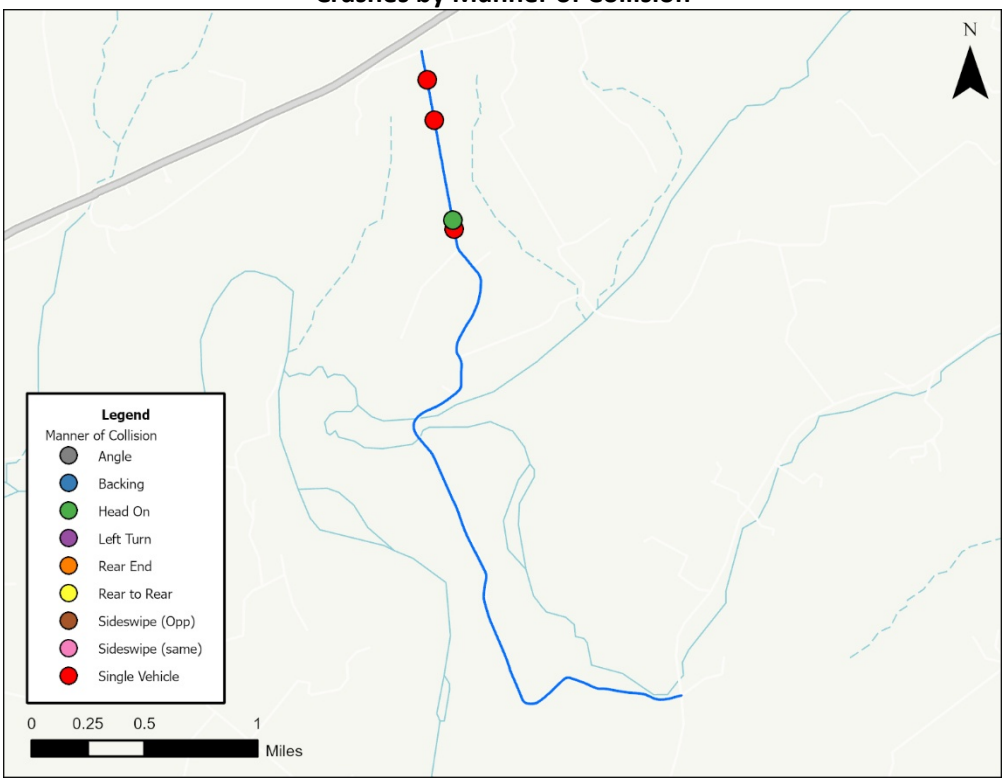
Roadway Typical Section



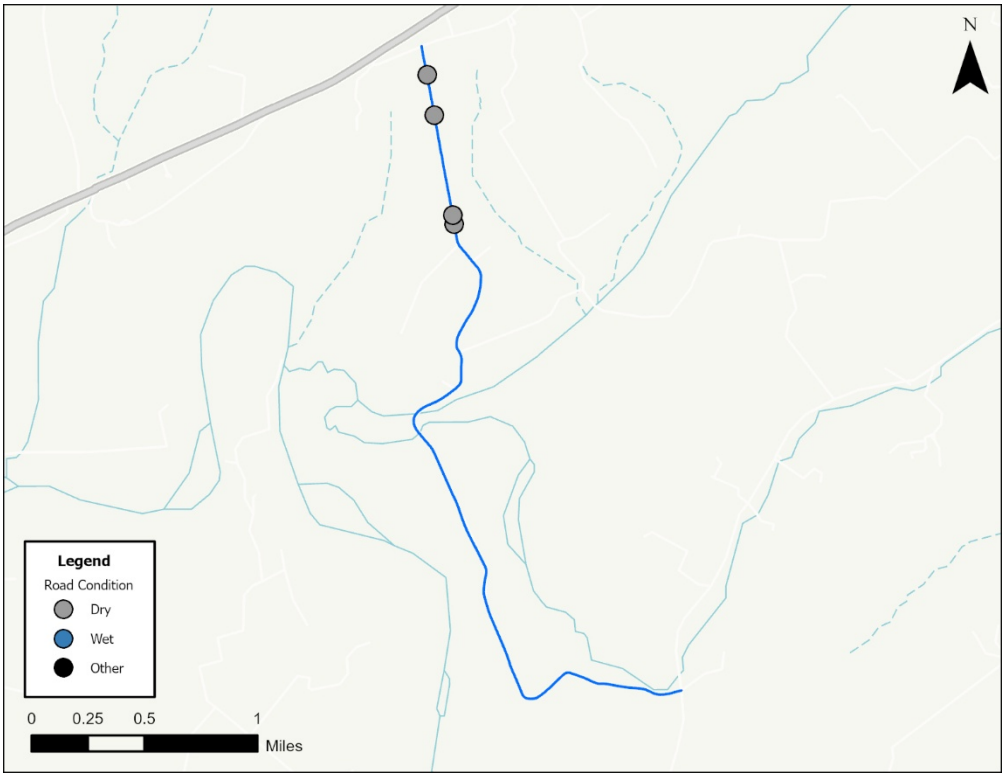
Crashes by Severity



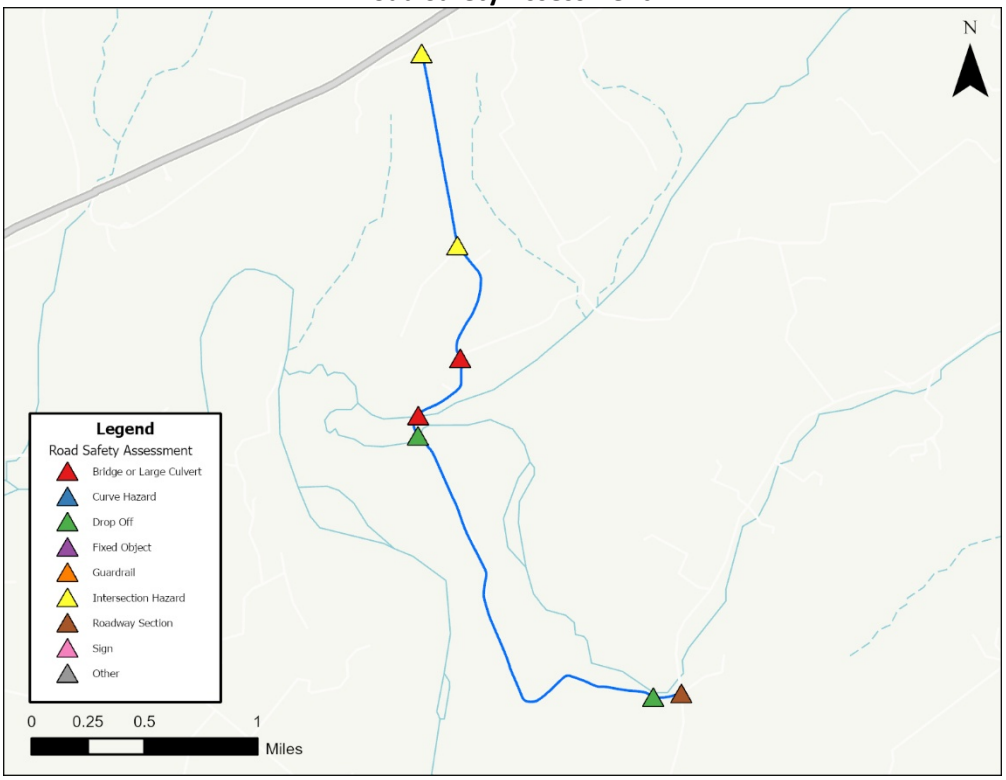
Crashes by Manner of Collision



Road Conditions



Road Safety Assessment



General Recommendations

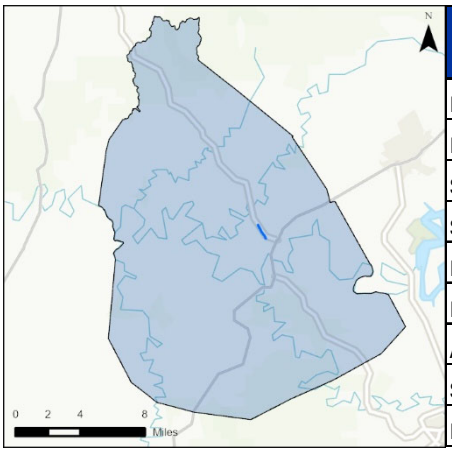
Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
4100	044-CR-1019 -000	WHITEWOOD RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4101	044-CR-1019 -000	WHITEWOOD RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.

Point ID	RT_UNIQUE	RD_NAME	Drop Off Offset	Drop Off Height	Recommendations
4102	044-CR-1019 -000	WHITEWOOD RD	1-3	>10	Evaluate roadway width, curvature and grade at drop off compared to Other locations in county to evaluate need for guardrail
4103	044-CR-1019 -000	WHITEWOOD RD	1-3	>10	Evaluate roadway width, curvature and grade at drop off compared to Other locations in county to evaluate need for guardrail

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
4098	044-CR-1019 -000	WHITEWOOD RD	Intersection Skew,Intersection Obscured on Approa	No	Evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X); Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection skew
4099	044-CR-1019 -000	WHITEWOOD RD	Intersection Obscured on Approa,Intersection Skew	No	Evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X); Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection skew

HAPPYVILLE RD (044-CR-1715 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Backing	2	0	0	**2**
Rear End	1	1	0	**2**
Single Vehicle	1	0	0	**1**
SS - Opp	0	0	0	**0**
Head On	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Angle	0	0	0	**0**
SS - Same	0	0	0	**0**
Left Turn	0	0	0	**0**

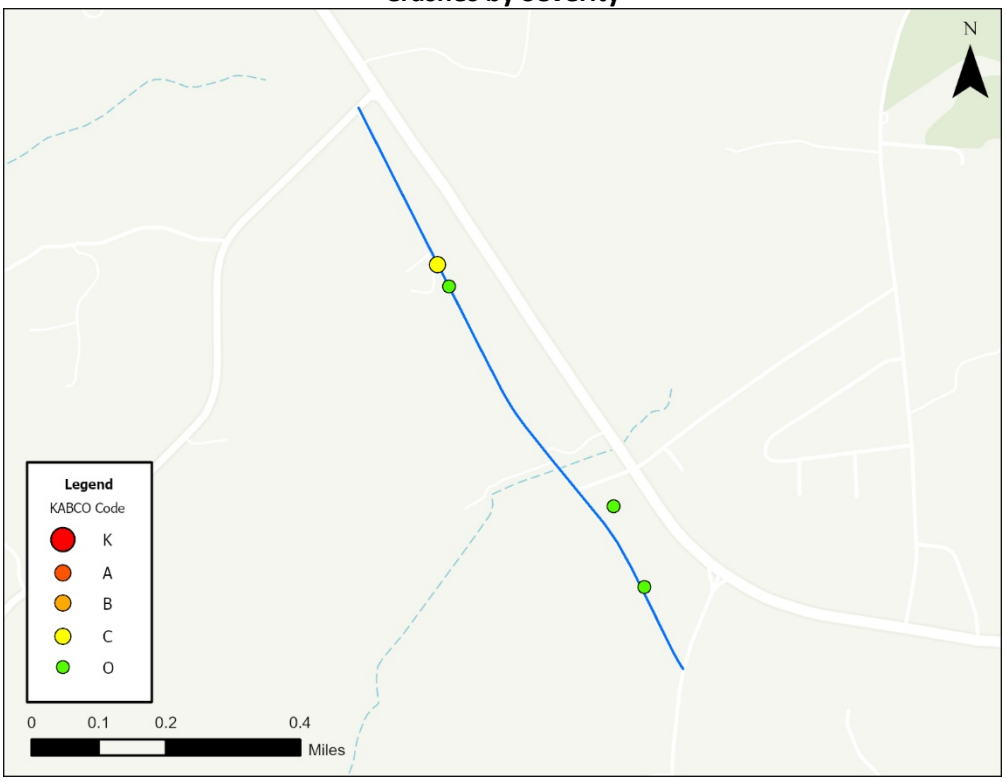
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4097	044-CR-1715 -000	HAPPYVILLE RD	10	4	1	0-20		✓	✓

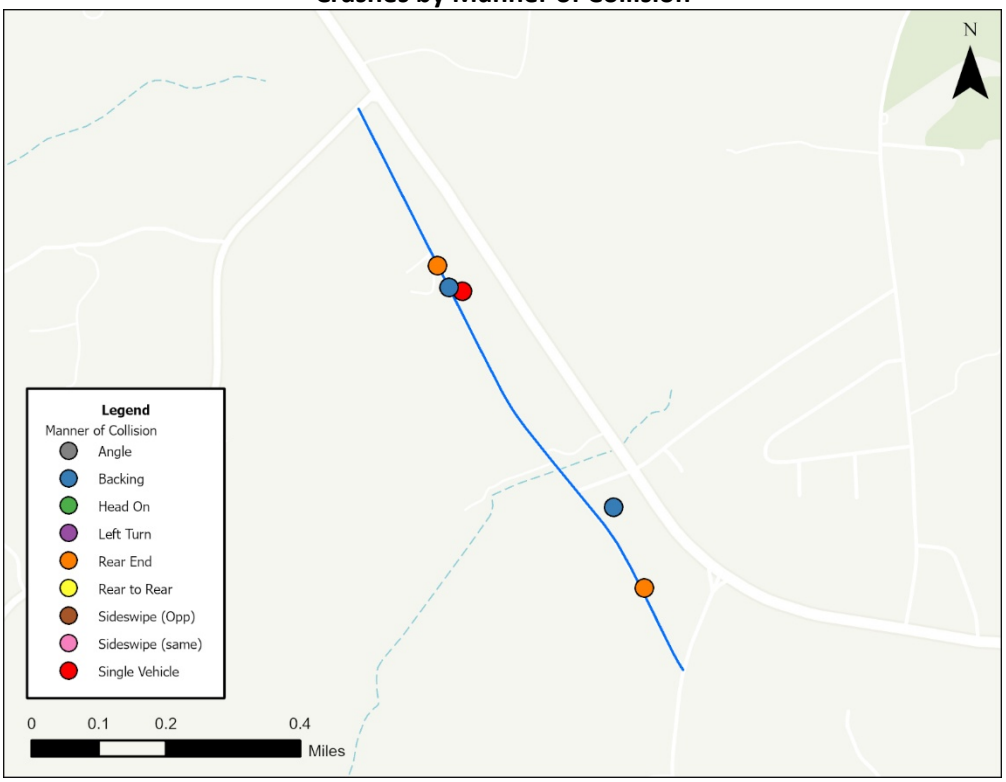
Roadway Typical Section



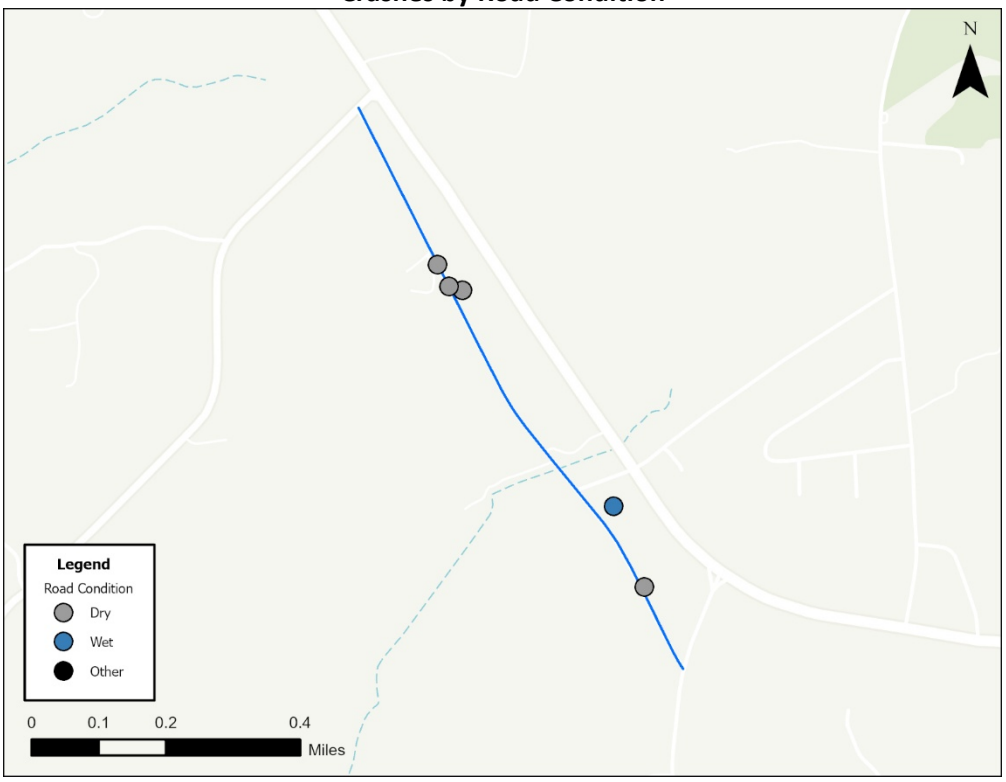
Crashes by Severity



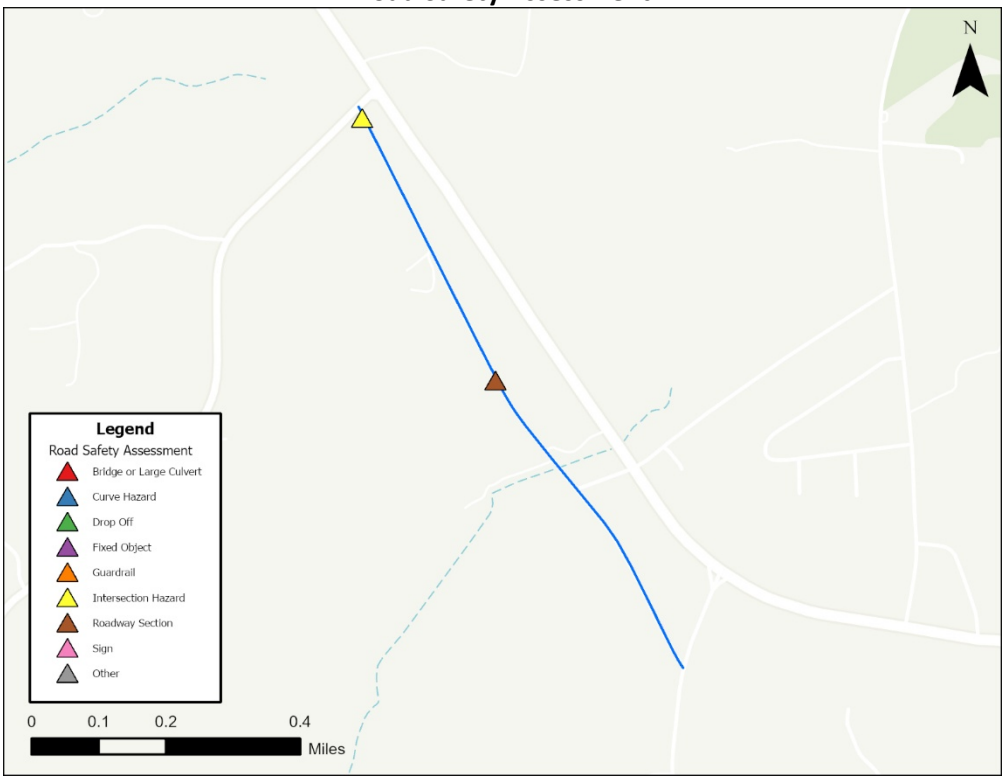
Crashes by Manner of Collision



Crashes by Road Condition



Road Safety Assessment

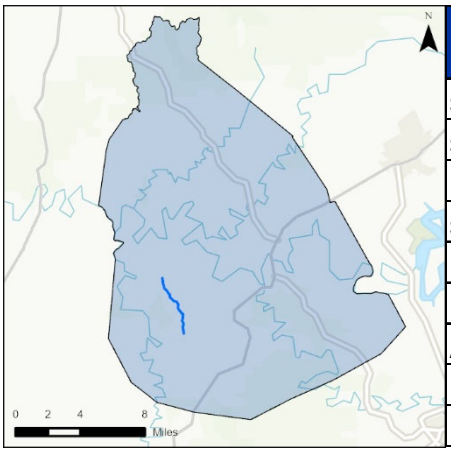


General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
4096	044-CR-1715 -000	HAPPYVILLE RD	Intersection Obscured on Approa	No	Evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)

PIERCE-DONANSBURG RD (044-CR-1266 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
SS - Opp	3	0	0	**3**
Single Vehicle	1	0	0	**1**
Left Turn	0	0	0	**0**
SS - Same	0	0	0	**0**
Head On	0	0	0	**0**
Backing	0	0	0	**0**
Angle	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

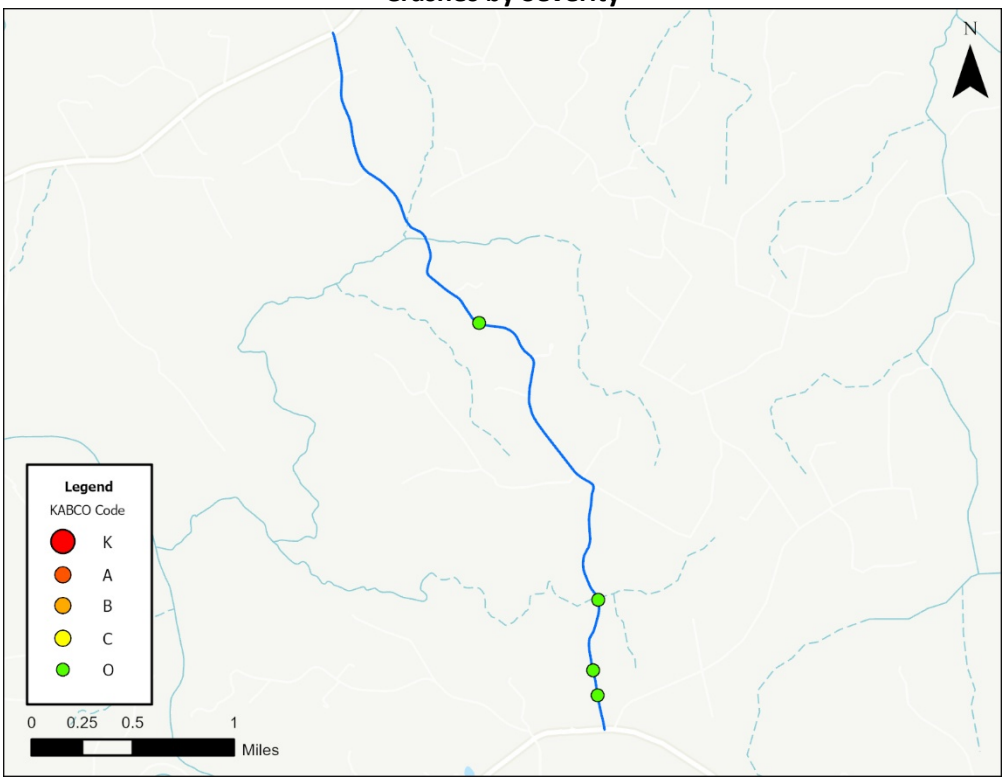
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4113	044-CR-1266 -000	PIERCE-DONANSBURG RD	10	4	1	0-20		✓	✓

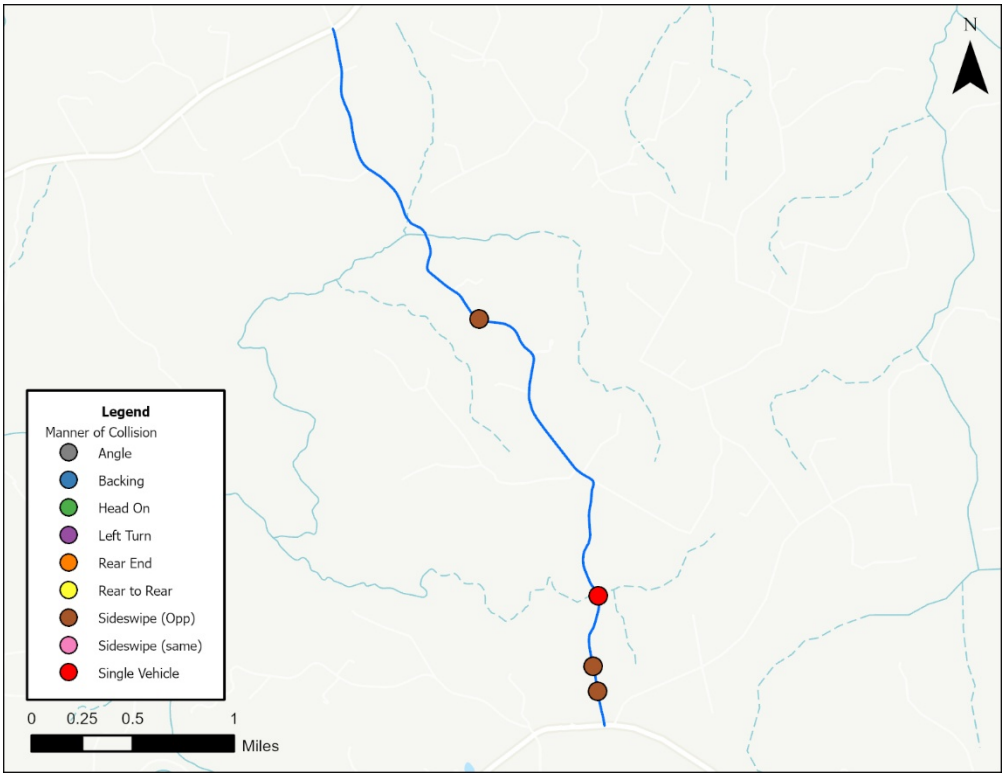
Roadway Typical Section



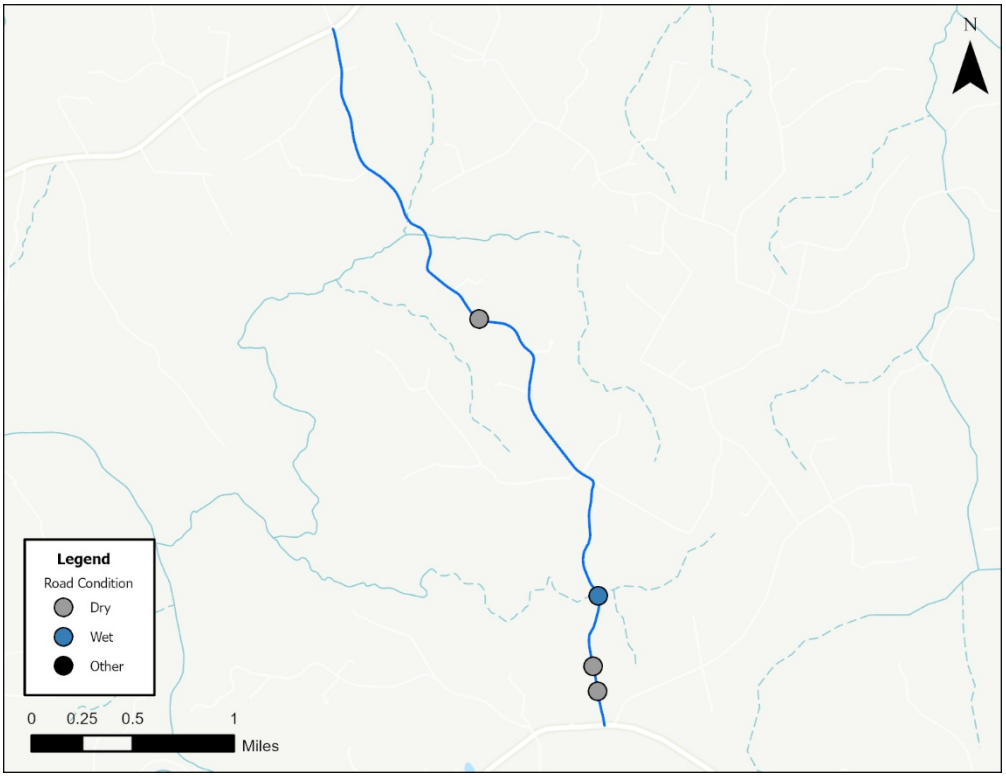
Crashes by Severity



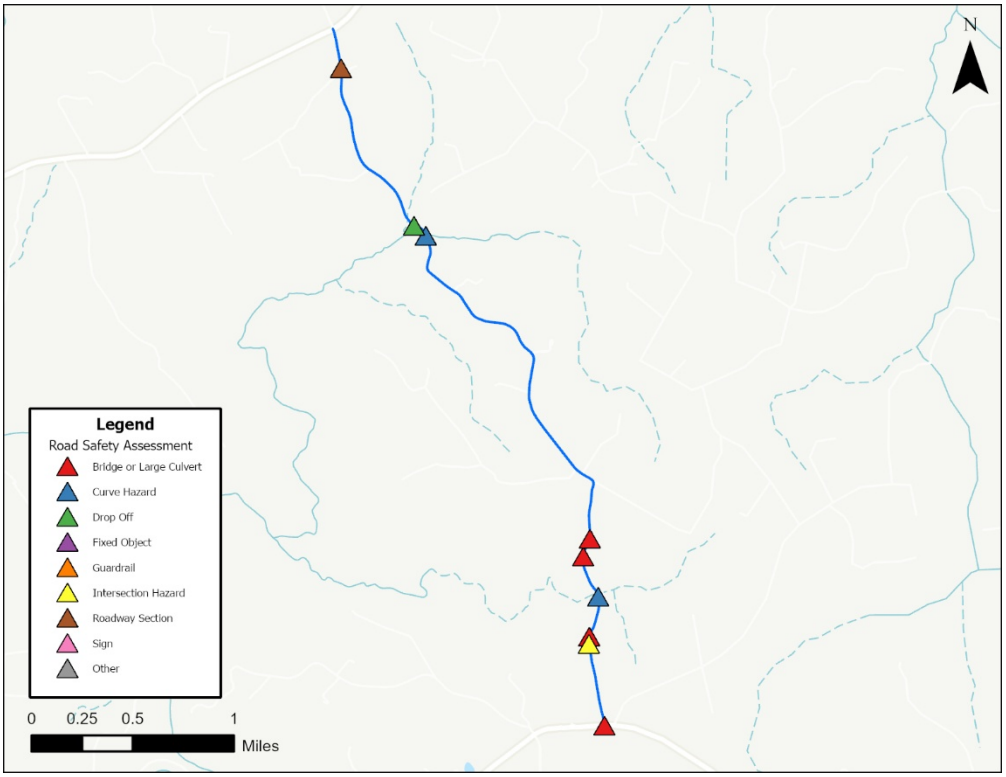
Manner of Collision



Road Condition



Road Safety Assessment



General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
4105	044-CR-1266 -000	PIERCE-DONANSBURG RD	10	0	1	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4107	044-CR-1266 -000	PIERCE-DONANSBURG RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4109	044-CR-1266 -000	PIERCE-DONANSBURG RD	10	0	1	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4110	044-CR-1266 -000	PIERCE-DONANSBURG RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.

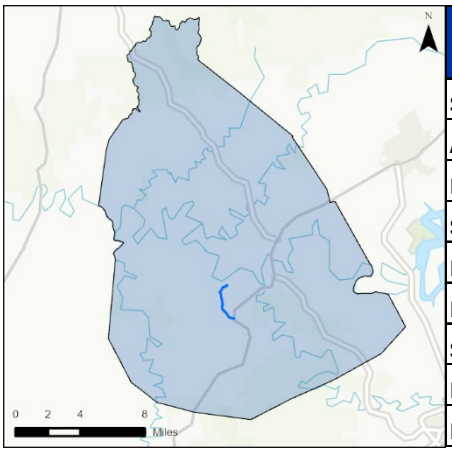
Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
4108	044-CR-1266 -000	PIERCE-DONANSBURG RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
4111	044-CR-1266 -000	PIERCE-DONANSBURG RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation

Point ID	RT_UNIQUE	RD_NAME	Drop Off Offset	Drop Off Height	Recommendations
4112	044-CR-1266 -000	PIERCE-DONANSBURG RD	0-1	>10	Evaluate roadway width, curvature and grade at drop off compared to Other locations in county to evaluate need for guardrail

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
4106	044-CR-1266 -000	PIERCE-DONANSBURG RD	Intersection Obscured on Approa	No	Evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)

MOUNT LEBANON CHURCH RD (044-CR-1207 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	2	0	0	**2**
Angle	0	0	1	**1**
Left Turn	0	0	0	**0**
SS - Opp	0	0	0	**0**
Head On	0	0	0	**0**
Backing	0	0	0	**0**
SS - Same	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

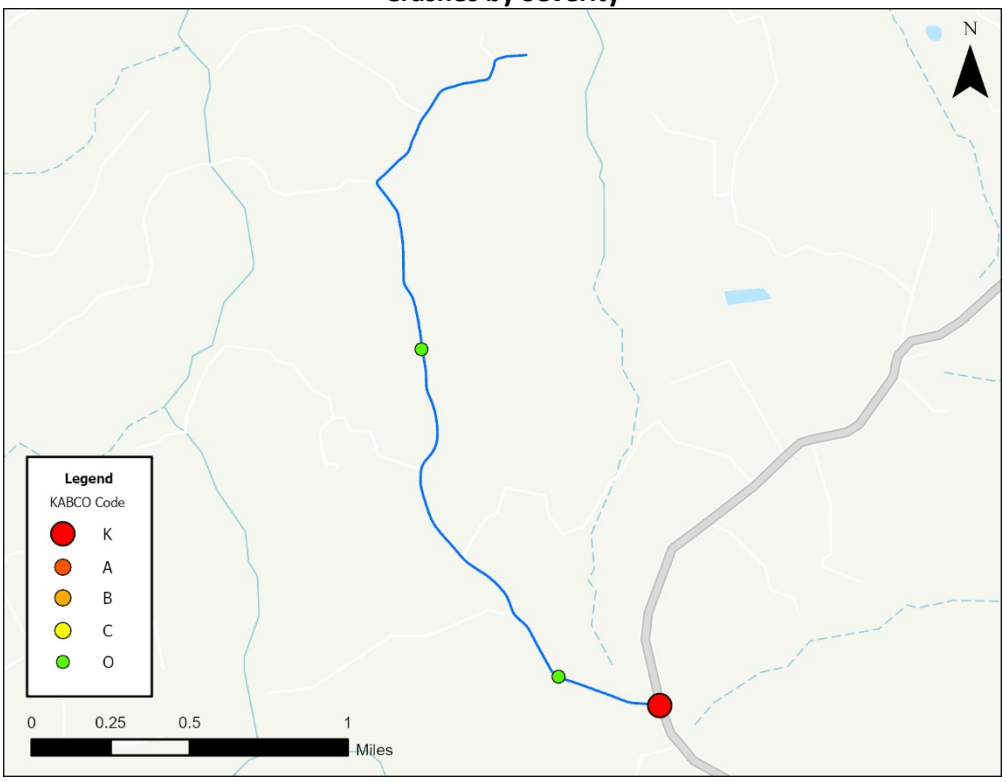
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4116	044-CR-1207 -000	MOUNT LEBANON CHURCH RD	10	3	1	20-40	✓	✓	✓
4119	044-CR-1207 -000	MOUNT LEBANON CHURCH RD	10	3	2	60-80	✓	✓	✓
4120	044-CR-1207 -000	MOUNT LEBANON CHURCH RD	10	3	1	0-20		✓	✓
4121	044-CR-1207 -000	MOUNT LEBANON CHURCH RD	10	4	1	0-20		✓	✓

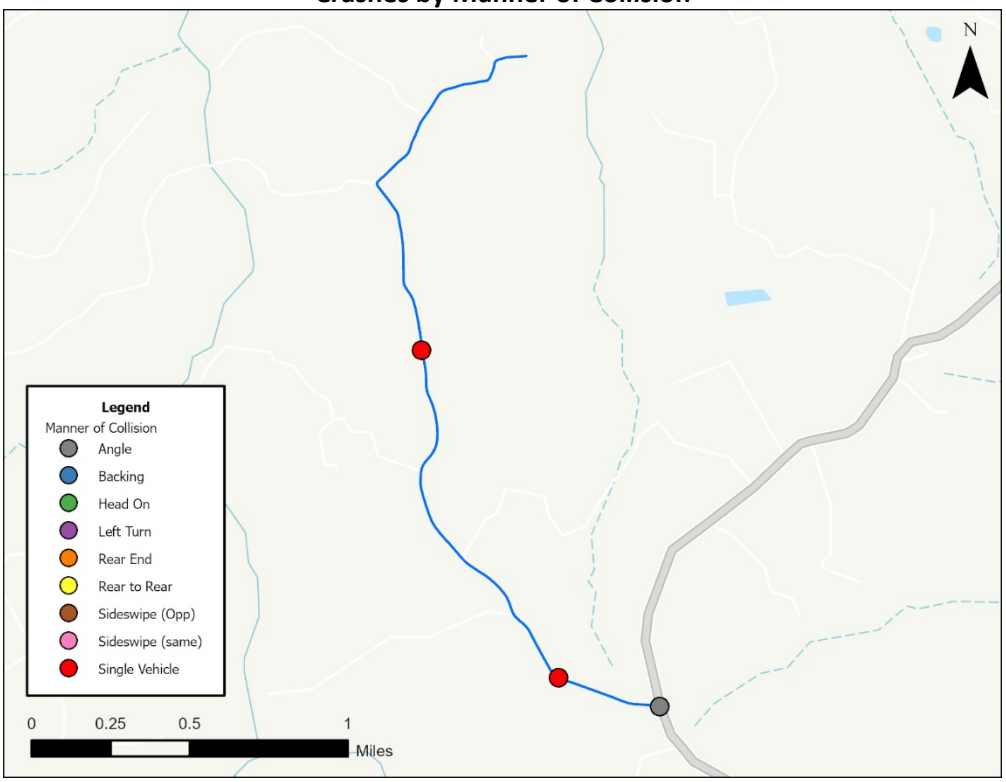
Roadway Typical Section



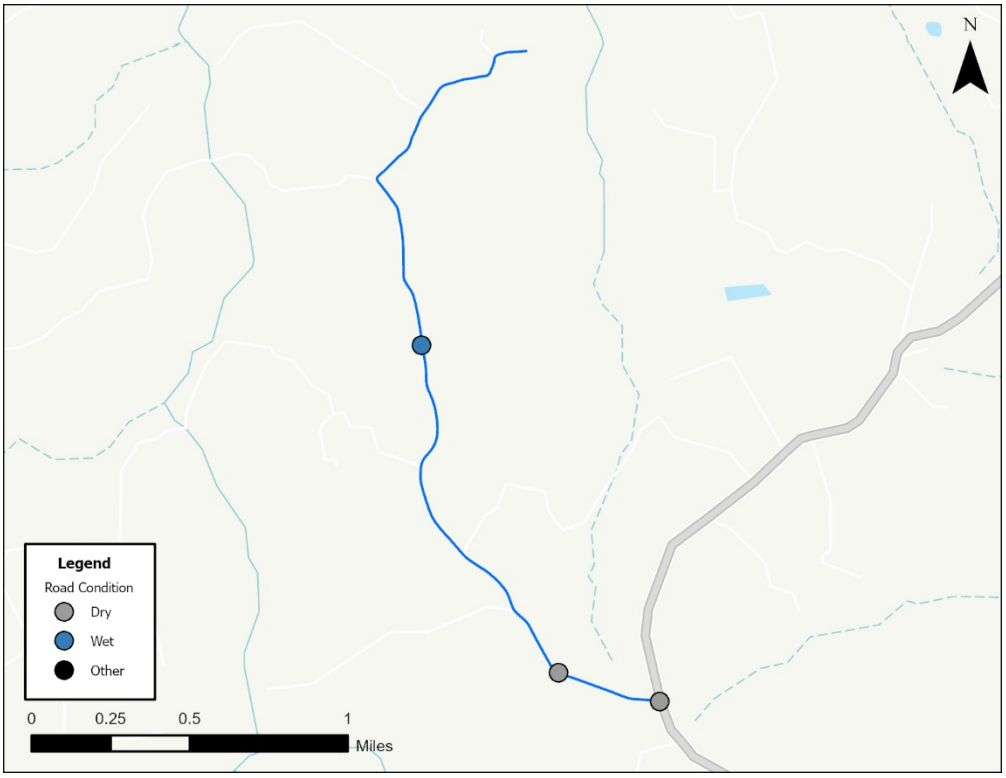
Crashes by Severity



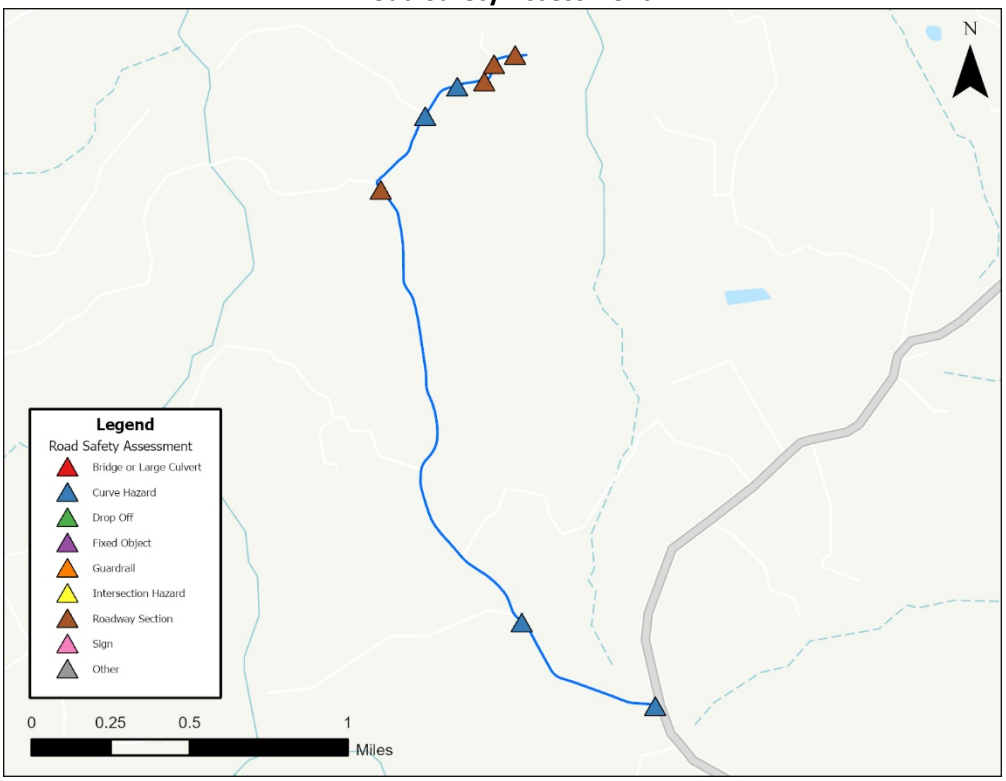
Crashes by Manner of Collision



Road Conditions



Road Safety Assessment

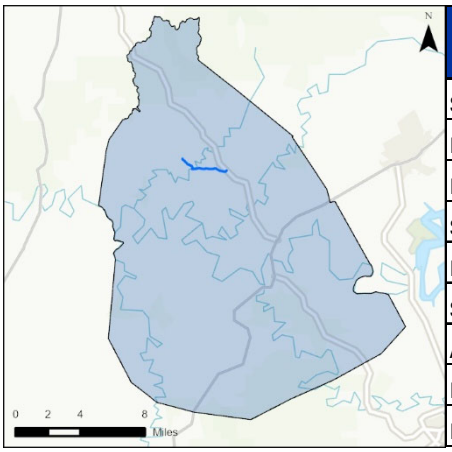


General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
4114	044-CR-1207 -000	MOUNT LEBANON CHURCH RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
4115	044-CR-1207 -000	MOUNT LEBANON CHURCH RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
4117	044-CR-1207 -000	MOUNT LEBANON CHURCH RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
4118	044-CR-1207 -000	MOUNT LEBANON CHURCH RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation

DOC WARD RD (044-CR-1314 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
SS - Same	1	0	0	**1**
Left Turn	0	0	0	**0**
Backing	0	0	0	**0**
SS - Opp	0	0	0	**0**
Head On	0	0	0	**0**
Single Vehicle	0	0	0	**0**
Angle	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

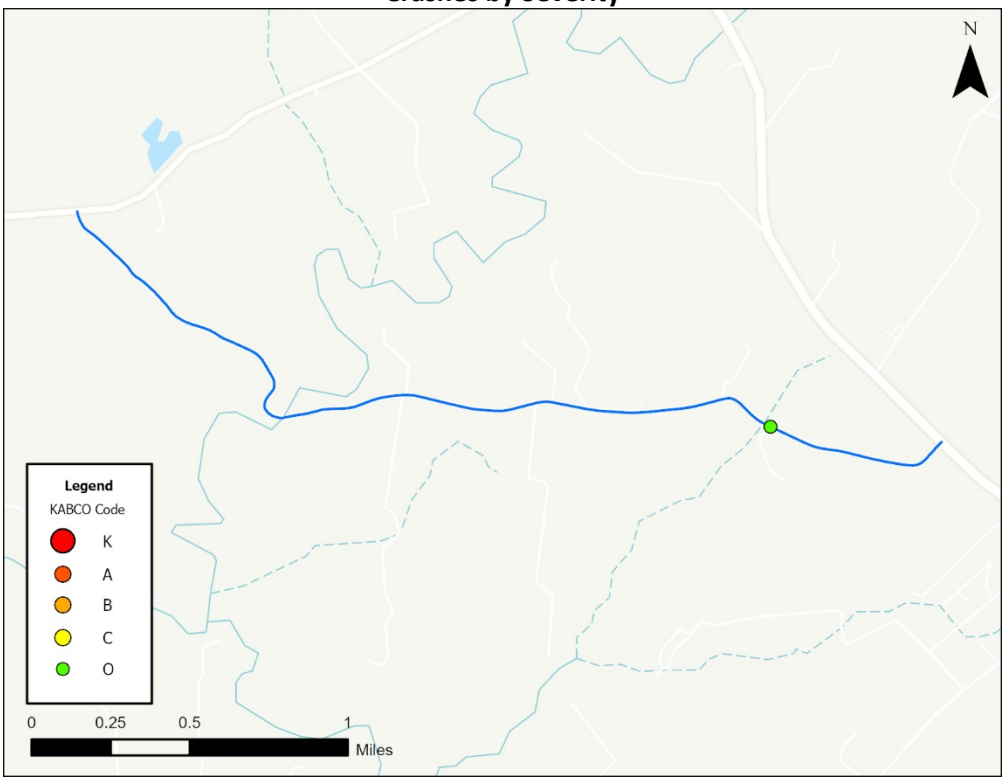
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4084	044-CR-1314 -000	DOC WARD RD	10	1	2	0-20		✓	✓
4085	044-CR-1314 -000	DOC WARD RD	10	2	1	0-20		✓	✓
4086	044-CR-1314 -000	DOC WARD RD	10	2	3	60-80	✓	✓	✓
4095	044-CR-1314 -000	DOC WARD RD	10	4	1	0-20		✓	✓

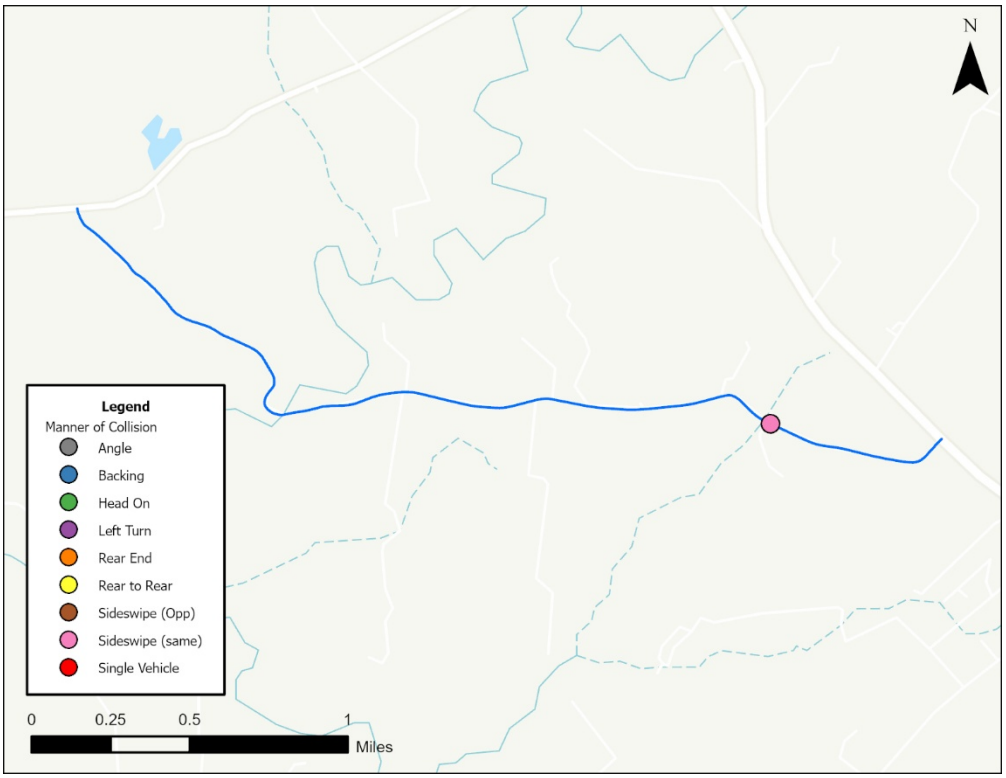
Roadway Typical Section



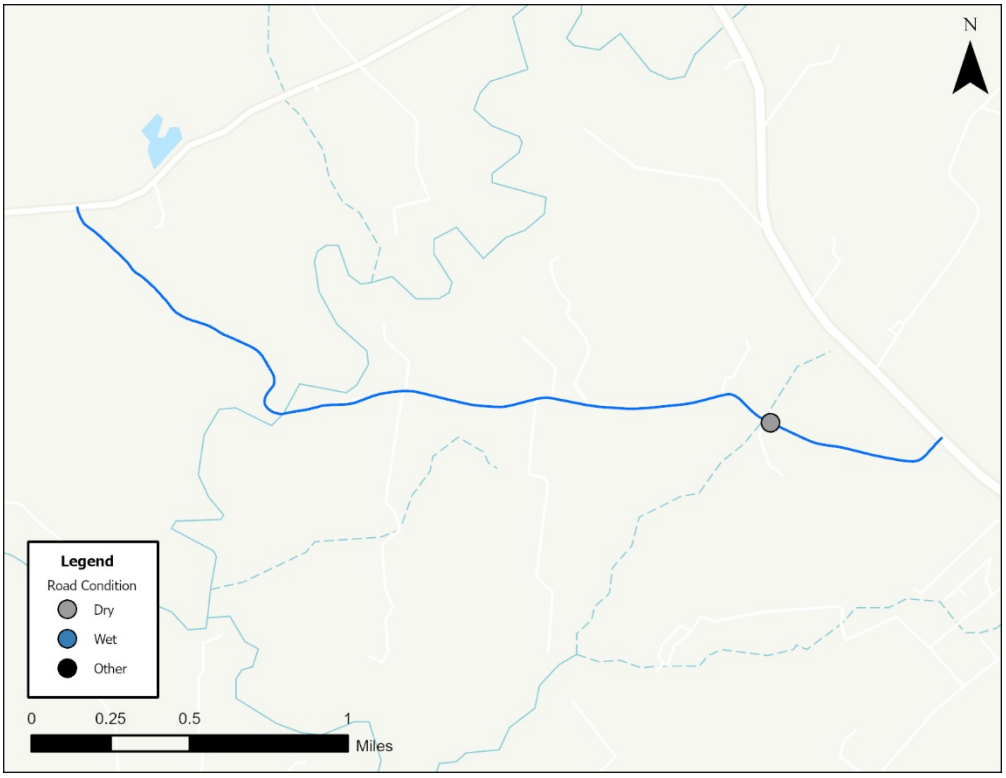
Crashes by Severity



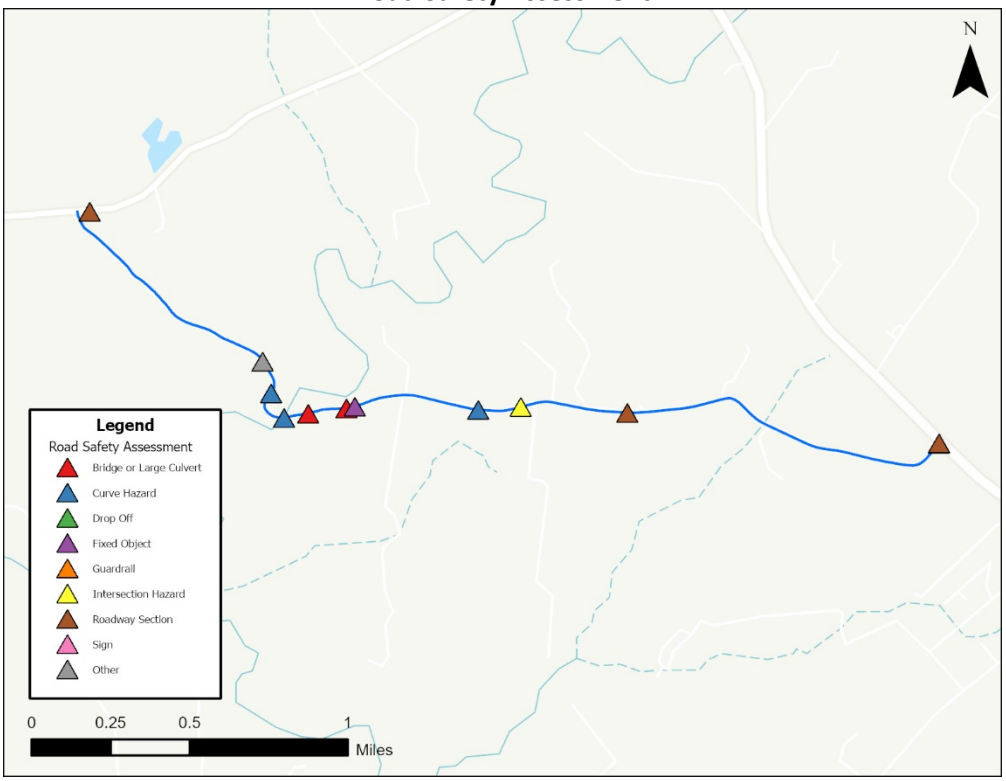
Manner of Collision



Road Conditions



Road Safety Assessment



General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
4090	044-CR-1314 -000	DOC WARD RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4091	044-CR-1314 -000	DOC WARD RD	10	4	2	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
4088	044-CR-1314 -000	DOC WARD RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
4092	044-CR-1314 -000	DOC WARD RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
4093	044-CR-1314 -000	DOC WARD RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation

Point ID	RT_UNIQUE	RD_NAME	Object	Single / Series	Offset	Recommendations
4089	044-CR-1314 -000	DOC WARD RD	Tree	Single	1-3	Remove

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations	Other
4087	044-CR-1314 -000	DOC WARD RD	Other	No	Evaluate intersection and road condition.	Deteriorated road

Other Roadways

Roadway Recommendations (Green County)

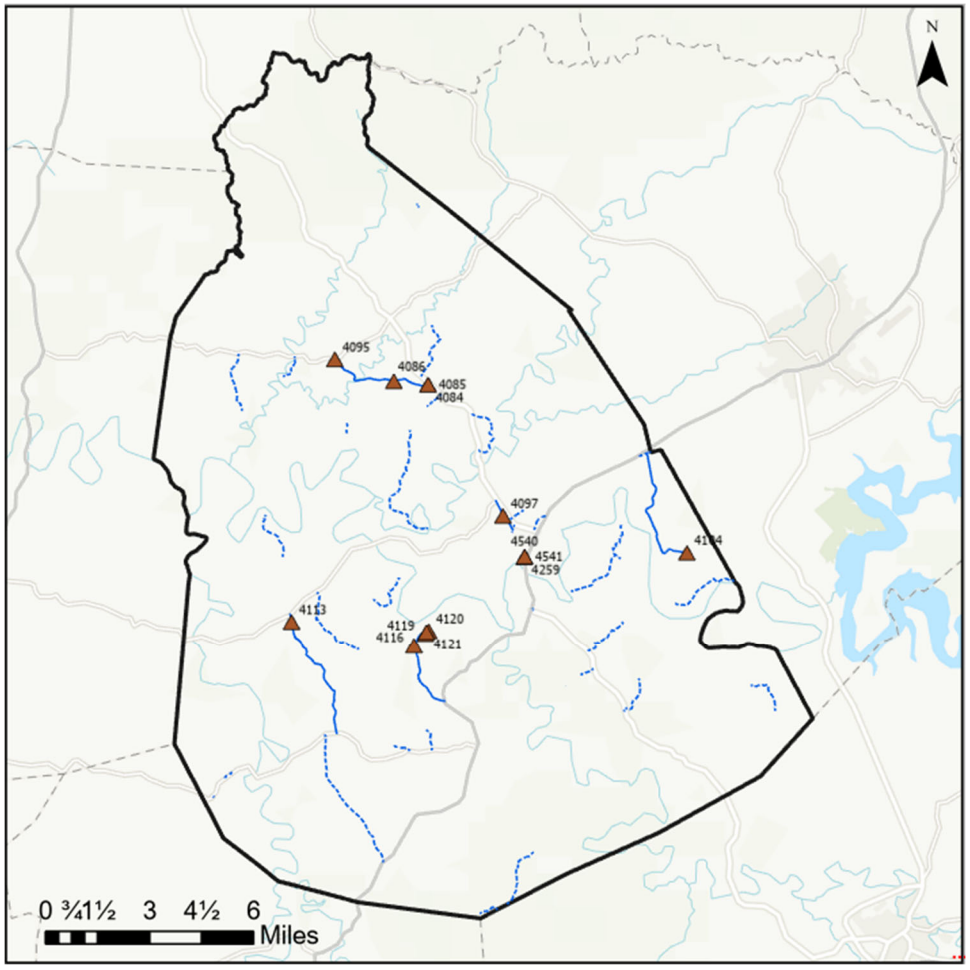


Exhibit Green-10: Roadway Section Locations

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4084	044-CR-1314 -000	DOC WARD RD	10	1	2	0-20		✓	✓
4085	044-CR-1314 -000	DOC WARD RD	10	2	1	0-20		✓	✓
4086	044-CR-1314 -000	DOC WARD RD	10	2	3	60-80	✓	✓	✓
4095	044-CR-1314 -000	DOC WARD RD	10	4	1	0-20		✓	✓
4097	044-CR-1715 -000	HAPPYVILLE RD	10	4	1	0-20		✓	✓
4116	044-CR-1207 -000	MOUNT LEBANON CHURCH RD	10	3	1	20-40	✓	✓	✓
4119	044-CR-1207 -000	MOUNT LEBANON CHURCH RD	10	3	2	60-80	✓	✓	✓
4120	044-CR-1207 -000	MOUNT LEBANON CHURCH RD	10	3	1	0-20		✓	✓
4121	044-CR-1207 -000	MOUNT LEBANON CHURCH RD	10	4	1	0-20		✓	✓
4113	044-CR-1266 -000	PIERCE-DONANSBURG RD	10	4	1	0-20		✓	✓
4104	044-CR-1019 -000	WHITEWOOD RD	10	4	1	0-20		✓	✓

Exhibit Green-11: Roadway Recommendations

Bridge / Culvert Recommendations (Green County)

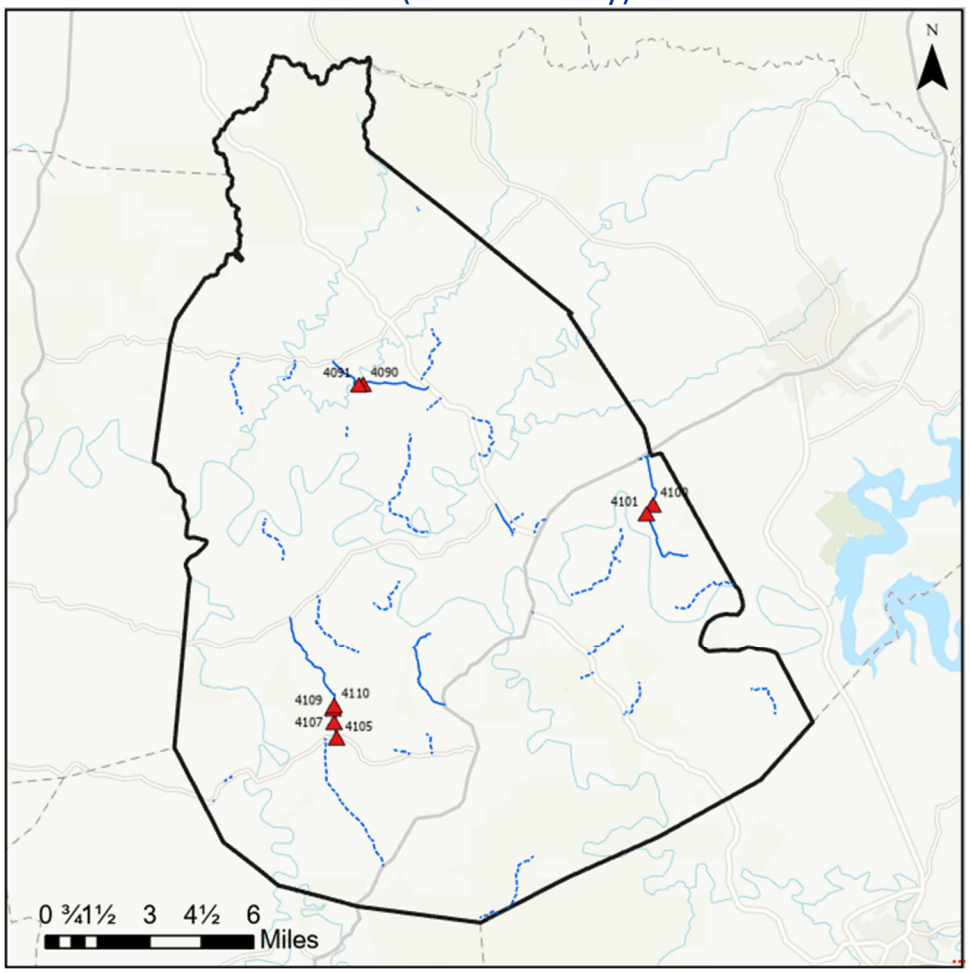


Exhibit Green-12: Bridge Locations

Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
4090	044-CR-1314 -000	DOC WARD RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4091	044-CR-1314 -000	DOC WARD RD	10	4	2	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4105	044-CR-1266 -000	PIERCE-DONANSBURG RD	10	0	1	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4107	044-CR-1266 -000	PIERCE-DONANSBURG RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4109	044-CR-1266 -000	PIERCE-DONANSBURG RD	10	0	1	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4110	044-CR-1266 -000	PIERCE-DONANSBURG RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4100	044-CR-1019 -000	WHITEWOOD RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4101	044-CR-1019 -000	WHITEWOOD RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.

Exhibit Green-13: Bridge Recommendations

Curve Recommendations (Green County)

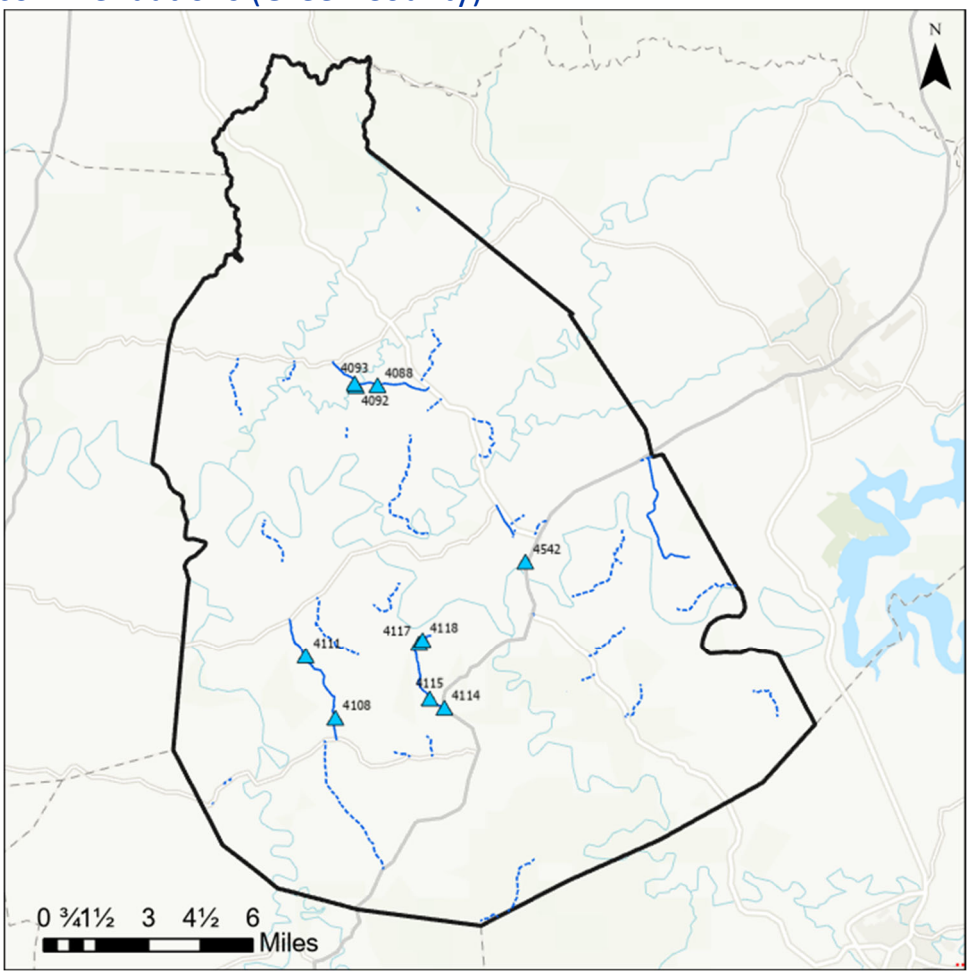


Exhibit Green-14: Curve Locations

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
4088	044-CR-1314 -000	DOC WARD RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
4092	044-CR-1314 -000	DOC WARD RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
4093	044-CR-1314 -000	DOC WARD RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
4108	044-CR-1266 -000	PIERCE-DONANSBURG RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
4111	044-CR-1266 -000	PIERCE-DONANSBURG RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
4114	044-CR-1207 -000	MOUNT LEBANON CHURCH RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
4115	044-CR-1207 -000	MOUNT LEBANON CHURCH RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
4117	044-CR-1207 -000	MOUNT LEBANON CHURCH RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
4118	044-CR-1207 -000	MOUNT LEBANON CHURCH RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation

Exhibit Green-15: Curve Recommendations

Roadside Drop Off Recommendations (Green County)

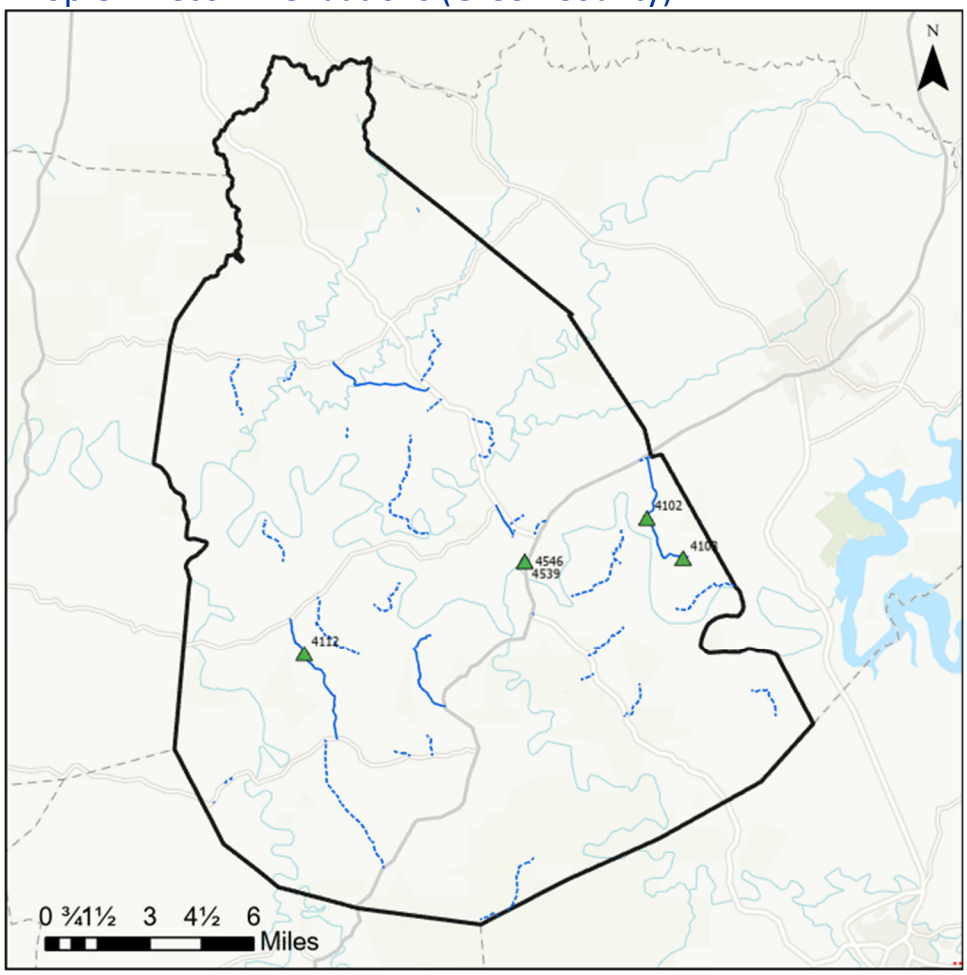


Exhibit Green-16: Drop Off Locations

Point ID	RT_UNIQUE	RD_NAME	Drop Off Offset	Drop Off Height	Recommendations
4102	044-CR-1019 -000	WHITEWOOD RD	1-3	>10	Evaluate roadway width, curvature and grade at drop off compared to Other locations in county to evaluate need for guardrail
4103	044-CR-1019 -000	WHITEWOOD RD	1-3	>10	Evaluate roadway width, curvature and grade at drop off compared to Other locations in county to evaluate need for guardrail
4112	044-CR-1266 -000	PIERCE-DONANSBURG RD	0-1	>10	Evaluate roadway width, curvature and grade at drop off compared to Other locations in county to evaluate need for guardrail

Exhibit Green-17: Drop Off Recommendations

Fixed Object Recommendations (Green County)

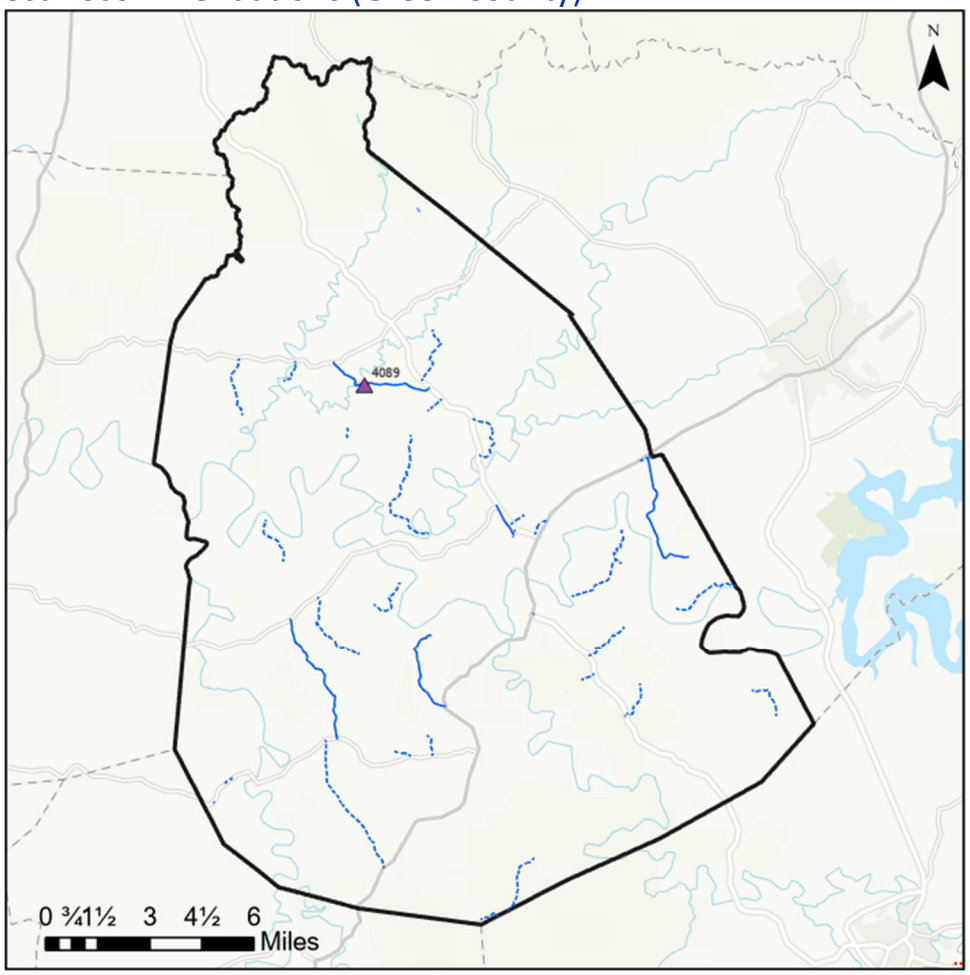


Exhibit Green-18: Fixed Object Locations

Point ID	RT_UNIQUE	RD_NAME	Object	Single / Series	Offset	Recommendations
4089	044-CR-1314 -000	DOC WARD RD	Tree	Single	1-3	Remove

Exhibit Green-19: Fixed Object Recommendations

Intersection Recommendations (Green County)

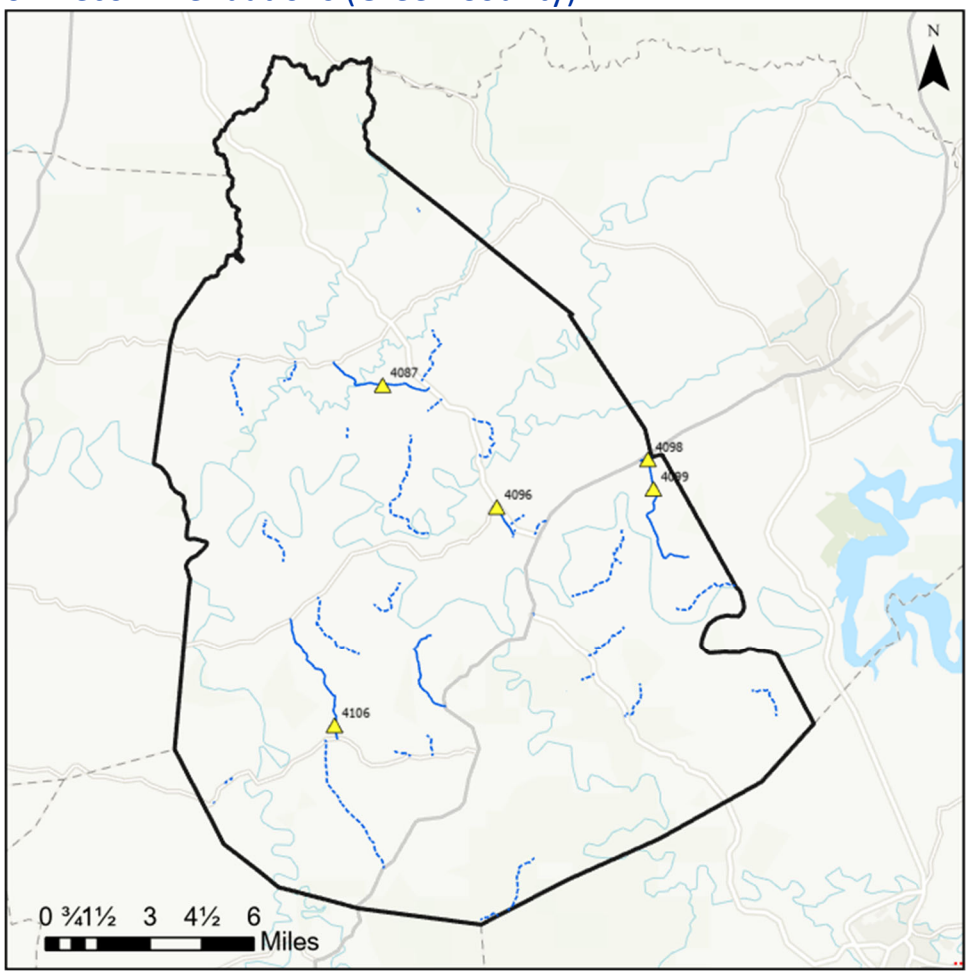


Exhibit Green-20: Intersection Locations

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
4087	044-CR-1314 -000	DOC WARD RD	Other	No	Evaluate intersection and road condition.
4096	044-CR-1715 -000	HAPPYVILLE RD	Intersection Obscured on Approa	No	Evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)
4098	044-CR-1019 -000	WHITEWOOD RD	Intersection Skew,Intersection Obscured on Approa	No	Evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X); Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection skew
4099	044-CR-1019 -000	WHITEWOOD RD	Intersection Obscured on Approa,Intersection Skew	No	Evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X); Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection skew
4106	044-CR-1266 -000	PIERCE-DONANSBURG RD	Intersection Obscured on Approa	No	Evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)

Exhibit Green-21: Intersection Recommendations

Other Recommendations (Green County)

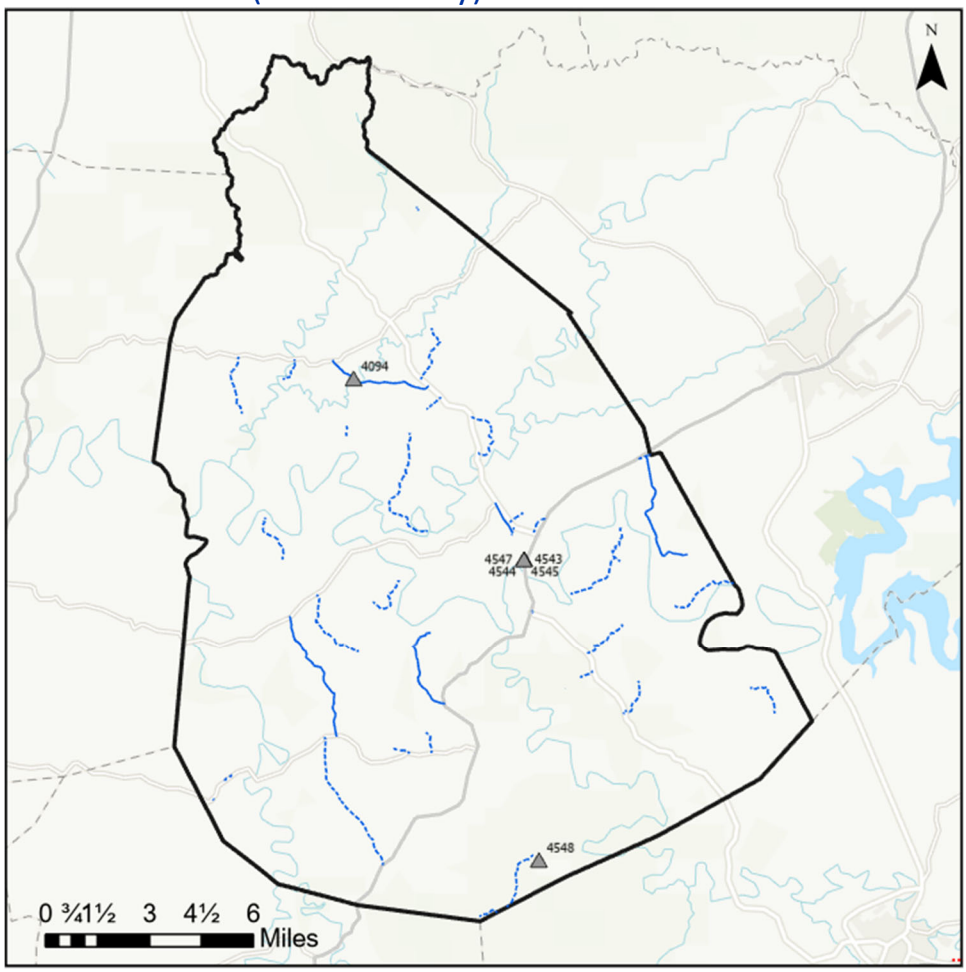


Exhibit Green-22: Other Item Locations

Point ID	RT_UNIQUE	RD_NAME	Recommendations	Other
4094	044-CR-1314 -000	DOC WARD RD	Install "Hill Blocks View" Sign (W7-6)	Incline reduces visibility up the hill
4548	044-CR-1150 -000	HOWARD SCHOOL RD	Review	NARROW AREA WITH MANY TREES BLOCKING VIEWING AREA OF CURVE

Exhibit Green-23: Other Item Recommendations

Signing Recommendations (Green County)

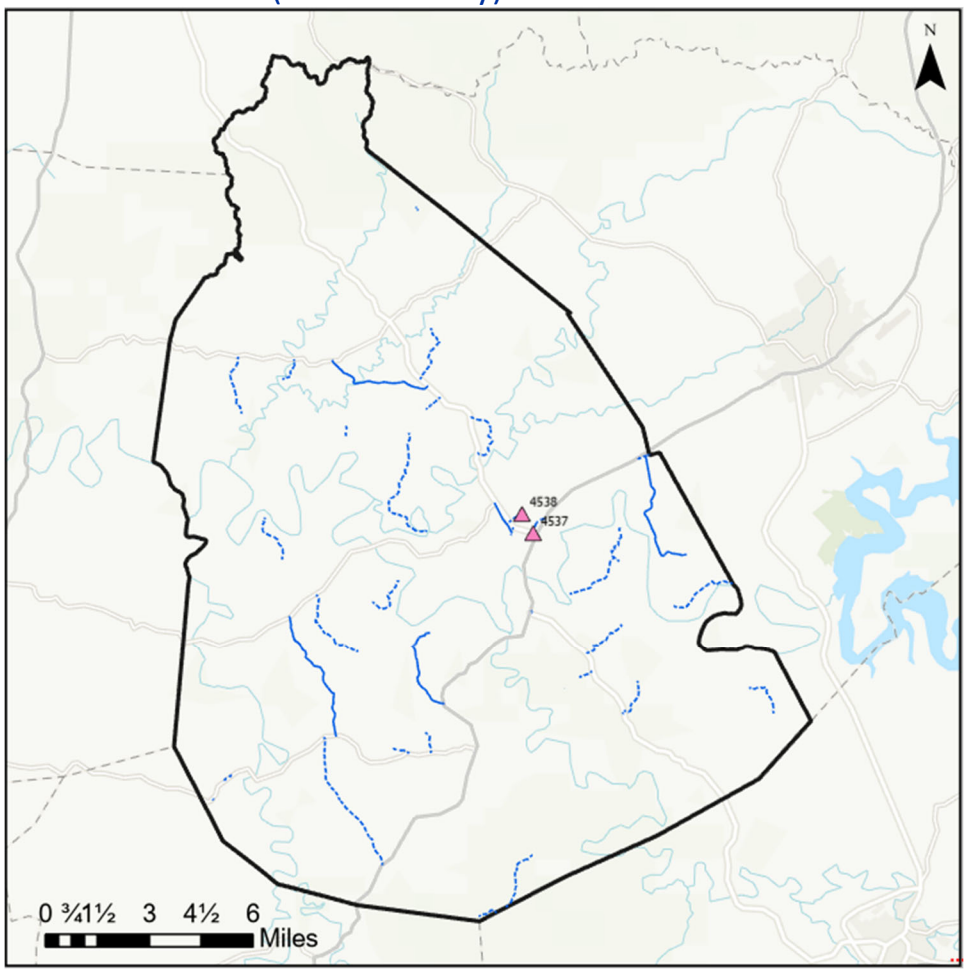


Exhibit Green-24: Sign Locations

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/LCADDSAP.

APPENDIX I: MCCREARY COUNTY SAFETY ACTION PLAN

McCreary County Overview

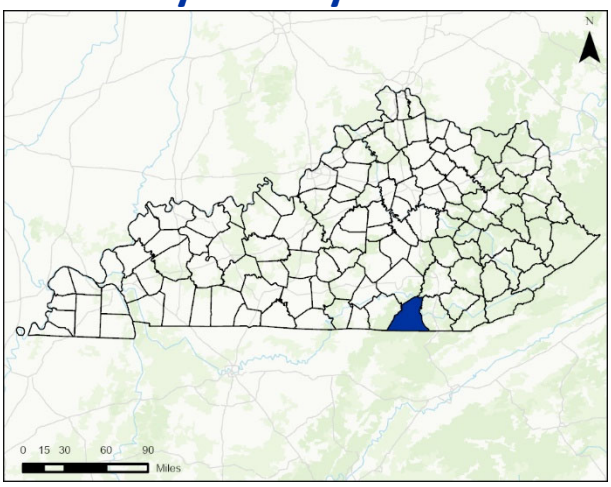


Exhibit McCrear-1: Location Map

Key Information Table McCreary County	
Population	17,050
Population in Persistent Poverty	40%
Underserved Community	**Yes**
Fatalities (All Roads)	23
Fatalities (County Roads)	3
Fatality Rate per 100,000 persons	**134.90**
County Road Mileage	438.4
State Road Mileage	207.1
Total Mileage	**645.5**

Exhibit McCreary-2: Key Information

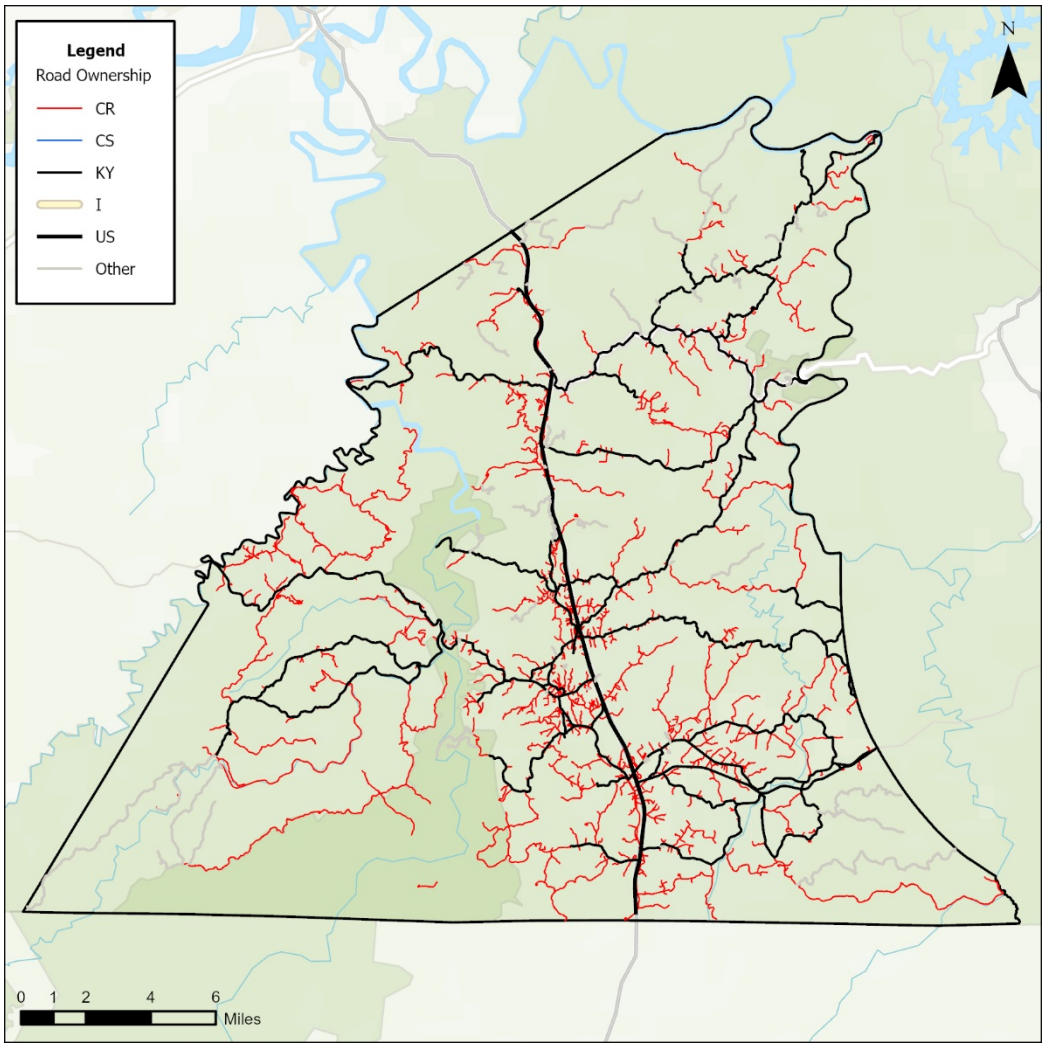


Figure McCreary-3: Map of County Roadways

Crash Analysis

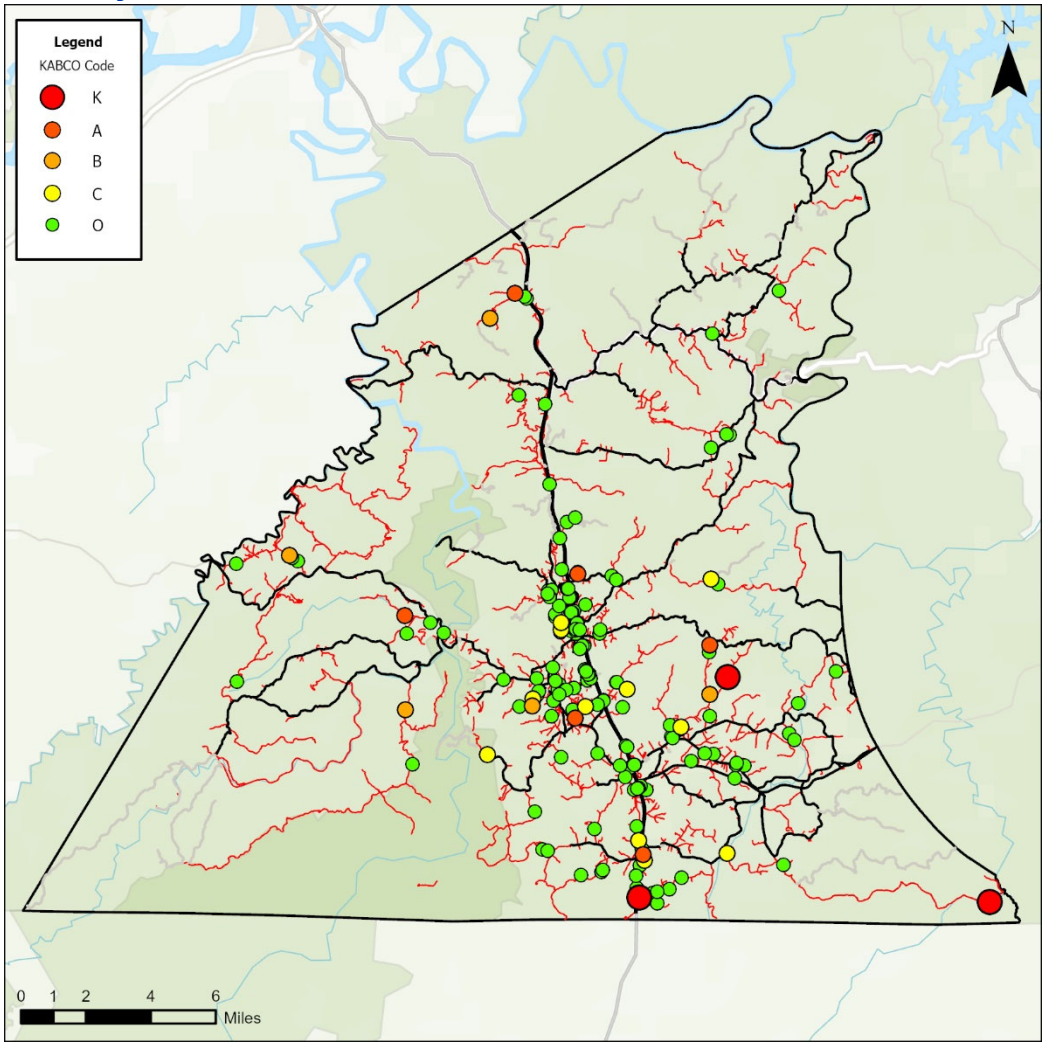
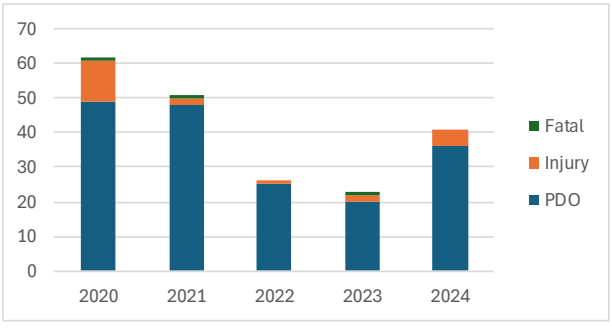


Figure McCreary-4: Map of County Road Crashes



Year	Property Damage Only	Injury	Fatal	Total
2020	49	12	1	**62**
2021	48	2	1	**51**
2022	25	1	0	**26**
2023	20	2	1	**23**
2024	36	5	0	**41**

Table McCreary-5: Crash Distribution by Year

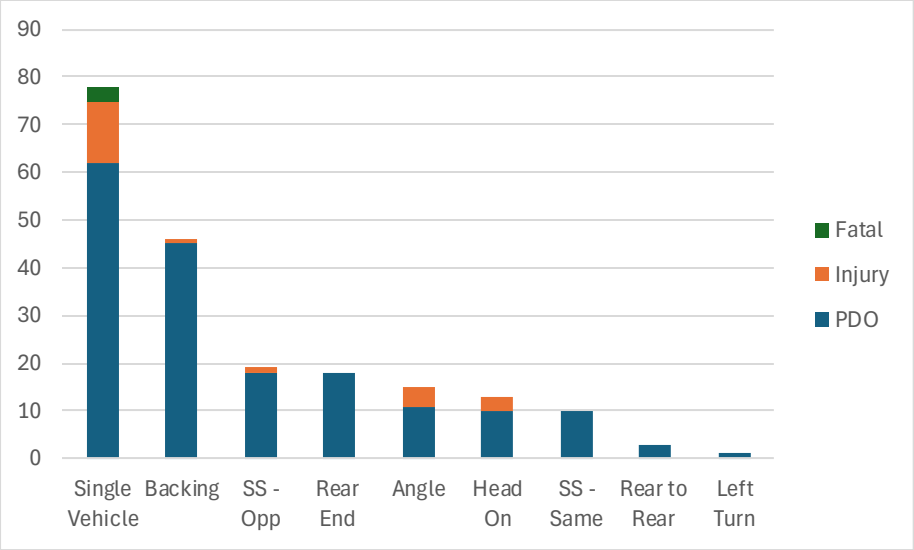


Exhibit McCreary-6: Crash Frequency and Severity by Manner of Collision

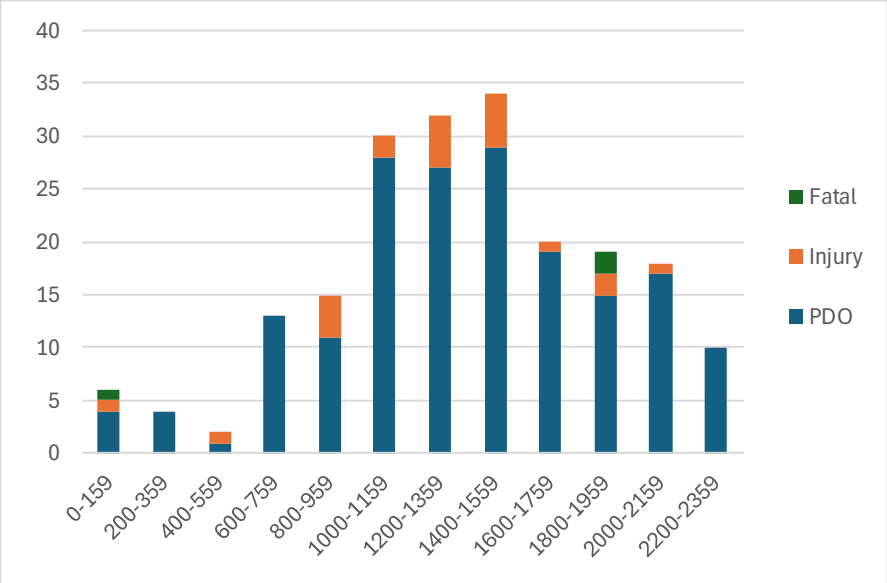


Exhibit McCreary-7: Crashes and Severity by Time of Day

Focus Roadways

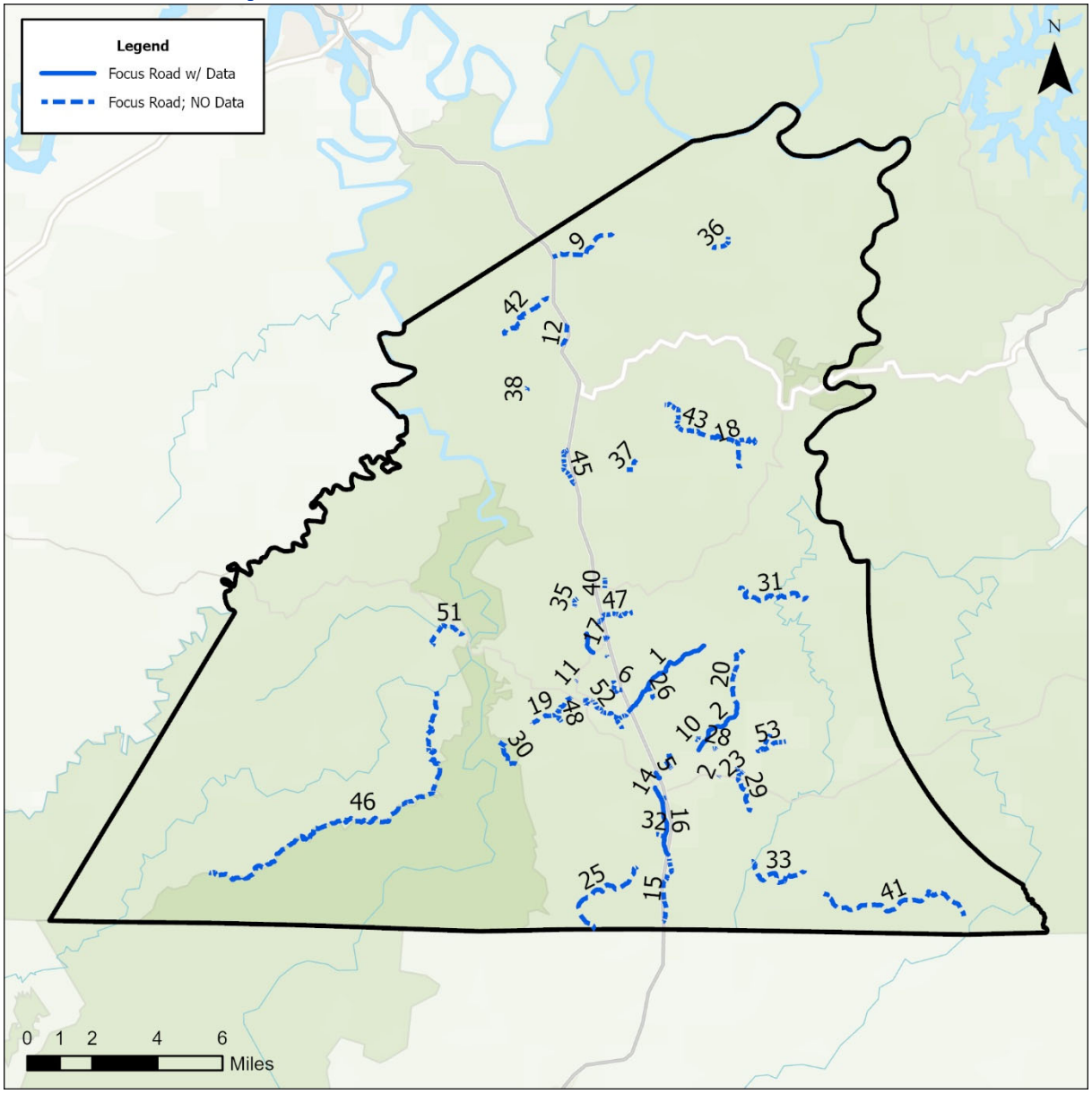


Exhibit McCreary-8: Focus Roads

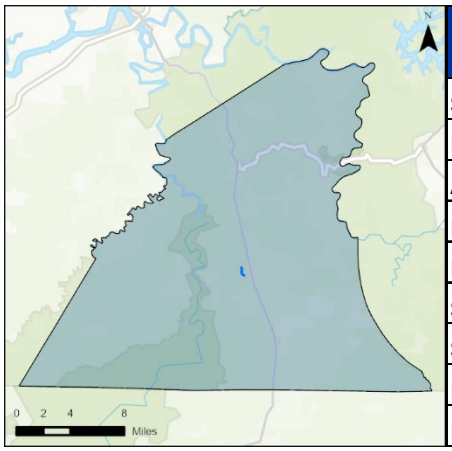
RT_UNIQUE	Length	County	Road Name	Injury Crashes	Fatal Crashes	PDO	CrashScore	UseScore	Rank	Focus Roads	Data Points	Roadway Data
McCreary County												
074-CR-1183 -000	**3.3**	**McCreary**	**PIGSKIN RD**	**1**	**2**	**6**	**3.33**	**1.13**	**1**	**1**	**7**	**0**
074-CR-1605F -000	**2.0**	**McCreary**	**AIRPORT RD**	**0**	**2**	**3**	**2.35**	**1.18**	**2**	**1**	**10**	**0**
074-CR-1640 -000	0.1	McCreary	APPROACH RD	0	0	0	0.00	#DIV/0!	2	1	0	0
074-CR-1602D -000	0.2	McCreary	W CAL HILL SPUR	0	0	1	0.05	2.76	3	1	0	0
074-CR-1200 -000	**0.7**	**McCreary**	**OLD BAILEY RD**	**0**	**2**	**5**	**2.46**	**0.35**	**4**	**1**	**6**	**5**
074-CR-1603E -000	**0.2**	**McCreary**	**HOGUE RD**	**0**	**0**	**0**	**0.00**	**2.76**	**5**	**1**	**4**	**3**
074-CR-1289B7-000	0.6	McCreary	CABIN CREEK RD	0	1	6	1.42	1.30	6	1	0	0
074-CR-1381 -000	0.1	McCreary	GEARY AVE	0	0	1	0.05	2.66	7	1	0	0
074-CR-1605R -000	0.5	McCreary	SWAIN RD	0	0	0	0.00	2.71	8	1	0	0
074-CR-1333 -000	4.5	McCreary	BAUER RD	0	0	0	0.00	2.62	9	1	0	0
074-CR-1622 -000	0.2	McCreary	LINK DR	0	0	0	0.00	2.59	10	1	0	0
074-CR-1289TT-000	0.1	McCreary	HEATH AND CHESTNUT RD	0	0	0	0.00	2.59	11	1	0	0
074-CR-1327 -000	0.7	McCreary	MAC SWAIN CIR	0	0	0	0.00	2.50	12	1	0	0
074-CR-1289B7-020	0.0	McCreary	CABIN CREEK RD Y	0	0	0	0.00	2.50	12	1	0	0
074-CR-1601 -020	0.0	McCreary	SOUTHERN HWY Y	0	0	0	0.00	2.28	14	1	0	0
074-CR-1600 -000	2.1	McCreary	STRUNK HWY	2	0	3	1.81	0.42	15	1	0	0
074-CR-1601 -000	**2.2**	**McCreary**	**SOUTHERN HWY**	**0**	**1**	**1**	**1.15**	**0.98**	**16**	**1**	**1**	**1**
074-CR-1290CC-000	0.1	McCreary	PUMP HOUSE RD	0	0	0	0.00	2.07	17	1	0	0
074-CR-1513A -000	0.8	McCreary	VANOVER RIDGE SPUR	0	1	0	1.09	0.91	18	1	0	0
074-CR-1202 -000	1.6	McCreary	TUNNEL RIDGE RD	0	1	3	1.25	0.72	19	1	0	0
074-CR-1103 -000	2.0	McCreary	INDIAN KNOB RD	2	0	0	1.65	0.31	20	1	0	0
074-CR-1289D3-000	1.3	McCreary	LOWER SHIRT FACTORY RD	0	1	4	1.31	0.51	21	1	0	0
074-CR-1289L -000	0.2	McCreary	KINNIE ST	0	1	3	1.25	0.52	22	1	0	0
074-CR-1605Y -000	0.2	McCreary	OLD MILL RD	0	0	0	0.00	1.69	23	1	0	0
074-CR-1290UU-000	0.3	McCreary	SOUTHFORK CENTER ST	0	0	1	0.05	1.55	24	1	0	0
074-CR-1211 -000	3.6	McCreary	KINGTOWN RD	0	1	2	1.20	0.38	25	1	0	0
074-CR-1606G -000	0.4	McCreary	LAUREL ESTATES RD	0	1	0	1.09	0.45	26	1	0	0
074-CR-1513D -000	0.3	McCreary	EVERETT TAYLOR RD	0	0	0	0.00	1.52	27	1	0	0
074-CR-1605G -000	0.1	McCreary	BRINKS RD	0	0	0	0.00	1.50	28	1	0	0
074-CR-1163 -000	1.5	McCreary	JOSH HILL RD	0	0	0	0.00	1.47	29	1	0	0
074-CR-1011 -000	1.3	McCreary	MINE 18 RD	0	1	1	1.15	0.27	30	1	0	0
074-CR-1005 -000	2.8	McCreary	NEW LIBERTY RD	1	0	1	0.88	0.52	31	1	0	0
074-CR-1199F -000	0.3	McCreary	THOMPSON TAPLEY RD	0	1	2	1.20	0.15	32	1	0	0
074-CR-1135 -000	2.6	McCreary	CORDER FLATS RD	0	1	0	1.09	0.22	33	1	0	0
074-CR-1603L -000	0.6	McCreary	PINE TREE RD	0	1	0	1.09	0.20	34	1	0	0
074-CR-1300H -000	0.3	McCreary	MARSHES SIDING RD	0	0	1	0.05	1.21	35	1	0	0
074-CR-1045 -000	0.7	McCreary	HWY 3256	0	0	0	0.00	1.25	36	1	0	0
074-CR-1063 -000	0.5	McCreary	ZEB PERRY RD	0	1	0	1.09	0.12	37	1	0	0
074-CR-1334 -000	0.1	McCreary	YANCEY STRUNK CEMETERY RD	0	1	0	1.09	0.10	38	1	0	0
074-CR-1290Y -000	0.1	McCreary	KIZZIE CHITWOOD RD	0	0	0	0.00	1.17	39	1	0	0
074-CR-1372E -000	0.3	McCreary	HATFIELD SUBDIVISION RD	1	0	1	0.88	0.28	40	1	0	0
074-CR-1127 -000	5.6	McCreary	LITTLE ROCK CREEK RD	0	1	0	1.09	0.03	41	1	0	0
074-CR-1344 -000	2.2	McCreary	COOPER CREEK RD	1	0	0	0.82	0.26	42	1	0	0
074-CR-1062 -000	3.9	McCreary	VANOVER RIDGE RD	0	0	1	0.05	1.03	43	1	0	0
074-CR-1289ZZ-000	0.5	McCreary	VALLEY RD	0	0	0	0.00	1.05	44	1	0	0
074-CR-1314 -000	1.3	McCreary	WIBORG LOOP RD	0	0	0	0.00	1.05	45	1	0	0
074-CR-1229 -000	13.4	McCreary	BEECH GROVE RD	1	0	0	0.82	0.22	46	1	0	0
074-CR-1704 -000	1.1	McCreary	STRUNK RIDGE RD	0	0	0	0.00	1.04	47	1	0	0
074-CR-1297B -000	0.4	McCreary	SPORTSMAN CLUB RD	1	0	0	0.82	0.20	48	1	0	0
074-CR-1289M -000	0.2	McCreary	BRUCE ST	1	0	1	0.88	0.14	49	1	0	0
074-CR-1515 -000	0.1	McCreary	CRIT KING SPUR	0	0	0	0.00	1.01	50	1	0	0
074-CR-1256 -000	1.5	McCreary	WOLF CREEK RD	0	0	2	0.11	0.88	51	1	0	0
074-CR-1053 -000	0.1	McCreary	BRIDGE ST	0	0	0	0.00	0.93	52	1	0	0
074-CR-1605U -000	1.0	McCreary	MUDDY BRANCH RD	1	0	0	0.82	0.11	53	1	0	0

Exhibit McCreary-9: List of Focus Roadways

Recommended Improvements (Top 5 Roads)

OLD BAILEY RD (074-CR-1200 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	2	1	0	**3**
Backing	1	0	0	**1**
Angle	0	1	0	**1**
Head On	0	0	0	**0**
Left Turn	0	0	0	**0**
SS - Opp	0	0	0	**0**
SS - Same	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

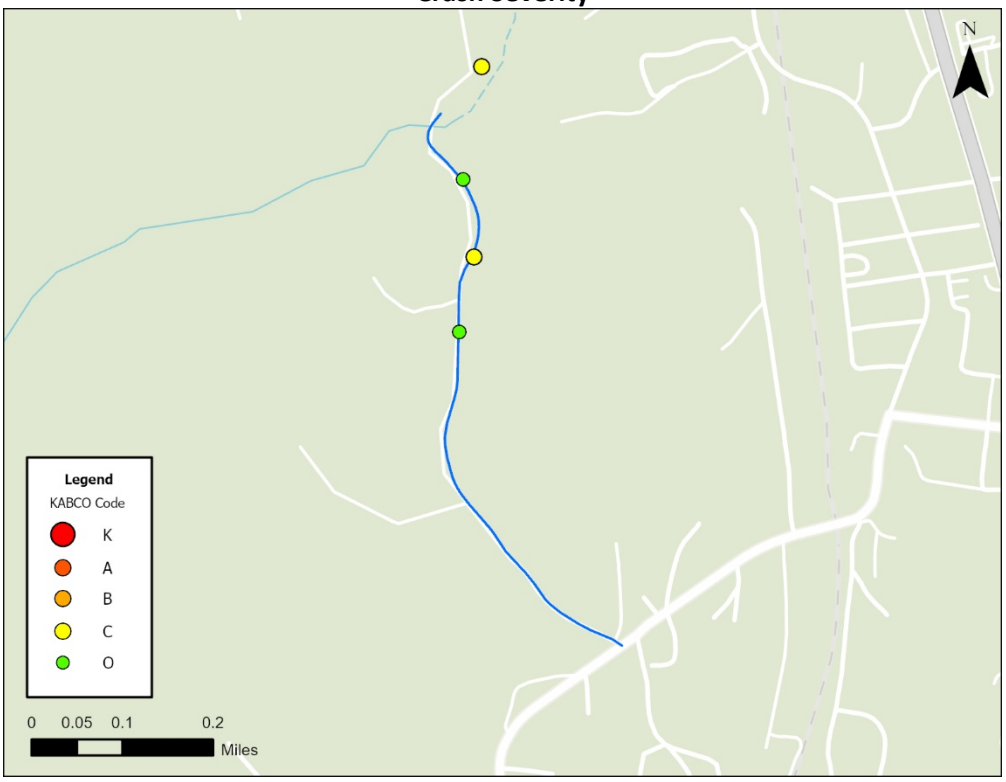
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
3744	074-CR-1200 -000	OLD BAILEY RD	10	2	3	0-20		✓	✓
3745	074-CR-1200 -000	OLD BAILEY RD	10	3	2	0-20		✓	✓
3746	074-CR-1200 -000	OLD BAILEY RD	10	1	3	40-60	✓	✓	✓
3747	074-CR-1200 -000	OLD BAILEY RD	10	3	1	0-20		✓	✓
3748	074-CR-1200 -000	OLD BAILEY RD	10	2	3	40-60	✓	✓	✓
4325	074-CR-1200 -000	OLD BAILEY RD	16	2	5	40-60	✓	✓	✓
4327	074-CR-1200 -000	OLD BAILEY RD	16	2	2	40-60	✓	✓	✓

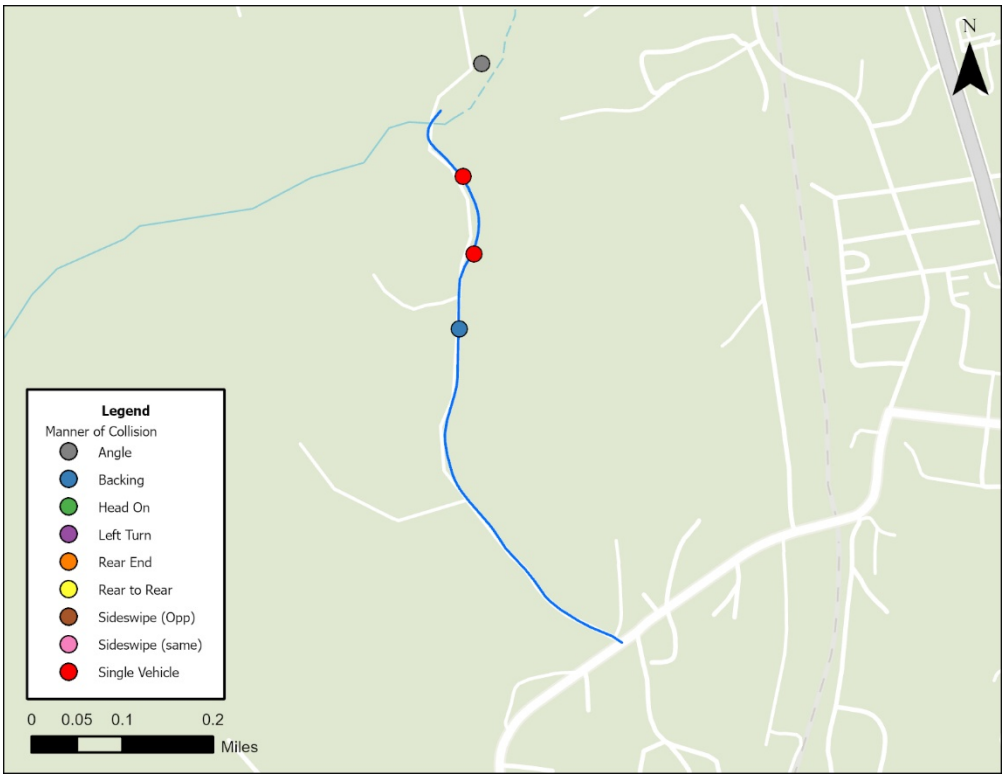
Roadway Typical Section



Crash Severity



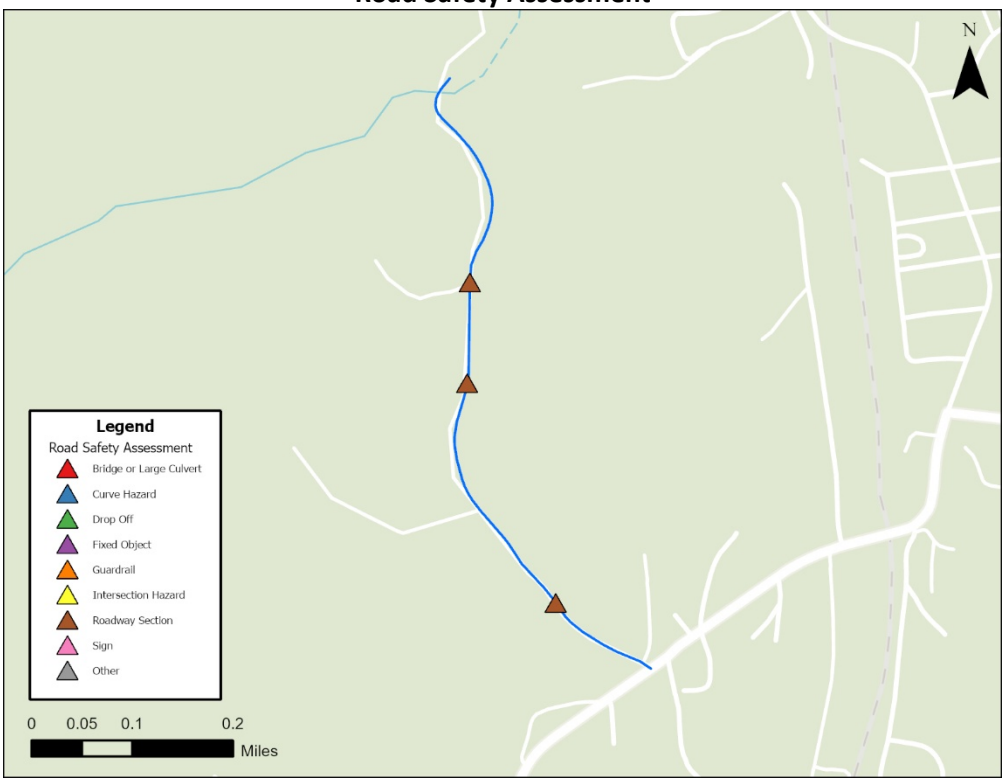
Manner of Collision



Road Condition



Road Safety Assessment



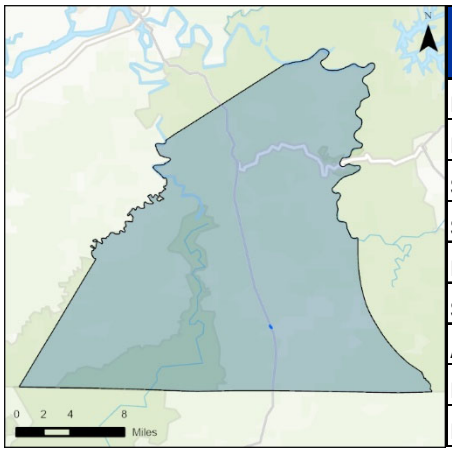
General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Drop Off Offset	Drop Off Height	Recommendations	Other
4326	074-CR-1200 -000	OLD BAILEY RD	>5	>10	--	Very steep hill at the ladder part of the road, very hazardous especially in winter months

Point ID	RT_UNIQUE	RD_NAME	Object	Single / Series	Offset	Recommendations	Other
3749	074-CR-1200 -000	OLD BAILEY RD	Other	Single	1-3	Consider removing/relocating fence	Fence pole

HOGUE RD (074-CR-1603E -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Backing	1	0	0	**1**
Left Turn	0	0	0	**0**
SS - Same	0	0	0	**0**
SS - Opp	0	0	0	**0**
Head On	0	0	0	**0**
Single Vehicle	0	0	0	**0**
Angle	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

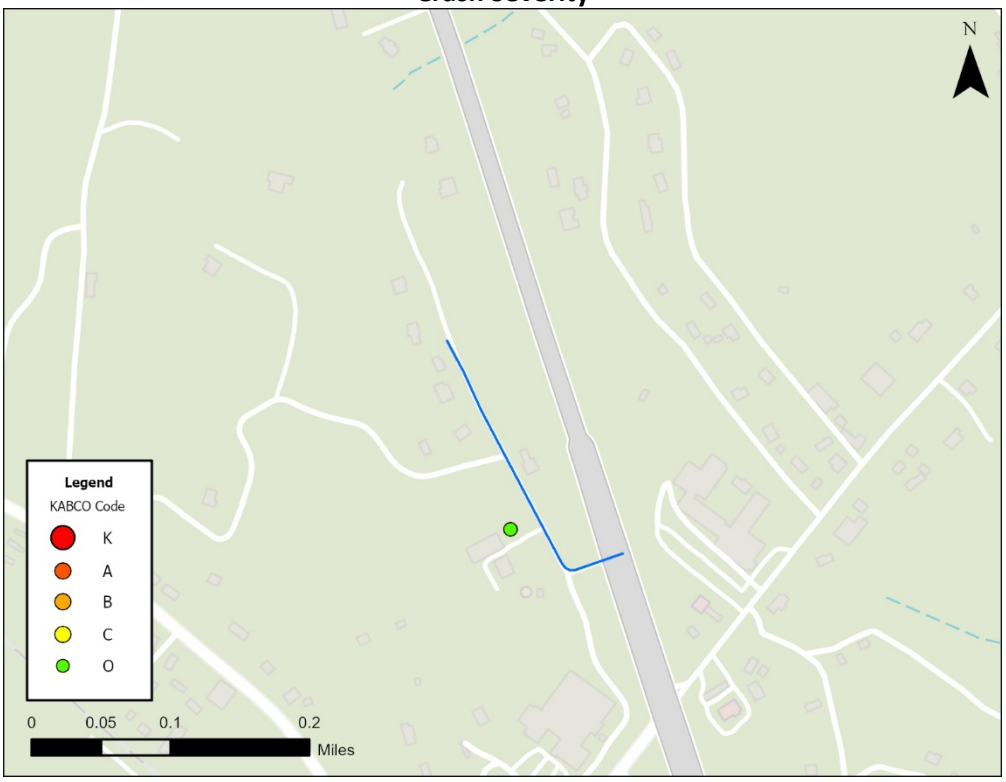
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
3750	074-CR-1603E -000	HOGUE RD	10	3	3	0-20		✓	✓
3751	074-CR-1603E -000	HOGUE RD	10	3	3	0-20		✓	✓
3752	074-CR-1603E -000	HOGUE RD	10	3	3	0-20		✓	✓

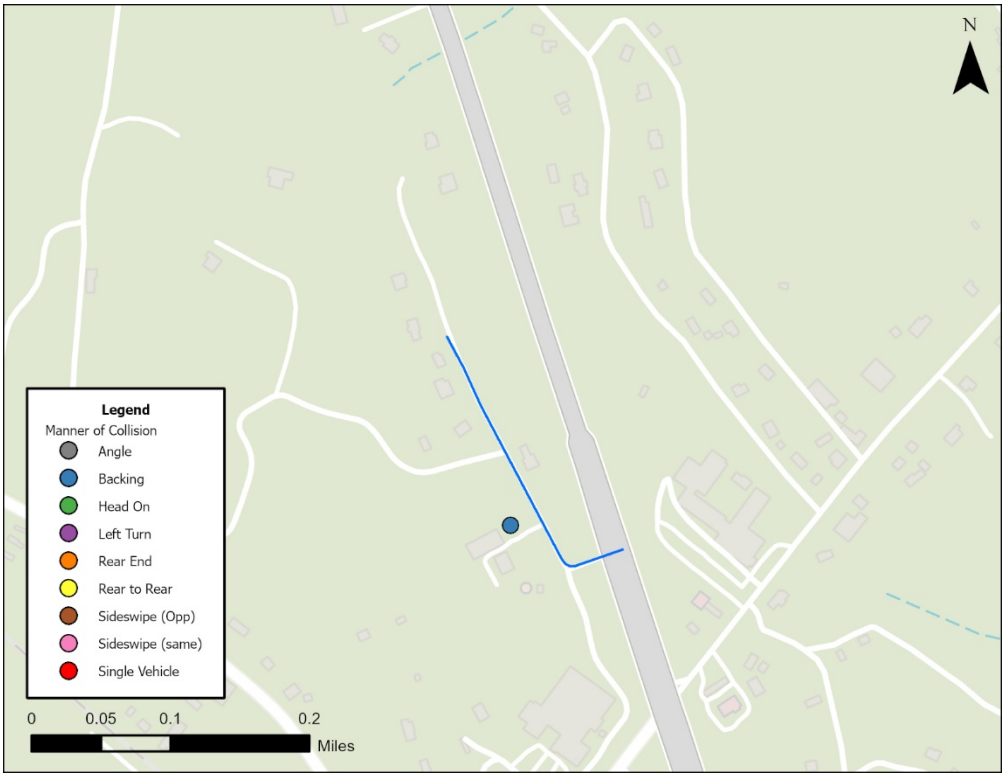
Roadway Typical Section



Crash Severity



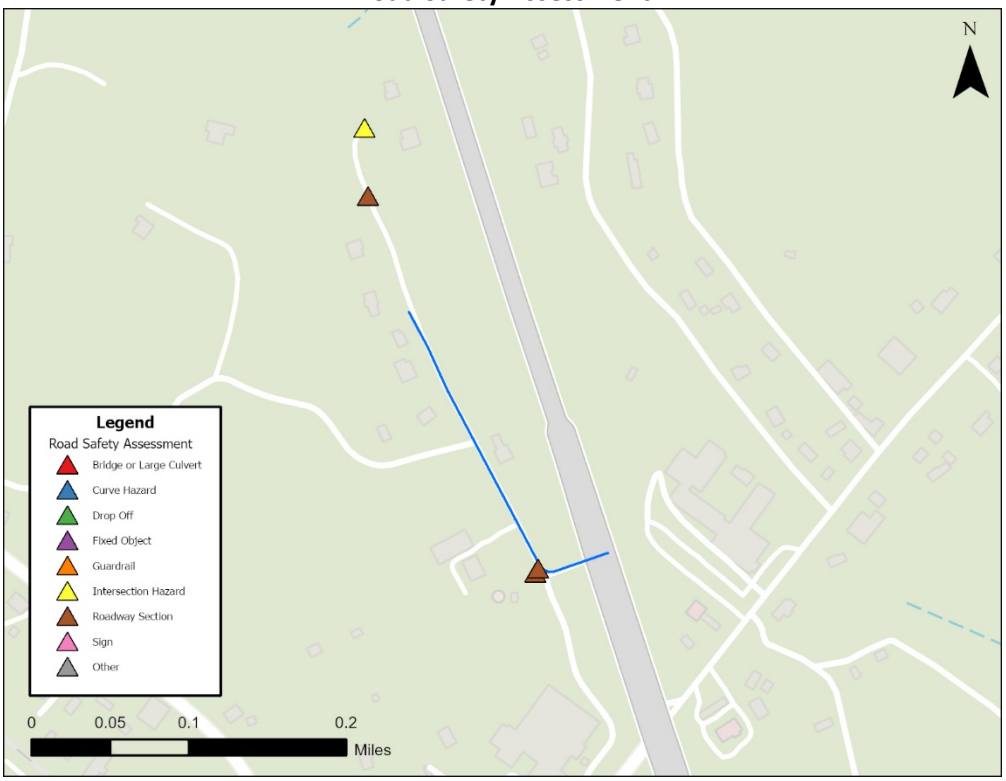
Manner of Collision



Road Condition



Road Safety Assessment

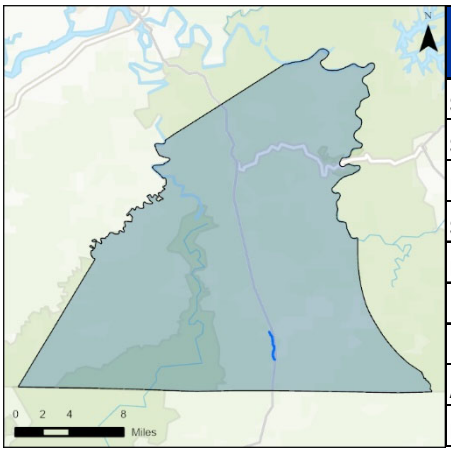


General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Recommendations	Other
4286	074-CR-1603E -000	HOGUE RD	Consider removing/relocating fence	Metal fence post close to road hazard
4287	074-CR-1603E -000	HOGUE RD	evaluate need to remove trees	Trees very close to road

SOUTHERN HWY (074-CR-1601 -000)

Road Location Map and Crash History

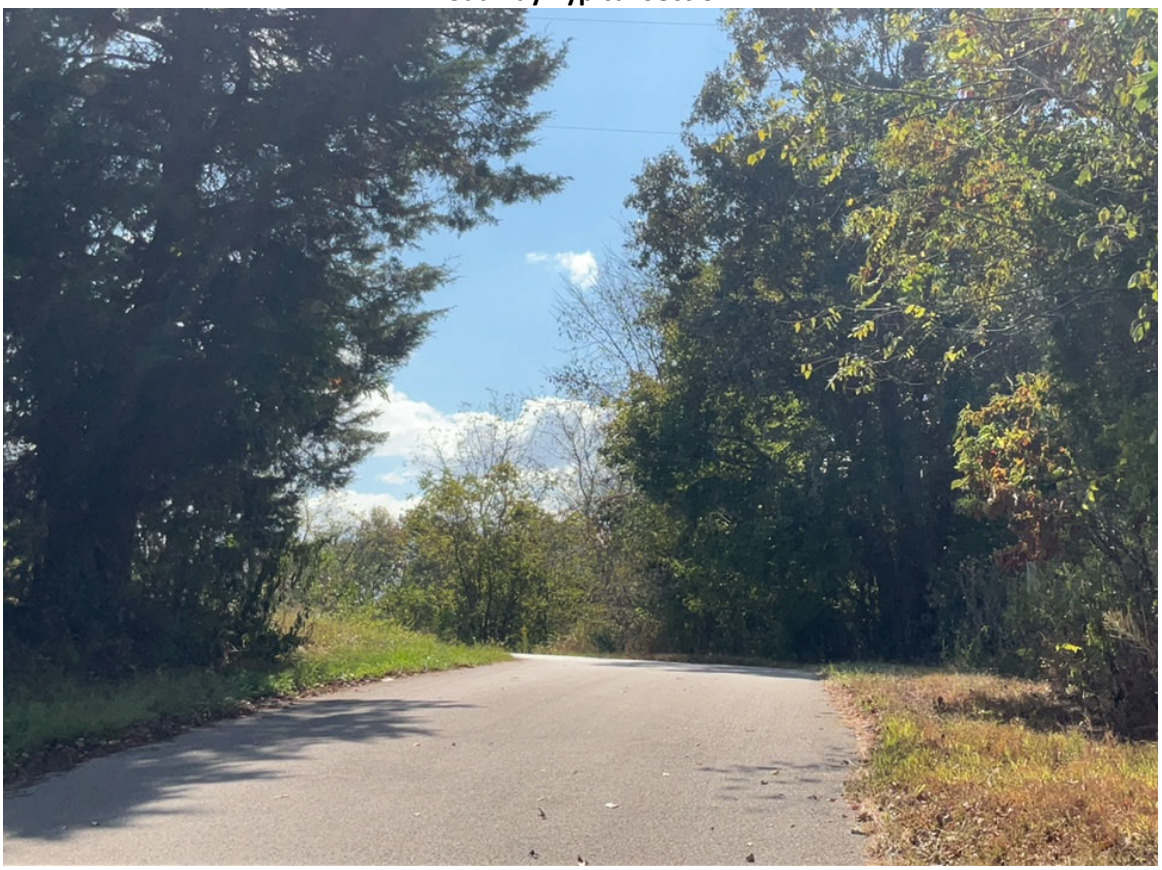


Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	0	0	0	**0**
SS - Same	0	0	0	**0**
Head On	0	0	0	**0**
SS - Opp	0	0	0	**0**
Backing	0	0	0	**0**
Rear End	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Angle	0	0	0	**0**
Left Turn	0	0	0	**0**

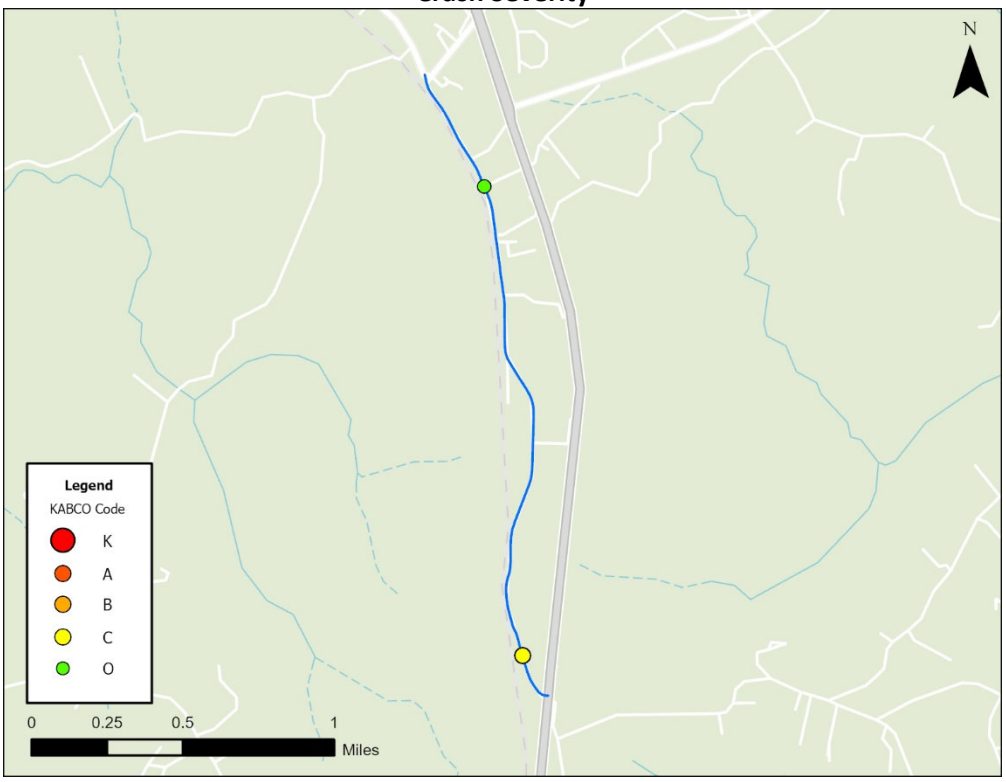
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing	Other
4279	074-CR-1601 -000	SOUTHERN HWY	24	4	4	0-20			✓	Roadway in very good shape, no hazards noted.
4280	074-CR-1601 -000	SOUTHERN HWY	22	4	2	0-20			✓	Road way in very good shape, no hazards noted.

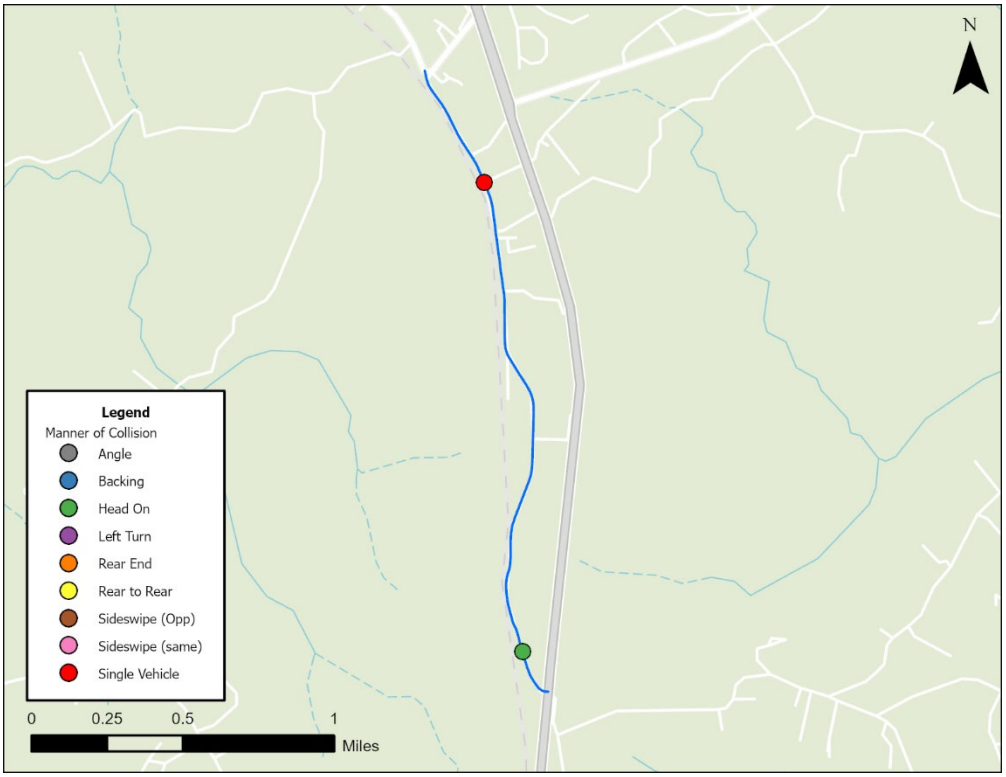
Roadway Typical Section



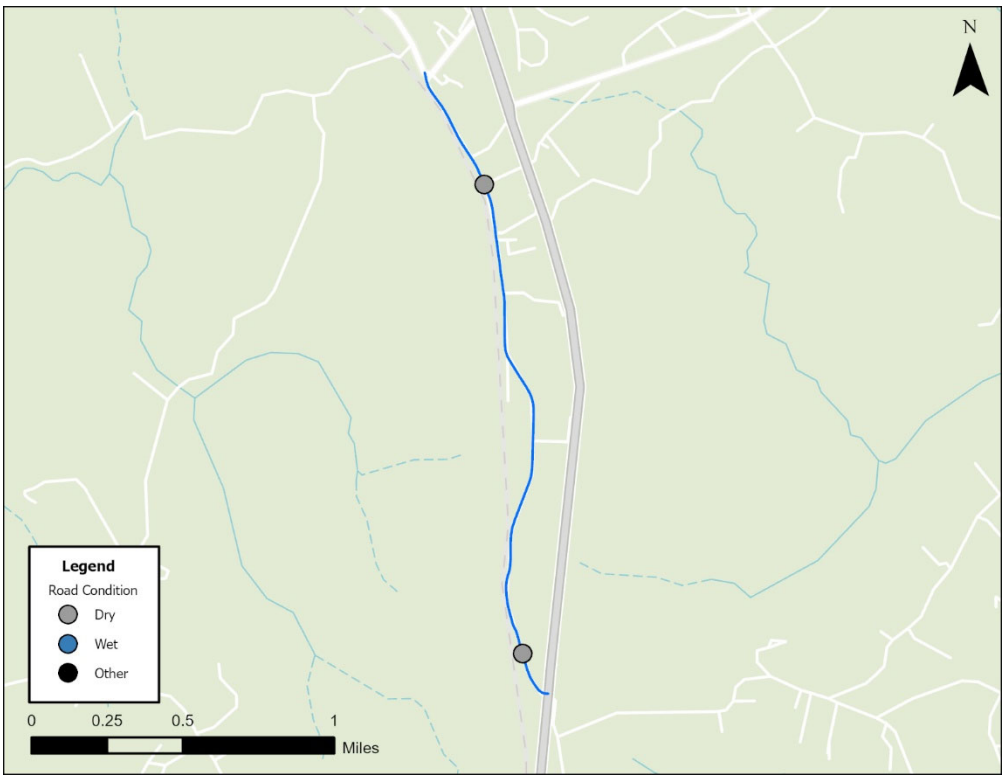
Crash Severity



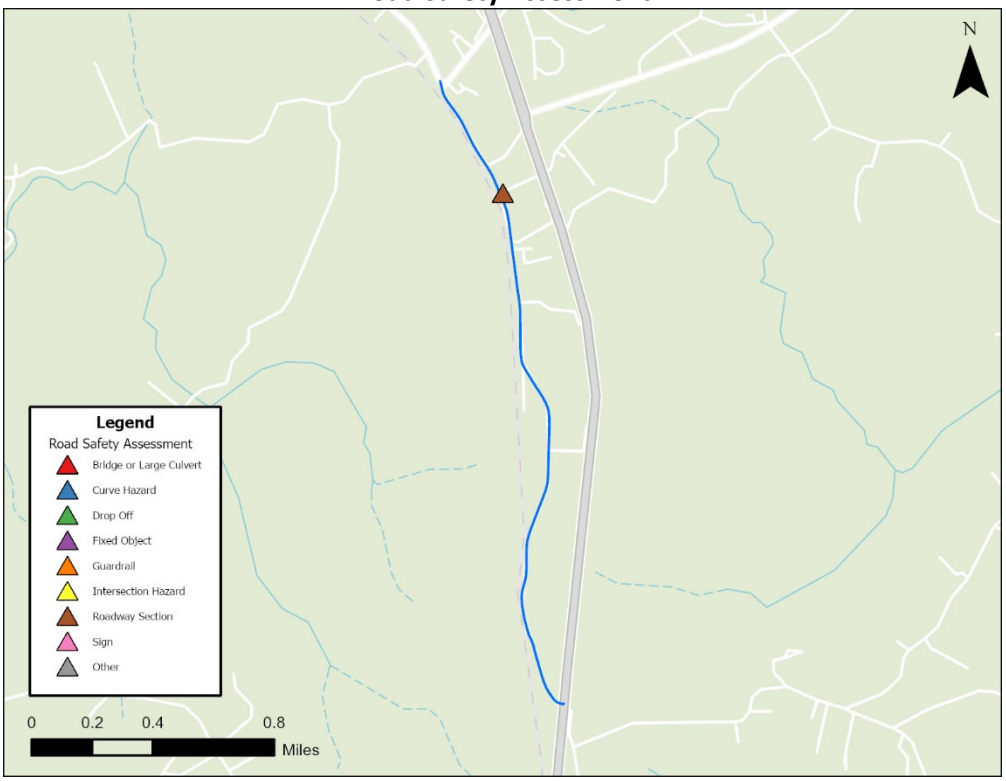
Manner of Collision



Road Conditions



Road Safety Assessment

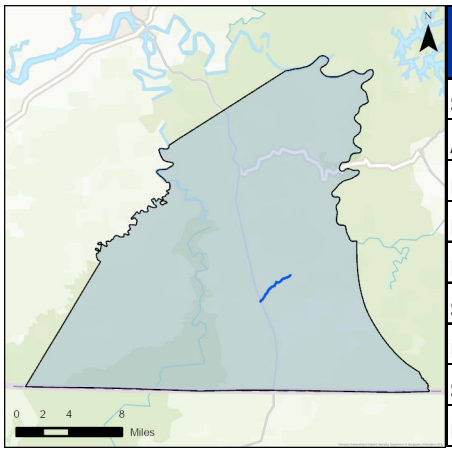


General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4279	074-CR-1601 -000	SOUTHERN HWY	24	4	4	0-20			✓
4280	074-CR-1601 -000	SOUTHERN HWY	22	4	2	0-20			✓

PIGSKIN RD (074-CR-1183 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	2	0	0	**2**
Angle	1	0	0	**1**
Backing	1	0	0	**1**
Left Turn	1	0	0	**1**
Rear End	1	0	0	**1**
SS - Same	0	0	0	**0**
Rear to Rear	0	0	0	**0**
SS - Opp	0	0	0	**0**
Head On	0	0	0	**0**

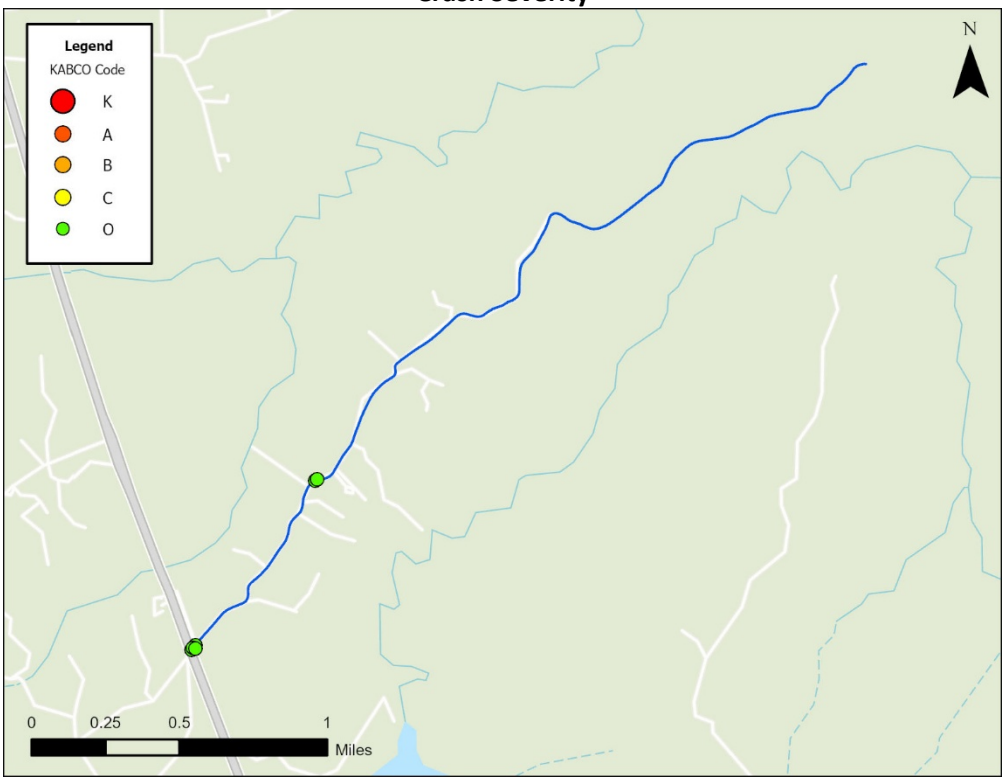
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4353	074-CR-1183 -000	PIGSKIN RD	18	4	2	20-40	✓	✓	✓

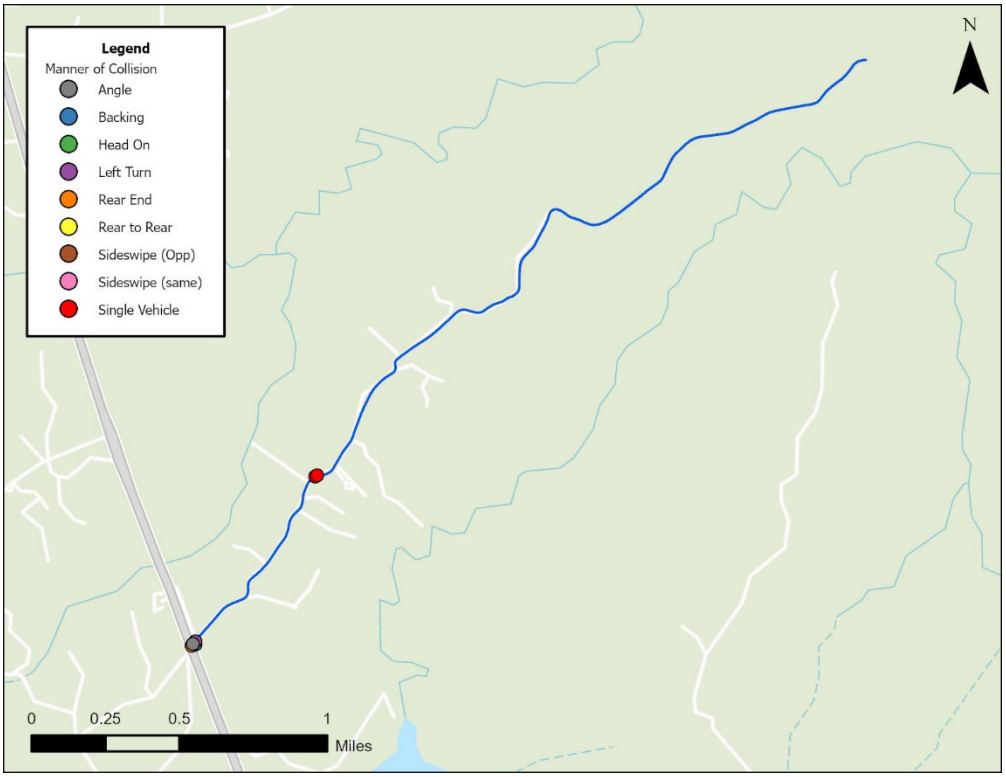
Roadway Typical Section



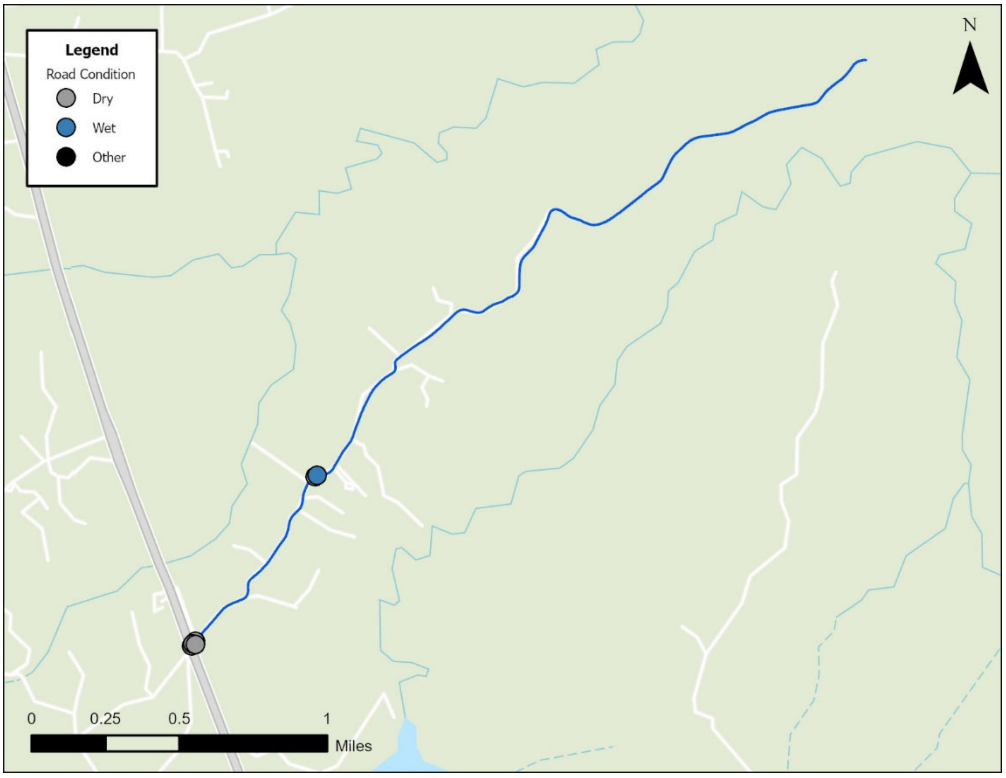
Crash Severity



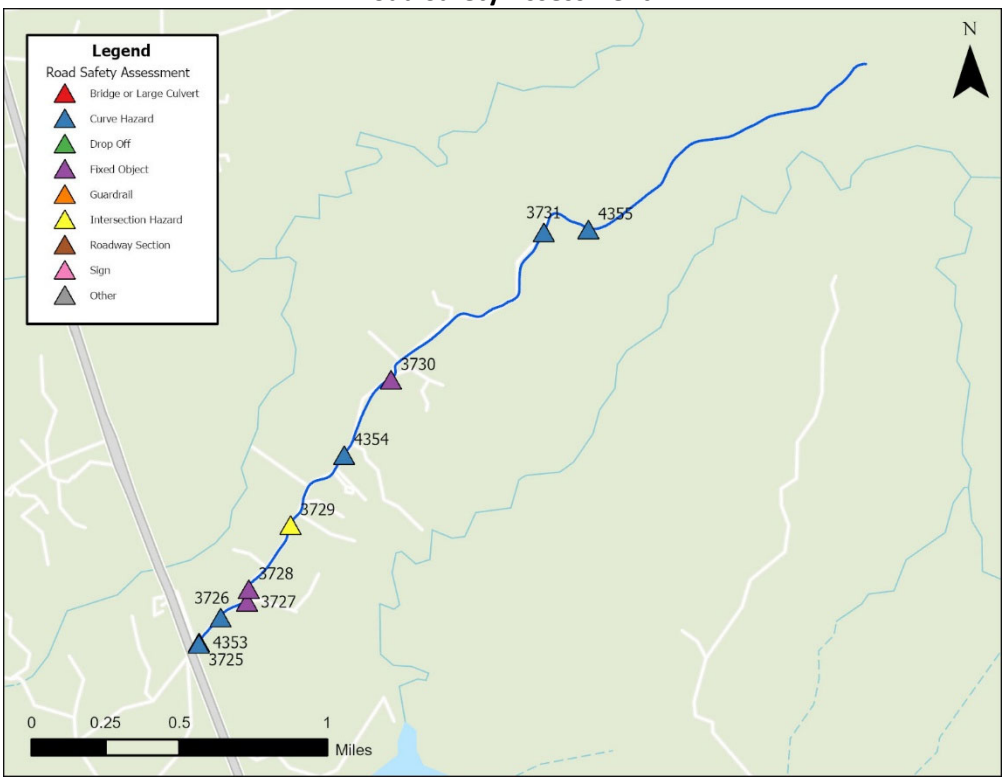
Manner of Collision



Road Conditions



Road Safety Assessment



General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4353	074-CR-1183 -000	PIGSKIN RD	18	4	2	20-40	✓	✓	✓

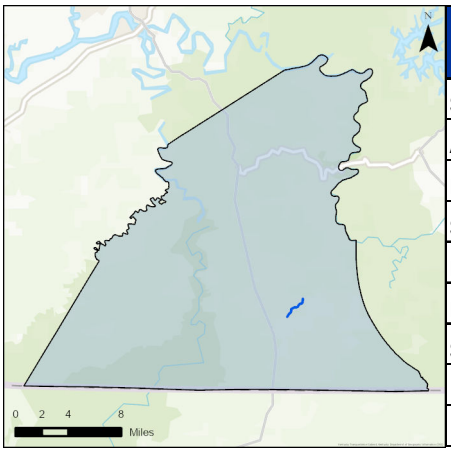
Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations	Other
3725	074-CR-1183 -000	PIGSKIN RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3726	074-CR-1183 -000	PIGSKIN RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3731	074-CR-1183 -000	PIGSKIN RD	Curve Obscured	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation	
4354	074-CR-1183 -000	PIGSKIN RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	Pigskin road is narrow in some spots and curves that is hard to see on coming traffic.
4355	074-CR-1183 -000	PIGSKIN RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	A lot of blind curves on this road that can cause hazards, road is narrow in spots and also long stretch of fences 3-5 feet from road way.

Point ID	RT_UNIQUE	RD_NAME	Object	Single / Series	Offset	Recommendations	Other
3727	074-CR-1183 -000	PIGSKIN RD	Tree	Single	1-3	Remove	
3728	074-CR-1183 -000	PIGSKIN RD	Utility Pole	Single	>5	--	
3730	074-CR-1183 -000	PIGSKIN RD	Other	Series	0-1	Consider removing/relocating fence	Fence

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
3729	074-CR-1183 -000	PIGSKIN RD	Intersection Obscured on Approa	Yes	Clear vegetation and evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)

AIRPORT RD (074-CR-1605F -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	1	1	0	**2**
Angle	1	0	0	**1**
Left Turn	0	0	0	**0**
SS - Opp	0	0	0	**0**
Head On	0	0	0	**0**
Backing	0	0	0	**0**
SS - Same	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

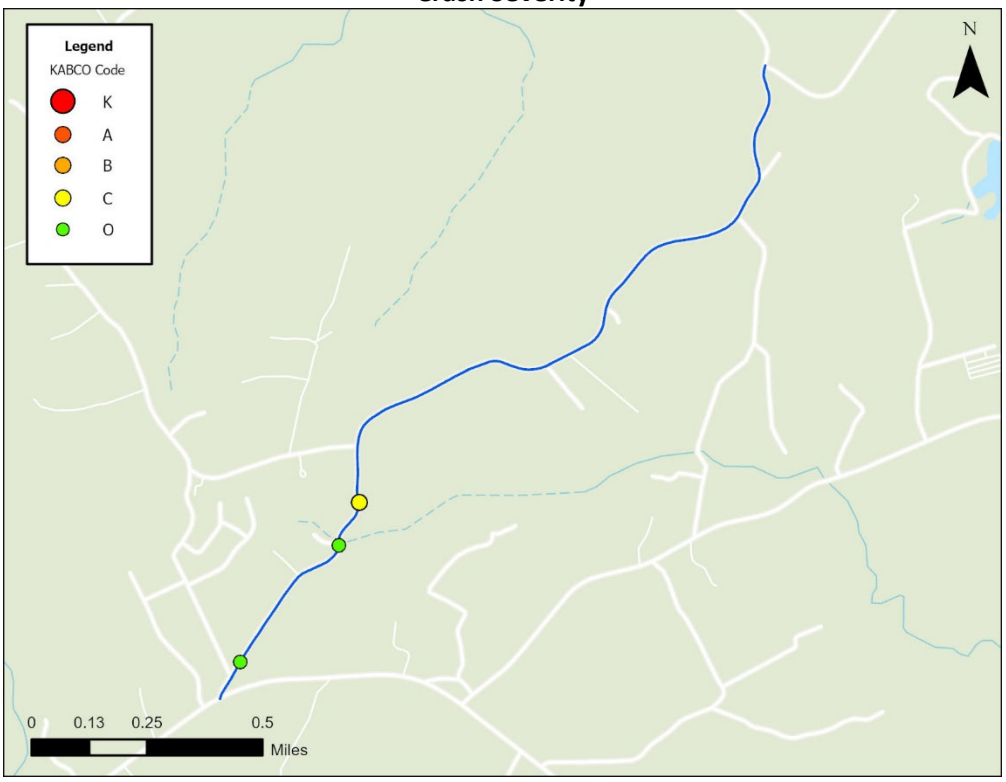
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4261	074-CR-1605F -000	AIRPORT RD	16	4	6	60-80	✓	✓	✓

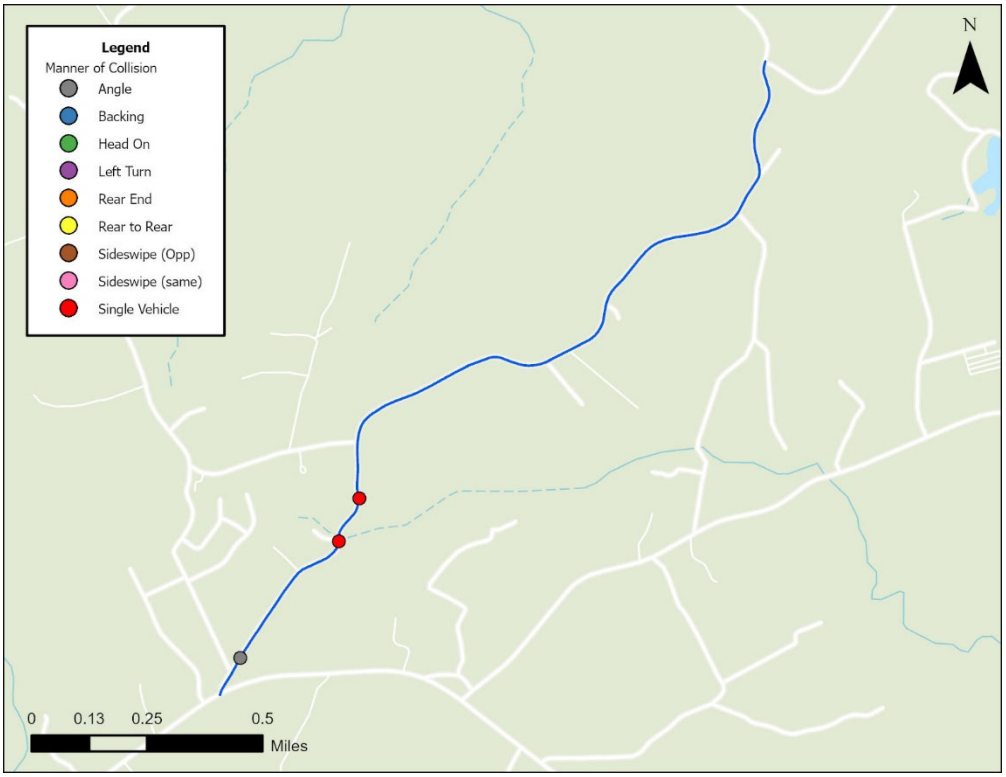
Roadway Typical Section



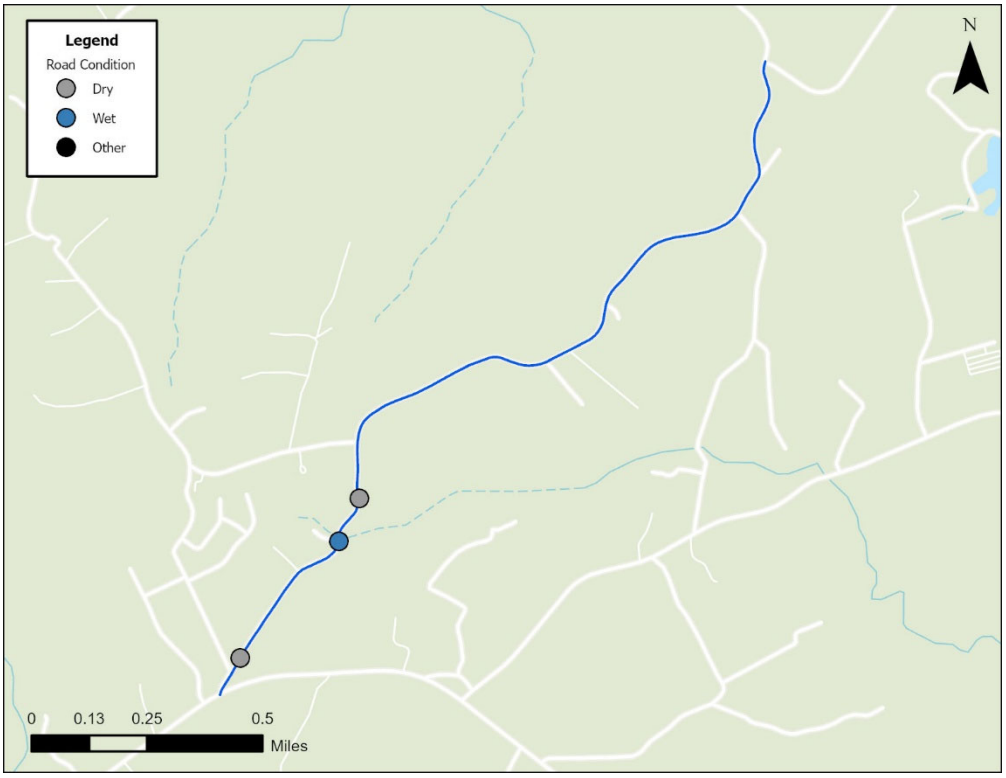
Crash Severity



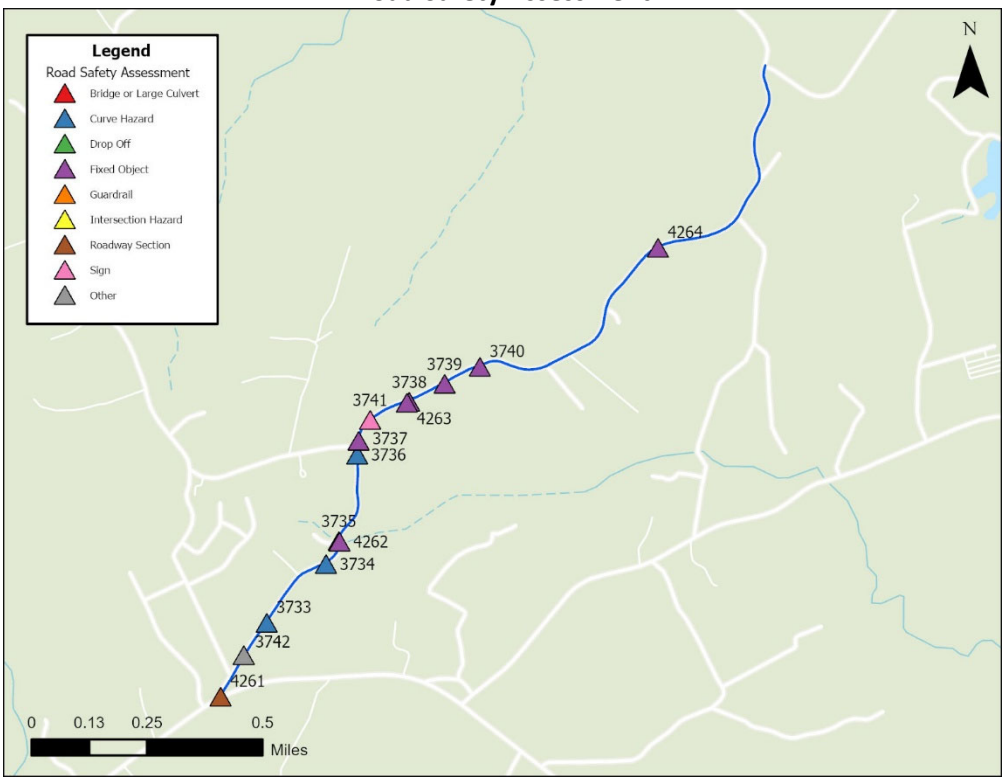
Manner of Collision



Road Conditions



Road Safety Assessment



General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4261	074-CR-1605F -000	AIRPORT RD	16	4	6	60-80	✓	✓	✓

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
3733	074-CR-1605F -000	AIRPORT RD	vegetation,Curve Obscured	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation
3734	074-CR-1605F -000	AIRPORT RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
3735	074-CR-1605F -000	AIRPORT RD	vegetation,Curve Obscured	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation
3736	074-CR-1605F -000	AIRPORT RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation

Point ID	RT_UNIQUE	RD_NAME	Object	Single / Series	Offset	Recommendations	Other
3737	074-CR-1605F -000	AIRPORT RD	Tree	Single	0-1	Remove	
3738	074-CR-1605F -000	AIRPORT RD	Tree	Series	0-1	Remove trees within 3 ft of roadway	
3739	074-CR-1605F -000	AIRPORT RD	Tree	Single	0-1	Remove	
3740	074-CR-1605F -000	AIRPORT RD	Tree	Single	1-3	Remove	
4262	074-CR-1605F -000	AIRPORT RD	Tree	Series	1-3	Remove trees within 3 ft of roadway	Trees really close to roadway
4263	074-CR-1605F -000	AIRPORT RD	Tree	Series	0-1	Remove trees within 3 ft of roadway	
4264	074-CR-1605F -000	AIRPORT RD	Tree	Series	1-3	Remove trees within 3 ft of roadway	Series of trees extremely close to road on approximately 50% of road.

Point ID	RT_UNIQUE	RD_NAME	Recommendations	Other
3742	074-CR-1605F -000	AIRPORT RD	Install "Hill Blocks View" Sign (W7-6)	Top of hill is hard to see over.

Other Roadways

General Roadway Conditions and Recommendations (McCreary County)

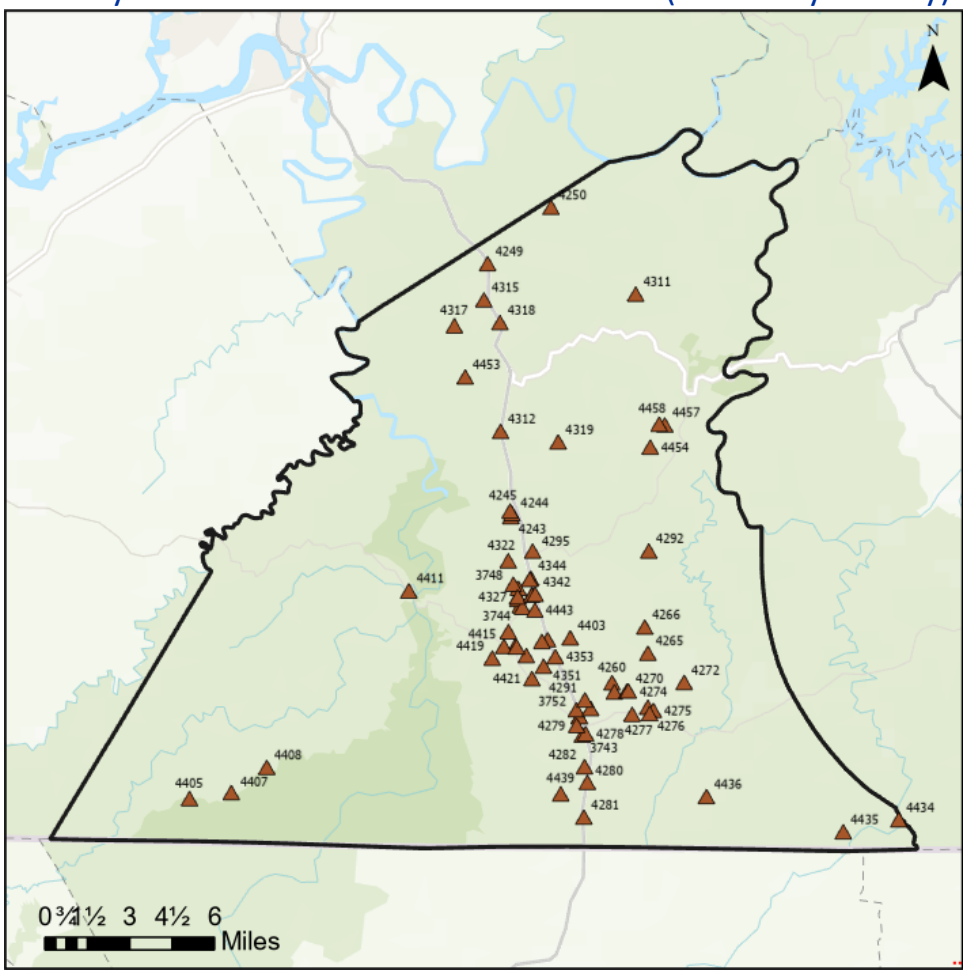


Exhibit McCreary-10: General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4261	074-CR-1605F -000	AIRPORT RD	16	4	6	60-80	✓	✓	✓
4277	074-CR-1640 -000	APPROACH RD	18	4	1	0-20		✓	✓
4249	074-CR-1333 -000	BAUER RD	19	1	1	60-80	✓	✓	✓
4250	074-CR-1333 -000	BAUER RD	19	1	1	60-80	✓	✓	✓
4405	074-CR-1229 -000	BEECH GROVE RD	16	4	6	20-40	✓	✓	✓
4407	074-CR-1229 -000	BEECH GROVE RD	14	4	4	40-60	✓	✓	✓
4408	074-CR-1229 -000	BEECH GROVE RD	14	4	4	20-40	✓	✓	✓
4269	074-CR-1605G -000	BRINKS RD	12	5	1	0-20		✓	✓
4270	074-CR-1605G -000	BRINKS RD	18	5	2	0-20		✓	✓
4442	074-CR-1289M -000	BRUCE ST	14	4	4	20-40	✓	✓	✓
4347	074-CR-1289B7-000	CABIN CREEK RD	24	4	1	0-20			✓
4348	074-CR-1289B7-000	CABIN CREEK RD	24	4	1	0-20			✓
4315	074-CR-1344 -000	COOPER CREEK RD	16	1	5	60-80	✓	✓	✓
4317	074-CR-1344 -000	COOPER CREEK RD	14	1	7	60-80	✓	✓	✓
4436	074-CR-1135 -000	CORDER FLATS RD	16	4	3	20-40	✓	✓	✓
4443	074-CR-1515 -000	CRIT KING SPUR	16	4	1	20-40	✓	✓	✓
4458	074-CR-1513D -000	EVERETT TAYLOR RD	14	4	2	20-40	✓	✓	✓
4243	074-FD-6061 -000	FD-6061	14	1	3	20-40	✓	✓	✓
4244	074-FD-6061 -000	FD-6061	14	2	1	20-40	✓	✓	✓
4245	074-FD-6061 -000	FD-6061	14	2	2	20-40	✓	✓	✓
4295	074-CR-1372E -000	HATFIELD SUBDIVISION RD	14	4	4	20-40	✓	✓	✓
4328	074-CR-1289TT-000	HEATH AND CHESTNUT RD	14	4	3	20-40	✓	✓	✓
3750	074-CR-1603E -000	HOGUE RD	10	3	3	0-20		✓	✓
3751	074-CR-1603E -000	HOGUE RD	10	3	3	0-20		✓	✓
3752	074-CR-1603E -000	HOGUE RD	10	3	3	0-20		✓	✓
4311	074-CR-1045 -000	HWY 3256	20	4	3	0-20			✓
4265	074-CR-1103 -000	INDIAN KNOB RD	12	4	7	60-80	✓	✓	✓
4266	074-CR-1103 -000	INDIAN KNOB RD	12	4	7	60-80	✓	✓	✓
4274	074-CR-1163 -000	JOSH HILL RD	18	5	1	0-20		✓	✓
4439	074-CR-1211 -000	KINGTOWN RD	15	4	2	0-20		✓	✓
4329	074-CR-1289L -000	KINNIE ST	14	2	2	40-60	✓	✓	✓
4324	074-CR-1290Y -000	KIZZIE CHITWOOD RD	16	4	2	0-20		✓	✓
4341	074-CR-1290Y -000	KIZZIE CHITWOOD RD	24	4	1	0-20			✓
4421	074-KY-0742 -000	KY-742	24	5	1	0-20			✓

Exhibit McCreary-11: General Roadway Recommendations (1/2)

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing	Other			
4403	074-CR-1606G -000	LAUREL ESTATES RD	15	3	2	20-40	✓	✓	✓				
4260	074-CR-1622 -000	LINK DR	20	4	1	0-20			✓				
4434	074-CR-1127 -000	LITTLE ROCK CREEK RD	14	1	6	80-100	✓	✓	✓				
4435	074-CR-1127 -000	LITTLE ROCK CREEK RD	14	1	7	80-100	✓	✓	✓				
4349	074-CR-1289D3-000	LOWER SHIRT FACTORY RD	18	4	1	20-40	✓	✓	✓				
4351	074-CR-1289D3-000	LOWER SHIRT FACTORY RD	16	4	4	20-40	✓	✓	✓				
4318	074-CR-1327 -000	MAC SWAIN CIR	20	4	3	0-20			✓				
4322	074-CR-1300H -000	MARSHES SIDING RD	14	4	3	20-40	✓	✓	✓				
4272	074-CR-1605U -000	MUDDY BRANCH RD	14	5	2	0-20		✓	✓				
4292	074-CR-1005 -000	NEW LIBERTY RD	16	4	4	40-60	✓	✓	✓				
3744	074-CR-1200 -000	OLD BAILEY RD	10	2	3	0-20		✓	✓				
3745	074-CR-1200 -000	OLD BAILEY RD	10	3	2	0-20		✓	✓				
3746	074-CR-1200 -000	OLD BAILEY RD	10	1	3	40-60	✓	✓	✓				
3747	074-CR-1200 -000	OLD BAILEY RD	10	3	1	0-20		✓	✓				
3748	074-CR-1200 -000	OLD BAILEY RD	10	2	3	40-60	✓	✓	✓				
4325	074-CR-1200 -000	OLD BAILEY RD	16	2	5	40-60	✓	✓	✓				
4327	074-CR-1200 -000	OLD BAILEY RD	16	2	2	40-60	✓	✓	✓				
4275	074-CR-1605Y -000	OLD MILL RD	11	4	6	20-40	✓	✓	✓				
4276	074-CR-1605Y -000	OLD MILL RD	11	4	6	20-40	✓	✓	✓				
4353	074-CR-1183 -000	PIGSKIN RD	18	4	2	20-40	✓	✓	✓				
4288	074-CR-1603L -000	PINE TREE RD	14	4	2	40-60	✓	✓	✓				
4291	074-CR-1603L -000	PINE TREE RD	11	4	2	40-60	✓	✓	✓				
4342	074-CR-1290CC-000	PUMP HOUSE RD	12	2	5	60-80	✓	✓	✓				
4279	074-CR-1601 -000	SOUTHERN HWY	24	4	4	0-20			✓				
4280	074-CR-1601 -000	SOUTHERN HWY	22	4	2	0-20			✓				
4444	074-CR-1290UU-000	SOUTHFORK CENTER ST	24	5	1	0-20			✓				
4281	074-CR-1600 -000	STRUNK HWY	22	4	2	0-20			✓				
4344	074-CR-1704 -000	STRUNK RIDGE RD	16	3	4	20-40	✓	✓	✓				
4282	074-CR-1199F -000	THOMPSON TAPLEY RD	12	1	7	80-100	✓	✓	✓				
4415	074-CR-1202 -000	TUNNEL RIDGE RD	15	4	4	20-40	✓	✓	✓				
4419	074-CR-1202 -000	TUNNEL RIDGE RD	14	4	3	0-20		✓	✓				
4454	074-CR-1062 -000	VANOVER RIDGE RD	14	4	2	20-40	✓	✓	✓				
4457	074-CR-1513A -000	VANOVER RIDGE SPUR	14	4	2	20-40	✓	✓	✓				
3743	074-CR-1602D -000	W CAL HILL SPUR	10	1	5	20-40	✓	✓	✓				
4278	074-CR-1602D -000	W CAL HILL SPUR	20	4	1	0-20			✓				
4312	074-CR-1314 -000	WIBORG LOOP RD	19	4	3	0-20		✓	✓				
4411	074-CR-1256 -000	WOLF CREEK RD	14	4	4	20-40	✓	✓	✓				
4453	074-CR-1334 -000	YANCEY STRUNK CEMETERY RD	14	4	1	0-20		✓	✓				
4319	074-CR-1063 -000	ZEB PERRY RD	12	4	6	60-80	✓	✓	✓				

Exhibit McCreary-11: General Roadway Recommendations (2/2)

Bridge / Culvert Recommendations (McCreary County)

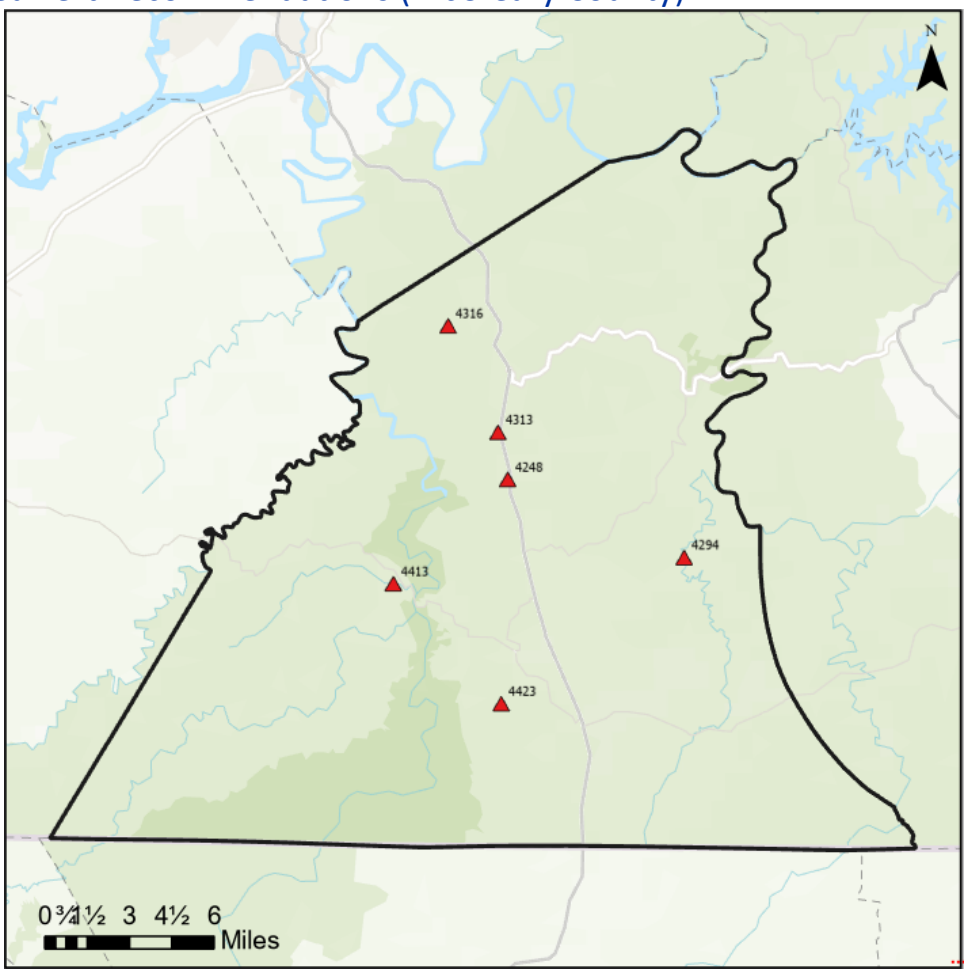


Exhibit McCreary-12: Bridge / Culvert Locations

Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations	Other
4316	074-CR-1344 -000	COOPER CREEK RD	12	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.	Very small creek crossing that can't be accessed when high water, limited access.
4248	074-FD-6061 -000	FD-6061	30	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing.	
4423	074-KY-0742 -000	KY-742	20	4	2	Install Type 3 Object Markers where missing.	Bridge in very good condition, guard rails on both sides.
4294	074-CR-1005 -000	NEW LIBERTY RD	14	2	0	Evaluate the need for guardrail on missing approaches. Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.	BRIDGE VERY NARROW AND ROADWY COMING DOWN FROM BOTH SIDES IS OBSTRUCTED BY SHARP CURVES, HARD TO SEE COMING FROM BOTH DIRECTIONS.
4313	074-CR-1314 -000	WIBORG LOOP RD	20	2	2	Evaluate the need for guardrail on missing approaches. Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing.	Bridge on Wiborg loop road, no hazards noted
4413	074-CR-1256 -000	WOLF CREEK RD		0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing.	Very narrow bridge that only one vehicle can pass at a time.

Exhibit McCreary-13: Bridge / Culvert Recommendations

Curve Recommendations (McCreary County)

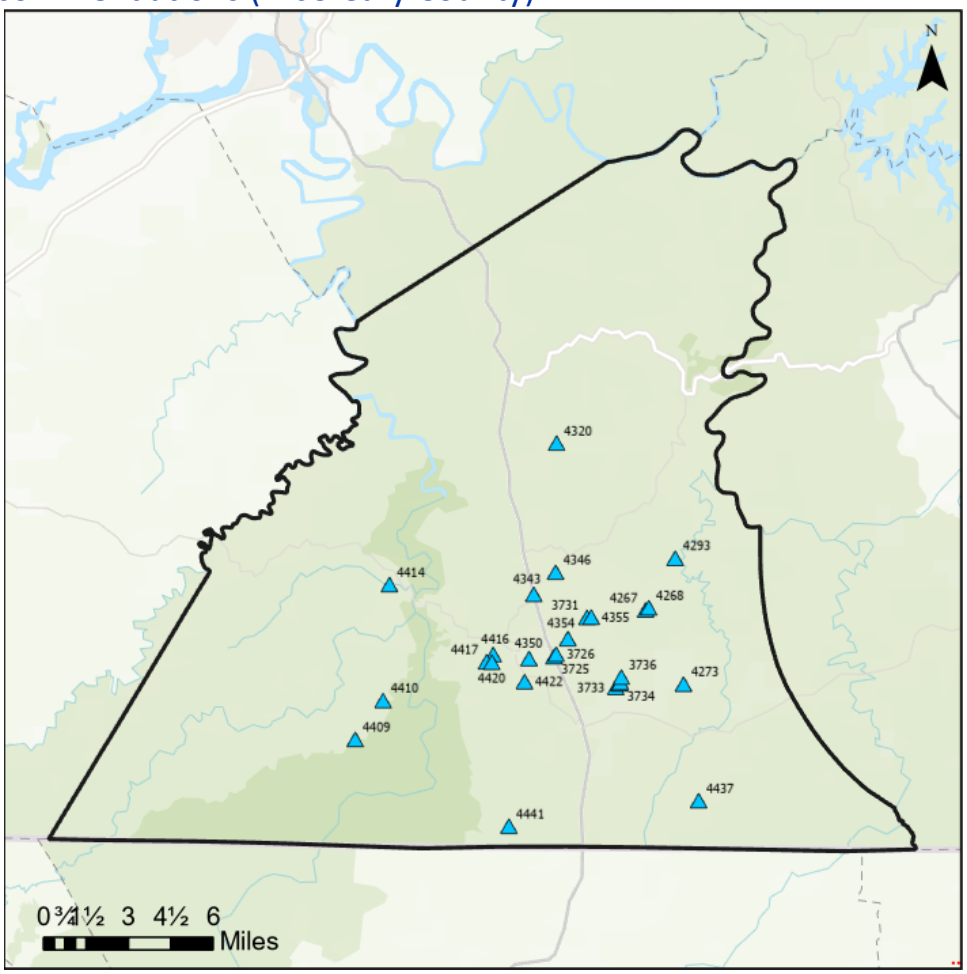


Exhibit McCreary-14: Focus Road Curves

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations	Other
3725	074-CR-1183 -000	PIGSKIN RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3726	074-CR-1183 -000	PIGSKIN RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3731	074-CR-1183 -000	PIGSKIN RD	Curve Obscured	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation	
3733	074-CR-1605F -000	AIRPORT RD	vegetation,Curve Obscured	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation	
3734	074-CR-1605F -000	AIRPORT RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3735	074-CR-1605F -000	AIRPORT RD	vegetation,Curve Obscured	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation	
3736	074-CR-1605F -000	AIRPORT RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
4267	074-CR-1103 -000	INDIAN KNOB RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	Hidden curves, even worse in the summer with vegetation on trees
4268	074-CR-1103 -000	INDIAN KNOB RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	Extreme sharp curves, narrow road.
4273	074-CR-1605U -000	MUDDY BRANCH RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	Hard to see around curves due to trees
4293	074-CR-1005 -000	NEW LIBERTY RD	Curve Obscured	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation	Very steep curves going over to creek, visibility even worse in the summer when vegetation is leaved out
4320	074-CR-1063 -000	ZEB PERRY RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	Some sharp curves are hard to see around and only one lane and not able to pass.
4343	074-CR-1290CC-000	PUMP HOUSE RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	Steep curve that's hard to see around, no turn around, you have to back out. Hazardous.
4346	074-CR-1704 -000	STRUNK RIDGE RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	Road way has some steep hills and you can't see on coming traffic and could cause an accident.
4350	074-CR-1289D3-000	LOWER SHIRT FACTORY RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	Some steep curves, low visibility but some curves
4354	074-CR-1183 -000	PIGSKIN RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	Pigskin road is narrow in some spots and curves that is hard to see on coming traffic.
4355	074-CR-1183 -000	PIGSKIN RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	A lot of blind curves on this road that can cause hazards, road is narrow in spots and also long stretch of fences 3-5 feet from road way.
4409	074-CR-1229 -000	BEECH GROVE RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	Road way very steep with steep curves that's hard to see around.
4410	074-CR-1229 -000	BEECH GROVE RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	Very curves and hard to see oncoming traffic, road just wide enough for one vehicle in most places on all of road way.
4414	074-CR-1256 -000	WOLF CREEK RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	Very steep hill and very steep curves that can be very hazardous especially in rainy or snowy weather conditions.
4416	074-CR-1202 -000	TUNNEL RIDGE RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	Some steep hills and curves, hard to see around and over which could cause accidents.
4417	074-CR-1202 -000	TUNNEL RIDGE RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	Very curvey and narrow with drop off with no guard rails and trees close to road.
4420	074-CR-1297B -000	SPORTSMAN CLUB RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	Steep curves and hard to see on coming traffic.
4422	074-KY-0742 -000	KY-742	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	It is a curvy due to the terrain, but does have guard rails.
4437	074-CR-1135 -000	CORDER FLATS RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	Very curvy road due to mountainous area, some curves had to see oncoming traffic.
4441	074-CR-1211 -000	KINGTOWN RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	Curvy road, some curves hard to see oncoming traffic and road very narrow so no where to go when meeting traffic.

Exhibit McCreary-15: Curve Recommendations

Roadside Drop Off Recommendations (McCreary County)

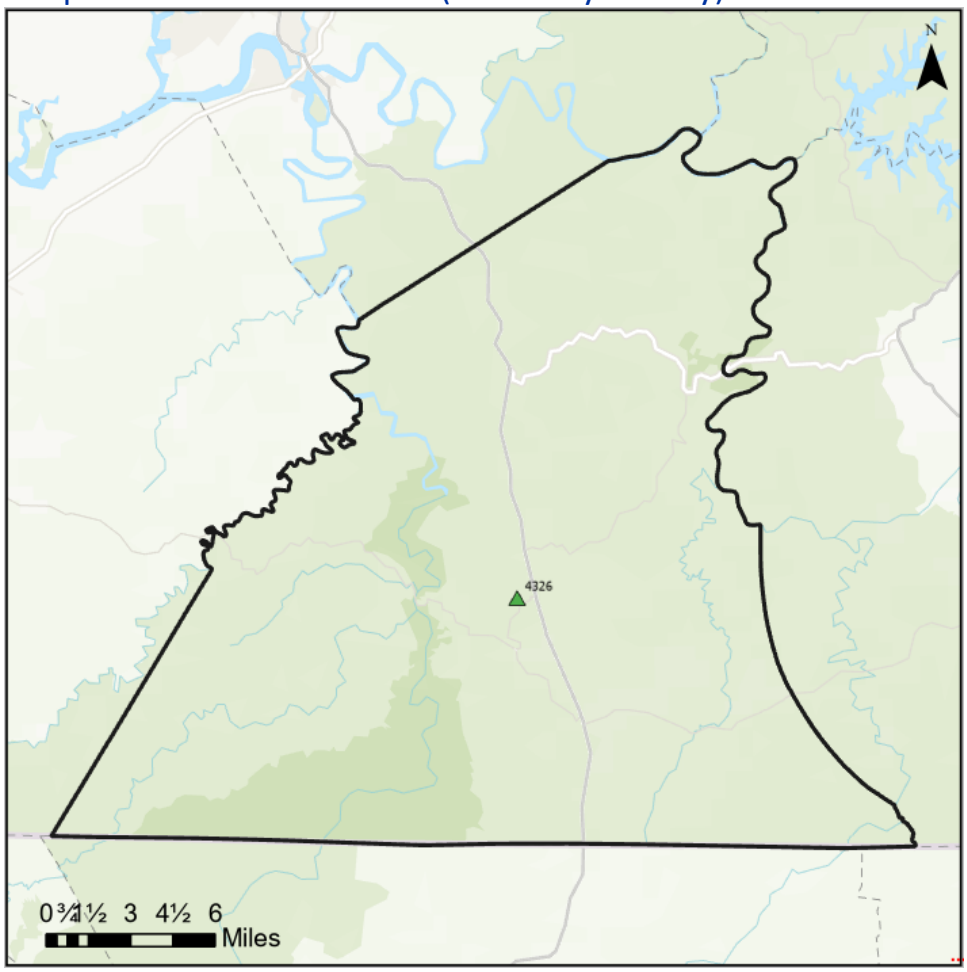


Exhibit McCreary-16: Roadside Drop Off Locations

Point ID	RT_UNIQUE	RD_NAME	Drop Off Offset	Drop Off Height	Recommendations	Other
4326	074-CR-1200 -000	OLD BAILEY RD	>5	>10	--	Very steep hill at the ladder part of the road, very hazardous especially in winter months

Exhibit McCreary-17: Roadside Drop Off Recommendations

Fixed Object Recommendations (McCreary County)

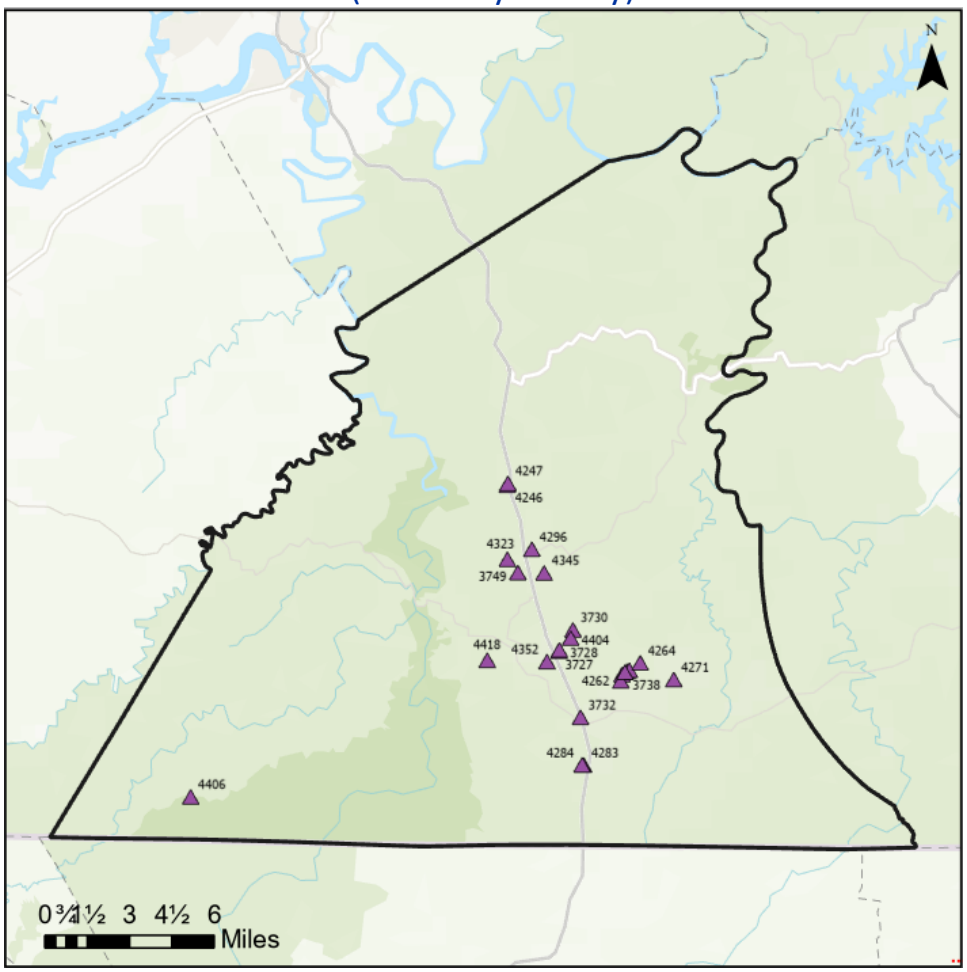


Exhibit McCreary-18: Fixed Object Locations

Point ID	RT_UNIQUE	RD_NAME	Object	Single / Series	Offset	Recommendations	Other
3737	074-CR-1605F -000	AIRPORT RD	Tree	Single	0-1	Remove	
3738	074-CR-1605F -000	AIRPORT RD	Tree	Series	0-1	Remove trees within 3 ft of roadway	
3739	074-CR-1605F -000	AIRPORT RD	Tree	Single	0-1	Remove	
3740	074-CR-1605F -000	AIRPORT RD	Tree	Single	1-3	Remove	
4262	074-CR-1605F -000	AIRPORT RD	Tree	Series	1-3	Remove trees within 3 ft of roadway	Trees really close to roadway
4263	074-CR-1605F -000	AIRPORT RD	Tree	Series	0-1	Remove trees within 3 ft of roadway	
4264	074-CR-1605F -000	AIRPORT RD	Tree	Series	1-3	Remove trees within 3 ft of roadway	Series of trees extremely close to road on approximately 50% of road.
4406	074-CR-1229 -000	BEECH GROVE RD	Tree	Series	1-3	Remove trees within 3 ft of roadway	Trees close to road all the length of gravel part of road.
4246	074-FD-6061 -000	FD-6061	Tree	Series	0-1	Remove trees within 3 ft of roadway	
4247	074-FD-6061 -000	FD-6061	Other	Series	0-1	Evaluate fixed object	
4296	074-CR-1372E -000	HATFIELD SUBDIVISION RD	Other	Series	0-1	Work with home owner to relocate	Vehicles parked close to roadway
4404	074-CR-1606G -000	LAUREL ESTATES RD	Other	Series	1-3	Relocate Vehicles and remove trees if feasible	Numerous trees and vehicles parked close to road way.
4323	074-CR-1300H -000	MARSHES SIDING RD	Other	Series	>5	--	Very high hump in road way in 2 different spots, cannot see vehicles coming from either direction and road is very narrow.
3749	074-CR-1200 -000	OLD BAILEY RD	Other	Single	1-3	Consider removing/relocating fence	Fence pole
3727	074-CR-1183 -000	PIGSKIN RD	Tree	Single	1-3	Remove	
3728	074-CR-1183 -000	PIGSKIN RD	Utility Pole	Single	>5	--	
3730	074-CR-1183 -000	PIGSKIN RD	Other	Series	0-1	Consider removing/relocating fence	Fence
4345	074-CR-1704 -000	STRUNK RIDGE RD	Other	Series	1-3	Consider removing/relocating fence	Fence and trees close to roadway, can be hazardous.
4271	074-CR-1605R -000	SWAIN RD	Other	Series	1-3	Consider removing/relocating fence	Fence close to roadway in numerous spots
4283	074-CR-1199F -000	THOMPSON TAPLEY RD	Other	Series	0-1	Work with home owner to relocate	Junked vehicles
4284	074-CR-1199F -000	THOMPSON TAPLEY RD	Other	Series	0-1	Work with home owner to relocate	Junked cars
4418	074-CR-1202 -000	TUNNEL RIDGE RD	Other	Series	3-5	--	This part of the road is really congested due to garages and vehicles and trees very close to the road.
4352	074-CR-1289ZZ-000	VALLEY RD	Tree	Series	1-3	Remove trees within 3 ft of roadway	Trees close to road that can cause hazards.

Exhibit McCreary-19: Fixed Object Recommendations

Intersection Recommendations (McCreary County)

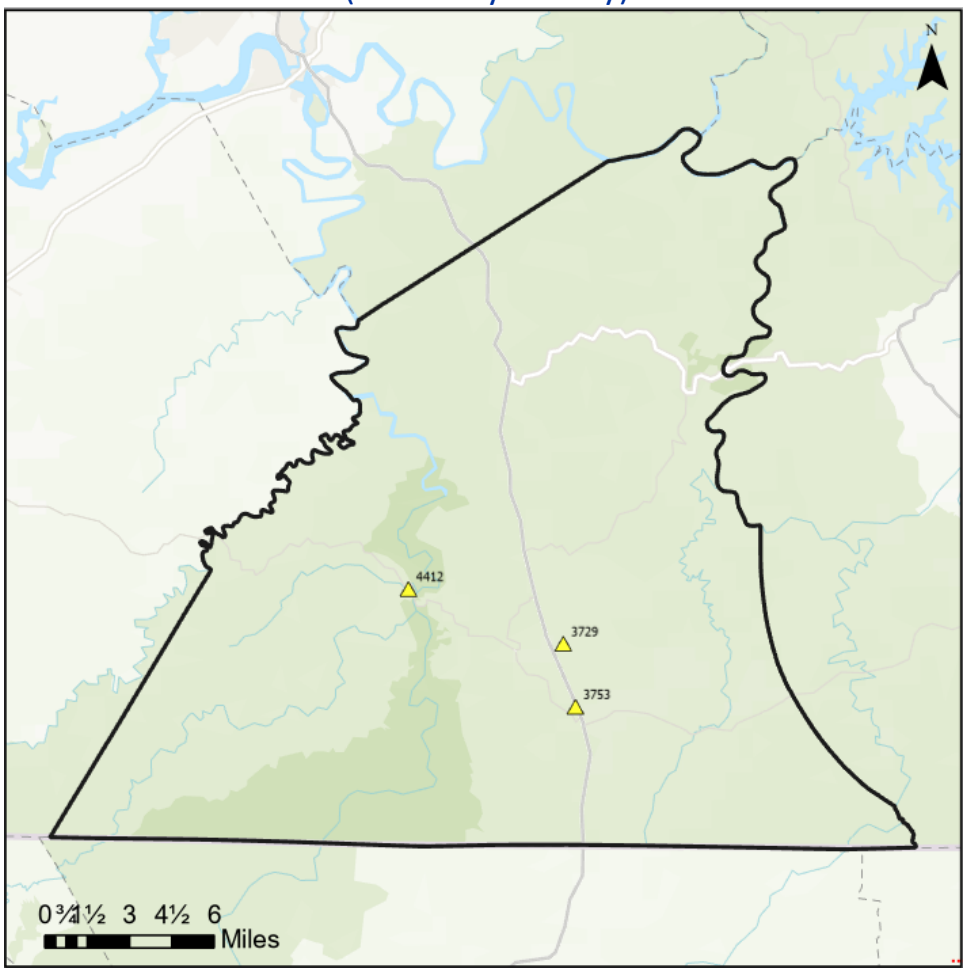


Exhibit McCreary-20: Intersection Locations

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations	Other
3729	074-CR-1183 -000	PIGSKIN RD	Intersection Obscured on Approa	Yes	Clear vegetation and evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)	
4412	074-CR-1256 -000	WOLF CREEK RD	Intersection Obscured on Approa	No	Evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)	Steep hills on one lane road that you can't see over and drive way on back side of hill. Can be hazardous.

Exhibit McCreary-21: Intersection Recommendations

Other Recommendations (McCreary County)

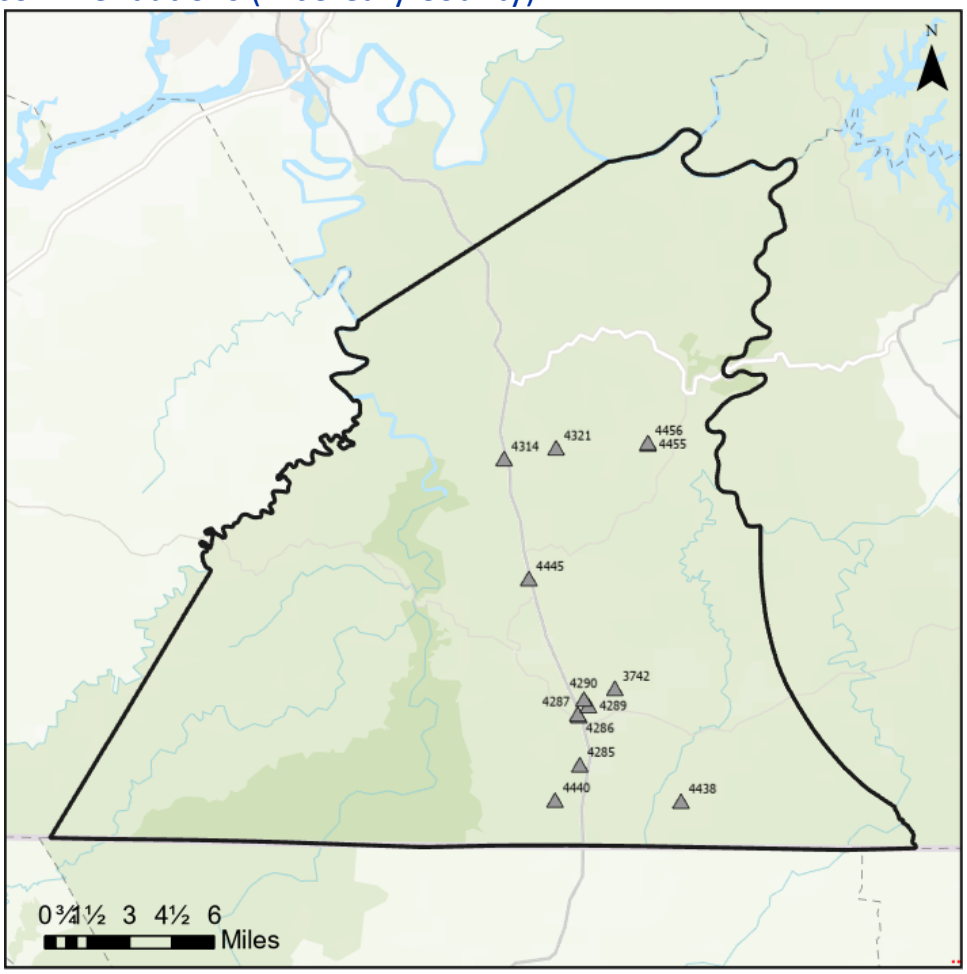


Exhibit McCreary-22: Other Locations

Point ID	RT_UNIQUE	RD_NAME	Recommendations	Other
3742	074-CR-1605F -000	AIRPORT RD	Install "Hill Blocks View" Sign (W7-6)	Top of hill is hard to see over.
4285	074-CR-1199F -000	THOMPSON TAPLEY RD	remove vehicles	Junked cars all up and down the road, road stays muddy and rough all the time.
4289	074-CR-1603L -000	PINE TREE RD	evaluate need to remove trees	Big trees close to road way.
4290	074-CR-1603L -000	PINE TREE RD	evaluate need to remove trees	Trees very close to roadway.
4314	074-CR-1314 -000	WIBORG LOOP RD	Review RR crossing	Railroad crossing on Wiborg loop Road
4321	074-CR-1063 -000	ZEB PERRY RD	Review	This road is very narrow and is also the place of a horse camp that has big trucks and trailers and has no where to get by other vehicles, making it very hazardous.
4438	074-CR-1135 -000	CORDER FLATS RD	Review	Very high hills that is hard to see over when oncoming traffic is approaching, no hazards along the sides of the road, only hazards are due to mountainous terrain.
4440	074-CR-1211 -000	KINGTOWN RD	Consider removing/relocating fence	Fence close to roadway in some spots.
4445	074-CR-1290UU-000	SOUTHFORK CENTER ST	Review RR crossing	Railroad crossing; has arms that comes down and flashing warning lights.
4455	074-CR-1062 -000	VANOVER RIDGE RD	evaluate need to remove trees	Tree hazard all along the road numbers trees close to roadway that can cause accidents.
4456	074-CR-1062 -000	VANOVER RIDGE RD	Review	Very high hills that you can't see over when meeting oncoming traffic.

Exhibit McCreary-23: Other Recommendations

Signing Recommendations (McCreary County)

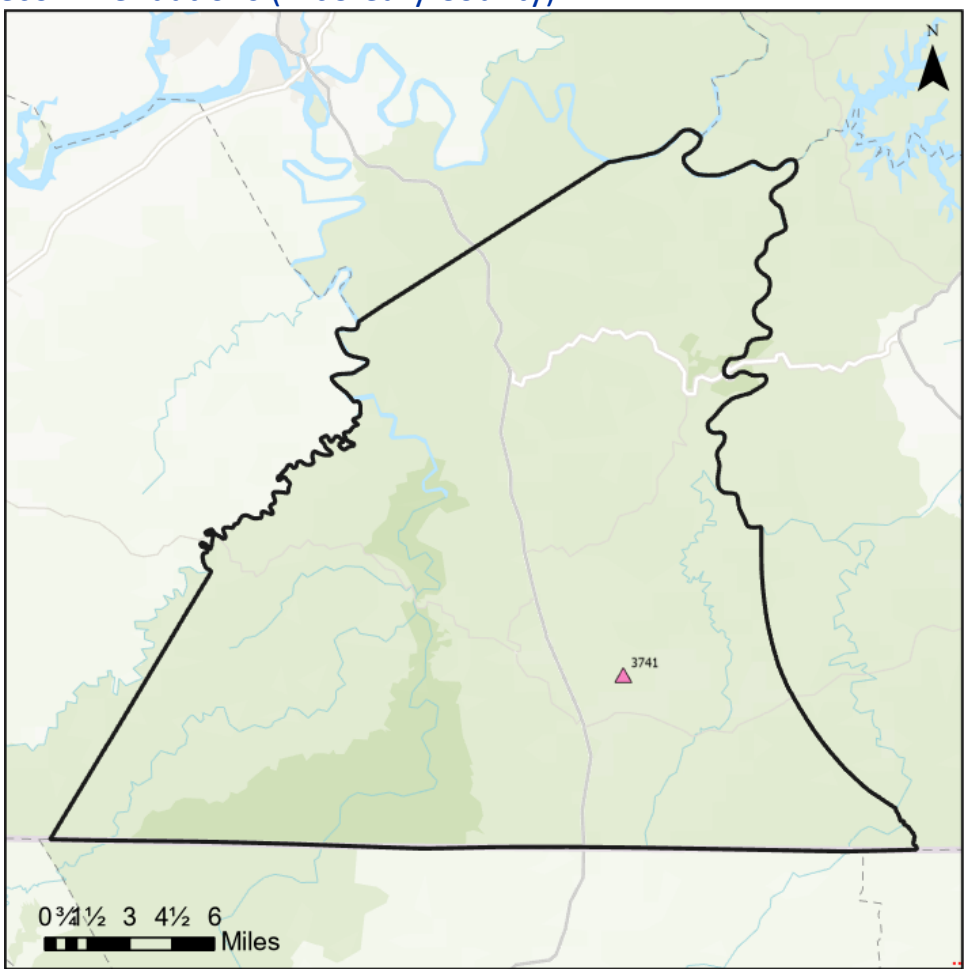


Exhibit McCreary-24: Sign Locations

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/LCADDSAP.

APPENDIX J: PULASKI COUNTY SAFETY ACTION PLAN

Pulaski County Overview

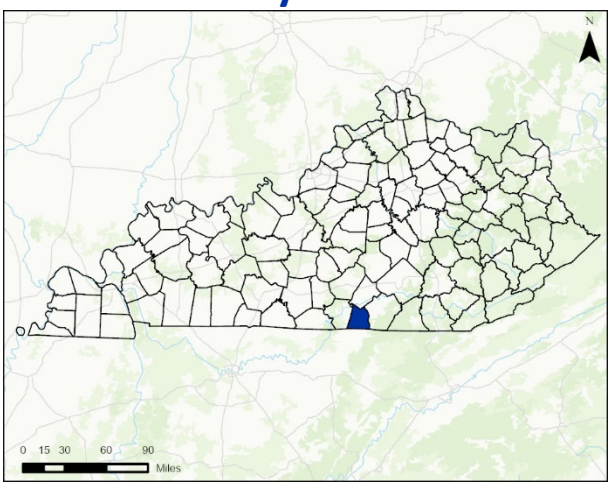


Exhibit Pulaski-1: Location Map

Key Information Table Pulaski County	
Population	66,191
Population in Persistent Poverty	22%
Underserved Community	**No**
Fatalities (All Roads)	71
Fatalities (County Roads)	6
Fatality Rate per 100,000 persons	**107.27**
County Road Mileage	1151.9
State Road Mileage	424.8
Total Mileage	**1576.7**

Exhibit Pulaski-2: Key Information

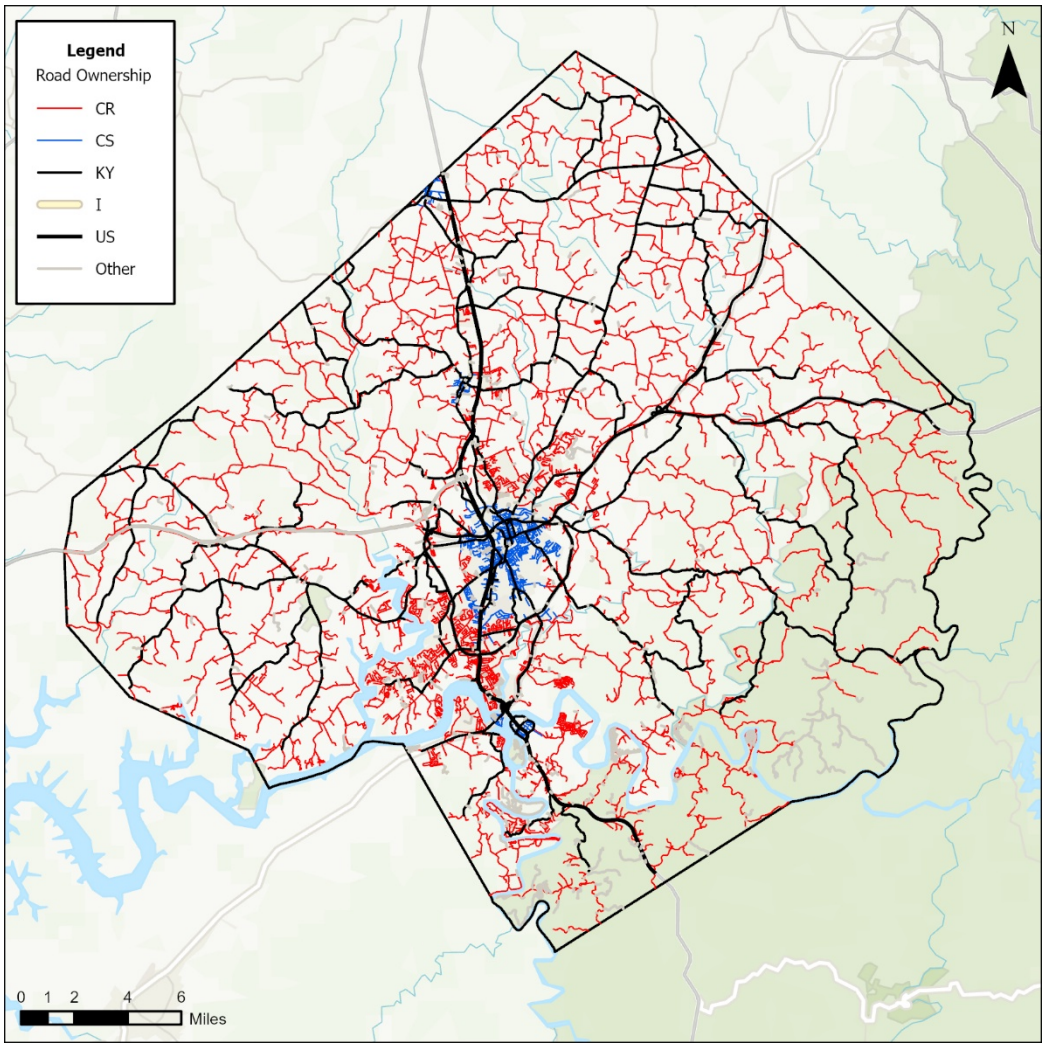


Figure Pulaski-3: Map of County Roadways

Crash Analysis

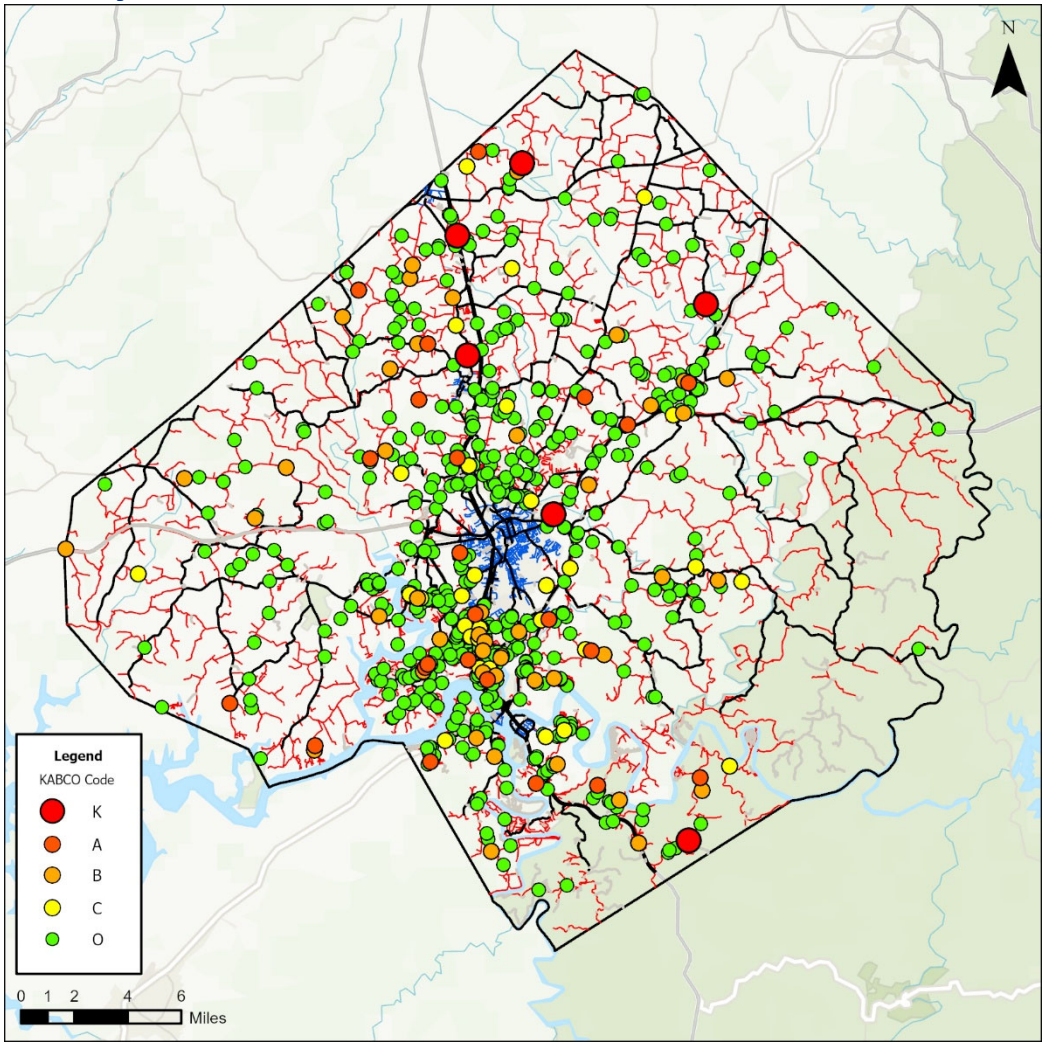
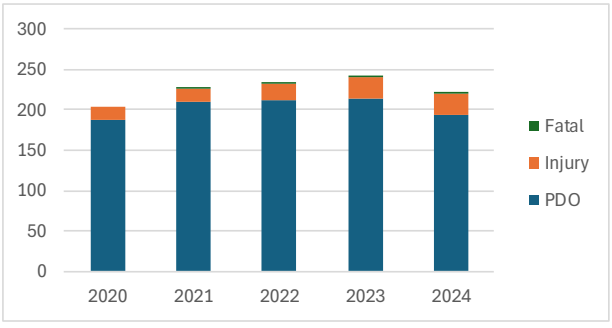


Figure Pulaski-4: Map of County Road Crashes



Year	Property Damage Only	Injury	Fatal	Total
2020	188	16	0	**204**
2021	210	17	1	**228**
2022	211	21	1	**233**
2023	214	27	1	**242**
2024	194	26	3	**223**

Table Pulaski-5: Crash Distribution by Year

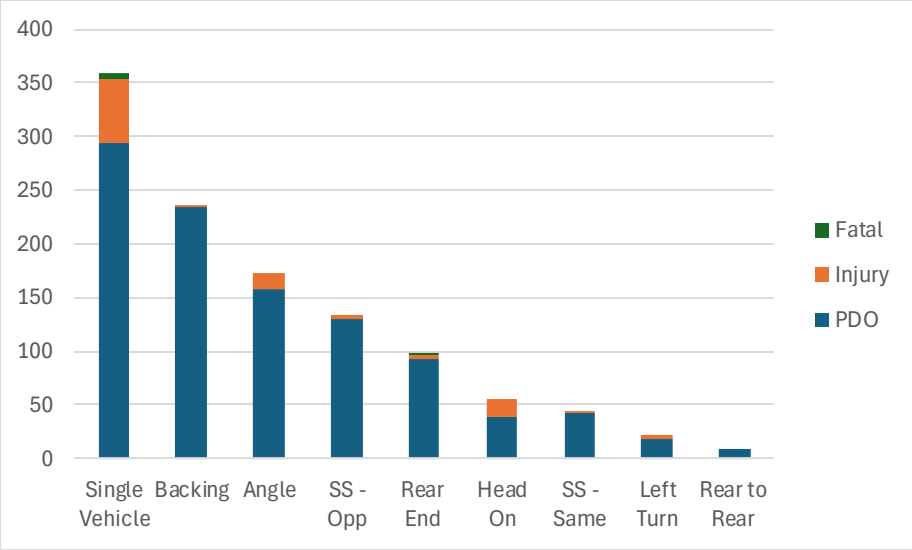


Exhibit Pulaski-6: Crash Frequency and Severity by Manner of Collision

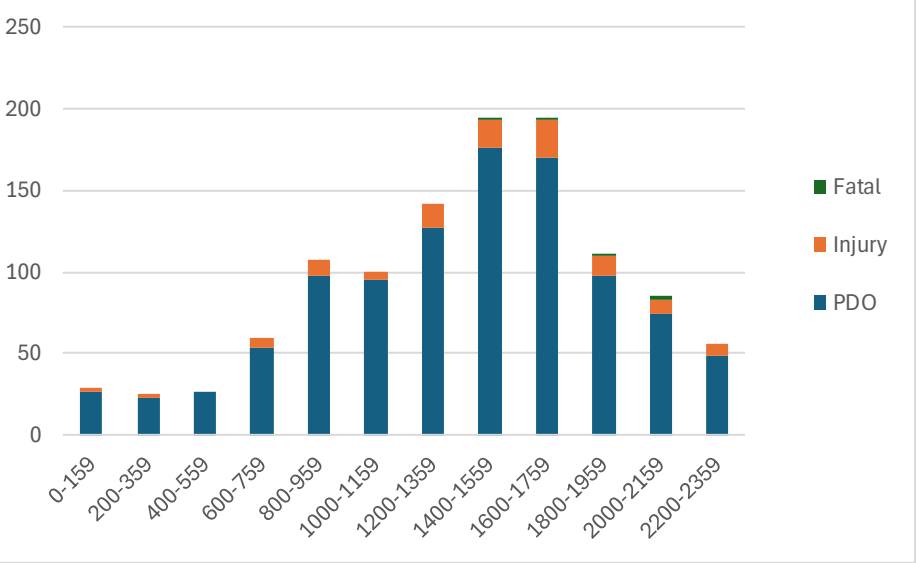


Exhibit Pulaski-7: Crashes and Severity by Time of Day

Focus Roadways

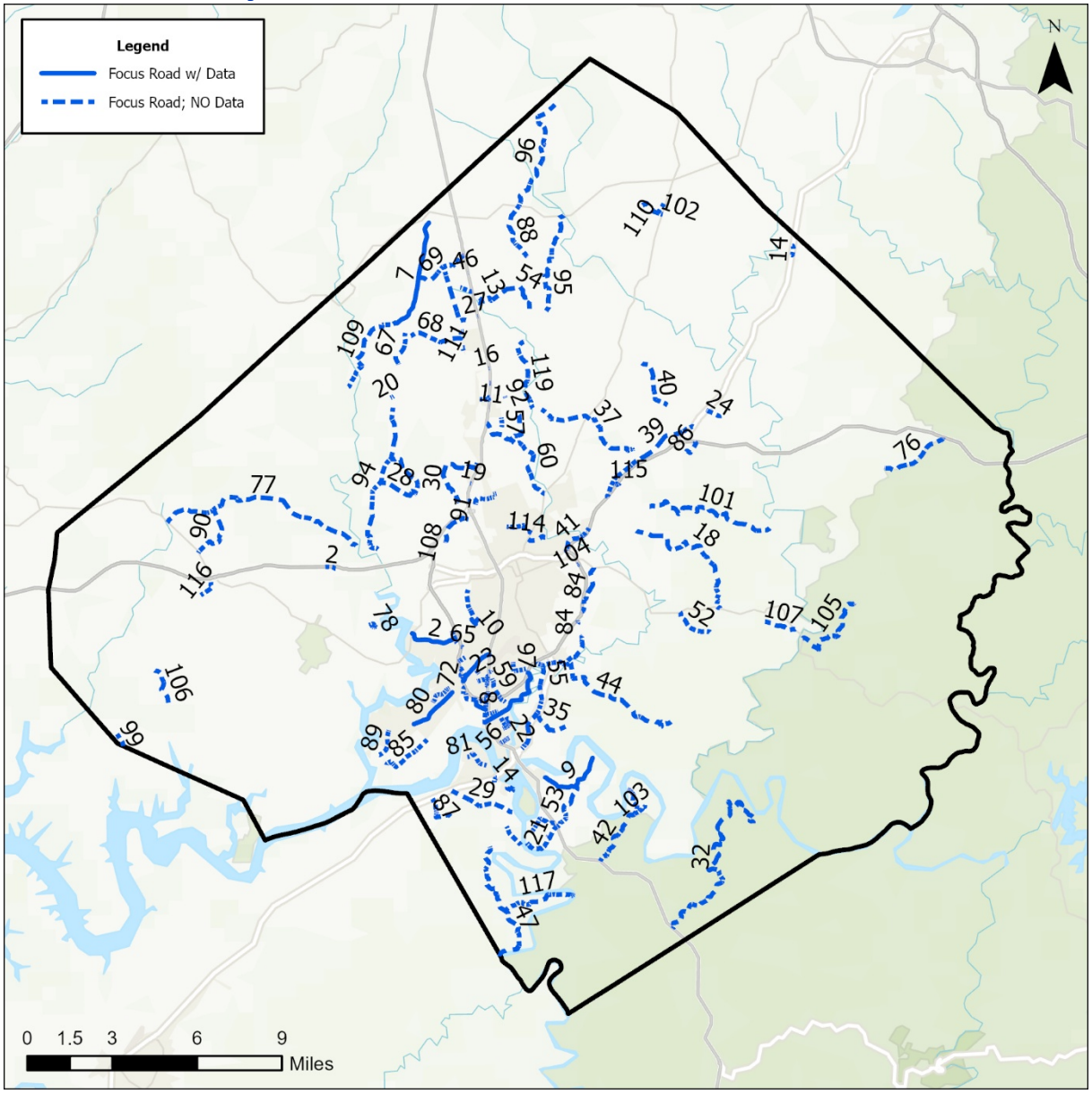


Exhibit Pulaski-8: Focus Roads

RT_UNIQUE	Length	County	Road Name	Injury Crashes	Fatal Crashes	PDO	CrashScore	UseScore	Rank	Focus Road	Data Point	Roadway Data
Pulaski County												
100-CR-1485 -000	**1.4**	**Pulaski**	**BOURBON RD**	**1**	**4**	**52**	**3.06**	**2.63**	**1**	**1**	**3**	**1**
100-CR-1483 -000	**1.7**	**Pulaski**	**PATTERSON BRANCH RD**	**0**	**3**	**39**	**2.02**	**3.51**	**2**	**1**	**2**	**1**
100-CR-2168 -000	0.4	Pulaski	ELMER ABBOTT RD	0	0	0	0.00	#DIV/0!	2	1	0	0
100-CR-1378 -000	**1.8**	**Pulaski**	**FERRY RD**	**4**	**2**	**29**	**2.85**	**1.54**	**3**	**1**	**3**	**1**
100-CR-1483A -000	0.5	Pulaski	WTLO RD	1	2	8	1.40	2.95	4	1	0	0
100-CR-1338 -000	**2.9**	**Pulaski**	**BOAT DOCK RD**	**2**	**3**	**28**	**2.56**	**0.23**	**5**	**1**	**15**	**3**
100-CR-1340J -000	**0.5**	**Pulaski**	**EARL NEELY RD**	**0**	**0**	**2**	**0.03**	**2.69**	**6**	**1**	**4**	**3**
100-CR-1583 -000	**3.9**	**Pulaski**	**WEST RIDGE RD**	**2**	**0**	**5**	**2.48**	**0.23**	**7**	**1**	**2**	**2**
100-CR-1340T -000	0.1	Pulaski	IMOGENE DR	0	0	0	0.00	2.64	8	1	0	0
100-CR-1284 -000	**2.5**	**Pulaski**	**ANTIOCH CHURCH RD**	**3**	**2**	**7**	**2.11**	**0.45**	**9**	**1**	**3**	**2**
100-CR-2064 -000	**0.2**	**Pulaski**	**DECK DR**	**0**	**0**	**3**	**0.05**	**2.51**	**10**	**1**	**3**	**1**
100-CR-2010 -000	0.0	Pulaski	ACCESS RD 3	0	0	0	0.00	2.52	11	1	0	0
100-CR-2114 -000	0.1	Pulaski	ROSE POINT	0	0	0	0.00	2.51	12	1	0	0
100-CR-2133 -000	0.3	Pulaski	AMYS WAY	0	0	0	0.00	2.51	13	1	0	0
100-CR-1948 -000	0.4	Pulaski	JAMES LATHAM RD	0	0	0	0.00	2.50	14	1	0	0
100-CR-1370E -030	0.0	Pulaski	DENNY LN X	0	0	0	0.00	2.50	14	1	0	0
100-CR-2018 -000	0.0	Pulaski	ACCESS RD 6 LT	0	0	0	0.00	2.29	16	1	0	0
100-CR-1520D -000	0.4	Pulaski	BODIE RD	0	0	1	0.02	2.22	17	1	0	0
100-CR-1007 -000	5.4	Pulaski	PINEY GROVE RD-DRUM	3	2	3	2.04	0.15	18	1	0	0
100-CR-2053 -000	0.0	Pulaski	ACCESS RD LT	0	0	0	0.00	2.07	19	1	0	0
100-CR-1792 -000	0.1	Pulaski	ANDERSON VALLEY RD	1	0	0	2.03	0.02	20	1	0	0
100-CR-1896 -000	0.1	Pulaski	JORDAN LN	1	0	0	2.03	0.01	21	1	0	0
100-CR-1494V -000	0.5	Pulaski	SCENIC VISTA DR	0	0	3	1.72	0.32	22	1	0	0
100-CR-1354Q4-000	0.1	Pulaski	KIT COWAN RD	1	2	9	1.42	0.55	23	1	0	0
100-CR-1005Q1-000	0.6	Pulaski	PIN OAK DR	0	0	8	0.14	1.80	24	1	0	0
100-CR-1351P -000	0.3	Pulaski	RIDGEWOOD DR	0	0	2	1.70	0.22	25	1	0	0
100-CR-1672 -000	1.9	Pulaski	BETHLEHEM RIDGE RD	0	0	3	0.05	1.84	26	1	0	0
100-CR-2032 -000	0.0	Pulaski	ACCESS RD 2	0	0	0	0.00	1.68	27	1	0	0
100-CR-1673 -000	1.6	Pulaski	CLIFTY RD	2	1	2	1.21	0.43	28	1	0	0
100-CR-1360 -000	2.4	Pulaski	JACKSBORO RD	1	2	2	1.30	0.22	29	1	0	0
100-CR-1669 -000	2.8	Pulaski	OLD SALTS RD	1	2	4	1.33	0.18	30	1	0	0
100-CR-2015 -000	0.1	Pulaski	ACCESS RD 5	0	0	0	0.00	1.46	31	1	0	0
100-CR-1230 -000	8.8	Pulaski	BLUE JOHN RD	2	1	4	1.25	0.13	32	1	0	0
100-CR-1370E -000	0.2	Pulaski	DENNY LN	1	0	3	0.42	0.86	33	1	0	0
100-CR-1445Q3-000	0.4	Pulaski	PARKERS MILL WAY	1	1	15	1.07	0.19	34	1	0	0
100-CR-1297 -000	1.4	Pulaski	BEND OF THE LAKES RD	1	1	7	0.93	0.33	35	1	0	0
100-CR-1627Q4-000	0.5	Pulaski	NORTHERN CROSSING	0	0	2	0.03	1.21	36	1	0	0
100-CR-1127 -000	4.3	Pulaski	COLEMAN RD	1	0	10	0.54	0.67	37	1	0	0
100-CR-1350T -000	0.2	Pulaski	ROBINSON WAY S	0	1	13	0.67	0.52	38	1	0	0
100-CR-1136 -000	4.1	Pulaski	BARNESBURG RD	2	0	8	0.86	0.33	39	1	0	0
100-CR-1123 -000	2.0	Pulaski	GASTINEAU RD	1	0	2	0.40	0.79	40	1	0	0
100-CR-1134 -000	1.3	Pulaski	GARNER SCHOOLHOUSE RD	1	1	2	0.85	0.33	41	1	0	0
100-CR-1274 -000	3.4	Pulaski	DIXIE BND RD	1	1	4	0.88	0.25	42	1	0	0
100-CR-1517 -000	1.1	Pulaski	OAK LEAF LN	0	0	9	0.15	0.97	43	1	0	0
100-CR-1293 -000	6.1	Pulaski	CABIN HOLLOW RD	1	1	9	0.97	0.13	44	1	0	0
100-CR-1340W -000	0.3	Pulaski	BARRETT DR	0	0	2	0.03	1.05	45	1	0	0
100-CR-2039 -030	0.0	Pulaski	FRONTAGE RD RT X	0	0	0	0.00	1.07	46	1	0	0
100-CR-1363 -000	5.2	Pulaski	ADERHOLT RD	1	1	5	0.90	0.17	47	1	0	0
100-CR-1494A -000	0.5	Pulaski	SUMMIT DR	1	0	1	0.38	0.64	48	1	0	0
100-CR-1494SS-000	0.7	Pulaski	SYCAMORE TRL	0	0	1	0.02	0.98	49	1	0	0
100-CR-1489 -000	1.3	Pulaski	THURMAN RD	0	0	3	0.05	0.92	50	1	0	0
100-CR-1306 -000	1.4	Pulaski	ELIHU-RUSH BRANCH RD	1	1	3	0.86	0.10	51	1	0	0
100-CR-1163 -000	1.4	Pulaski	STEWART RD	2	0	4	0.80	0.14	52	1	0	0
100-CR-1282 -000	1.9	Pulaski	TATEVILLE-ANTIOCH RD	2	0	3	0.78	0.16	53	1	0	0
100-CR-1545 -000	2.7	Pulaski	HINKLE RD	0	1	1	0.47	0.46	54	1	0	0
100-CR-1984 -000	3.5	Pulaski	CEDAR GROVE RD	2	0	3	0.78	0.14	55	1	0	0
100-CR-1494AA-000	0.4	Pulaski	LOST LODGE RD	0	0	1	0.02	0.89	56	1	0	0
100-CR-1635Q4-000	0.3	Pulaski	PATRIOT DR	0	0	0	0.00	0.86	57	1	0	0
100-CR-1496B -000	0.6	Pulaski	TWIN RIVERS CIR	0	0	1	0.02	0.83	58	1	0	0
100-CR-1336B -000	0.2	Pulaski	SCHOOL RD	0	0	3	0.05	0.79	59	1	0	0
100-CR-1523 -000	3.9	Pulaski	EAST FROG HOLLOW RD	1	0	9	0.52	0.32	60	1	0	0
100-CR-1715 -000	0.3	Pulaski	OLD NORWOOD RD	0	0	0	0.00	0.78	61	1	0	0
100-CR-1493E -000	0.5	Pulaski	PARK ST NO 5	0	0	0	0.00	0.75	62	1	0	0
100-CR-1362 -000	0.8	Pulaski	COLYER RD	1	0	2	0.40	0.34	63	1	0	0
100-CR-1370E -070	0.0	Pulaski	DENNY LN CONN	0	0	0	0.00	0.73	64	1	0	0
100-CR-1487B -000	0.1	Pulaski	ACCESS RD 6 RT	0	0	0	0.00	0.71	65	1	0	0
100-CR-1350S -000	0.2	Pulaski	ROBINSON WAY N	1	0	6	0.47	0.22	66	1	0	0
100-CR-1595 -000	1.3	Pulaski	BUNCOMBE WHEELDON RD	1	0	2	0.40	0.28	67	1	0	0
100-CR-1589 -000	2.2	Pulaski	ETNA RD	0	1	2	0.48	0.19	68	1	0	0
100-CR-1582 -000	2.1	Pulaski	WEST FLOYD SWITCH ESTESBURG RD	1	0	2	0.40	0.27	69	1	0	0
100-CR-2082 -000	0.4	Pulaski	S NOMANS LN	0	0	0	0.00	0.66	70	1	0	0
100-CR-1677 -000	0.3	Pulaski	N RACETRACK RD	0	0	1	0.02	0.64	71	1	0	0
100-CR-1487A -000	0.1	Pulaski	ACCESS RD 4	0	0	0	0.00	0.65	72	1	0	0
100-CR-1587 -000	2.2	Pulaski	FREEDOM CHURCH RD	1	0	5	0.45	0.20	73	1	0	0
100-CR-1343 -000	1.0	Pulaski	OLD MONTICELLO RD	0	0	3	0.05	0.59	74	1	0	0
100-CR-1487A -030	0.0	Pulaski	ACCESS RD 4 X	0	0	0	0.00	0.62	75	1	0	0
100-CR-1954 -000	2.5	Pulaski	SANDY GAP RD	1	0	0	0.36	0.26	76	1	0	0
100-CR-1645 -000	7.9	Pulaski	HICKORY NUT RD	0	0	6	0.10	0.52	77	1	0	0
100-CR-1493T -000	0.1	Pulaski	PARK ST NO 18	0	0	0	0.00	0.62	78	1	0	0
100-CR-1340C -000	1.0	Pulaski	OLD PISGAH CHURCH RD	0	0	1	0.02	0.59	79	1	0	0
100-CR-1341F -000	0.8	Pulaski	WINDING RIDGE RD	0	0	4	0.07	0.51	80	1	0	0
100-CR-1352 -000	0.9	Pulaski	OLD DECKER RD	0	1	0	0.45	0.13	81	1	0	0

Exhibit Pulaski-9: List of Focus Roadways



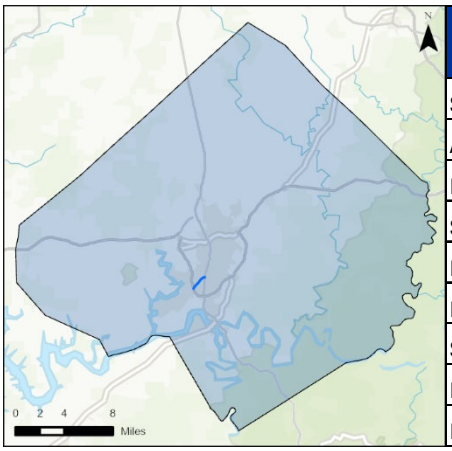
RT_UNIQUE	Length	County	Road Name	Injury Crashes	Fatal Crashes	PDO	CrashScore	UseScore	Rank	Focus Roads	Data Points	Roadway Data
Pulaski County												
100-CR-1336E -000	0.2	Pulaski	US 27 FRONTAGE ST	0	0	11	0.19	0.38	82	1	0	0
100-CR-1528 -000	1.1	Pulaski	KEENEY RD-NORWOOD	0	1	2	0.48	0.09	83	1	0	0
100-CR-1153 -000	1.8	Pulaski	ROSE RD	0	1	2	0.48	0.08	84	1	0	0
100-CR-1386 -000	1.9	Pulaski	SLATE BRANCH RD	0	0	10	0.17	0.39	85	1	0	0
100-CR-1141 -000	0.6	Pulaski	LARKIN LN	0	1	2	0.48	0.07	86	1	0	0
100-CR-1852A -000	1.2	Pulaski	FOREST RIDGE RD	1	0	1	0.38	0.17	87	1	0	0
100-CR-1709 -000	2.2	Pulaski	OLD WAYNESBURG RD	1	0	2	0.40	0.15	88	1	0	0
100-CR-1383 -000	1.0	Pulaski	PRATHER RD	1	0	2	0.40	0.15	89	1	0	0
100-CR-1647 -000	2.2	Pulaski	HOPEFUL SCHOOL RD	0	1	1	0.47	0.07	90	1	0	0
100-CR-1593 -000	0.5	Pulaski	OLD RACETRACK RD	0	0	2	0.03	0.50	91	1	0	0
100-CR-1569 -000	0.1	Pulaski	HERB ST	0	0	0	0.00	0.53	92	1	0	0
100-CR-1336J -000	0.8	Pulaski	ENTERPRISE DR	0	0	6	0.10	0.42	93	1	0	0
100-CR-1665 -000	5.6	Pulaski	BEECH GROVE RD	1	0	3	0.42	0.11	94	1	0	0
100-CR-1543 -000	3.9	Pulaski	ESTILL HACKNEY RD	0	1	0	0.45	0.07	95	1	0	0
100-CR-1558 -000	4.4	Pulaski	GOOCHTOWN RD	1	0	1	0.38	0.13	96	1	0	0
100-CR-1335B -000	0.7	Pulaski	SIOUX TRL	0	1	2	0.48	0.02	97	1	0	0
100-CR-1350L -000	0.3	Pulaski	OWENS FERRY RD	0	0	2	0.03	0.46	98	1	0	0
100-CR-1430 -000	0.5	Pulaski	RICHARDSON RD	0	0	1	0.02	0.48	99	1	0	0
100-CR-1350T -071	0.0	Pulaski	ROBINSON WAY S CONN	0	0	0	0.00	0.49	100	1	0	0
100-CR-1006 -000	5.4	Pulaski	CANNONBALL RD	1	0	4	0.43	0.05	101	1	0	0
100-CR-1104 -000	0.9	Pulaski	FLOYD RD	0	1	0	0.45	0.03	102	1	0	0
100-CR-1275B -000	0.5	Pulaski	HELTON ACRES RD	0	1	0	0.45	0.02	103	1	0	0
100-CR-2140 -000	0.1	Pulaski	JORDANS WAY	0	0	1	0.02	0.45	104	1	0	0
100-CR-1200 -000	3.4	Pulaski	PROVIDENCE RD	1	0	1	0.38	0.08	105	1	0	0
100-CR-1425 -000	1.4	Pulaski	HOMINY HILL RD	0	1	0	0.45	0.01	106	1	0	0
100-CR-1177 -000	1.2	Pulaski	JESSIE SEARS RD	0	1	0	0.45	0.01	107	1	0	0
100-CR-1678 -000	1.4	Pulaski	WILSON RD	0	0	5	0.09	0.37	108	1	0	0
100-CR-1601 -000	3.4	Pulaski	SMITH RIDGE RD	1	0	0	0.36	0.09	109	1	0	0
100-CR-1105 -000	0.4	Pulaski	J. M. MCWILLIAMS RD	0	1	0	0.45	0.01	110	1	0	0
100-CR-1591B -000	0.2	Pulaski	L. HINES RD	0	1	0	0.45	0.00	111	1	0	0
100-CR-1280 -000	1.6	Pulaski	LEWIS BRAY RD	1	0	0	0.36	0.08	112	1	0	0
100-CR-1326 -000	1.1	Pulaski	COOMER RD	1	0	1	0.38	0.07	113	1	0	0
100-CR-1516 -000	0.7	Pulaski	OLD PUMPHOUSE RD	0	0	3	0.05	0.39	114	1	0	0
100-CR-1133 -000	0.3	Pulaski	FIRE TOWER RD	0	0	2	0.03	0.41	115	1	0	0
100-CR-1451 -000	0.7	Pulaski	CALHOUN RD	0	0	0	0.00	0.44	116	1	0	0
100-CR-1368 -000	2.8	Pulaski	ECHO PT RD	1	0	0	0.36	0.07	117	1	0	0
100-CR-1524Q4-000	0.4	Pulaski	WEST LANGDON RD	0	0	0	0.00	0.43	118	1	0	0
100-CR-1532 -000	2.7	Pulaski	SURBER RD	1	0	1	0.38	0.04	119	1	0	0

Exhibit Pulaski-9: List of Focus Roadways Cont.

Recommended Improvements (Top 5 Roads)

BOURBON RD (100-CR-1485 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	14	1	0	**15**
Angle	10	1	0	**11**
Rear End	10	0	0	**10**
SS - Opp	4	1	0	**5**
Head On	4	0	0	**4**
Left Turn	2	1	0	**3**
SS - Same	1	1	0	**2**
Backing	1	0	0	**1**
Rear to Rear	0	0	0	**0**

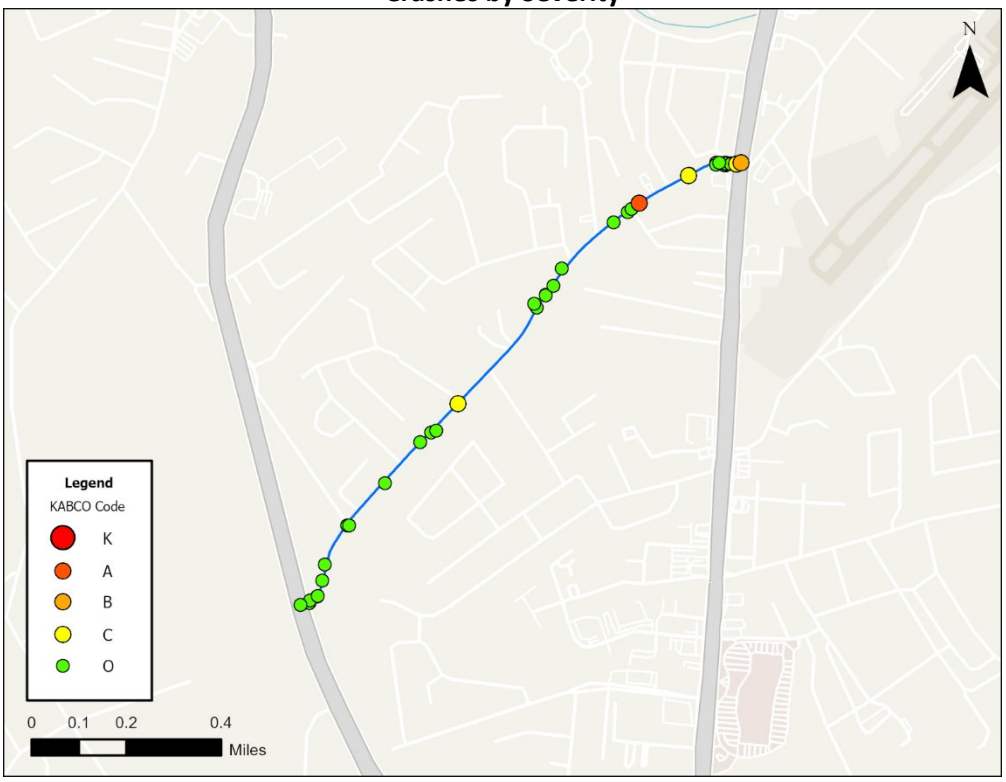
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
3787	100-CR-1485 -000	BOURBON RD	10	4	1	80-100	✓	✓	✓
4447	100-CR-1485 -000	BOURBON RD	24	4	1	0-20			✓

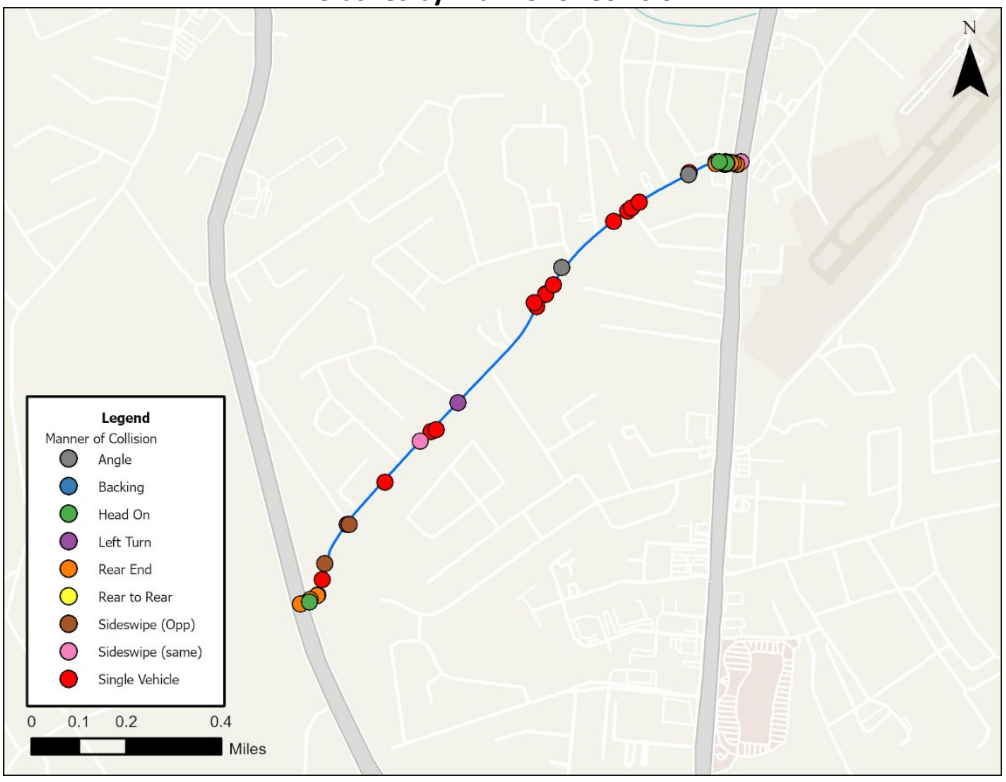
Roadway Typical Section



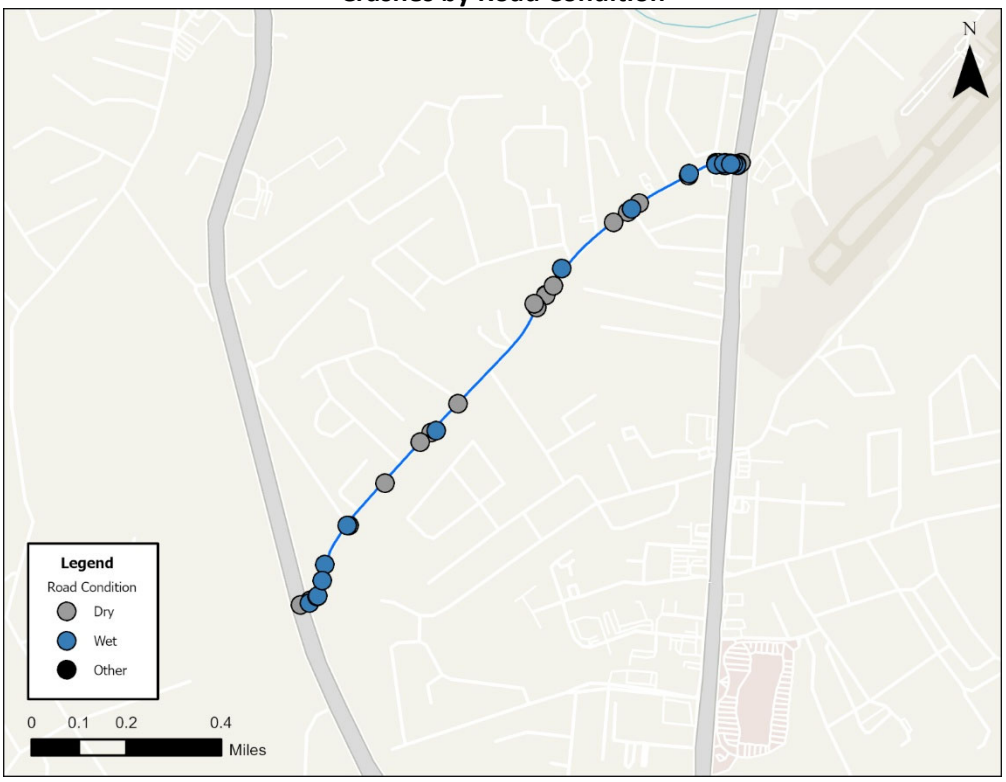
Crashes by Severity



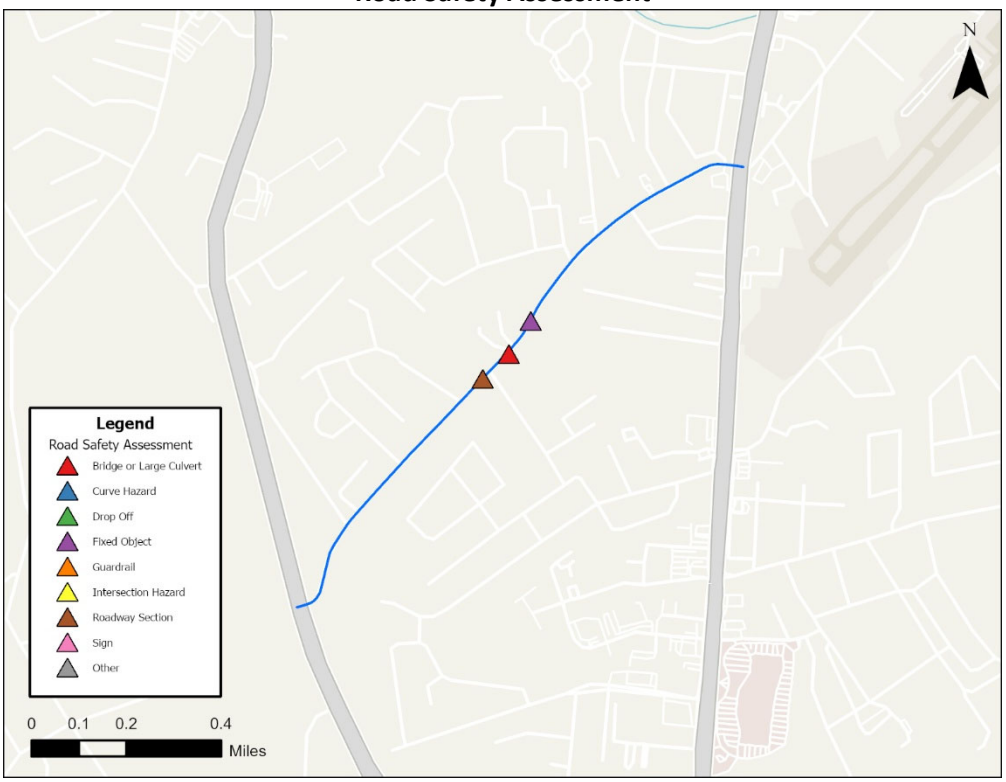
Crashes by Manner of Collision



Crashes by Road Condition



Road Safety Assessment



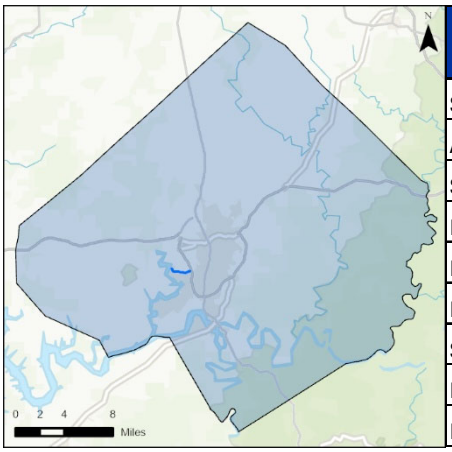
General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
3785	100-CR-1485 -000	BOURBON RD	25	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing.

Point ID	RT_UNIQUE	RD_NAME	Object	Single / Series	Offset	Recommendations	Other
3786	100-CR-1485 -000	BOURBON RD	Other	Single	1-3	Relocate mailbox further from road	Mailbox

PATTERSON BRANCH RD (100-CR-1483 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	20	1	0	**21**
Angle	6	2	0	**8**
SS - Opp	8	0	0	**8**
Rear End	7	1	0	**8**
Backing	5	0	0	**5**
Left Turn	2	0	0	**2**
SS - Same	1	0	0	**1**
Head On	1	0	0	**1**
Rear to Rear	0	0	0	**0**

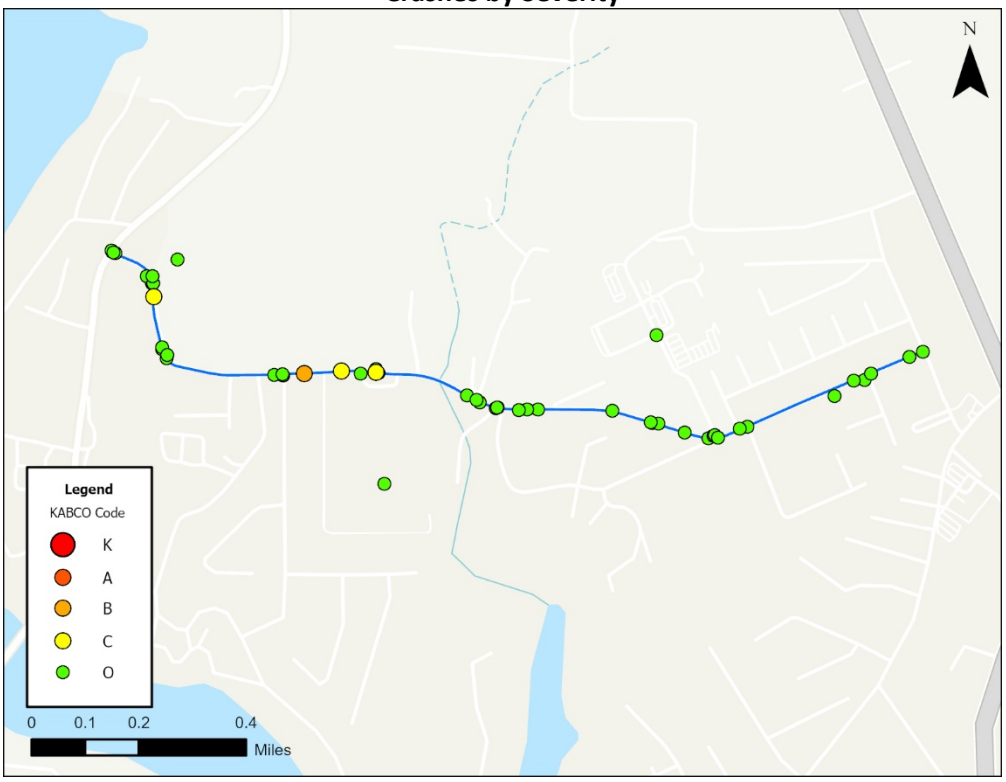
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
3789	100-CR-1483 -000	PATTERSON BRANCH RD	10	4	1	80-100	✓	✓	✓

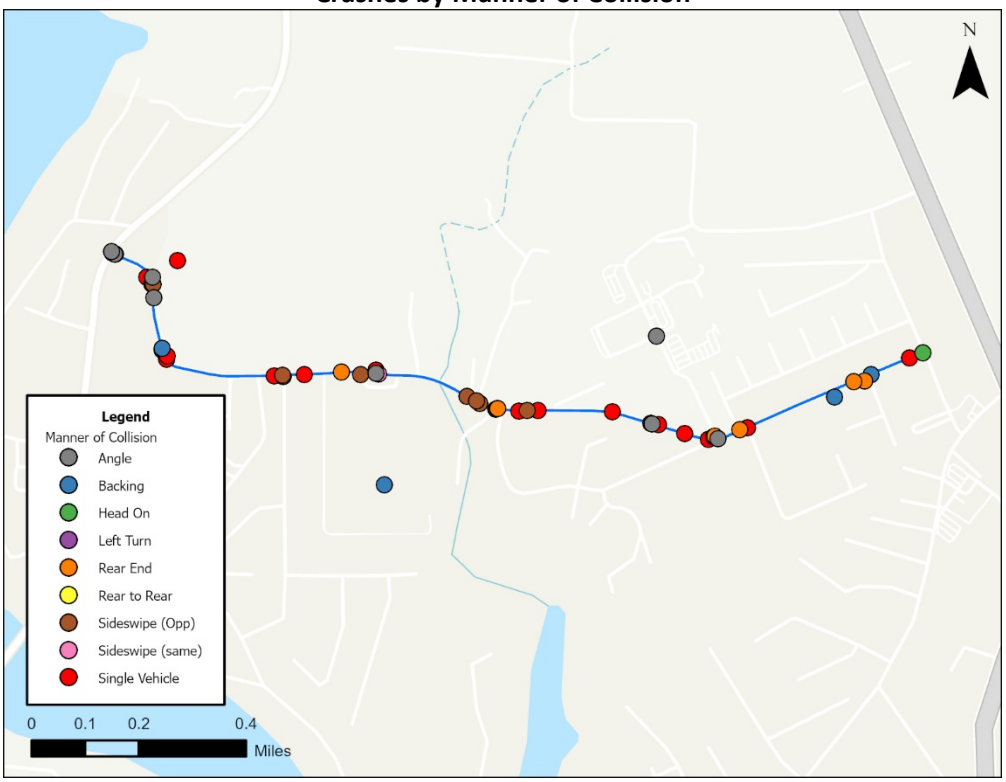
Roadway Typical Section



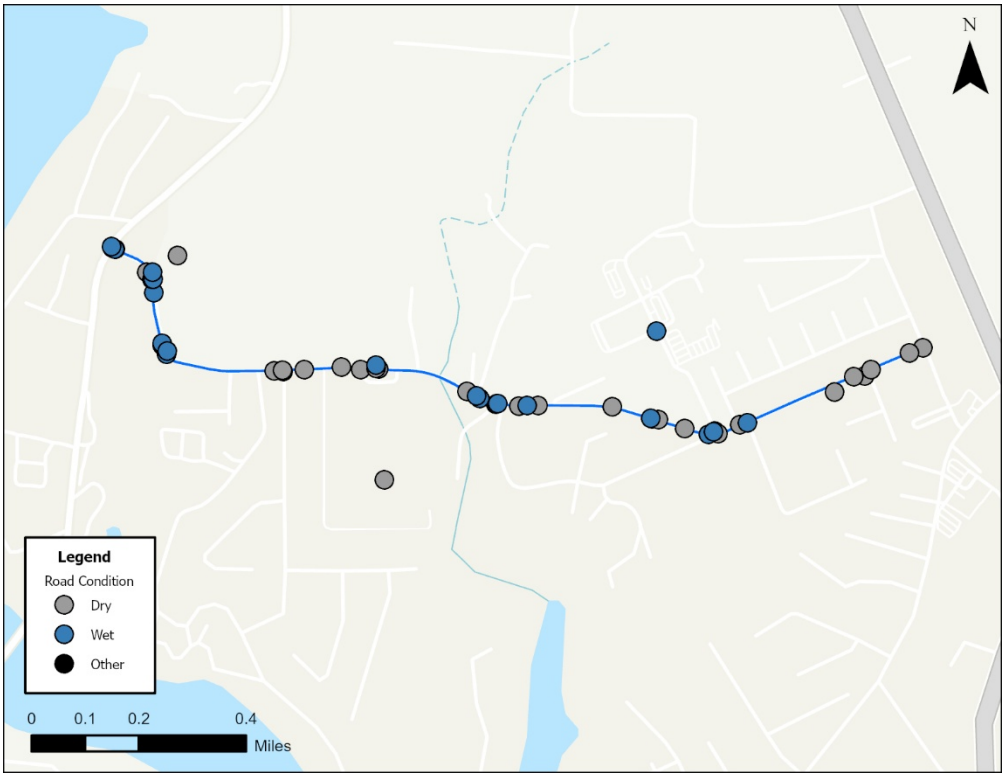
Crashes by Severity



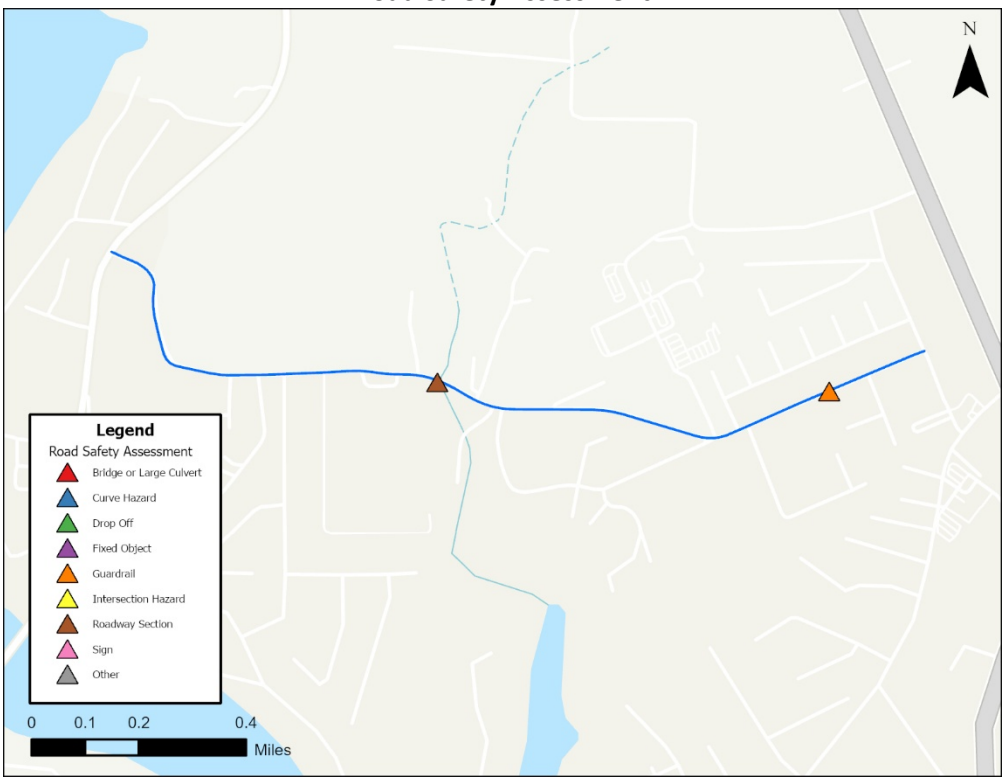
Crashes by Manner of Collision



Road Conditions



Road Safety Assessment

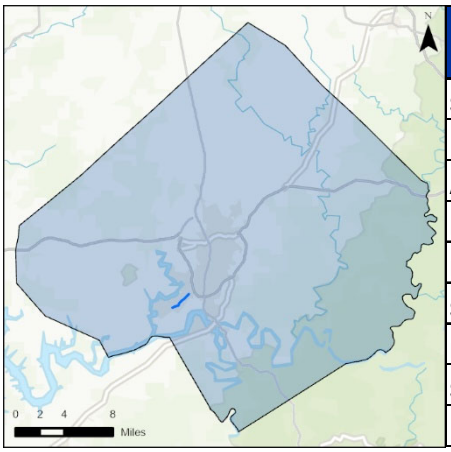


General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Guard Condition	Meet Warrants	End Treatments	Recommendations
3788	100-CR-1483 -000	PATTERSON BRANCH RD	Poor	No	None	Remove
4149	100-CR-1483 -000	PATTERSON BRANCH RD	Fair	Yes	All	--

FERRY RD (100-CR-1378 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	13	5	0	**18**
Rear End	7	0	0	**7**
Angle	4	0	0	**4**
Head On	2	0	0	**2**
Backing	1	0	0	**1**
SS - Opp	1	0	0	**1**
Left Turn	1	0	0	**1**
SS - Same	0	0	0	**0**
Rear to Rear	0	0	0	**0**

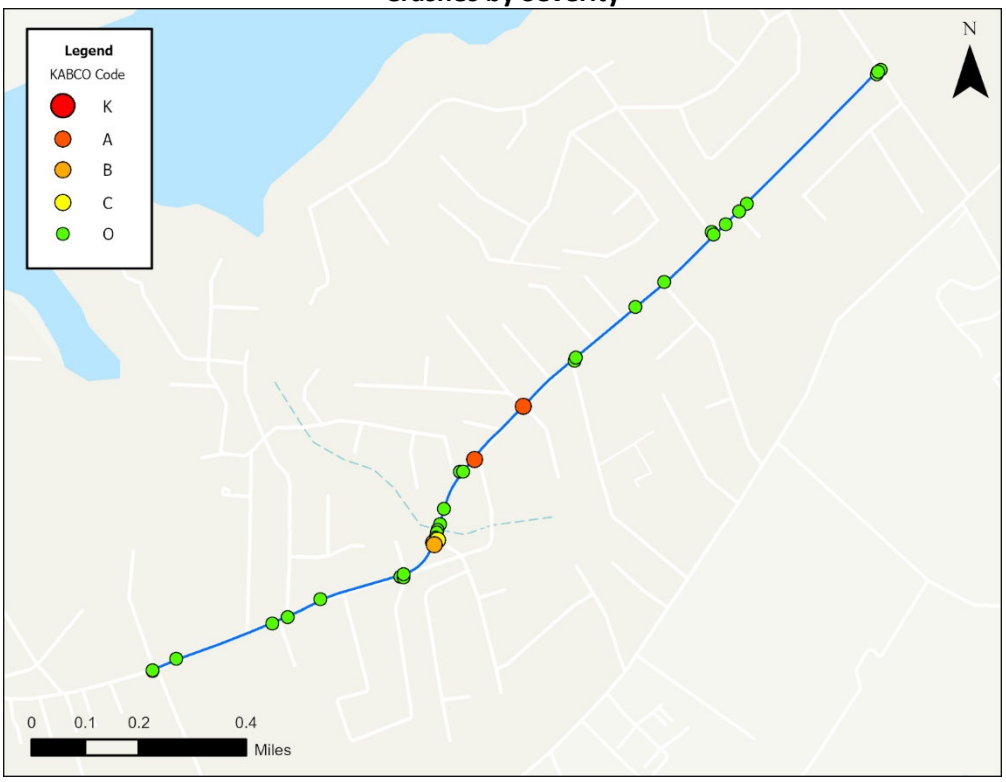
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
3792	100-CR-1378 -000	FERRY RD	10	4	1	0-20		✓	✓

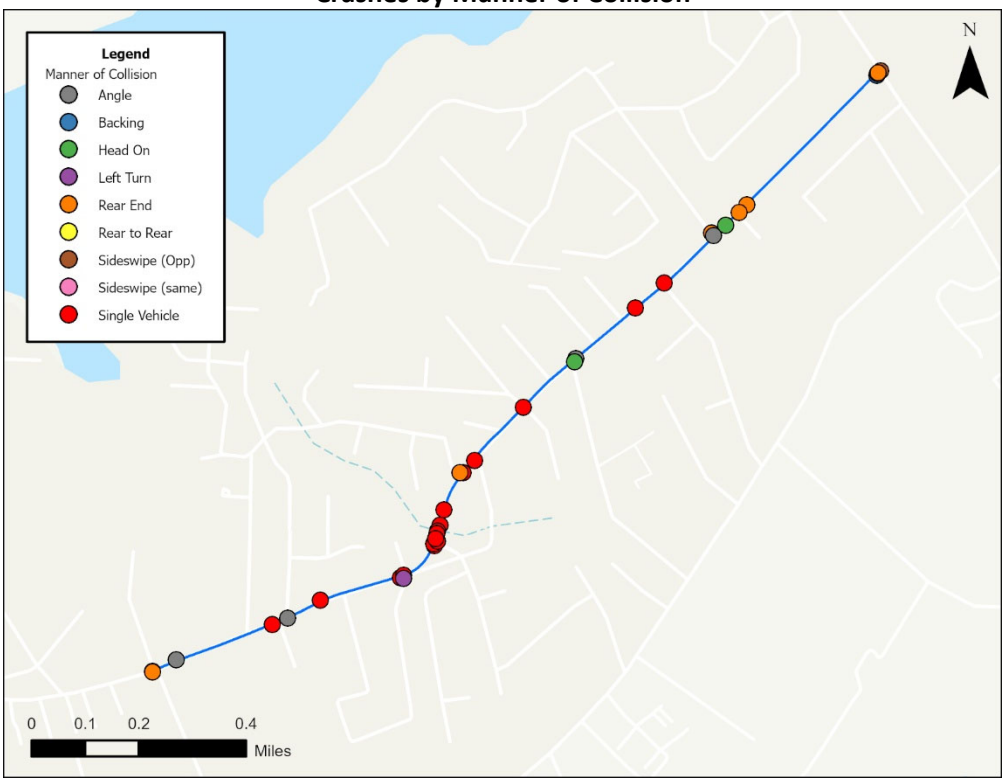
Roadway Typical Section



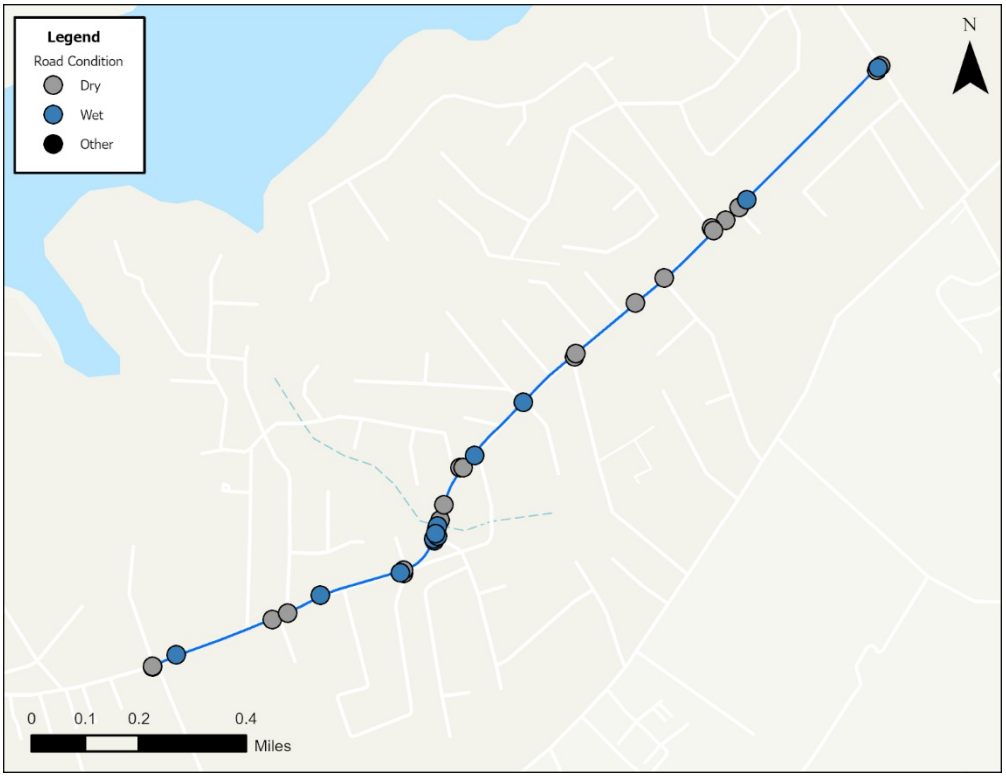
Crashes by Severity



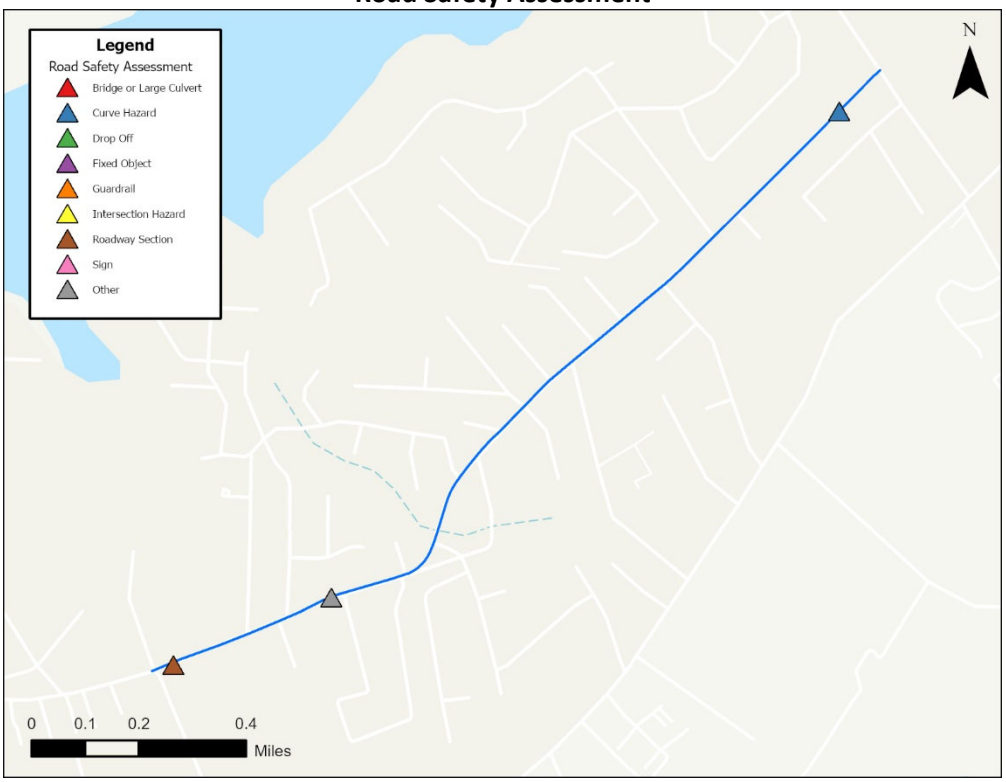
Crashes by Manner of Collision



Road Conditions



Road Safety Assessment

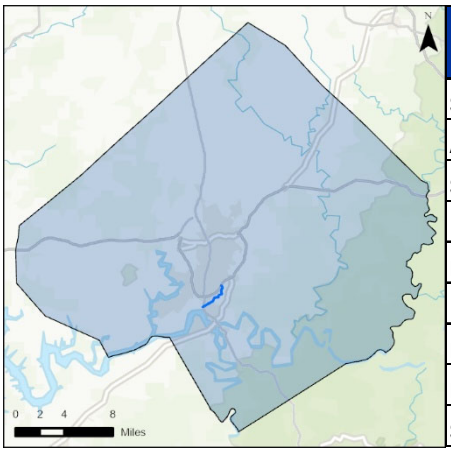


General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Recommendations	Other
3791	100-CR-1378 -000	FERRY RD	Install "Hidden Driveway" sign; evaluate sight distance at intersection and potential to relocate if necessary	Blind driveway

BOAT DOCK RD (100-CR-1338 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	8	3	0	**11**
Angle	6	1	0	**7**
SS - Opp	4	0	0	**4**
Rear End	4	0	0	**4**
Backing	2	0	0	**2**
Rear to Rear	1	0	0	**1**
Left Turn	1	0	0	**1**
Head On	1	0	0	**1**
SS - Same	0	0	0	**0**

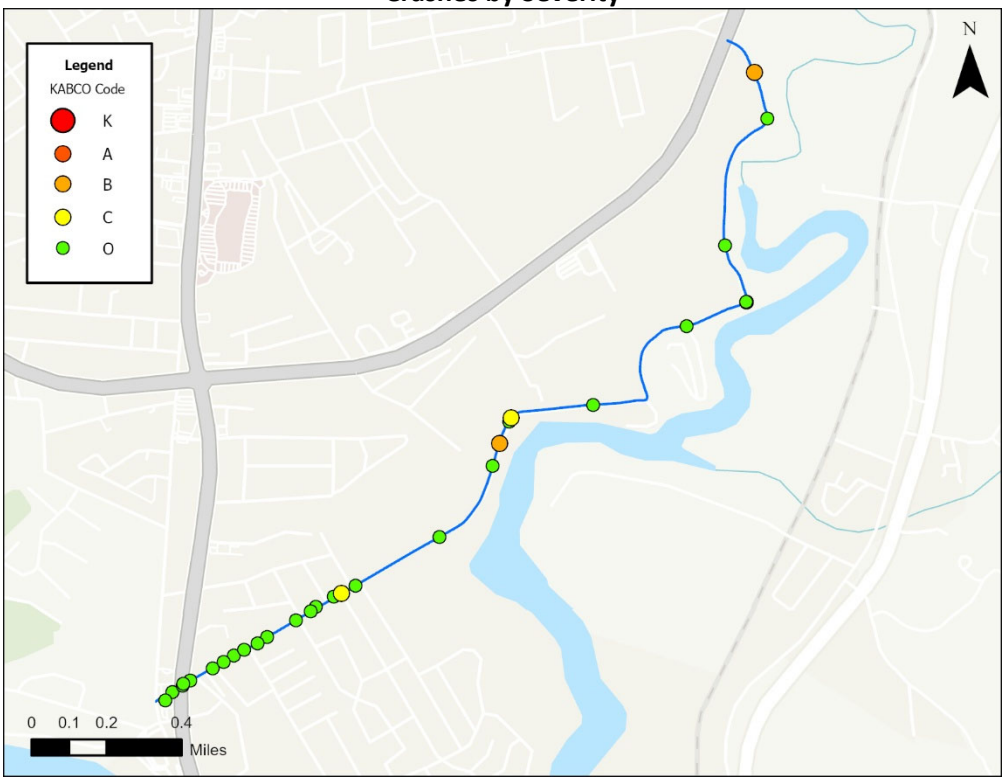
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
3801	100-CR-1338 -000	BOAT DOCK RD	10	1	4	20-40	✓	✓	✓
3803	100-CR-1338 -000	BOAT DOCK RD	10	3	3	20-40	✓	✓	✓
3804	100-CR-1338 -000	BOAT DOCK RD	10	3	3	20-40	✓	✓	✓
4449	100-CR-1338 -000	BOAT DOCK RD	24	4	1	0-20			✓

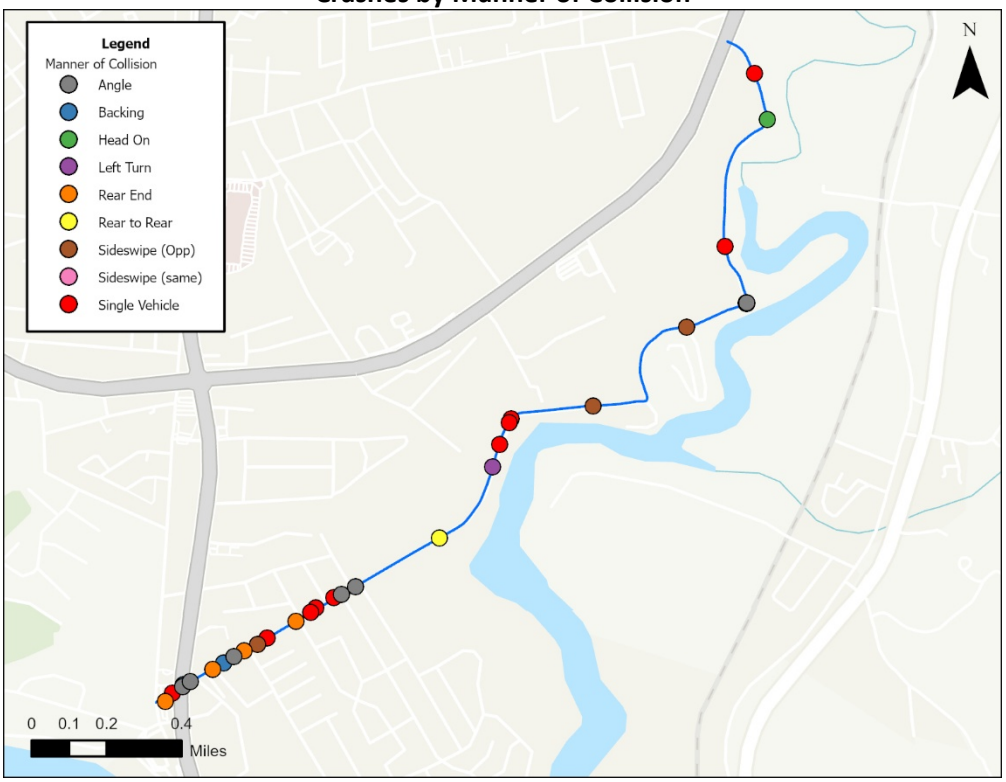
Roadway Typical Section



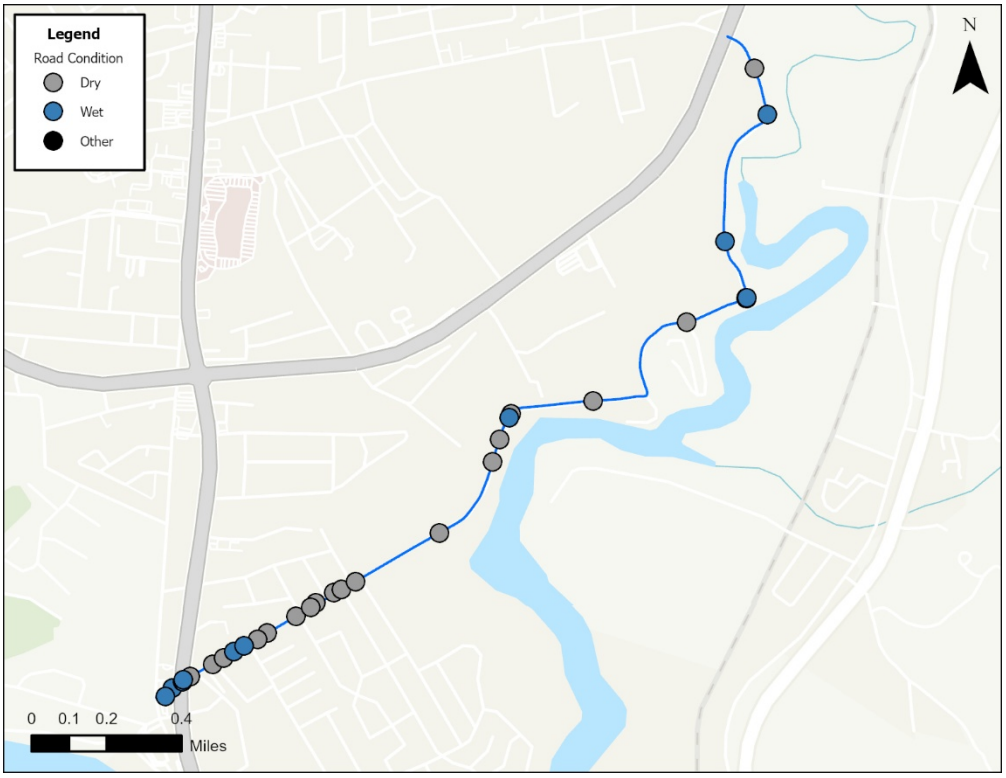
Crashes by Severity



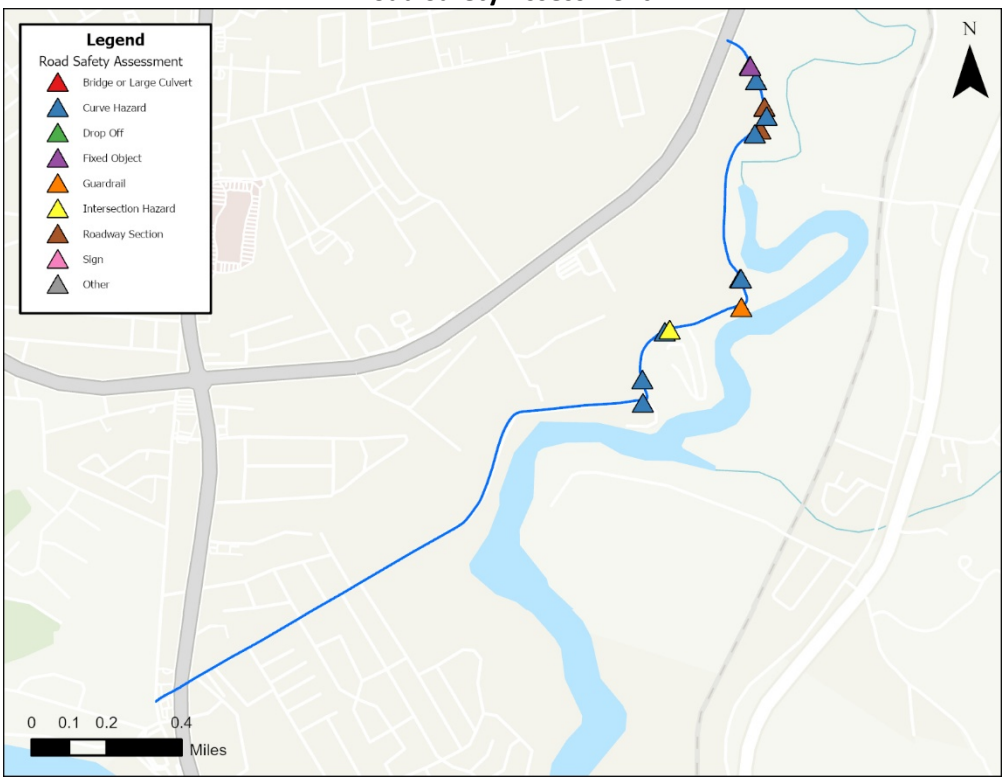
Crashes by Manner of Collision



Road Conditions



Road Safety Assessment



General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations	Other
3798	100-CR-1338 -000	BOAT DOCK RD	Curve Obscured,vegetation	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation	
3800	100-CR-1338 -000	BOAT DOCK RD	vegetation,Curve Obscured	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation	
3802	100-CR-1338 -000	BOAT DOCK RD	Curve Obscured,Other	No	Evaluate curve hazard obstruction; install advance warning signs.	Rocks/side of road
3805	100-CR-1338 -000	BOAT DOCK RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3807	100-CR-1338 -000	BOAT DOCK RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3808	100-CR-1338 -000	BOAT DOCK RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3809	100-CR-1338 -000	BOAT DOCK RD	vegetation,Curve Obscured	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation	
3811	100-CR-1338 -000	BOAT DOCK RD	Other	No	Evaluate curve hazard	Road curb
3812	100-CR-1338 -000	BOAT DOCK RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	

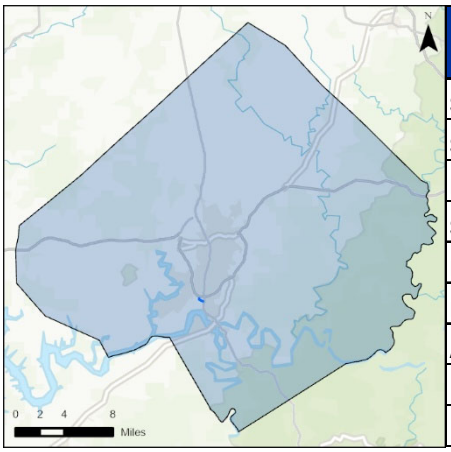
Point ID	RT_UNIQUE	RD_NAME	Object	Single / Series	Offset	Recommendations
3799	100-CR-1338 -000	BOAT DOCK RD	Tree	Single	1-3	Remove

Point ID	RT_UNIQUE	RD_NAME	Guard Condition	Meet Warrants	End Treatments	Recommendations
3810	100-CR-1338 -000	BOAT DOCK RD	Poor	No	None	Remove

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations	Other
3806	100-CR-1338 -000	BOAT DOCK RD	Intersection Skew,Insufficient Sight Distance at ,Other	No	Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection skew;evaluate sight distance ; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)	Road has no warning

EARL NEELY RD (100-CR-1340J -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	3	1	0	**4**
SS - Opp	1	0	0	**1**
Head On	1	0	0	**1**
SS - Same	0	0	0	**0**
Left Turn	0	0	0	**0**
Backing	0	0	0	**0**
Angle	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

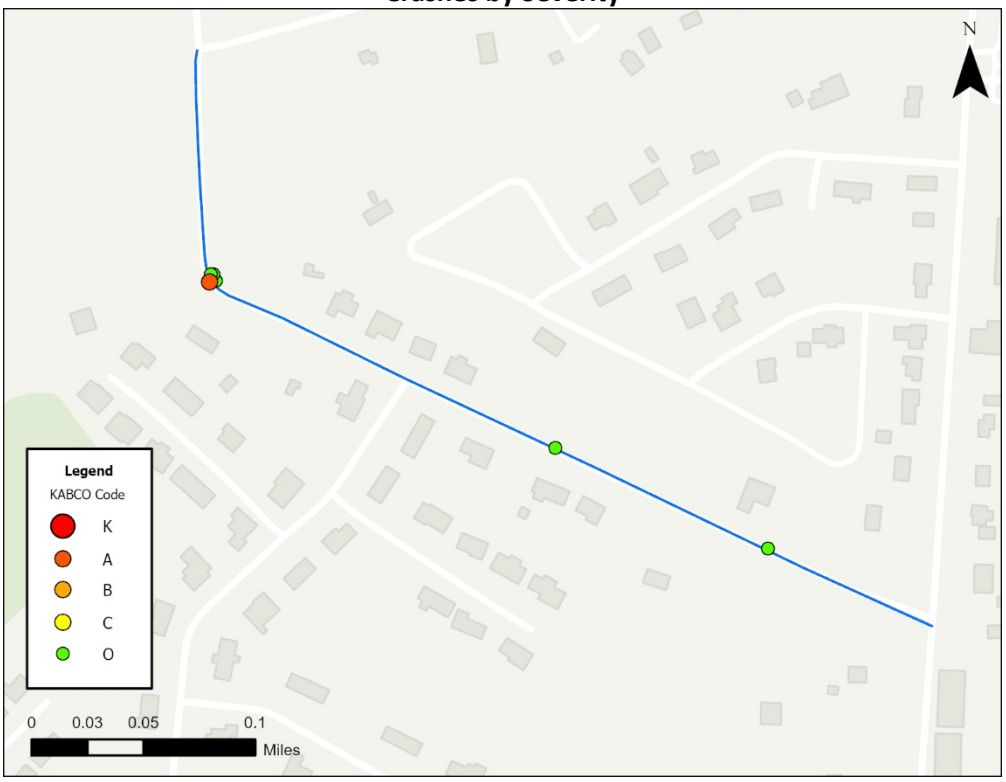
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
3815	100-CR-1340J -000	EARL NEELY RD	10	5	1	0-20		✓	✓
4448	100-CR-1340J -000	EARL NEELY RD	24	4	1	0-20			✓

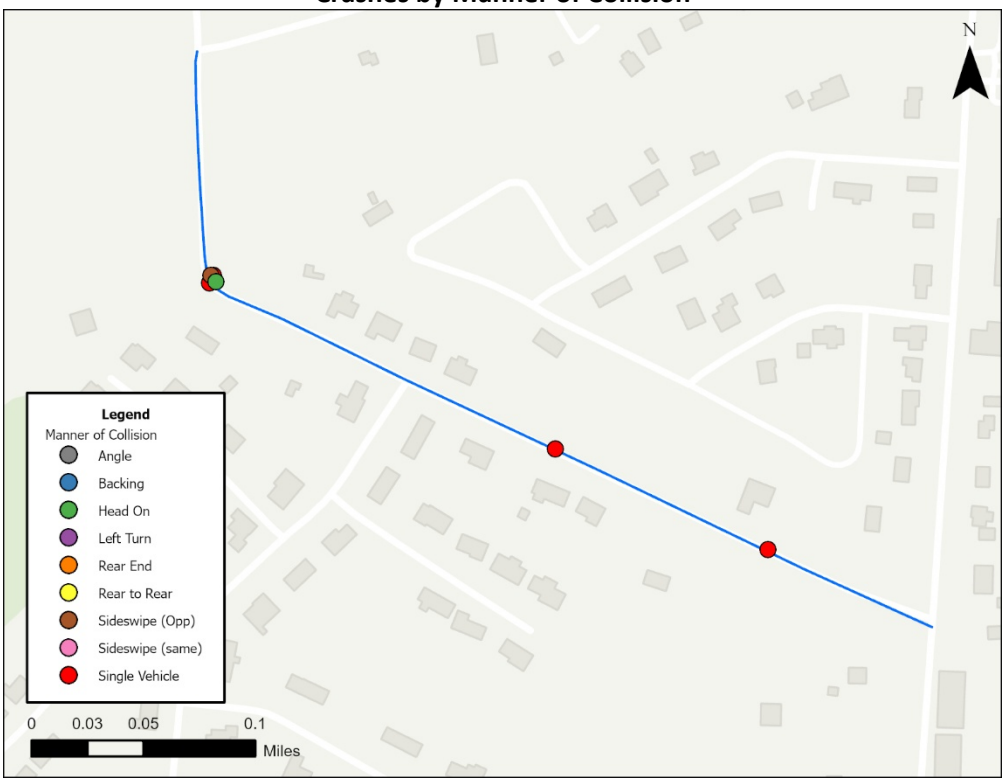
Roadway Typical Section



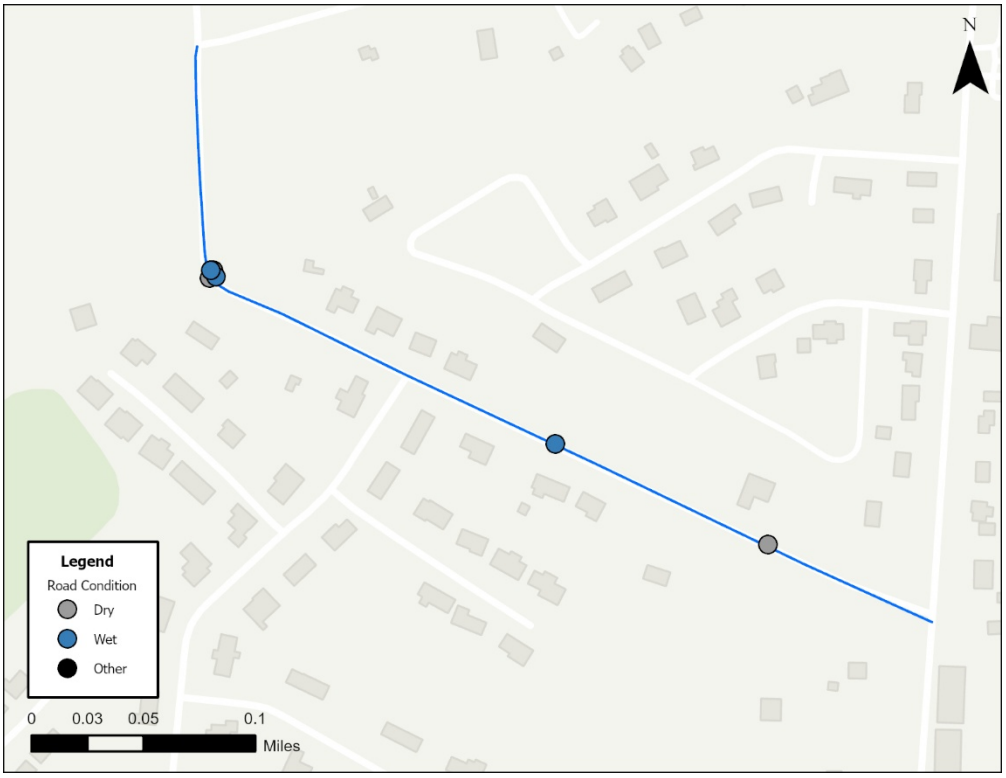
Crashes by Severity



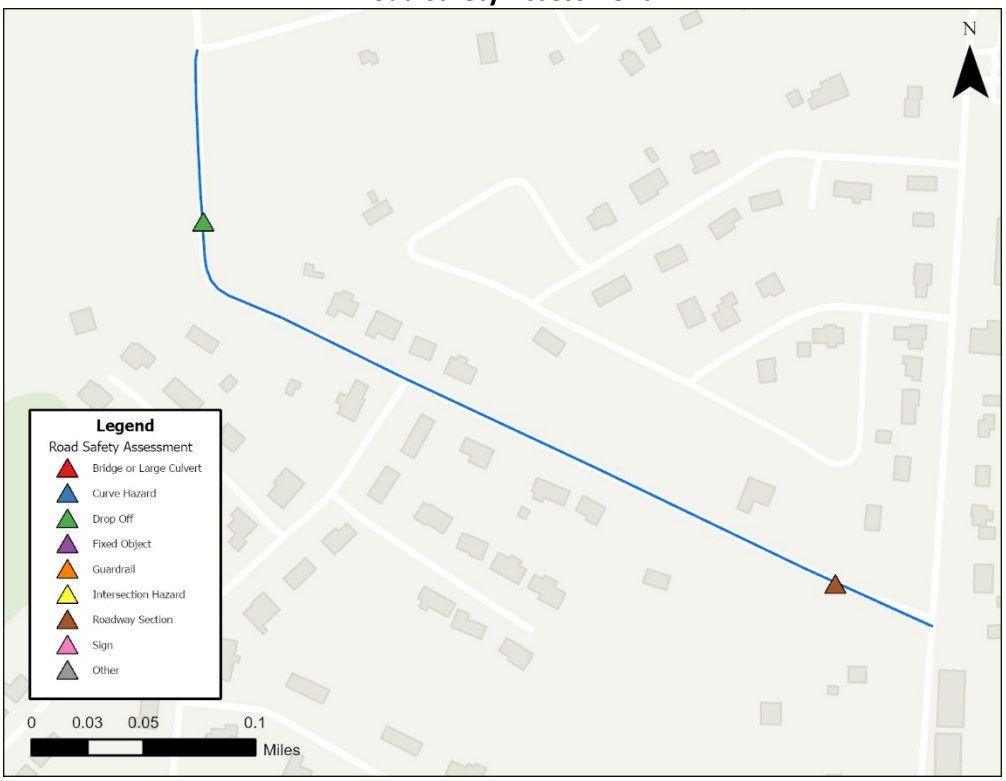
Crashes by Manner of Collision



Road Conditions



Road Safety Assessment



General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Drop Off Offset	Drop Off Height	Recommendations
3814	100-CR-1340J -000	EARL NEELY RD	0-1	5-10	Install Type 2 Object Marker(s) or Delineator(s)

Other Roadways

General Roadway Conditions and Recommendations (Pulaski County)

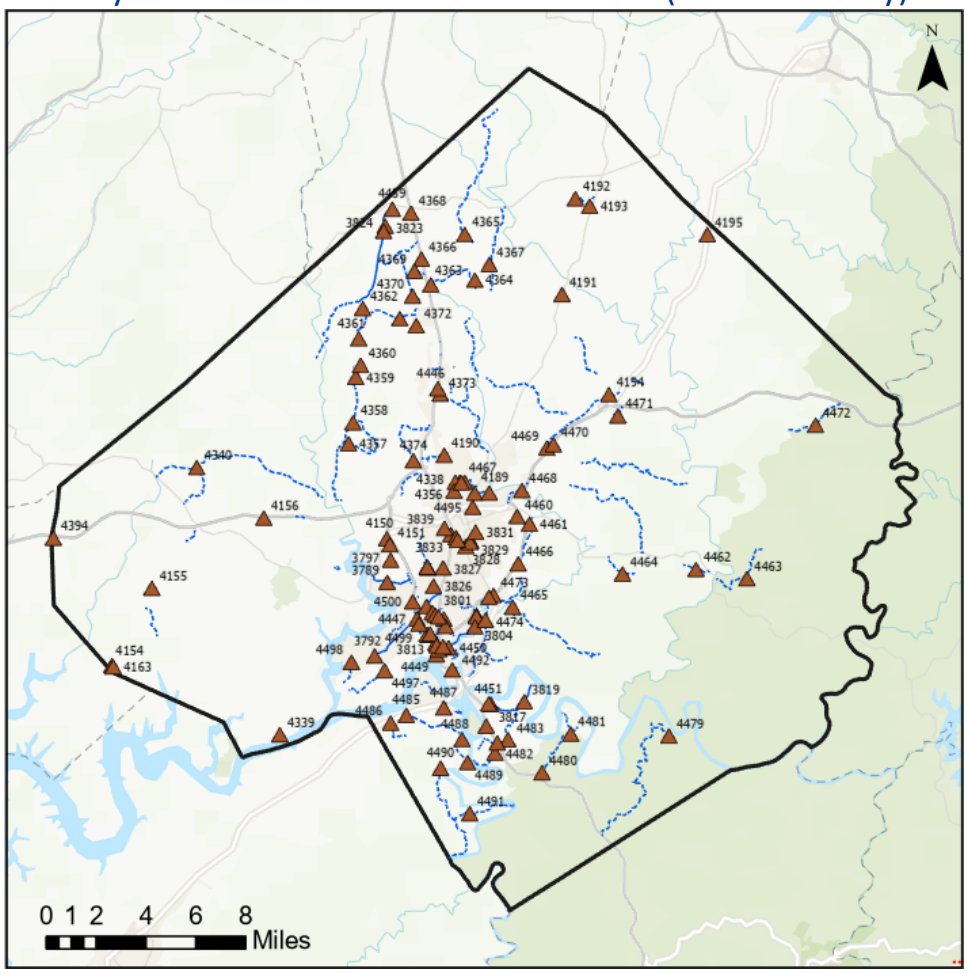


Exhibit Pulaski-10: General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing	Other
4490	100-CR-1363 -000	ADERHOLT RD	19	3	3	20-40	✓	✓	✓	
4363	100-CR-2133 -000	AMYS WAY	22	4	2	0-20			✓	
4360	100-CR-1792 -000	ANDERSON VALLEY RD	21	4	2	0-20			✓	
3817	100-CR-1284 -000	ANTIOCH CHURCH RD	10	2	3	20-40	✓	✓	✓	
3819	100-CR-1284 -000	ANTIOCH CHURCH RD	10	4	1	0-20		✓	✓	
4451	100-CR-1284 -000	ANTIOCH CHURCH RD	16	4	2	0-20		✓	✓	
4194	100-CR-1136 -000	BARNESBURG RD	21	4	3	0-20			✓	
4469	100-CR-1136 -000	BARNESBURG RD	11	3	2	0-20		✓	✓	
4499	100-CR-1340W -000	BARRETT DR	20	4	1	0-20			✓	
4358	100-CR-1665 -000	BEECH GROVE RD	16	4	2	0-20		✓	✓	
4359	100-CR-1665 -000	BEECH GROVE RD	18	3	6	20-40	✓	✓	✓	
4479	100-CR-1230 -000	BLUE JOHN RD	23	4	4	0-20			✓	
3801	100-CR-1338 -000	BOAT DOCK RD	10	1	4	20-40	✓	✓	✓	
3803	100-CR-1338 -000	BOAT DOCK RD	10	3	3	20-40	✓	✓	✓	
3804	100-CR-1338 -000	BOAT DOCK RD	10	3	3	20-40	✓	✓	✓	
4449	100-CR-1338 -000	BOAT DOCK RD	24	4	1	0-20			✓	
4190	100 CR-1520D	BODIE RD	13	4	1	0-20		✓	✓	
3787	100-CR-1485 -000	BOURBON RD	10	4	1	80-100	✓	✓	✓	
4447	100-CR-1485 -000	BOURBON RD	24	4	1	0-20			✓	
3828	100-CS-1148 -000	BOURNE AVE	10	4	1	0-20		✓	✓	
3829	100-CS-1148 -000	BOURNE AVE	10	3	2	20-40	✓	✓	✓	
3830	100-CS-1148 -000	BOURNE AVE	10	4	1	0-20		✓	✓	
4361	100-CR-1595 -000	BUNCOMBE WHEELDON RD	15	3	5	20-40	✓	✓	✓	
4362	100-CR-1595 -000	BUNCOMBE WHEELDON RD	11	4	1	0-20		✓	✓	
4465	100-CR-1293 -000	CABIN HOLLOW RD	18	4	2	0-20		✓	✓	
4473	100-CR-1984 -000	CEDAR GROVE RD	22	4	1	0-20			✓	
4474	100-CR-1984 -000	CEDAR GROVE RD	20	3	1	0-20			✓	
4357	100-CR-1673 -000	CLIFTY RD	18	4	2	0-20		✓	✓	
4488	100-CR-1362 -000	COLYER RD	19	4	1	0-20		✓	✓	
4489	100-CR-1362 -000	COLYER RD	18	3	2	0-20		✓	✓	
4484	100-CR-1326 -000	COOMER RD	16	4	1	0-20		✓	✓	
3820	100-CR-2064 -000	DECK DR	10	4	2	0-20		✓	✓	
4152	100-CR-2064 -000	DECK DR	19	4	1	0-20		✓	✓	
4153	100-CR-2064 -000	DECK DR	21	4	1	0-20			✓	
4487	100-CR-1370E -000	DENNY LN	19	4	1	0-20		✓	✓	
4480	100-CR-1274 -000	DIXIE BND RD	15	3	2	0-20		✓	✓	
3815	100-CR-1340J -000	EARL NEELY RD	10	5	1	0-20		✓	✓	
4448	100-CR-1340J -000	EARL NEELY RD	24	4	1	0-20			✓	
4373	100-CR-1523 -000	EAST FROG HOLLOW RD	23	4	2	0-20			✓	
4446	100-CR-1523 -000	EAST FROG HOLLOW RD	15	4	3	20-40	✓	✓	✓	
4491	100-CR-1368 -000	ECHO PT RD	20	3	2	0-20			✓	
4477	100-CR-1336J -000	ENTERPRISE DR	19	4	1	0-20		✓	✓	
4367	100-CR-1543 -000	ESTILL HACKNEY RD	20	4	2	0-20			✓	
4371	100-CR-1589 -000	ETNA RD	15	4	4	0-20		✓	✓	
3792	100-CR-1378 -000	FERRY RD	10	4	1	0-20		✓	✓	
4470	100-CR-1133 -000	FIRE TOWER RD	13	4	1	0-20		✓	✓	
4192	100-CR-1104 -000	FLOYD RD	12	4	4	0-20		✓	✓	
4193	100-CR-1104 -000	FLOYD RD	20	4	2	0-20			✓	
4486	100-CR-1852A -000	FOREST RIDGE RD	20	4	1	0-20			✓	
4370	100-CR-1587 -000	FREEDOM CHURCH RD	20	4	2	0-20			✓	Small Tunnel
4366	100-CR-2039 -030	FRONTAGE RD RT X	16	4	3	0-20		✓	✓	
4468	100-CR-1134 -000	GARNER SCHOOLHOUSE RD	22	4	2	0-20			✓	
3826	100-CS-1220 -000	GRAND CENTRAL BLVD	10	4	1	0-20		✓	✓	
4481	100-CR-1275B -000	HELTON ACRES RD	18	4	2	0-20		✓	✓	
4340	100-CR-1645 -000	HICKORY NUT RD	14	2	6	80-100	✓	✓	✓	
4364	100-CR-1545 -000	HINKLE RD	18	4	2	0-20		✓	✓	

Exhibit Pulaski-11: General Roadway Recommendations (1/2)



Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing	Other
4155	100-CR-1425 -000	HOMINY HILL RD	10	4	4	0-20		✓	✓	No centerline
3816	100-CR-1340T -000	IMOGENE DR	10	3	2	20-40	✓	✓	✓	
4485	100-CR-1360 -000	JACKSBORO RD	22	3	1	0-20			✓	
4195	100-CR-1948 -000	JAMES LATHAM RD	18	3	3	0-20		✓	✓	
4462	100-CR-1177 -000	JESSIE SEARS RD	18	5	3	0-20		✓	✓	
4460	100-CR-2140 -000	JORDANS WAYV	17	4	3	0-20		✓	✓	
4339	100-CR-1390 -000	KEENEY RD	19	4	1	0-20		✓	✓	
3797	100-KY-3261 -000	KY-3261	10	3	3	20-40	✓	✓	✓	
4150	100-KY-3261 -000	KY-3261	24	4	1	0-20			✓	
4151	100-KY-3261 -000	KY-3261	24	4	1	0-20			✓	
4372	100-CR-1591B -000	L. HINES RD	19	4	2	0-20		✓	✓	
3833	100-CS-1242 -000	LANGDON ST	10	3	2	0-20		✓	✓	
3834	100-KY-2298 -000	LANGDON ST	10	3	2	0-20		✓	✓	
3835	100-KY-2298 -000	LANGDON ST	10	5	1	0-20		✓	✓	
4471	100-CR-1141 -000	LARKIN LN	20	4	2	0-20			✓	
4482	100-CR-1280 -000	LEWIS BRAY RD	19	4	1	0-20		✓	✓	
4492	100-CR-1494AA-000	LOST LODGE RD	18	4	1	0-20		✓	✓	
4369	100-CR-1627Q4-000	NORTHERN CROSSING	19	4	2	0-20		✓	✓	
4187	100-CR-1517 -000	OAK LEAF LN	24	3	1	0-20			✓	
4338	100-CR-1517 -000	OAK LEAF LN	22	4	2	0-20			✓	
4467	100-CR-1517 -000	OAK LEAF LN	22	3	2	0-20			✓	
4478	100-CR-1517 -000	OAK LEAF LN	13	4	4	0-20		✓	✓	
4493	100-CR-1343 -000	OLD MONTICELLO RD	22	4	1	0-20			✓	
4494	100-CR-1343 -000	OLD MONTICELLO RD	24	4	1	0-20			✓	
3813	100-CR-1340C -000	OLD PISGAH CHURCH RD	10	4	1	0-20		✓	✓	
4188	100-CR-1516 -000	OLD PUMPHOUSE RD	17	4	1	0-20		✓	✓	
4189	100-CR-1516 -000	OLD PUMPHOUSE RD	24	5	1	0-20			✓	
4374	100-CR-1669 -000	OLD SALTS RD	24	4	2	0-20			✓	
4365	100-CR-1709 -000	OLD WAYNESBURG RD	18	3	2	0-20		✓	✓	
4501	100-CR-1350L -000	OWENS FERRY RD	24	4	1	0-20			✓	
3789	100-CR-1483 -000	PATTERSON BRANCH RD	10	4	1	80-100	✓	✓	✓	
4394	104-CR-1060 -000	PINE TOP RD	18	4	1	0-20		✓	✓	
4498	100-CR-1383 -000	PRATHER RD	24	4	1	0-20			✓	
4463	100-CR-1200 -000	PROVIDENCE RD	18	4	2	0-20		✓	✓	
4154	100-CR-1430 -000	RICHARDSON RD	21	4	1	0-20			✓	No centerline,
4163	100-CR-1430 -000	RICHARDSON RD	19	3	2	0-20		✓	✓	
4500	100-CR-1351P -000	RIDGEWOOD DR	20	4	1	0-20			✓	
4502	100-CR-1350S -000	ROBINSON WAY N	22	3	1	0-20			✓	
4503	100-CR-1350S -000	ROBINSON WAY N	22	4	1	0-20			✓	
4461	100-CR-1153 -000	ROSE RD	10	4	3	0-20		✓	✓	
4466	100-CR-1153 -000	ROSE RD	22	4	3	0-20			✓	
4368	100-CR-2049 -000	ROSEMILL LN	20	4	2	0-20			✓	
4472	100-CR-1954 -000	SANDY GAP RD	24	4	1	0-20			✓	
4450	100-CR-1494V -000	SCENIC VISTA DR	22	4	1	0-20			✓	
4476	100-CR-1336B -000	SCHOOL RD	24	4	1	0-20			✓	
4497	100-CR-1386 -000	SLATE BRANCH RD	22	4	1	0-20			✓	
3831	100-CS-1113 -000	SOUTH CENTRAL AVE	10	4	1	0-20		✓	✓	
4464	100-CR-1163 -000	STEWART RD	10	2	5	60-80	✓	✓	✓	
4496	100-CR-1494A -000	SUMMIT DR	20	4	1	0-20			✓	
4483	100-CR-1282 -000	TATEVILLE-ANTIOCH RD	17	4	2	0-20		✓	✓	
3827	100-CS-1335 -000	WASHINGTON DR	10	4	1	0-20		✓	✓	
3839	100-CS-1082 -000	WEST COLUMBIA ST	10	3	3	0-20		✓	✓	
3823	100-CR-1583 -000	WEST RIDGE RD	10	3	3	0-20		✓	✓	
3824	100-CR-1583 -000	WEST RIDGE RD	10	4	1	0-20		✓	✓	

Exhibit Pulaski-11: General Roadway Recommendations (2/2)



Bridge / Culvert Recommendations (Pulaski County)

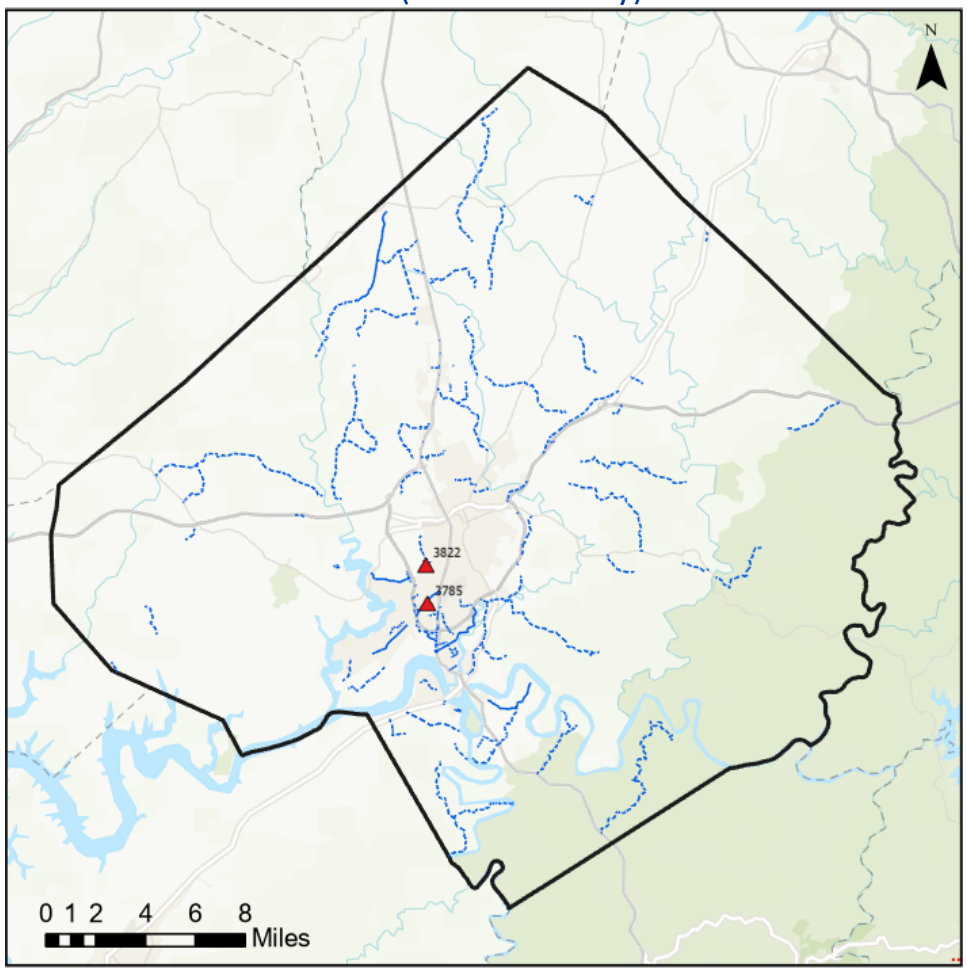


Exhibit Pulaski-12: Bridge / Culvert Locations

Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
3785	100-CR-1485 -000	BOURBON RD	25	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing.
3822	100-CR-2064 -000	DECK DR	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.

Exhibit Pulaski-13: Bridge / Culvert Recommendations

Curve Recommendations (Pulaski County)

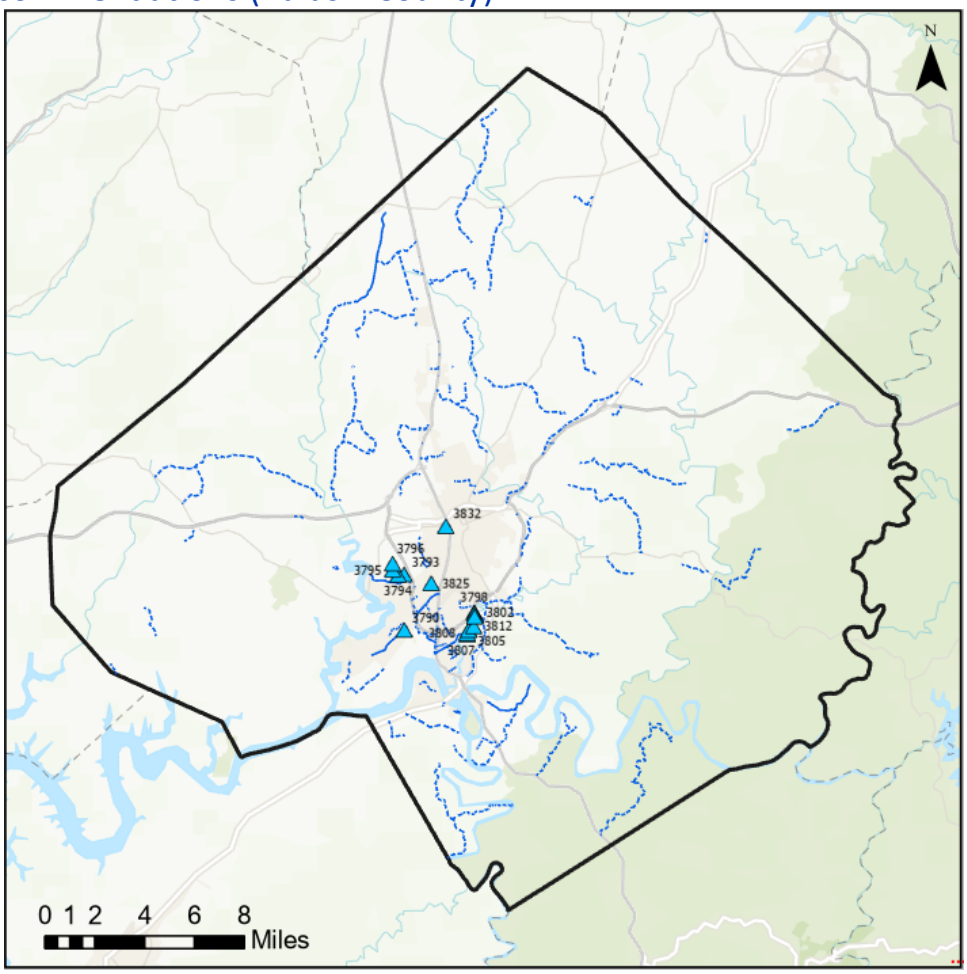


Exhibit Pulaski-14: Curve Locations

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations	Other
3790	100-CR-1378 -000	FERRY RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3793	100-KY-3261 -000	KY-3261	Other	No	Evaluate curve hazard	Drop off
3794	100-KY-3261 -000	KY-3261	Other	No	Evaluate curve hazard	Drop off
3795	100-KY-3261 -000	KY-3261	Curve Obscured,vegetation	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation	
3796	100-KY-3261 -000	KY-3261	Curve Obscured,vegetation	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation	
3798	100-CR-1338 -000	BOAT DOCK RD	Curve Obscured,vegetation	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation	
3800	100-CR-1338 -000	BOAT DOCK RD	vegetation,Curve Obscured	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation	
3802	100-CR-1338 -000	BOAT DOCK RD	Curve Obscured,Other	No	Evaluate curve hazard obstruction; install advance warning signs.	Rocks/side of road
3805	100-CR-1338 -000	BOAT DOCK RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3807	100-CR-1338 -000	BOAT DOCK RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3808	100-CR-1338 -000	BOAT DOCK RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3809	100-CR-1338 -000	BOAT DOCK RD	vegetation,Curve Obscured	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation	
3811	100-CR-1338 -000	BOAT DOCK RD	Other	No	Evaluate curve hazard	Road curb
3812	100-CR-1338 -000	BOAT DOCK RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3825	100-CS-1220 -000	GRAND CENTRAL BLVD	Other	No	Evaluate curve hazard	Cement siding
3832	100-CS-1242 -000	LANGDON ST	Other	No	Evaluate curve hazard	Cement blocks near road

Exhibit Pulaski-15: Curve Recommendations

Roadside Drop Off Recommendations (Pulaski County)

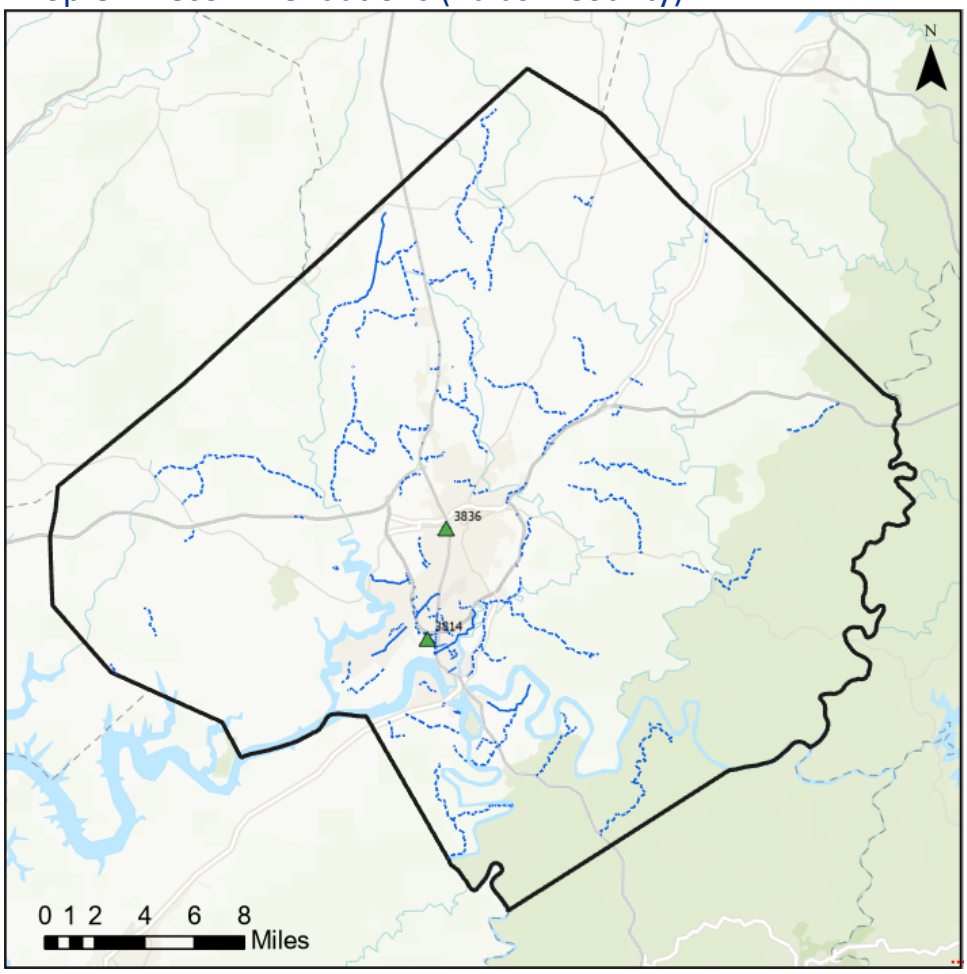


Exhibit Pulaski-16: Roadside Drop Off Locations

Point ID	RT_UNIQUE	RD_NAME	Drop Off Offset	Drop Off Height	Recommendations
3814	100-CR-1340J -000	EARL NEELY RD	0-1	5-10	Install Type 2 Object Marker(s) or Delineator(s)
3836	100-CS-1082 -000	WEST COLUMBIA ST	0-1	<2	Install Type 2 Object Marker(s) or Delineator(s)

Exhibit Pulaski-17: Roadside Drop Off Recommendations

Fixed Object Recommendations (Pulaski County)

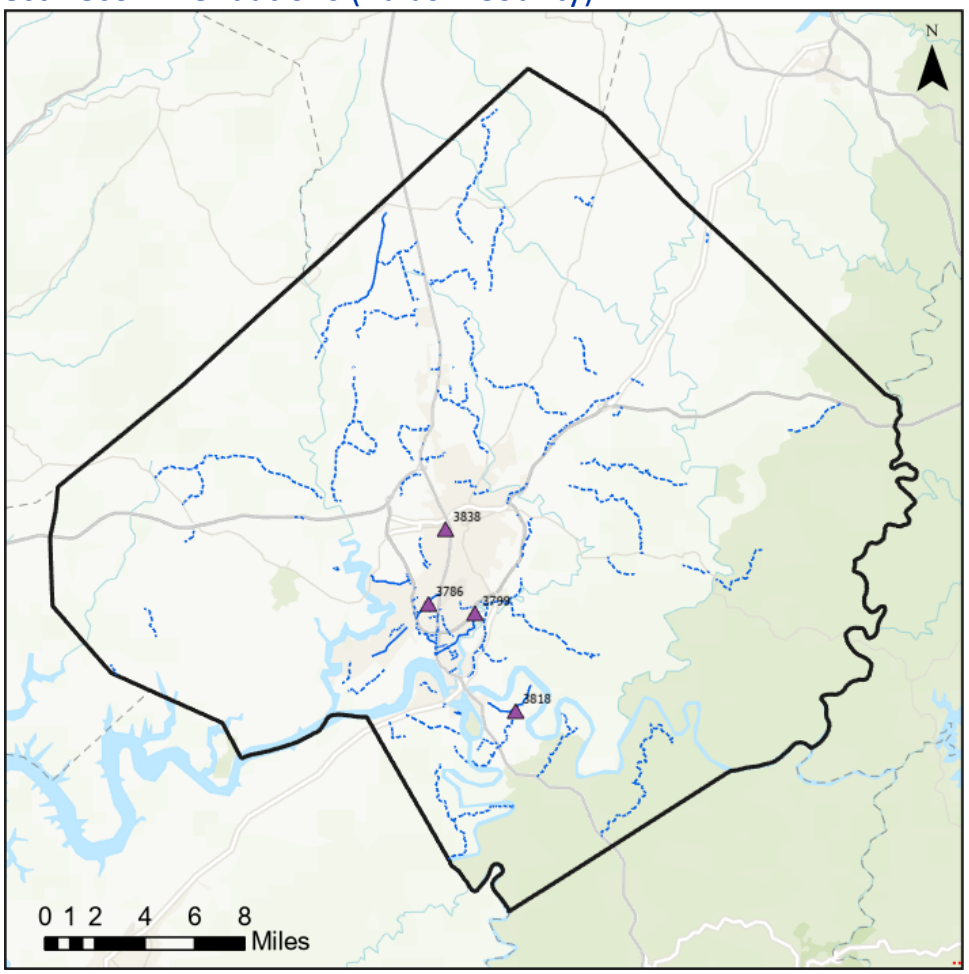


Exhibit Pulaski-18: Fixed Object Locations

Point ID	RT_UNIQUE	RD_NAME	Object	Single / Series	Offset	Recommendations	Other
3818	100-CR-1284 -000	ANTIOCH CHURCH RD	Tree	Single	1-3	Remove	
3799	100-CR-1338 -000	BOAT DOCK RD	Tree	Single	1-3	Remove	
3786	100-CR-1485 -000	BOURBON RD	Other	Single	1-3	Relocate mailbox further from road	Mailbox
3838	100-CS-1082 -000	WEST COLUMBIA ST	Tree	Single	3-5	Remove if possible; Install Type 2 Object Marker	

Exhibit Pulaski-19: Fixed Object Recommendations

Guardrail Recommendations (Pulaski County)

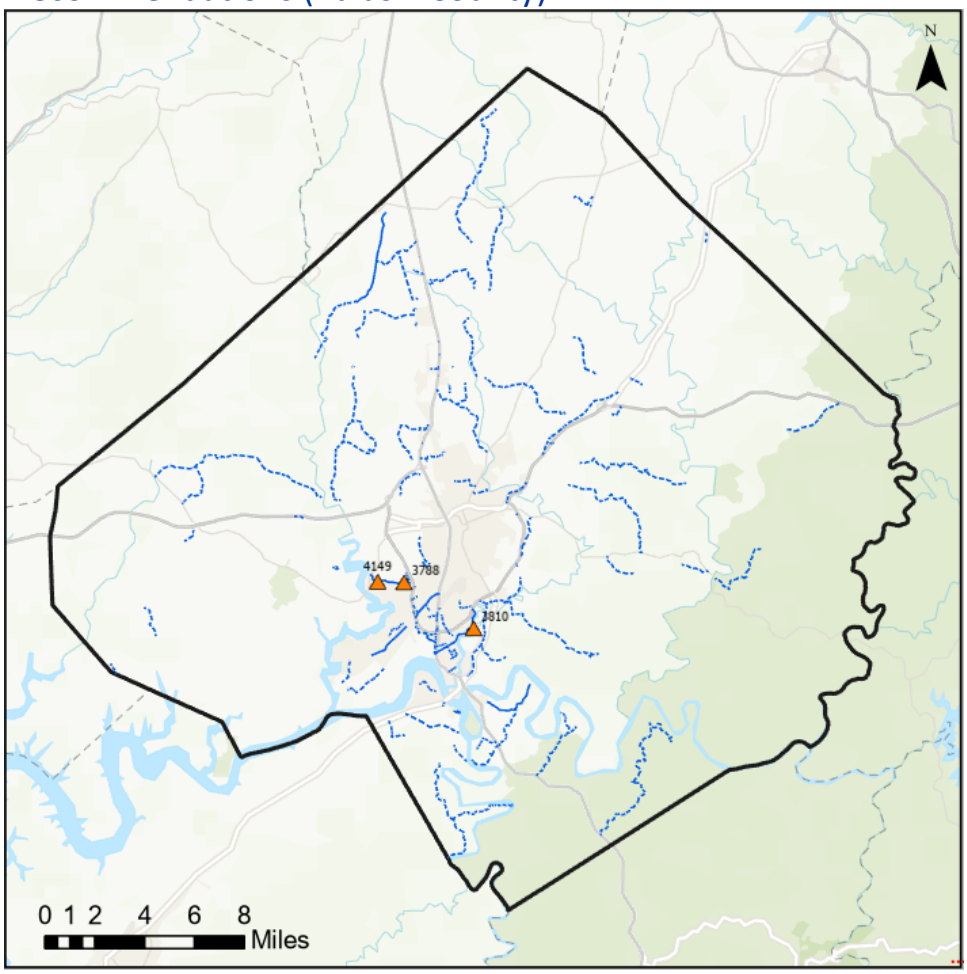


Exhibit Pulaski-20: Guardrail Locations

Point ID	RT_UNIQUE	RD_NAME	Guard Condition	Meet Warrants	End Treatments	Recommendations
3788	100-CR-1483 -000	PATTERSON BRANCH RD	Poor	No	None	Remove
3810	100-CR-1338 -000	BOAT DOCK RD	Poor	No	None	Remove
4149	100-CR-1483 -000	PATTERSON BRANCH RD	Fair	Yes	All	--

Exhibit Pulaski-21: Guardrail Recommendations

Intersection Recommendations (Pulaski County)

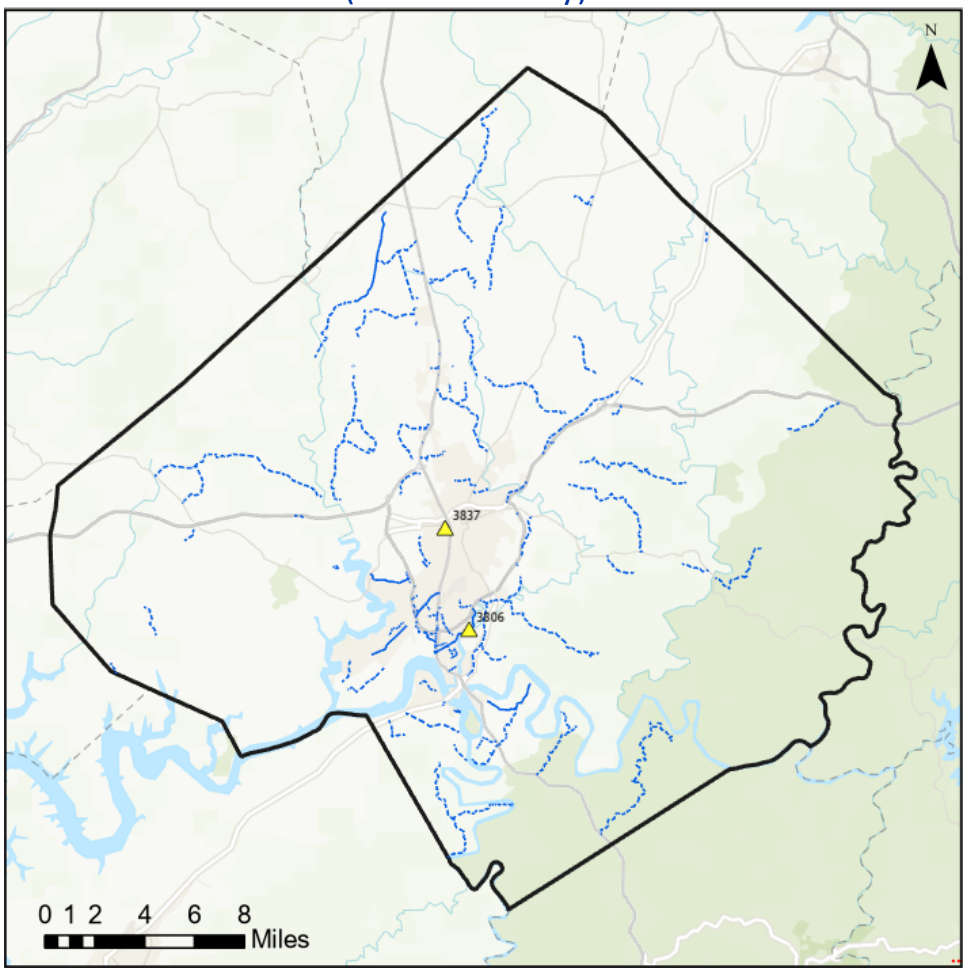


Exhibit Pulaski-22: Intersection Locations

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
3806	100-CR-1338 -000	BOAT DOCK RD	Intersection Skew,Insufficient Sight Distance at ,Other	No	Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection skew;evaluate sight distance ; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)
3837	100-CS-1082 -000	WEST COLUMBIA ST	Intersection Skew	No	Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection skew

Exhibit Pulaski-23: Intersection Recommendations

Other Recommendations (Pulaski County)

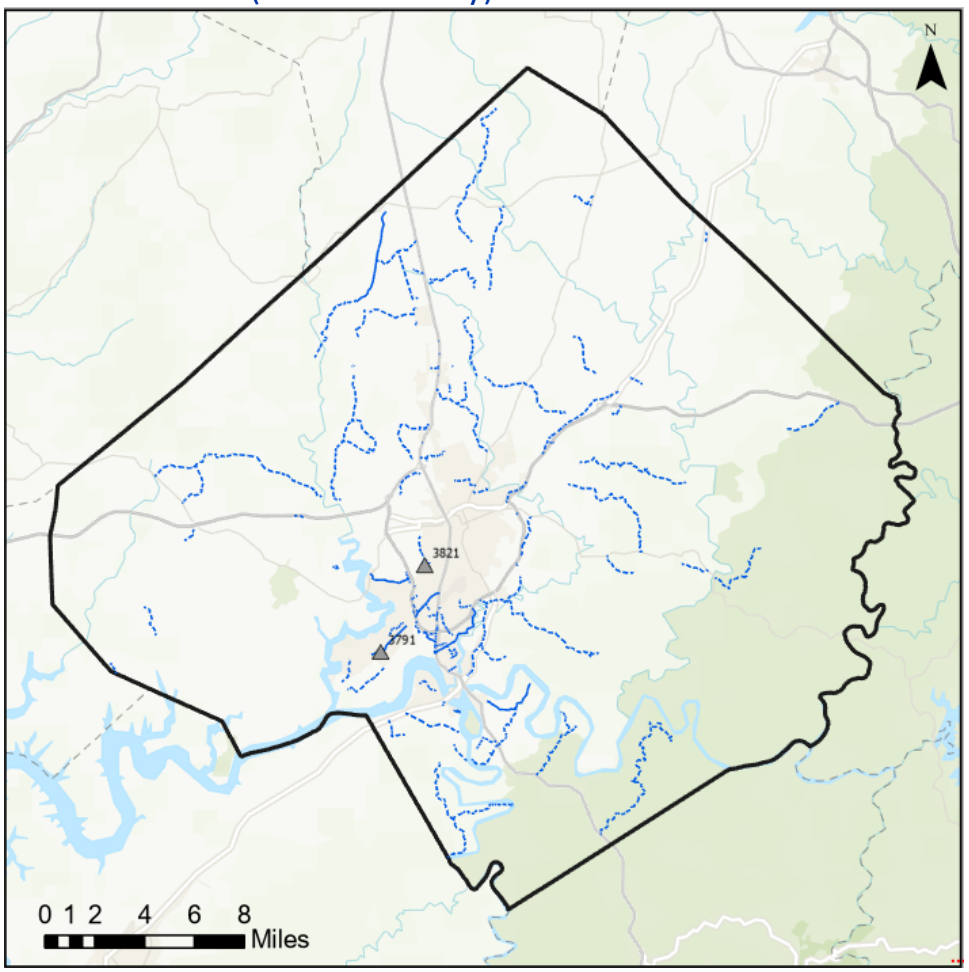


Exhibit Pulaski-24: Other Locations

Point ID	RT_UNIQUE	RD_NAME	Recommendations	Other
3791	100-CR-1378 -000	FERRY RD	Install "Hidden Driveway" sign; evaluate sight distance at intersection and potential to relocate if necessary	Blind driveway
3821	100-CR-2064 -000	DECK DR	remove rocks	Rocks in road

Exhibit Pulaski-25: Other Recommendations

Signing Recommendations (Pulaski County)

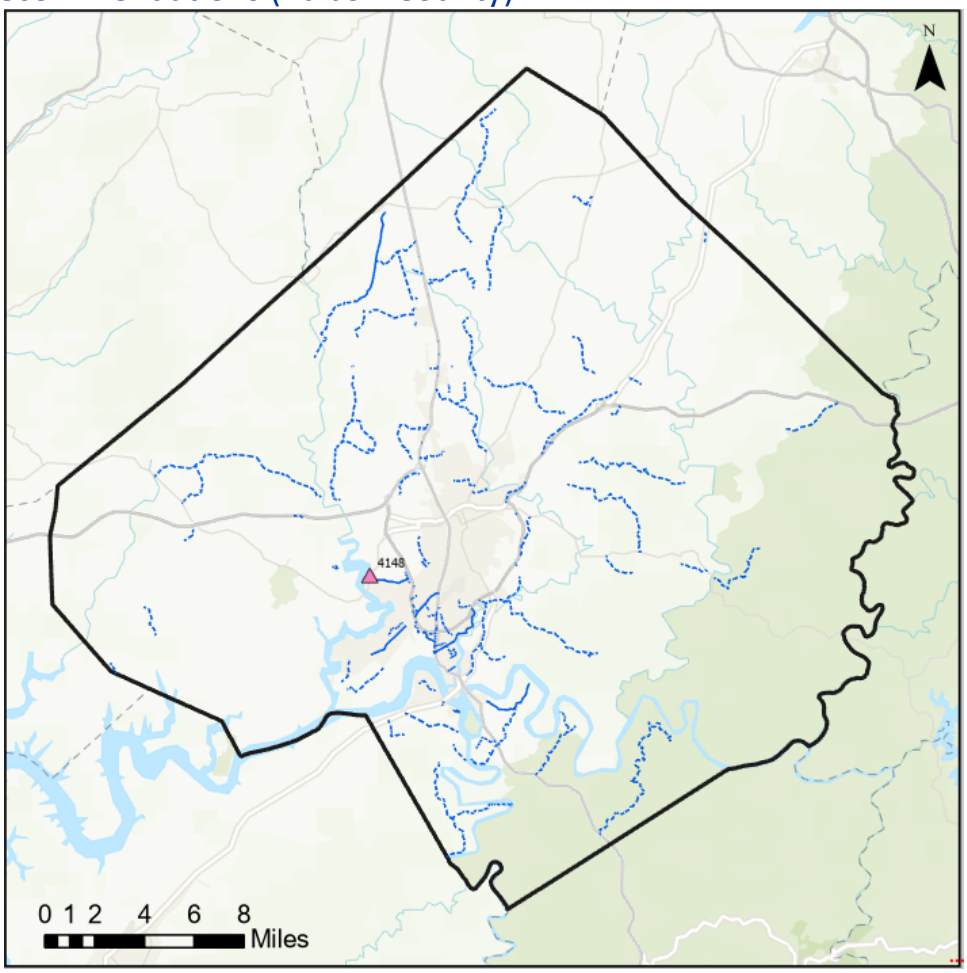


Exhibit Pulaski-26: Sign Locations

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/LCADDSAP.

APPENDIX K: RUSSELL COUNTY SAFETY ACTION PLAN

Russell County Overview

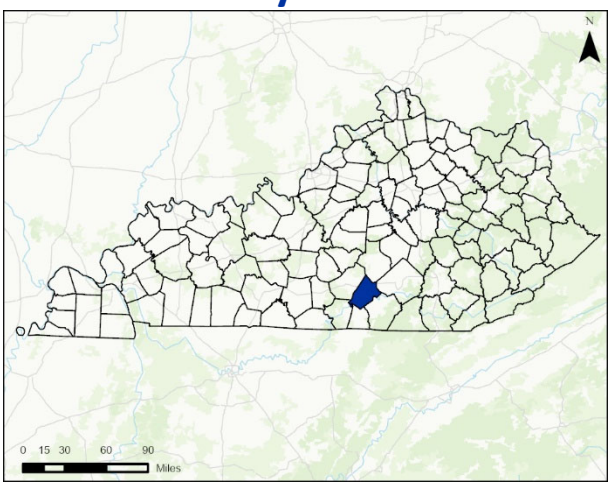


Exhibit Russell-1: Location Map

Key Information Table Russell County	
Population	18,279
Population in Persistent Poverty	31%
Underserved Community	**Yes**
Fatalities (All Roads)	16
Fatalities (County Roads)	5
Fatality Rate per 100,000 persons	**87.53**
County Road Mileage	425.1
State Road Mileage	197.5
Total Mileage	**622.6**

Exhibit Russell-2: Key Information

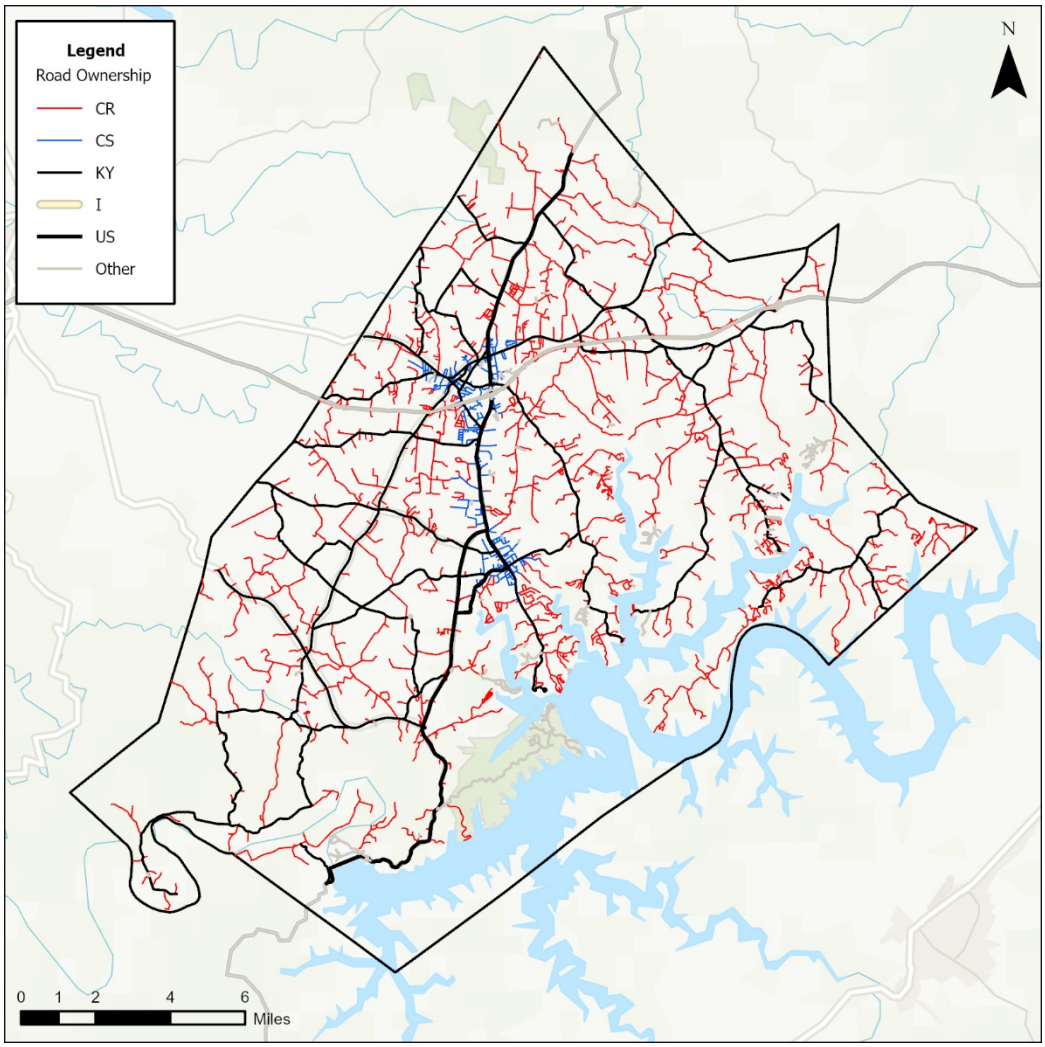


Figure Russell-3: Map of County Roadways

Crash Analysis

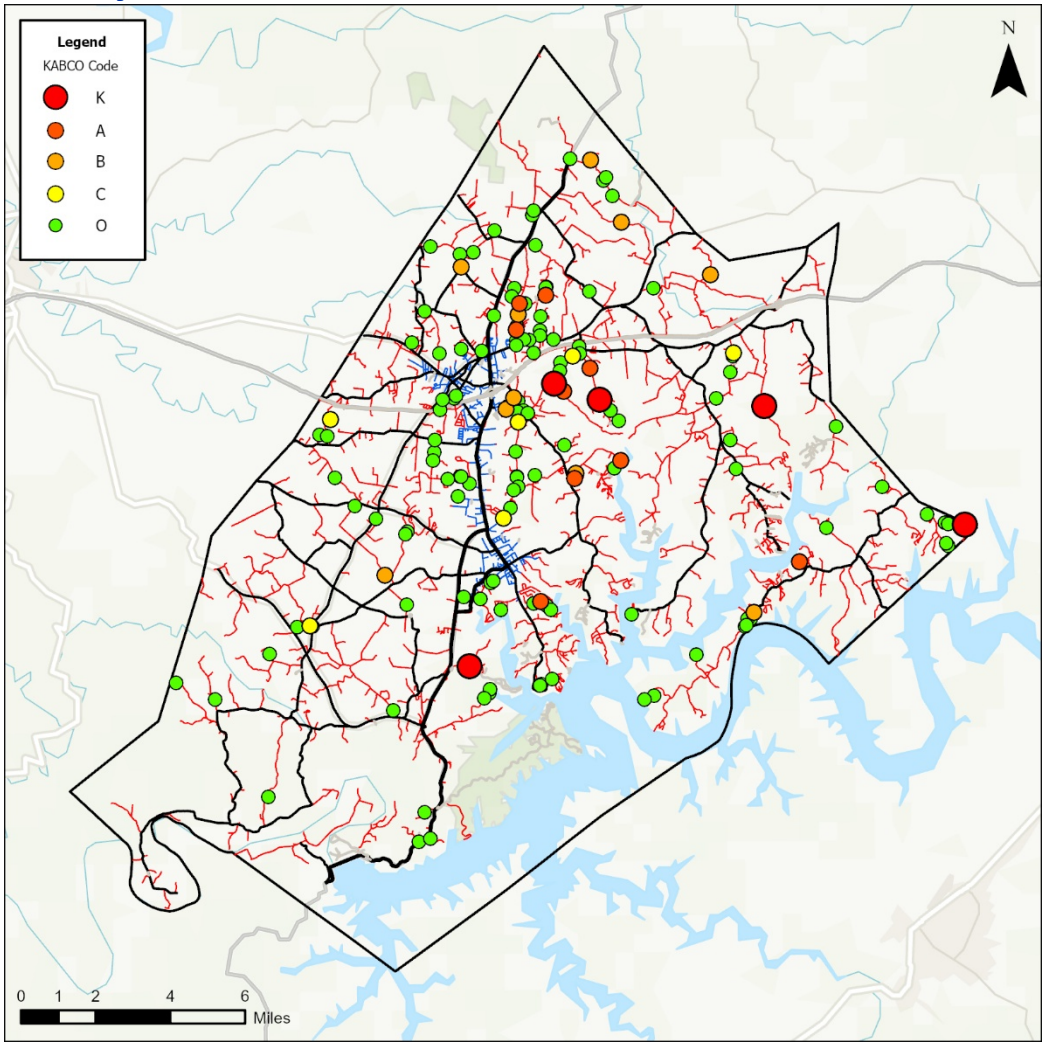
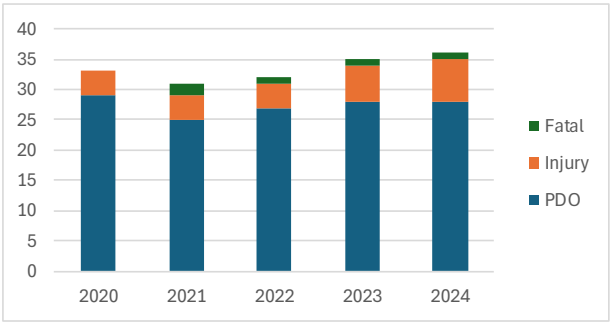


Figure Russell-4: Map of County Road Crashes



Year	Property Damage Only	Injury	Fatal	Total
2020	29	4	0	**33**
2021	25	4	2	**31**
2022	27	4	1	**32**
2023	28	6	1	**35**
2024	28	7	1	**36**

Table Russell-5: Crash Distribution by Year

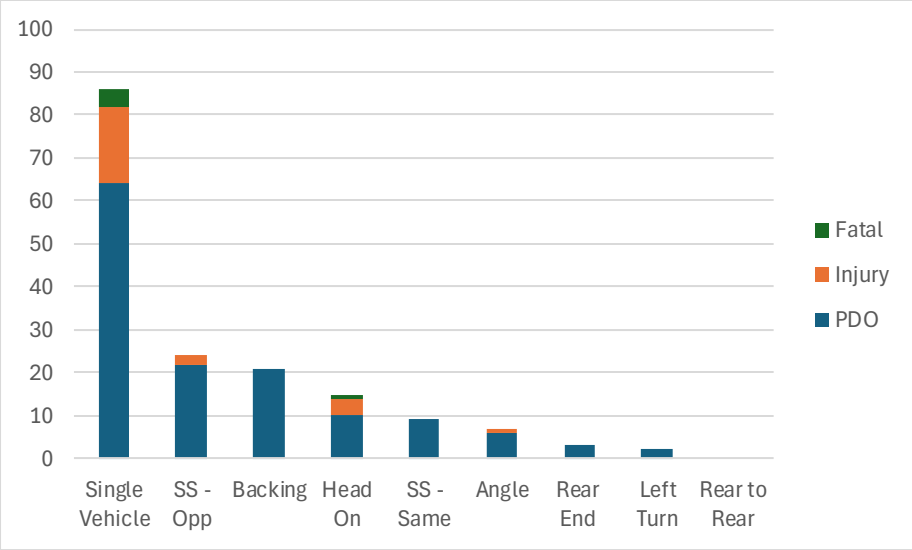


Exhibit Russell-6: Crash Frequency and Severity by Manner of Collision

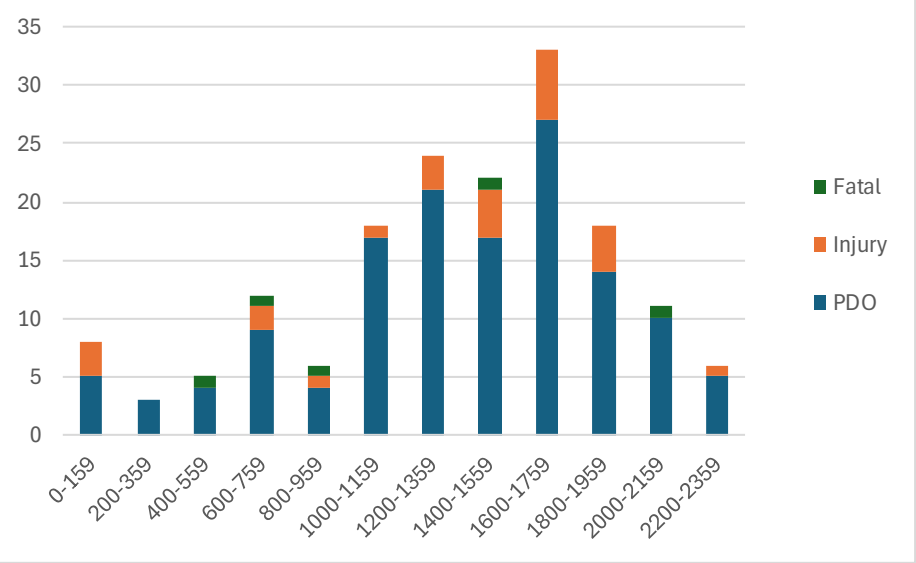


Exhibit Russell-7: Crashes and Severity by Time of Day

Focus Roadways

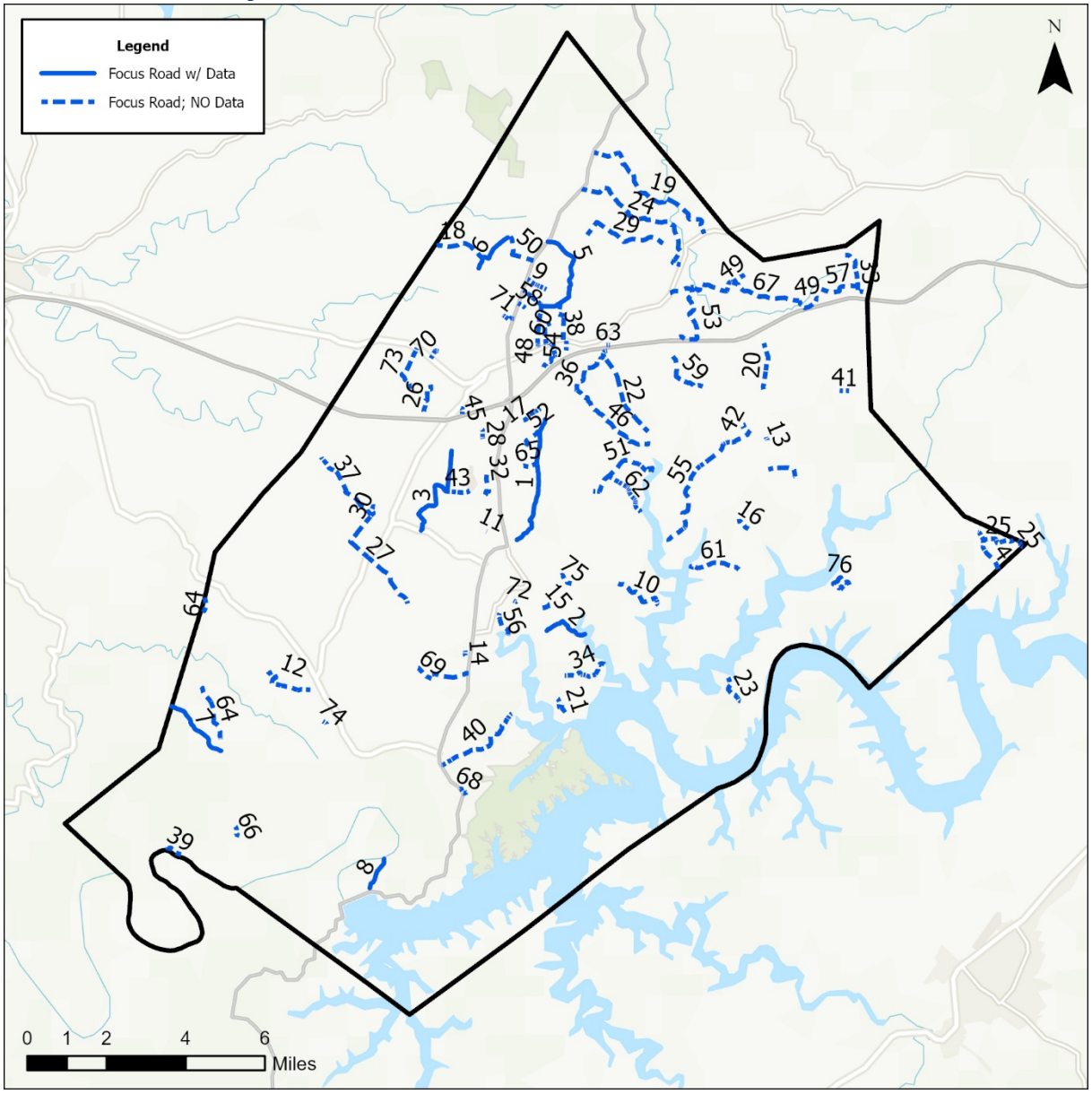


Exhibit Russell-8: Focus Roads

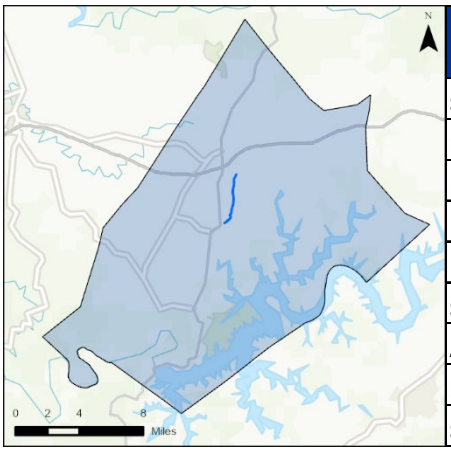
RT_UNIQUE	Length	County	Road Name	Injury Crashes	Fatal Crashes	PDO	CrashScore	UseScore	Rank	Focus Road	Data Point	Roadway Data
Russell County												
104-CR-1091 -000	**3.3**	**Russell**	**OLD CLEAR SPRINGS RD**	**2**	**1**	**5**	**3.33**	**3.17**	**1**	**1**	**12**	**1**
104-CR-1764 -000	**1.2**	**Russell**	**LILY CREEK RESORT RD**	**1**	**0**	**0**	**2.56**	**2.86**	**2**	**1**	**5**	**2**
104-CR-1427 -000	**3.0**	**Russell**	**ARLIS HALE RD**	**1**	**1**	**1**	**2.18**	**2.07**	**3**	**1**	**8**	**1**
104-CR-1171 -000	1.5	Russell	RICHARDSON RD	0	0	0	0.00	4.01	4	1	0	0
104-CR-1085 -000	**2.6**	**Russell**	**JERICHO RD**	**0**	**1**	**3**	**1.42**	**1.75**	**5**	**1**	**5**	**0**
104-CR-1375 -000	**1.2**	**Russell**	**MT. OLIVE CREEK RD**	**1**	**0**	**2**	**1.02**	**2.04**	**6**	**1**	**3**	**1**
104-CR-1282 -000	**1.8**	**Russell**	**MELSON RIDGE RD**	**0**	**0**	**1**	**0.07**	**2.77**	**7**	**1**	**4**	**1**
104-CR-1250 -000	**0.9**	**Russell**	**RAY MANN RD**	**0**	**0**	**0**	**0.00**	**2.83**	**8**	**1**	**1**	**1**
104-CR-1445A -000	0.5	Russell	HEMLOCK DR	0	0	0	0.00	2.76	9	1	0	0
104-CR-1188 -000	1.4	Russell	ROSIN RIDGE RD	0	0	0	0.00	2.72	10	1	0	0
104-CR-1738 -000	0.0	Russell	MONK SPRINGS RD	0	0	0	0.00	2.60	11	1	0	0
104-CR-1277 -000	1.5	Russell	STODD RD	0	0	0	0.00	2.59	12	1	0	0
104-CR-1513 -000	0.1	Russell	WELL RD	0	0	0	0.00	2.55	13	1	0	0
104-CR-1828 -000	0.2	Russell	SHIRLEY DR	0	0	0	0.00	2.54	14	1	0	0
104-CR-1772 -000	0.4	Russell	DEER TRL CIR	0	0	0	0.00	2.50	15	1	0	0
104-CR-1523 -000	0.4	Russell	BRANCHVIEW LN	0	0	0	0.00	2.44	16	1	0	0
104-CR-1342K -000	0.5	Russell	VOILS RD	0	0	2	0.13	2.24	17	1	0	0
104-CR-1374 -000	1.3	Russell	SANO RD	0	0	1	0.07	2.26	18	1	0	0
104-CR-1072 -000	4.2	Russell	DECATUR RD	0	0	4	0.27	2.06	19	1	0	0
104-CR-1024 -000	1.2	Russell	PATTERSON RD	0	0	1	0.07	2.24	20	1	0	0
104-CR-1154A -000	0.6	Russell	JAMESTOWN MARINA RESORT	0	0	2	0.13	2.07	21	1	0	0
104-CR-1094 -000	2.5	Russell	MCCLENDON RIDGE RD	1	0	2	1.02	1.18	22	1	0	0
104-CR-1729 -000	0.8	Russell	ISLAND RAMP RD	0	0	1	0.07	2.01	23	1	0	0
104-CR-1069 -000	4.1	Russell	PATTIE RIDGE RD	0	0	1	0.07	1.93	24	1	0	0
104-CR-1173 -000	1.2	Russell	POTTERSHOP RD	0	0	1	0.07	1.90	25	1	0	0
104-CR-1442 -000	0.8	Russell	G V HALE AVE	0	0	0	0.00	1.96	26	1	0	0
104-CR-1306 -000	3.0	Russell	BLAIR RD	2	0	1	1.84	0.11	27	1	0	0
104-CR-1575 -000	0.2	Russell	CASTLE HEIGHTS RD	0	0	0	0.00	1.95	28	1	0	0
104-CR-1082 -000	2.3	Russell	WEBB RIDGE RD	0	0	0	0.00	1.91	29	1	0	0
104-CR-1495 -000	0.3	Russell	THE MEADOWS	0	0	0	0.00	1.83	30	1	0	0
104-CR-1064 -000	0.9	Russell	OLIVER THOMAS RD	0	0	0	0.00	1.81	31	1	0	0
104-CR-1454 -000	0.6	Russell	GENEVA DR	0	0	0	0.00	1.78	32	1	0	0
104-CR-1060 -000	1.4	Russell	PINE TOP RD	0	0	0	0.00	1.66	33	1	0	0
104-CR-1147 -000	1.3	Russell	SCOTTS CHAPEL RD	0	0	0	0.00	1.66	34	1	0	0
104-CR-1357 -000	1.7	Russell	OWENSTOWN SCHOOL RD	0	0	5	0.33	1.32	35	1	0	0
104-CR-1537 -000	1.4	Russell	EAST WEST WILSON RD	0	0	0	0.00	1.62	36	1	0	0
104-CR-1420 -000	2.1	Russell	MOUNT PLEASANT RD	1	0	0	0.89	0.67	37	1	0	0
104-CR-1355 -000	1.0	Russell	BOLIN RD	0	0	2	0.13	1.42	38	1	0	0
104-CR-1819 -000	0.4	Russell	BELL HARBOR DR	0	0	0	0.00	1.53	39	1	0	0
104-CR-1129 -000	2.5	Russell	CLIFTY CREEK RD	0	0	0	0.00	1.44	40	1	0	0
104-CR-1634 -000	0.2	Russell	T GOSSER RD	0	0	0	0.00	1.43	41	1	0	0
104-CR-1576 -000	0.2	Russell	CUMBERLAND CT	0	0	0	0.00	1.42	42	1	0	0
104-CR-1431 -000	0.6	Russell	AIRPORT RD	0	0	2	0.13	1.28	43	1	0	0
104-CR-1018 -000	0.8	Russell	V. FRANK RD	0	0	0	0.00	1.35	44	1	0	0
104-CR-1349 -000	0.2	Russell	CASSIE COE RD	0	0	0	0.00	1.32	45	1	0	0
104-CR-1635 -000	2.5	Russell	OLD DUNBAR RD	1	0	0	0.89	0.39	46	1	0	0
104-CR-1216 -000	1.0	Russell	STORY LN	0	0	0	0.00	1.24	47	1	0	0
104-CR-1350A -000	0.8	Russell	WEST RD	0	0	2	0.13	1.10	48	1	0	0
104-CR-1040 -000	3.7	Russell	EAST MOUNT EDEN RD	0	0	0	0.00	1.23	49	1	0	0
104-CR-1376 -000	1.0	Russell	FIELDS RD	0	0	1	0.07	1.16	50	1	0	0
104-CR-1104 -000	2.2	Russell	STEPHENS RIDGE RD	0	0	2	0.13	1.07	51	1	0	0
104-CR-1465 -000	0.6	Russell	LANDFILL RD	0	0	0	0.00	1.20	52	1	0	0
104-CR-1035 -000	1.9	Russell	YELLOW APPLE RDG RD	0	0	1	0.07	1.13	53	1	0	0
104-CR-1350Q -000	0.2	Russell	STONE BROOKE PL	0	0	0	0.00	1.19	54	1	0	0
104-CR-1003 -000	4.0	Russell	PARKS RIDGE RD	0	0	1	0.07	1.12	55	1	0	0
104-CR-1136 -000	0.7	Russell	FOX POINT RD	0	0	0	0.00	1.15	56	1	0	0
104-CR-1061 -000	1.0	Russell	ARMILOUS RD	0	0	0	0.00	1.15	57	1	0	0
104-CR-1387 -000	0.2	Russell	W. E. THOMAS RD	0	0	1	0.07	1.08	58	1	0	0
104-CR-1032 -000	1.3	Russell	WILSONTOWN RD	0	0	0	0.00	1.14	59	1	0	0
104-CR-1350H -000	0.6	Russell	FOLEY RD	0	0	0	0.00	1.13	60	1	0	0
104-CR-1179 -000	1.4	Russell	OLD JAMESTOWN RD	0	0	0	0.00	1.13	61	1	0	0
104-CR-1105 -000	1.3	Russell	JOHN ST	0	0	0	0.00	1.07	62	1	0	0
104-CR-1122 -000	0.1	Russell	HAPPY VALLEY RD	1	0	0	0.89	0.17	63	1	0	0
104-CR-1285 -000	4.3	Russell	CROCUS RD	0	0	1	0.07	0.99	64	1	0	0
104-CR-1435 -000	0.4	Russell	CORBIN W RD	0	0	0	0.00	1.01	65	1	0	0
104-CR-1265 -000	0.3	Russell	J. REEDER LN	0	0	0	0.00	0.99	66	1	0	0
104-CR-1037 -000	3.8	Russell	MT. EDEN RD	0	0	0	0.00	0.99	67	1	0	0
104-CR-1206 -000	0.3	Russell	KERNS CEMETERY RD	0	0	0	0.00	0.98	68	1	0	0
104-CR-1232 -000	0.5	Russell	BETHEL CHURCH RD	0	0	0	0.00	0.98	69	1	0	0
104-CR-1394G -000	0.3	Russell	CAREY RD	0	0	0	0.00	0.97	70	1	0	0
104-CR-1360A -000	0.3	Russell	STEPHENS LN	0	0	1	0.07	0.90	71	1	0	0
104-CR-1718 -000	0.1	Russell	COUNTRY LN	0	0	0	0.00	0.97	72	1	0	0
104-CR-1393 -000	1.2	Russell	LITTLE CLIFTY CREEK RD	1	0	0	0.89	0.08	73	1	0	0
104-CR-1272 -000	0.1	Russell	SOUTH HADLEY CEMETERY SPUR	1	0	0	0.89	0.07	74	1	0	0
104-CR-1139 -000	0.4	Russell	BRAXTON RD	1	0	0	0.89	0.06	75	1	0	0
104-CR-1716 -000	1.0	Russell	SHAWNEE TRAIL RD	1	0	0	0.89	0.06	76	1	0	0

Exhibit Russell-9: List of Focus Roadways

Recommended Improvements (Top 5 Roads)

OLD CLEAR SPRINGS RD (104-CR-1091 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	2	1	0	**3**
Head On	1	1	0	**2**
Backing	2	0	0	**2**
Rear End	1	0	0	**1**
Rear to Rear	0	0	0	**0**
SS - Same	0	0	0	**0**
Angle	0	0	0	**0**
Left Turn	0	0	0	**0**
SS - Opp	0	0	0	**0**

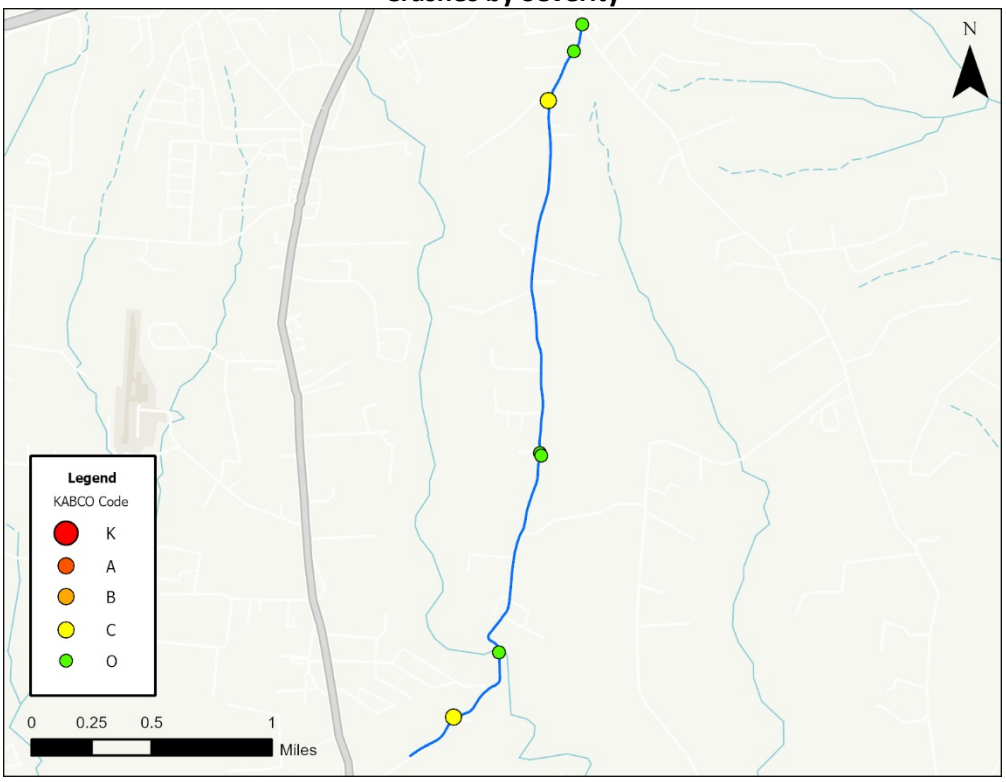
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
3917	104-CR-1091 -000	OLD CLEAR SPRINGS RD	10	1	7	40-60	✓	✓	✓

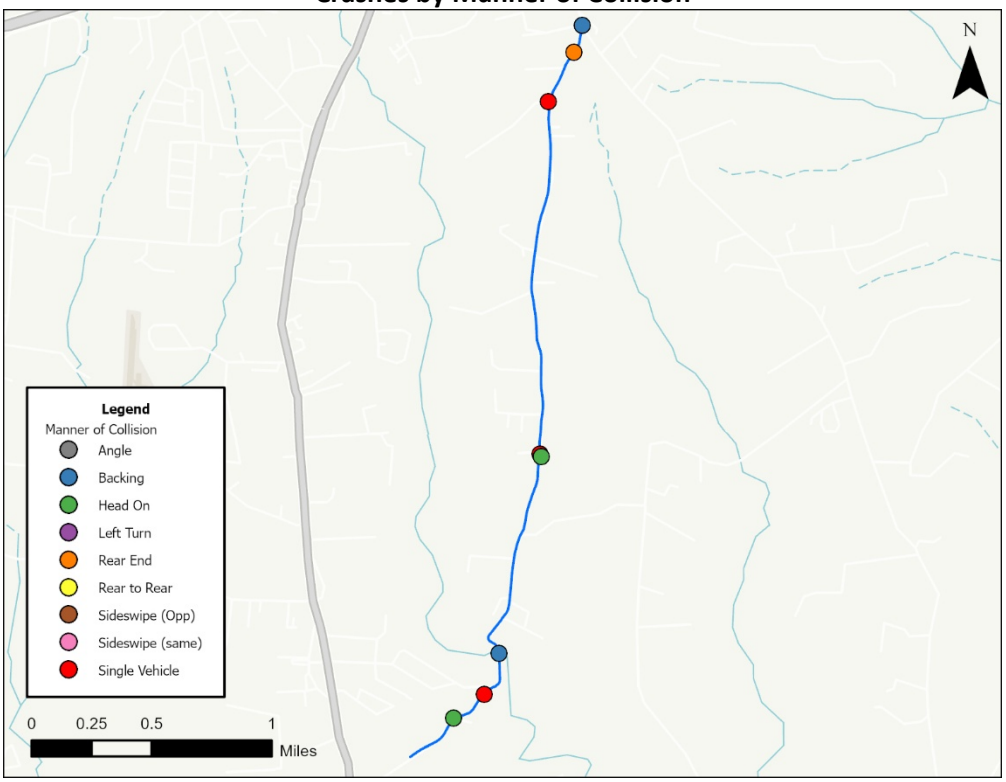
Roadway Typical Section



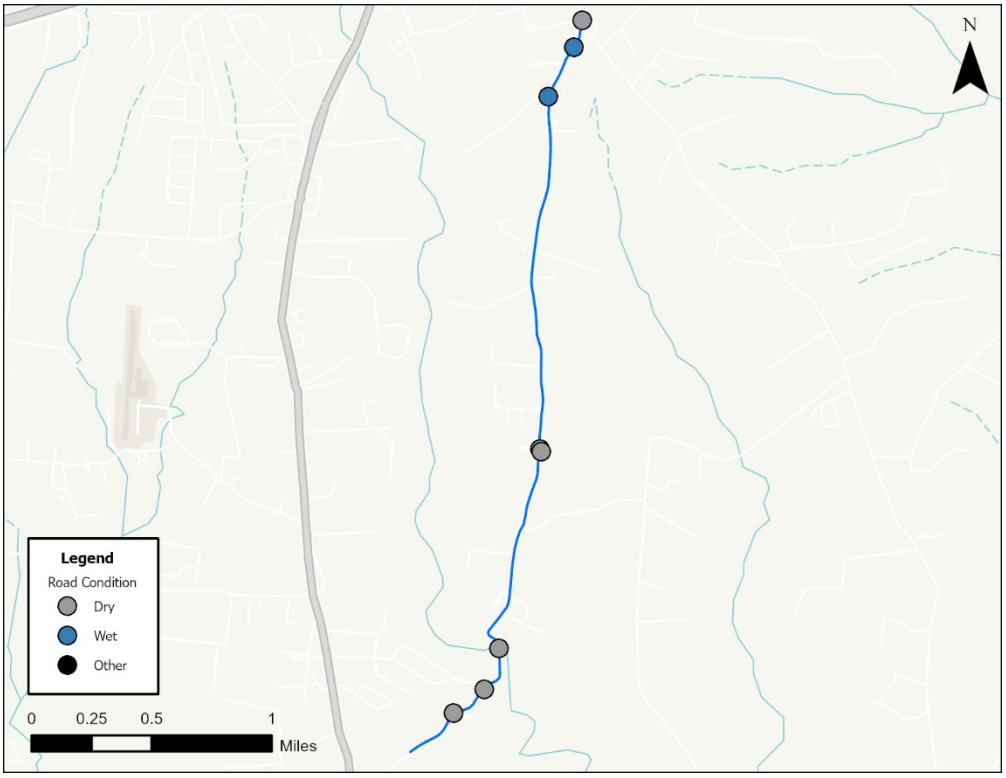
Crashes by Severity



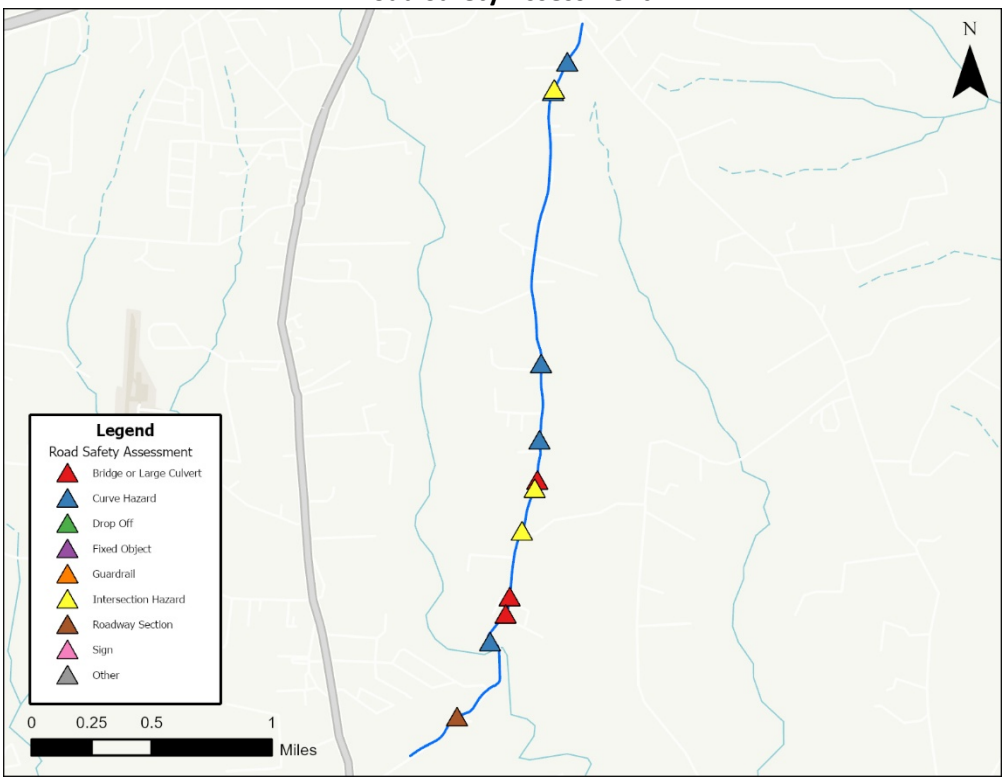
Crashes by Manner of Collision



Road Conditions



Road Safety Assessment



General Recommendations

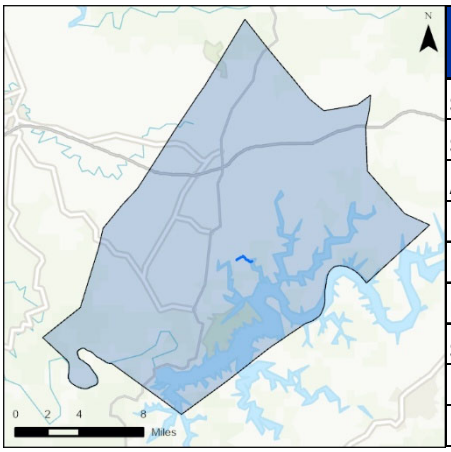
Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
3911	104-CR-1091 -000	OLD CLEAR SPRINGS RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3914	104-CR-1091 -000	OLD CLEAR SPRINGS RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3915	104-CR-1091 -000	OLD CLEAR SPRINGS RD	10	4	4	Install "One Lane Bridge" (W5-1) Sign.

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
3906	104-CR-1091 -000	OLD CLEAR SPRINGS RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
3908	104-CR-1091 -000	OLD CLEAR SPRINGS RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
3909	104-CR-1091 -000	OLD CLEAR SPRINGS RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
3910	104-CR-1091 -000	OLD CLEAR SPRINGS RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
3916	104-CR-1091 -000	OLD CLEAR SPRINGS RD	Curve Obscured,vegetation	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
3907	104-CR-1091 -000	OLD CLEAR SPRINGS RD	Intersection Obscured on Approa	Yes	Clear vegetation and evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)
3912	104-CR-1091 -000	OLD CLEAR SPRINGS RD	Intersection Obscured on Approa,Insufficient Sight	Yes	Clear vegetation and evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)
3913	104-CR-1091 -000	OLD CLEAR SPRINGS RD	Intersection Obscured on Approa,Insufficient Sight	No	Evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)

LILY CREEK RESORT RD (104-CR-1764 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	1	1	0	**2**
SS - Opp	1	0	0	**1**
Angle	1	0	0	**1**
Head On	0	0	0	**0**
Left Turn	0	0	0	**0**
Backing	0	0	0	**0**
SS - Same	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

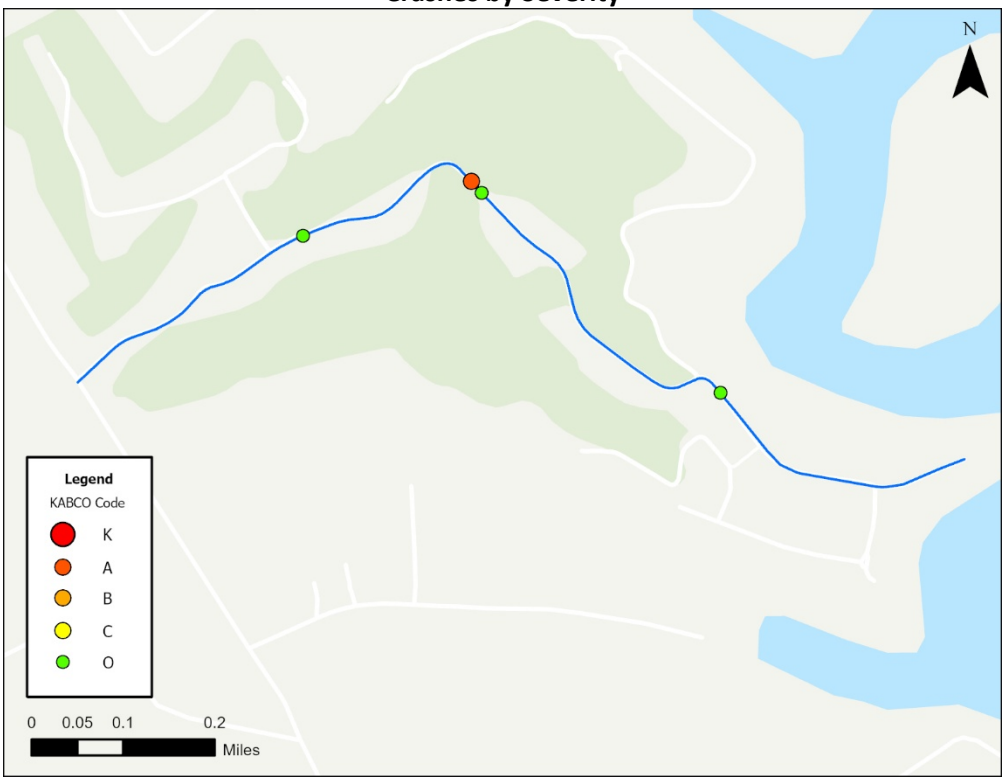
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
3928	104-CR-1764 -000	LILY CREEK RESORT RD	10	3	2	0-20		✓	✓
3931	104-CR-1764 -000	LILY CREEK RESORT RD	10	4	1	0-20		✓	✓

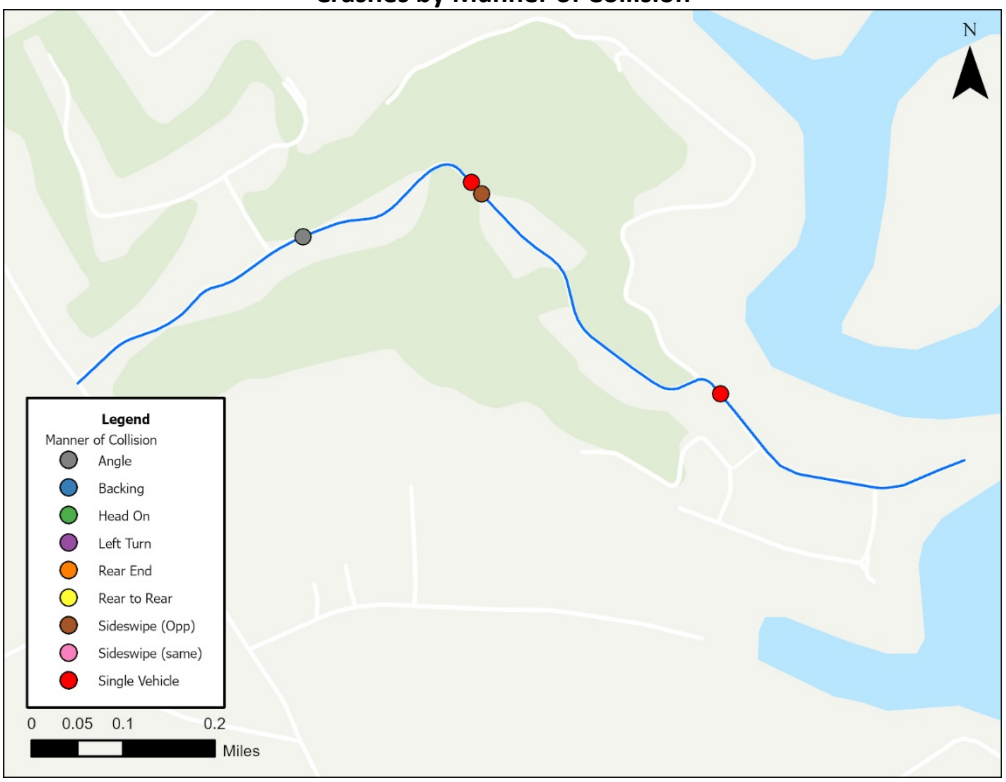
Roadway Typical Section



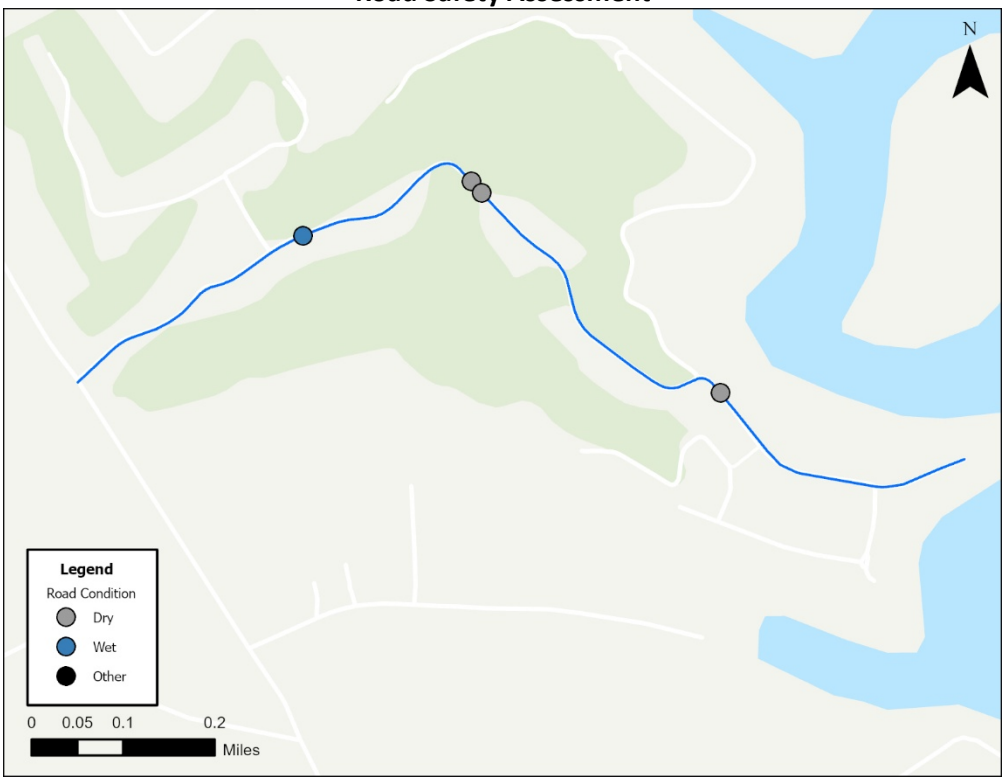
Crashes by Severity



Crashes by Manner of Collision



Road Safety Assessment



Road Safety Assessment



General Recommendations

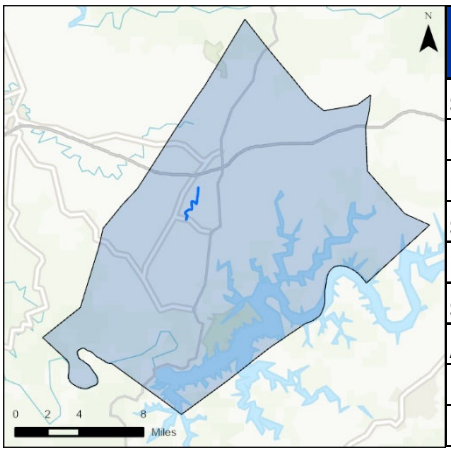
Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
3929	104-CR-1764 -000	LILY CREEK RESORT RD	0	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing.

Point ID	RT_UNIQUE	RD_NAME	Drop Off Offset	Drop Off Height	Recommendations
3930	104-CR-1764 -000	LILY CREEK RESORT RD	0-1	<2	Install Type 2 Object Marker(s) or Delineator(s)

Point ID	RT_UNIQUE	RD_NAME	Object	Single / Series	Offset	Recommendations
3927	104-CR-1764 -000	LILY CREEK RESORT RD	Tree	Single	1-3	Remove

ARLIS HALE RD (104-CR-1427 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	2	0	0	**2**
Backing	1	0	0	**1**
Left Turn	0	0	0	**0**
SS - Same	0	0	0	**0**
Head On	0	0	0	**0**
SS - Opp	0	0	0	**0**
Angle	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

General Roadway Conditions

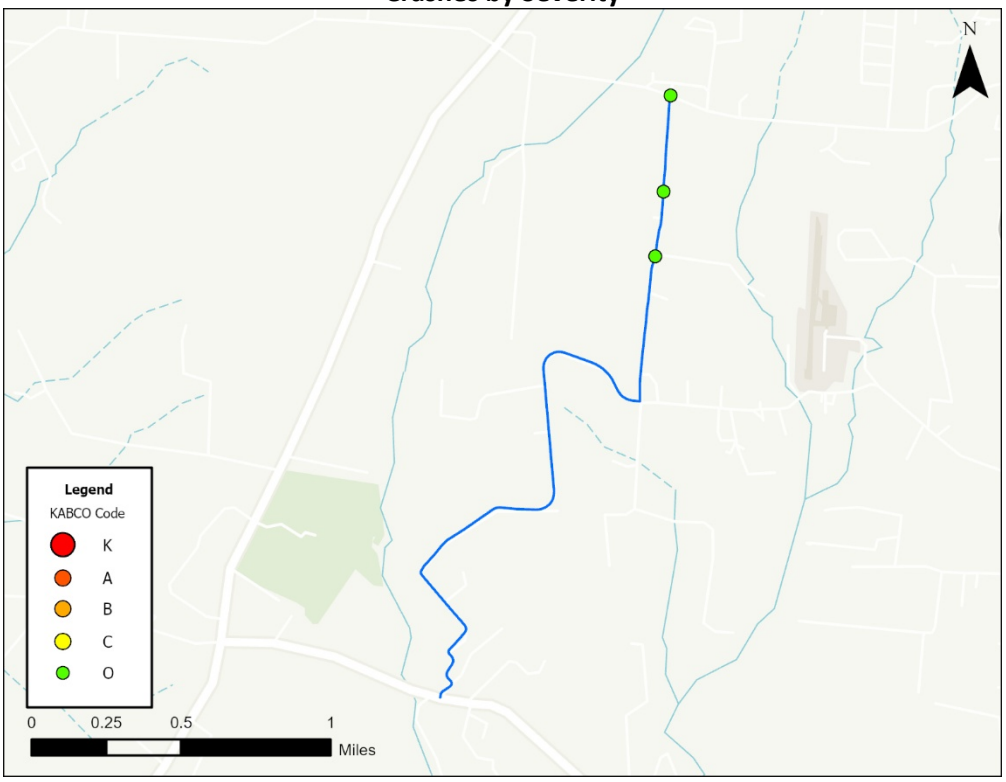
Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
3924	104-CR-1427 -000	ARLIS HALE RD	10	4	1	0-20		✓	✓

Roadway Typical Section

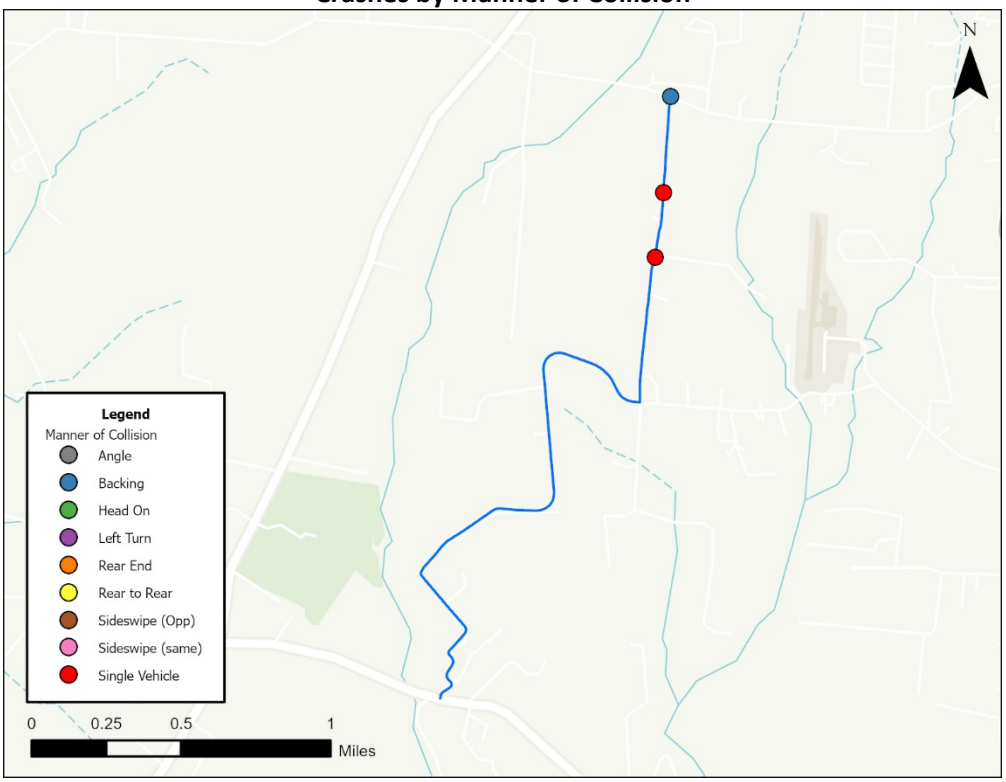




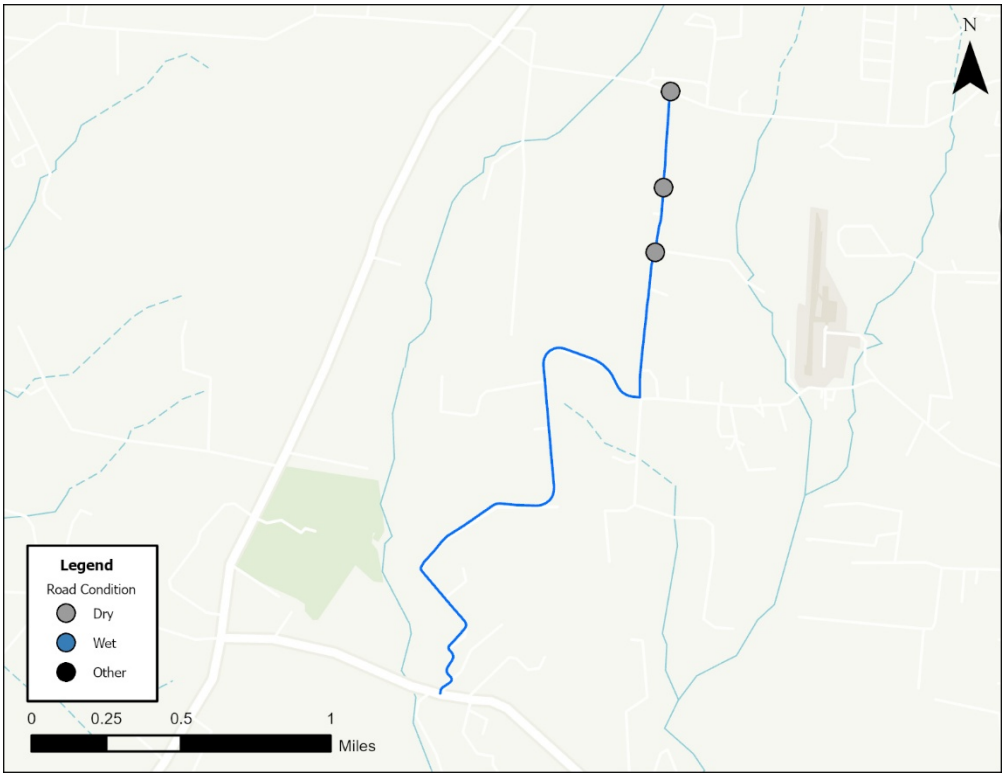
Crashes by Severity



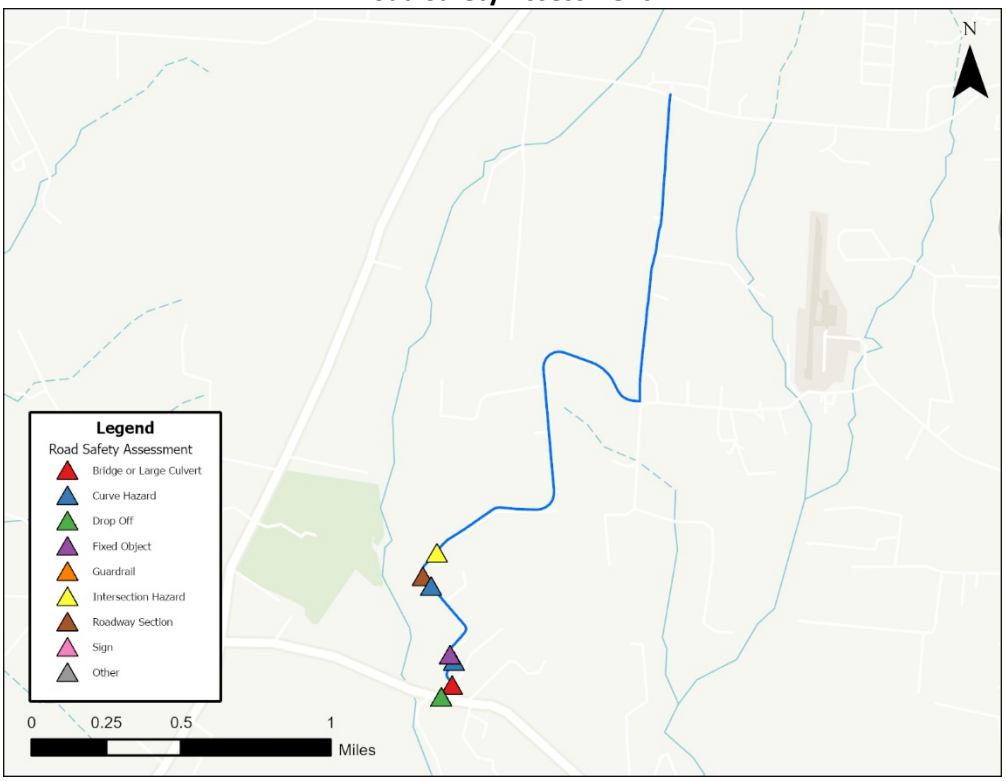
Crashes by Manner of Collision



Road Conditions



Road Safety Assessment



General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
3920	104-CR-1427 -000	ARLIS HALE RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations	Other
3919	104-CR-1427 -000	ARLIS HALE RD	Other	No	Evaluate curve hazard	Tight curve drops slightly into yard
3921	104-CR-1427 -000	ARLIS HALE RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3923	104-CR-1427 -000	ARLIS HALE RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	

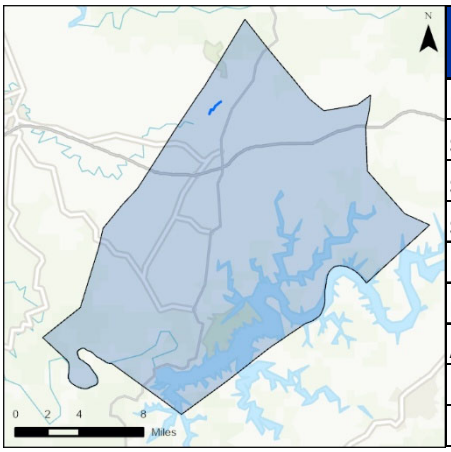
Point ID	RT_UNIQUE	RD_NAME	Drop Off Offset	Drop Off Height	Recommendations
3918	104-CR-1427 -000	ARLIS HALE RD	0-1	2-5	Install Type 2 Object Marker(s) or Delineator(s)

Point ID	RT_UNIQUE	RD_NAME	Object	Single / Series	Offset	Recommendations
3922	104-CR-1427 -000	ARLIS HALE RD	Tree	Single	3-5	Remove if possible; Install Type 2 Object Marker

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
3925	104-CR-1427 -000	ARLIS HALE RD	Intersection Obscured on Approa,Insufficient Sight Distance	No	Evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)

MT. OLIVE CREEK RD (104-CR-1375 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Left Turn	1	0	0	**1**
Single Vehicle	0	1	0	**1**
SS - Opp	0	0	0	**0**
SS - Same	0	0	0	**0**
Head On	0	0	0	**0**
Backing	0	0	0	**0**
Angle	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

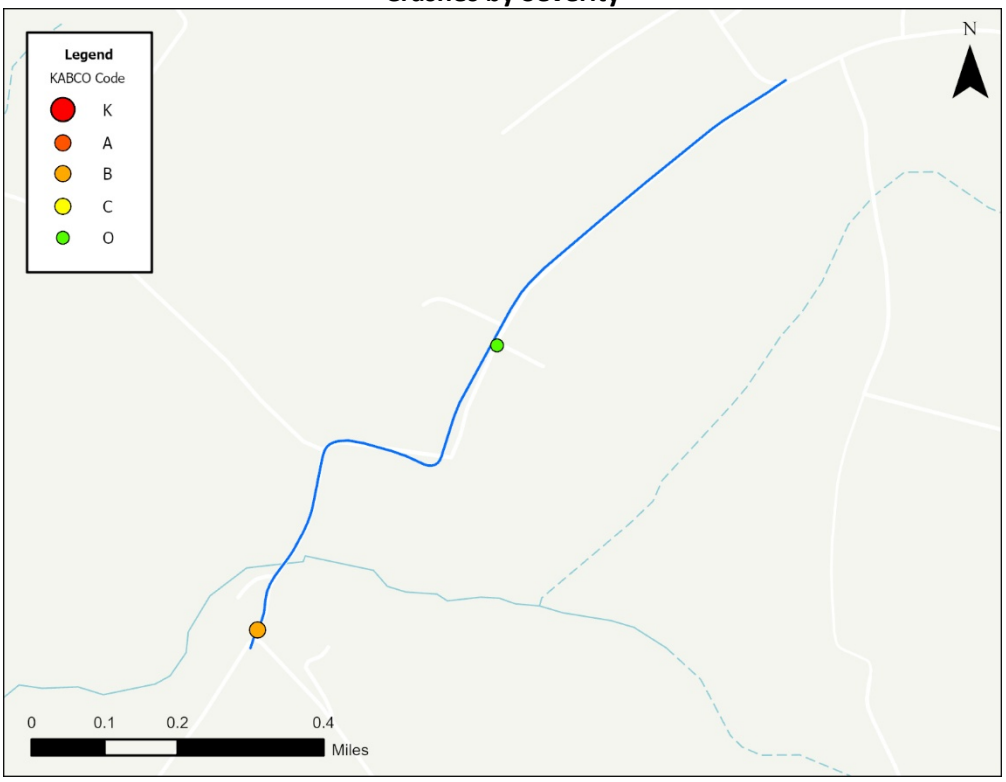
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
3939	104-CR-1375 -000	MT. OLIVE CREEK RD	10	4	1	0-20		✓	✓

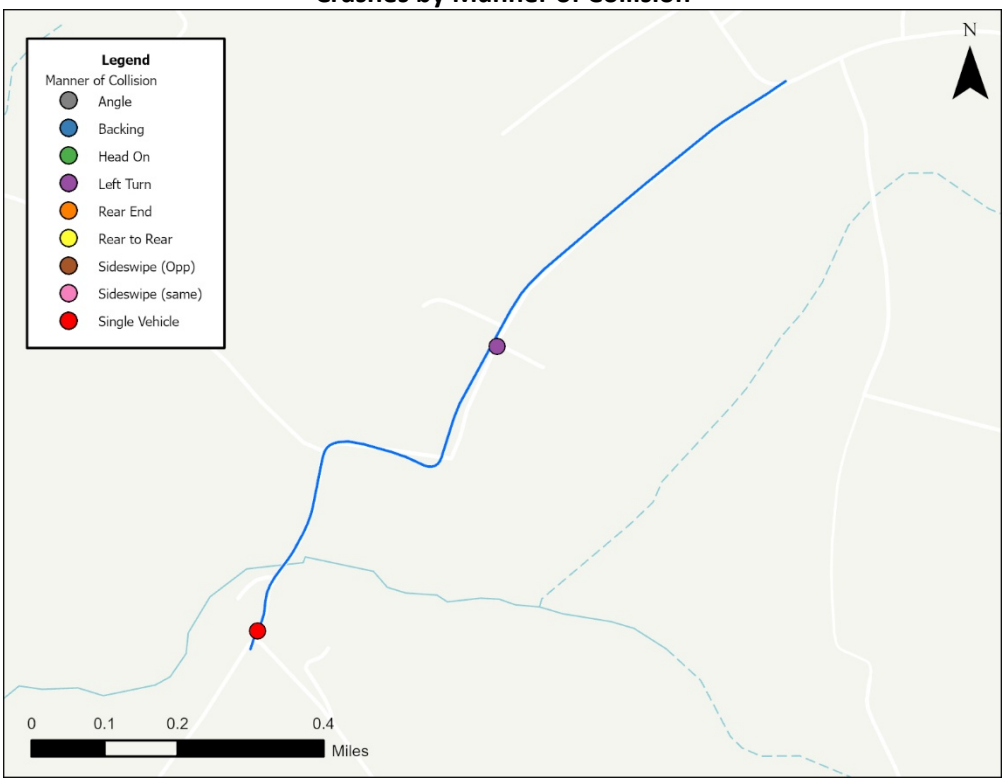
Roadway Typical Section



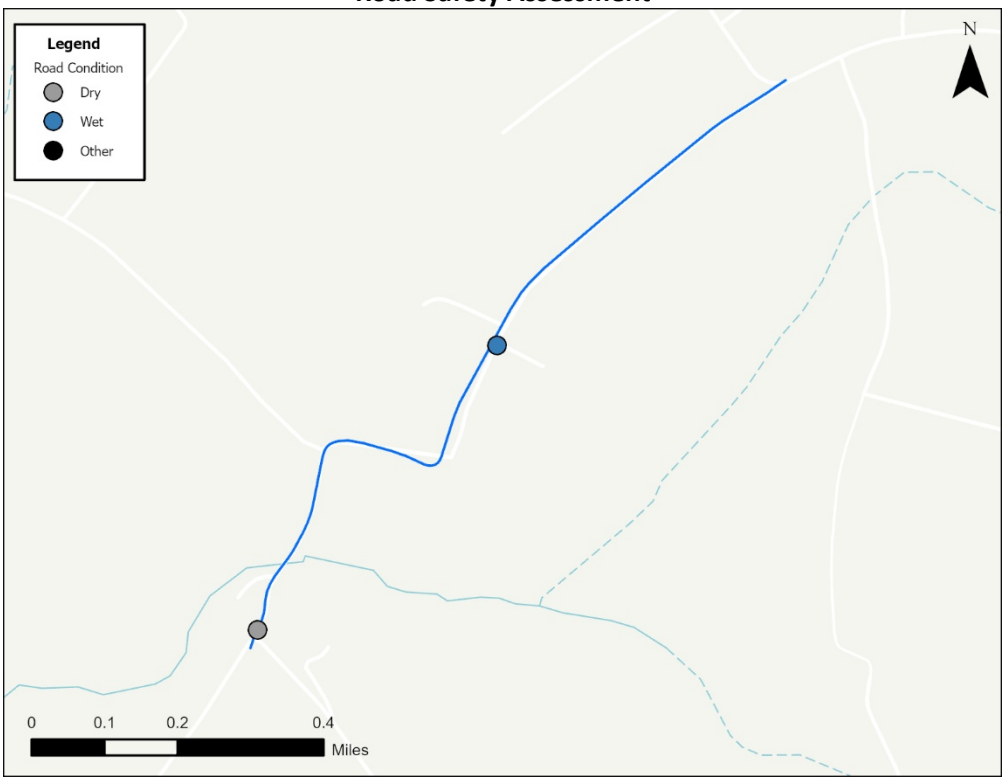
Crashes by Severity



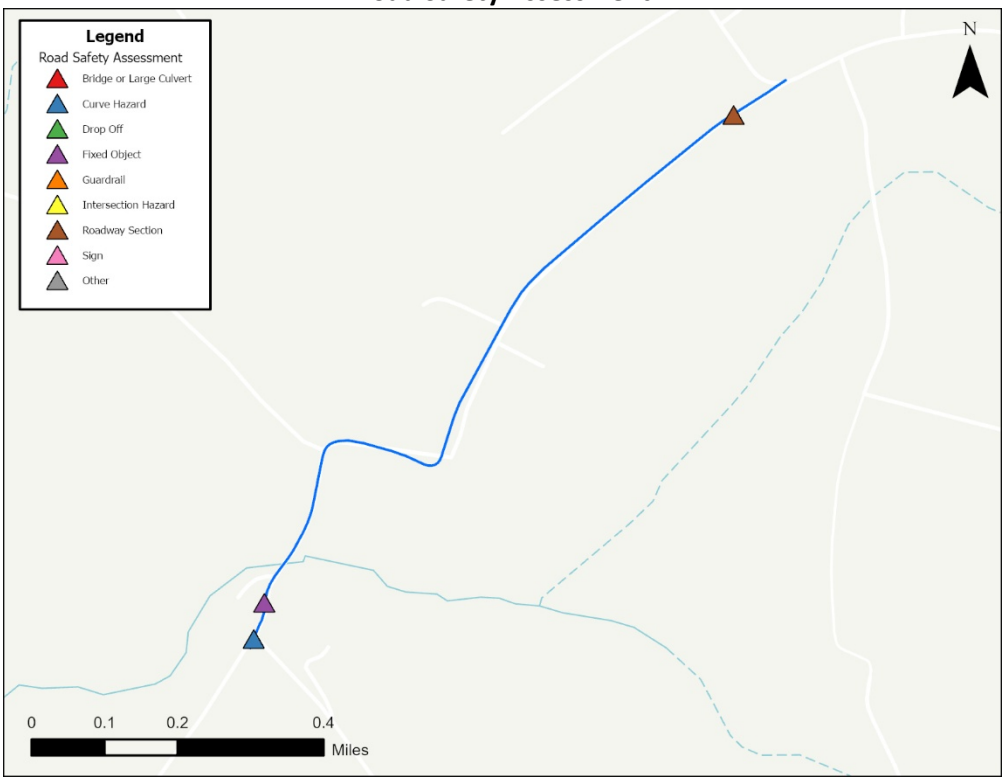
Crashes by Manner of Collision



Road Safety Assessment



Road Safety Assessment



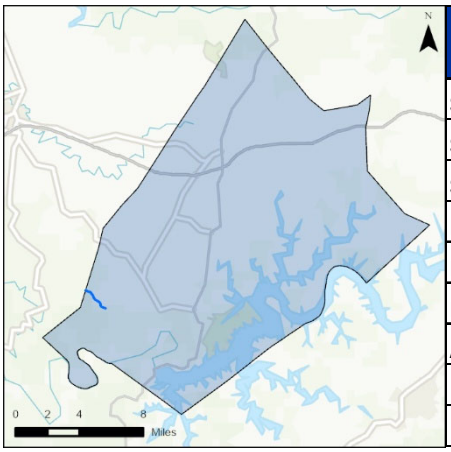
General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
3937	104-CR-1375 -000	MT. OLIVE CREEK RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation

Point ID	RT_UNIQUE	RD_NAME	Object	Single / Series	Offset	Recommendations
3938	104-CR-1375 -000	MT. OLIVE CREEK RD	Tree	Single	1-3	Remove

MELSON RIDGE RD (104-CR-1282 -000)

Road Location Map and Crash History

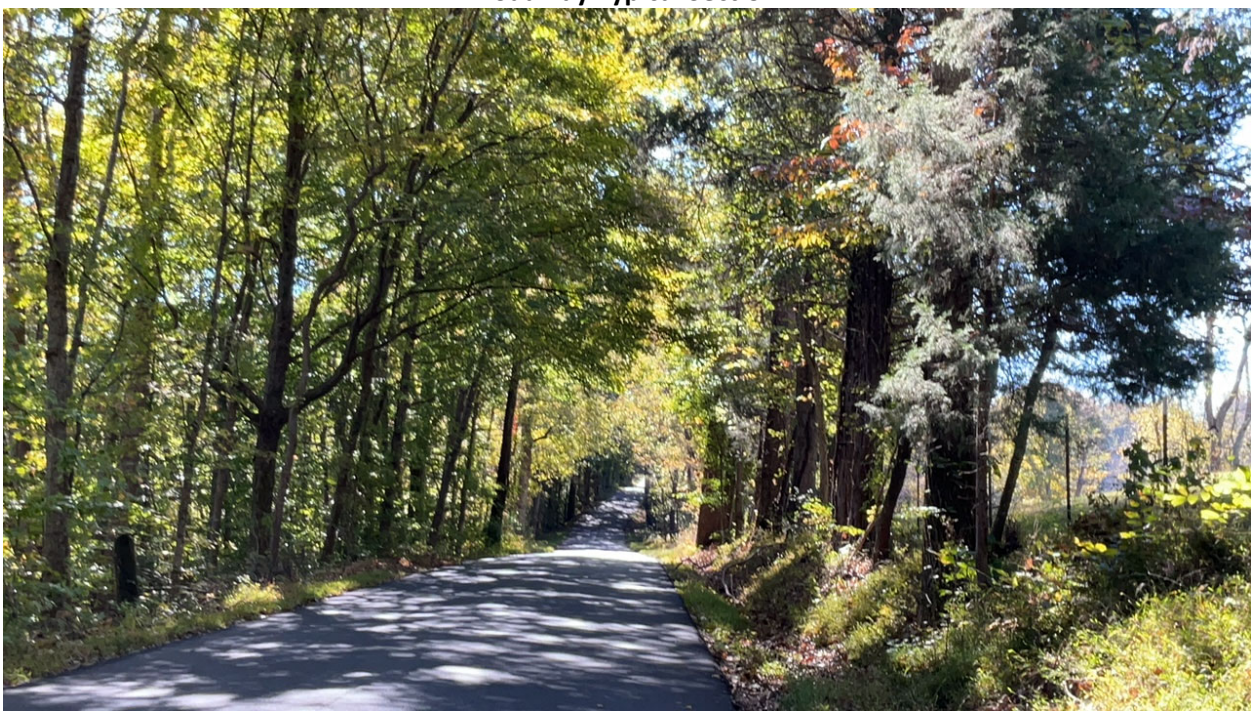


Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	1	0	0	**1**
SS - Same	0	0	0	**0**
SS - Opp	0	0	0	**0**
Left Turn	0	0	0	**0**
Head On	0	0	0	**0**
Backing	0	0	0	**0**
Angle	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

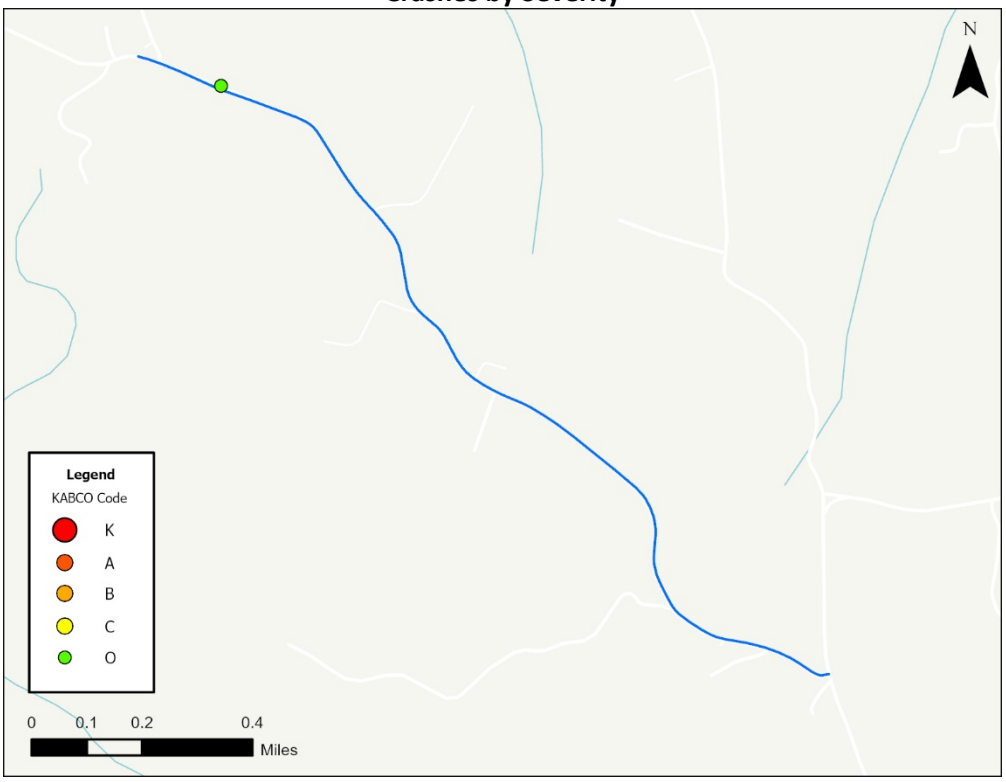
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
3936	104-CR-1282 -000	MELSON RIDGE RD	10	4	1	0-20		✓	✓

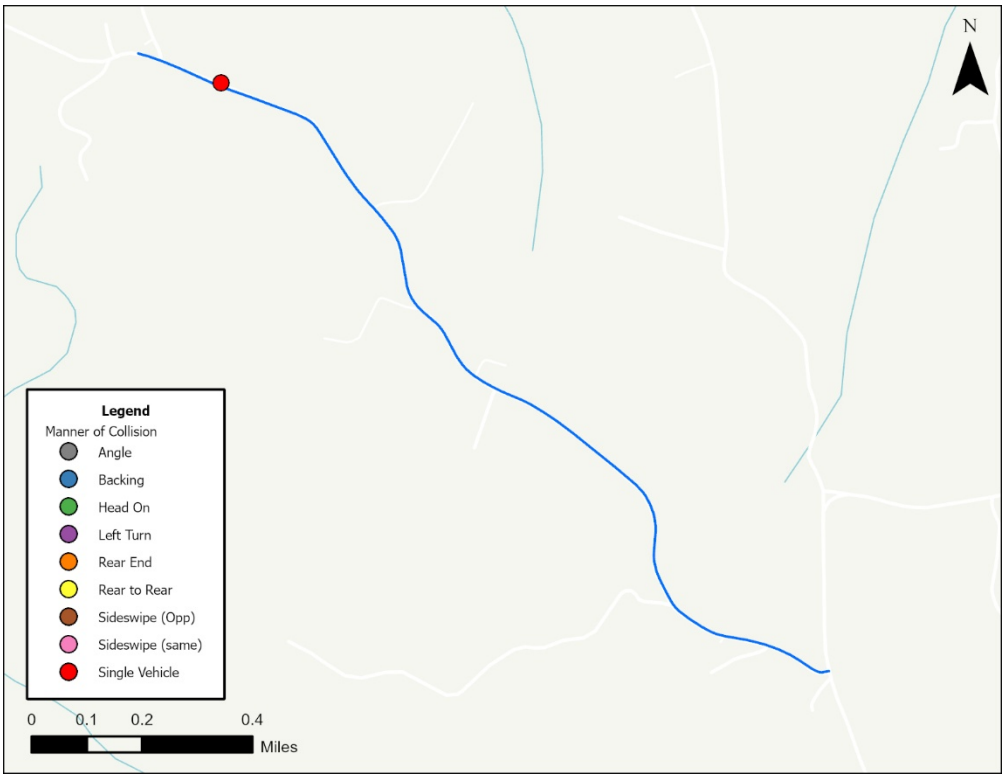
Roadway Typical Section



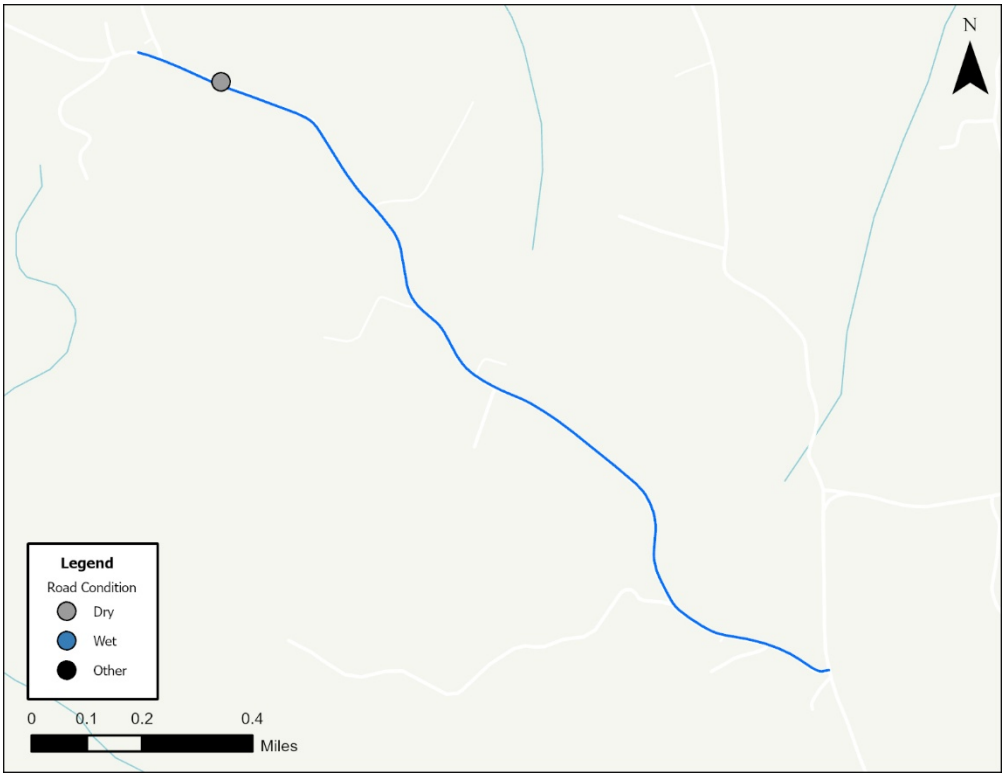
Crashes by Severity



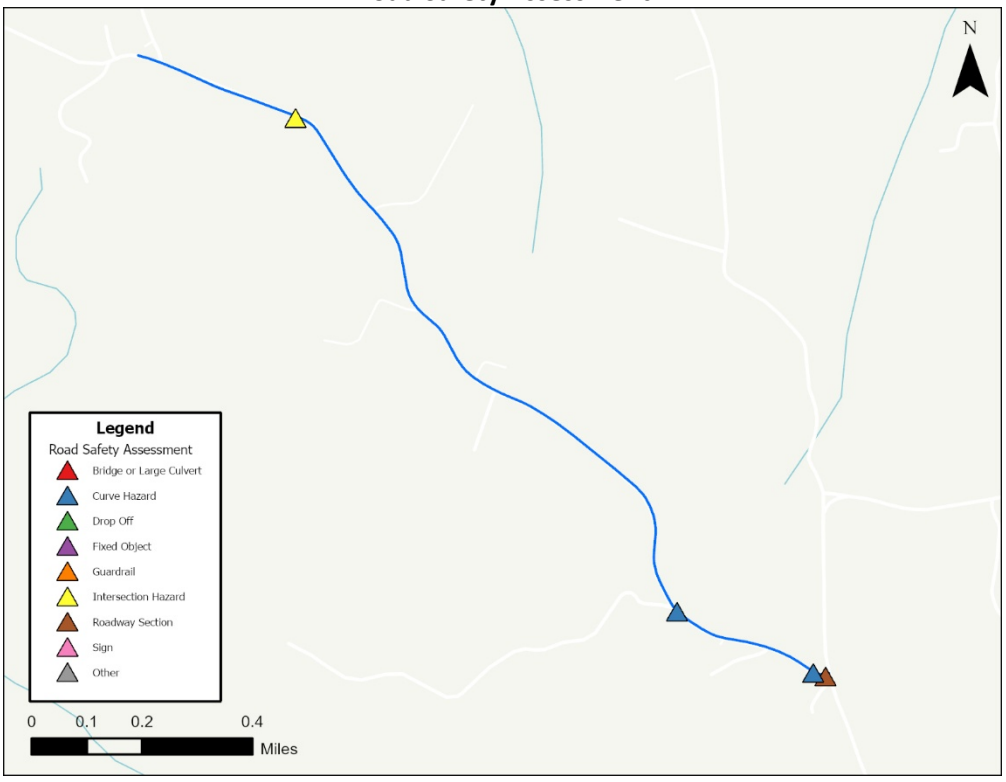
Manner of Collision



Road Conditions



Road Safety Assessment



General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
3933	104-CR-1282 -000	MELSON RIDGE RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
3934	104-CR-1282 -000	MELSON RIDGE RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
3935	104-CR-1282 -000	MELSON RIDGE RD	Intersection Obscured on Approa,Intersection Skew	No	Evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X); Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection skew

Other Roadways

General Roadway Conditions and Recommendations (Russell County)

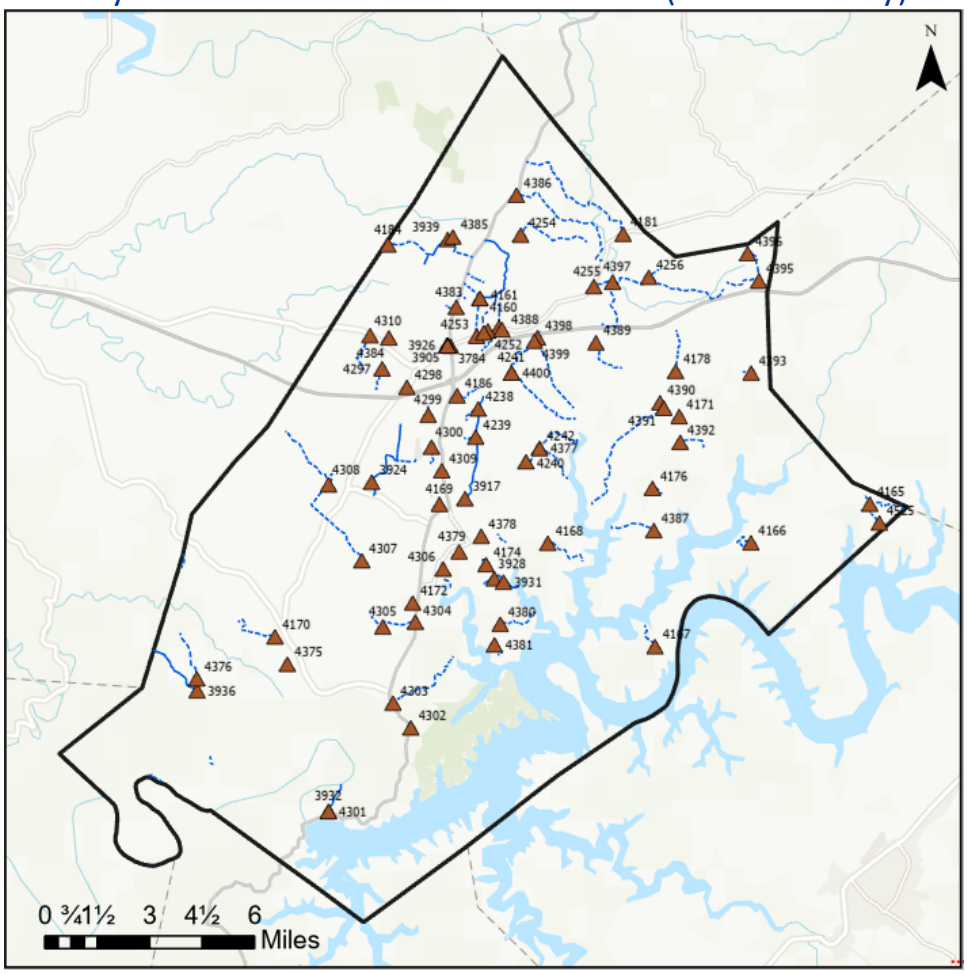


Exhibit Russell-10: General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
3784			10	4	1	80-100	✓	✓	✓
3905			10	4	1	0-20		✓	✓
3926			10	4	1	0-20		✓	✓
3945			10	4	1	0-20		✓	✓
3978			10	4	1	0-20		✓	✓
3987			10	4	1	0-20		✓	✓
4083			10	3	1	0-20		✓	✓
4504			11	3	6	80-100	✓	✓	✓
4309	104-CR-1431 -000	AIRPORT RD	24	4	1	0-20			✓
3924	104-CR-1427 -000	ARLIS HALE RD	10	4	1	0-20		✓	✓
4395	104-CR-1061 -000	ARMILOUS RD	14	4	1	0-20		✓	✓
4305	104-CR-1232 -000	BETHEL CHURCH RD	16	5	1	0-20		✓	✓
4307	104-CR-1306 -000	BLAIR RD	19	4	1	0-20		✓	✓
4251	104-CR-1355 -000	BOLIN RD	19	5	1	0-20		✓	✓
4176	104-CR-1523 -000	BRANCHVIEW LN	14	4	2	0-20		✓	✓
4378	104-CR-1139 -000	BRAXTON RD	12	4	1	0-20		✓	✓
4384	104-CR-1394G -000	CAREY RD	12	4	1	0-20		✓	✓
4298	104-CR-1349 -000	CASSIE COE RD	15	4	1	0-20		✓	✓
4299	104-CR-1575 -000	CASTLE HEIGHTS RD	17	4	1	0-20		✓	✓
4303	104-CR-1129 -000	CLIFTY CREEK RD	17	4	1	0-20		✓	✓
4239	104-CR-1435 -000	CORBIN W RD	11	4	2	0-20		✓	✓
4379	104-CR-1718 -000	COUNTRY LN	13	4	1	0-20		✓	✓
4376	104-CR-1285 -000	CROCUS RD	17	5	1	0-20		✓	✓
4390	104-CR-1576 -000	CUMBERLAND CT	15	4	1	0-20		✓	✓
4181	104-CR-1072 -000	DECATUR RD	17	3	3	0-20		✓	✓
4174	104-CR-1772 -000	DEER TRL CIR	16	3	3	0-20		✓	✓
4256	104-CR-1040 -000	EAST MOUNT EDEN RD	15	3	1	0-20		✓	✓
4399	104-CR-1537 -000	EAST WEST WILSON RD	16	4	1	0-20		✓	✓
4385	104-CR-1376 -000	FIELDS RD	18	4	1	0-20		✓	✓
4382	104-CR-1350H -000	FOLEY RD	22	4	1	0-20			✓
4306	104-CR-1136 -000	FOX POINT RD	22	4	1	0-20			✓
4297	104-CR-1442 -000	G V HALE AVE	17	4	1	0-20		✓	✓
4300	104-CR-1454 -000	GENEVA DR	22	4	1	0-20			✓
4167	104-CR-1729 -000	ISLAND RAMP RD	18	3	2	0-20		✓	✓
4381	104-CR-1154A -000	JAMESTOWN MARINA RESORT	18	4	1	0-20		✓	✓
4160	104-CR-1085 -000	JERICHO RD	17	4	1	0-20		✓	✓
4161	104-CR-1085 -000	JERICHO RD	17	4	2	0-20		✓	✓
4242	104-CR-1105 -000	JOHN ST	20	4	2	0-20			✓
4377	104-CR-1105 -000	JOHN ST	19	4	1	0-20		✓	✓
4302	104-CR-1206 -000	KERNS CEMETERY RD	24	4	1	0-20			✓
4238	104-CR-1465 -000	LANDFILL RD	24	3	2	0-20			✓
3928	104-CR-1764 -000	LILY CREEK RESORT RD	10	3	2	0-20		✓	✓
3931	104-CR-1764 -000	LILY CREEK RESORT RD	10	4	1	0-20		✓	✓
4310	104-CR-1393 -000	LITTLE CLIFTY CREEK RD	16	4	1	0-20		✓	✓

Exhibit Russell-11: General Roadway Recommendations (1/2)

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing	Other		
4398	104-CR-1094 -000	MCCLENDON RIDGE RD			24	4	1	0-20				✓
3936	104-CR-1282 -000	MELSON RIDGE RD			10	4	1	0-20			✓	✓
4169	104-CR-1738 -000	MONK SPRINGS RD			17	4	2	0-20			✓	✓
4308	104-CR-1420 -000	MOUNT PLEASANT RD			17	4	1	0-20			✓	✓
4255	104-CR-1037 -000	MT. EDEN RD			17	3	2	0-20			✓	✓
3939	104-CR-1375 -000	MT. OLIVE CREEK RD			10	4	1	0-20			✓	✓
3917	104-CR-1091 -000	OLD CLEAR SPRINGS RD			10	1	7	40-60		✓	✓	✓
4241	104-CR-1635 -000	OLD DUNBAR RD			11	2	5	0-20			✓	✓
4400	104-CR-1635 -000	OLD DUNBAR RD			14	4	1	0-20			✓	✓
4387	104-CR-1179 -000	OLD JAMESTOWN RD			17	4	1	0-20			✓	✓
4253	104-CR-1357 -000	OWENSTOWN SCHOOL RD			20	4	1	0-20				✓
4391	104-CR-1003 -000	PARKS RIDGE RD			18	4	1	0-20			✓	✓
4178	104-CR-1024 -000	PATTERSON RD			17	4	2	0-20			✓	✓
4386	104-CR-1069 -000	PATTIE RIDGE RD			18	4	1	0-20			✓	✓
4396	104-CR-1060 -000	PINE TOP RD			16	4	1	0-20			✓	✓
4165	104-CR-1173 -000	POTTERSHOP RD			18	4	2	0-20			✓	✓
3932	104-CR-1250 -000	RAY MANN RD			10	4	1	0-20			✓	✓
4301	104-CR-1250 -000	RAY MANN RD			24	4	1	0-20				✓
4525	104-CR-1171 -000	RICHARDSON RD			20	2	3	20-40		✓		✓
4168	104-CR-1188 -000	ROSIN RIDGE RD			16	4	2	0-20			✓	✓
4170	104-CR-1277 -000	S TODD RD			17	4	2	0-20			✓	✓
4184	104-CR-1374 -000	SANO RD			16	3	2	0-20			✓	✓
4380	104-CR-1147 -000	SCOTTS CHAPEL RD			20	4	1	0-20				✓
4166	104-CR-1716 -000	SHAWNEE TRAIL RD			11	4	2	0-20			✓	✓
4172	104-CR-1828 -000	SHIRLEY DR			10	1	6	20-40		✓	✓	✓
4375	104-CR-1272 -000	SOUTH HADLEY CEMETERY SPUR			11	5	1	0-20			✓	✓
4383	104-CR-1360A -000	STEPHENS LN			24	4	1	0-20				✓
4240	104-CR-1104 -000	STEPHENS RIDGE RD			23	4	2	0-20				✓
4388	104-CR-1350Q -000	STONE BROOKE PL			15	4	1	0-20			✓	✓
4304	104-CR-1216 -000	STORY LN			19	4	1	0-20			✓	✓
4393	104-CR-1634 -000	T GOSSER RD			11	4	1	0-20			✓	✓
4392	104-CR-1018 -000	V. FRANK RD			17	4	1	0-20			✓	✓
4186	104-CR-1342K -000	VOILS RD			19	3	2	0-20			✓	✓
4254	104-CR-1082 -000	WEBB RIDGE RD			16	4	1	0-20			✓	✓
4171	104-CR-1513 -000	WELL RD			14	4	2	0-20			✓	✓
4252	104-CR-1350A -000	WEST RD			19	4	1	0-20			✓	✓
4389	104-CR-1032 -000	WILSONTOWN RD			17	4	1	0-20			✓	✓
4397	104-CR-1035 -000	YELLOW APPLE RDG RD			18	4	1	0-20			✓	✓

Exhibit Russell-11: General Roadway Recommendations (2/2)

Bridge / Culvert Recommendations (Russell County)

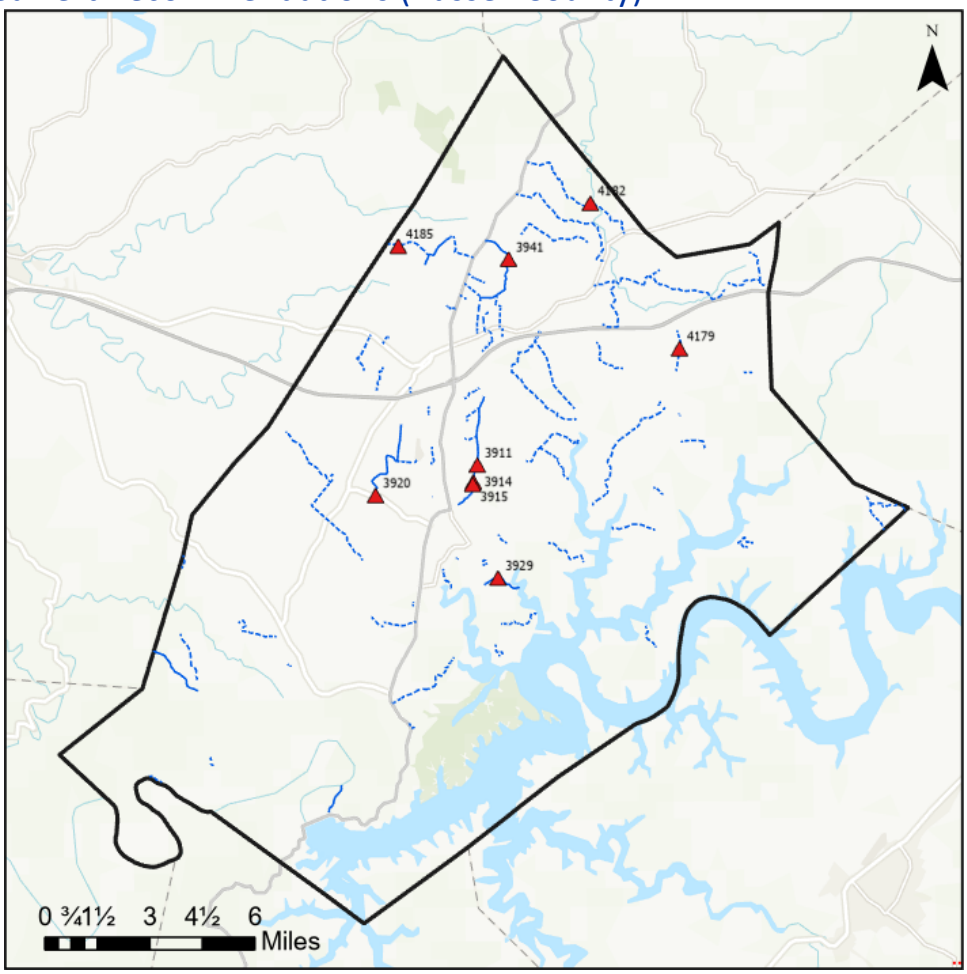


Exhibit Russell-12: Bridge / Culvert Locations

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations	Other
3906	104-CR-1091 -000	OLD CLEAR SPRINGS RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3908	104-CR-1091 -000	OLD CLEAR SPRINGS RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3909	104-CR-1091 -000	OLD CLEAR SPRINGS RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3910	104-CR-1091 -000	OLD CLEAR SPRINGS RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3916	104-CR-1091 -000	OLD CLEAR SPRINGS RD	Curve Obscured,vegetation	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation	
3919	104-CR-1427 -000	ARLIS HALE RD	Other	No	Evaluate curve hazard	Tight curve drops slightly into yard
3921	104-CR-1427 -000	ARLIS HALE RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3923	104-CR-1427 -000	ARLIS HALE RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	
3933	104-CR-1282 -000	MELSON RIDGE RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3934	104-CR-1282 -000	MELSON RIDGE RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3937	104-CR-1375 -000	MT. OLIVE CREEK RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3940	104-CR-1085 -000	JERICHO RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3942	104-CR-1085 -000	JERICHO RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
4164	104-CR-1171 -000	RICHARDSON RD	Entrance in Curve	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection	
4183	104-CR-1072 -000	DECATUR RD	Other	No	Evaluate curve hazard	Large personal property objects

Exhibit Russell-13: Bridge / Culvert Recommendations

Curve Recommendations (Russell County)

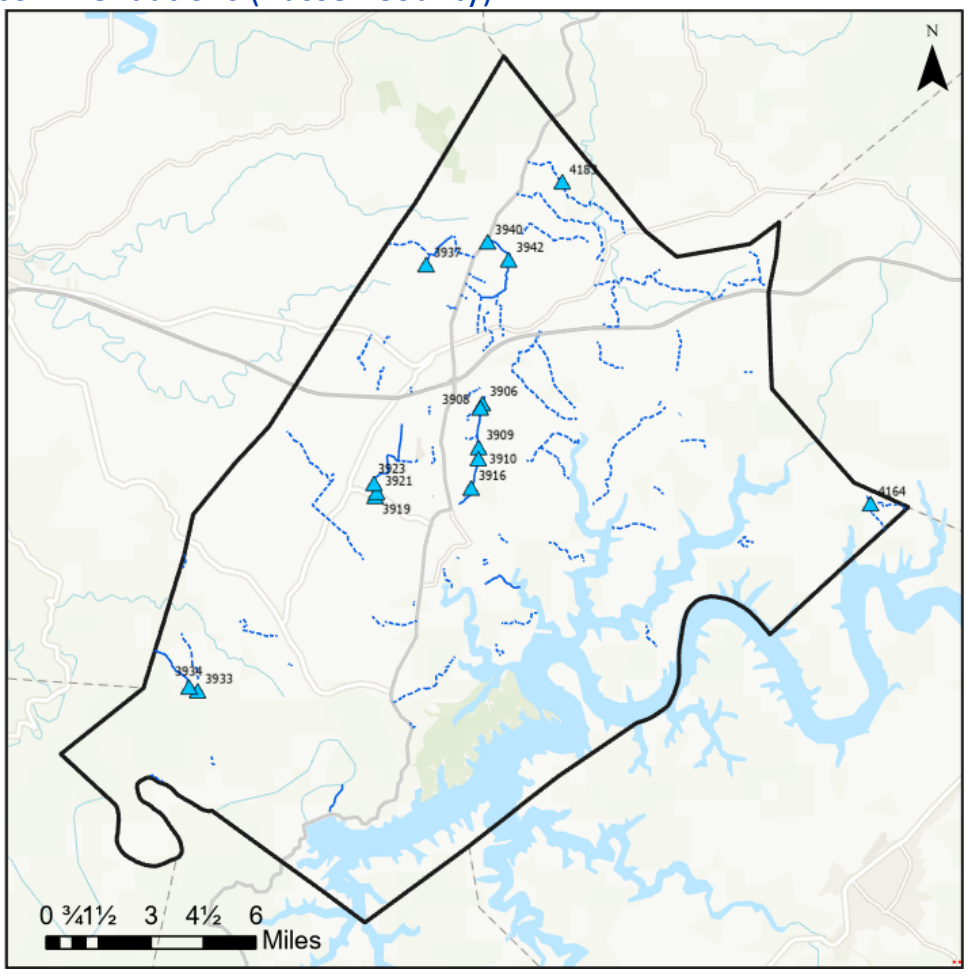


Exhibit Russell-14: Focus Road Curves

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations	Other
3906	104-CR-1091 -000	OLD CLEAR SPRINGS RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3908	104-CR-1091 -000	OLD CLEAR SPRINGS RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3909	104-CR-1091 -000	OLD CLEAR SPRINGS RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3910	104-CR-1091 -000	OLD CLEAR SPRINGS RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3916	104-CR-1091 -000	OLD CLEAR SPRINGS RD	Curve Obscured,vegetation	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation	
3919	104-CR-1427 -000	ARLIS HALE RD	Other	No	Evaluate curve hazard	Tight curve drops slightly into yard
3921	104-CR-1427 -000	ARLIS HALE RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3923	104-CR-1427 -000	ARLIS HALE RD	Curve Obscured	No	Install advance curve signing and chevrons; Evaluate Other obstructions	
3933	104-CR-1282 -000	MELSON RIDGE RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3934	104-CR-1282 -000	MELSON RIDGE RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3937	104-CR-1375 -000	MT. OLIVE CREEK RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3940	104-CR-1085 -000	JERICHO RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
3942	104-CR-1085 -000	JERICHO RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation	
4164	104-CR-1171 -000	RICHARDSON RD	Entrance in Curve	No	Install advance curve signing and chevrons; Consider edgeline and stop bar installation at entrance/intersection	
4183	104-CR-1072 -000	DECATUR RD	Other	No	Evaluate curve hazard	Large personal property objects

Exhibit Russell-15: Curve Recommendations

Roadside Drop Off Recommendations (Russell County)

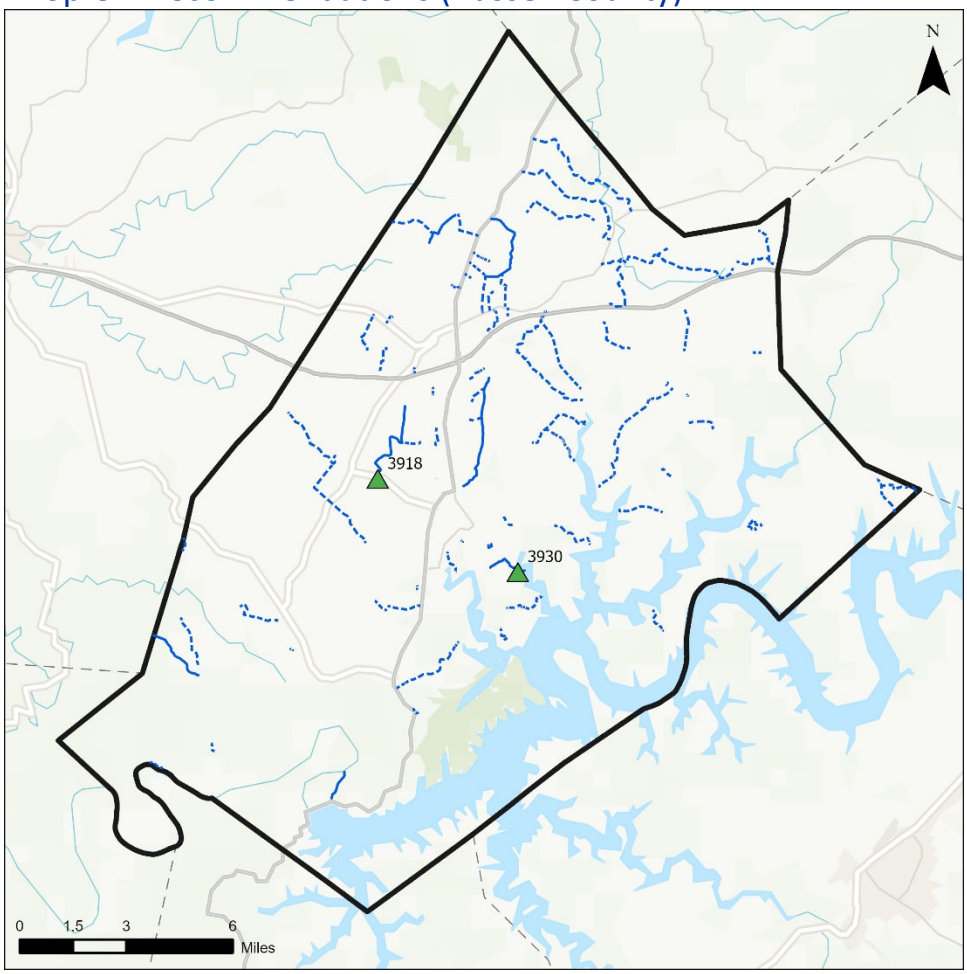


Exhibit Russell-16: Roadside Drop Off Locations

Point ID	RT_UNIQUE	RD_NAME	Drop Off Offset	Drop Off Height	Recommendations
3918	104-CR-1427 -000	ARLIS HALE RD	0-1	2-5	Install Type 2 Object Marker(s) or Delineator(s)
3930	104-CR-1764 -000	LILY CREEK RESORT RD	0-1	<2	Install Type 2 Object Marker(s) or Delineator(s)

Exhibit Russell-17: Roadside Drop Off Recommendations

Fixed Object Recommendations (Russell County)

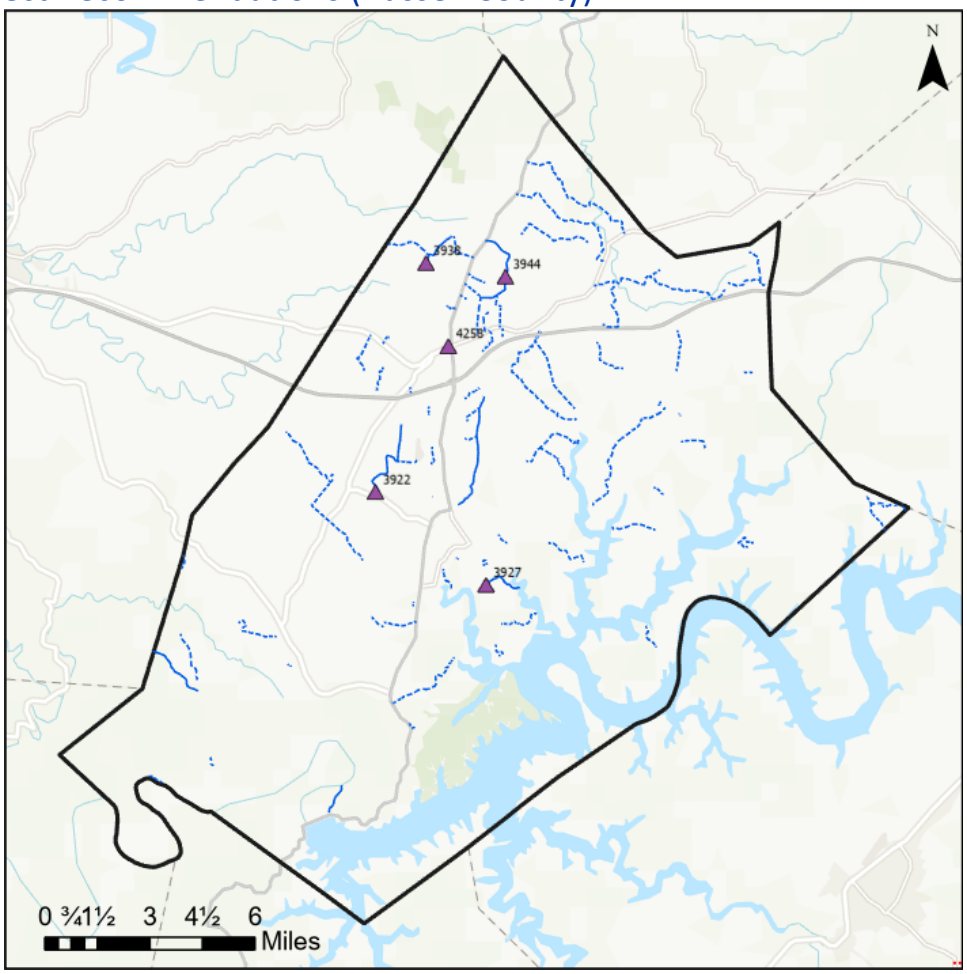


Exhibit Russell-18: Fixed Object Locations

Point ID	RT_UNIQUE	RD_NAME	Object	Single / Series	Offset	Recommendations
3922	104-CR-1427 -000	ARLIS HALE RD	Tree	Single	3-5	Remove if possible; Install Type 2 Object Marker
3944	104-CR-1085 -000	JERICHO RD	Tree	Series	1-3	Remove trees within 3 ft of roadway
3927	104-CR-1764 -000	LILY CREEK RESORT RD	Tree	Single	1-3	Remove
3938	104-CR-1375 -000	MT. OLIVE CREEK RD	Tree	Single	1-3	Remove

Exhibit Russell-19: Fixed Object Recommendations

Guardrail Recommendations (Russell County)

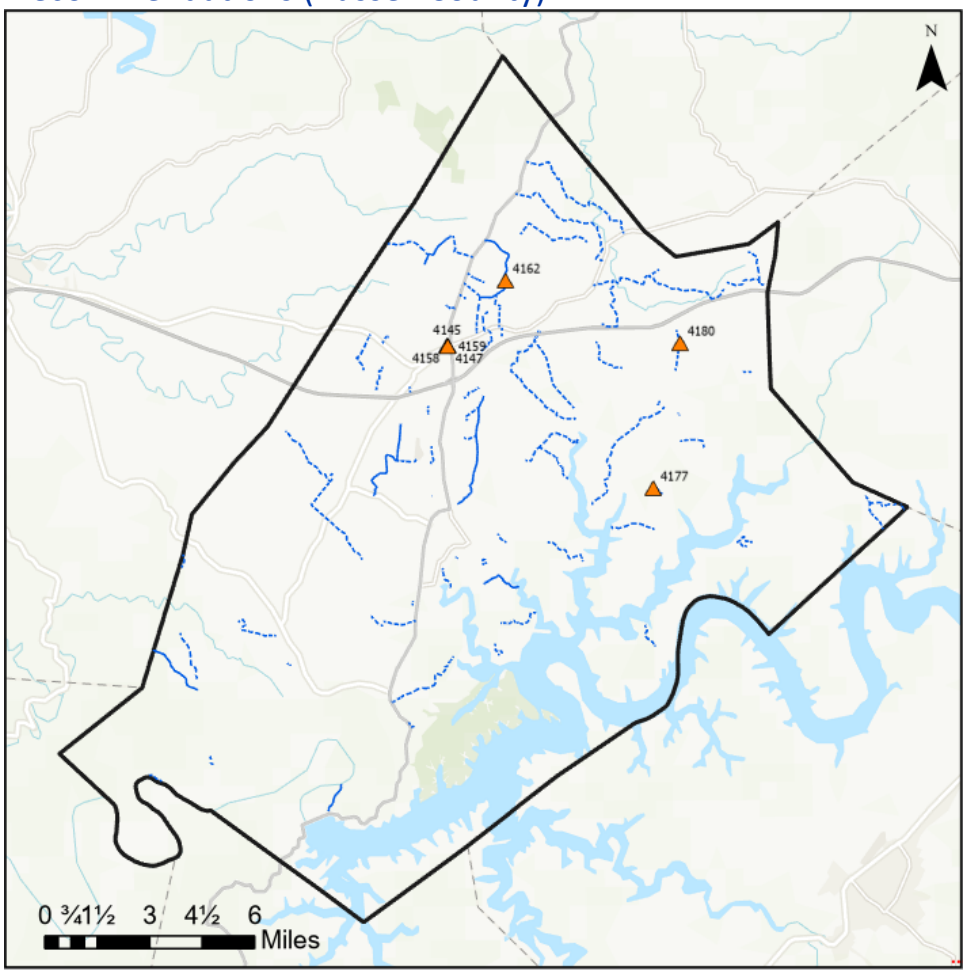


Exhibit Russell-20: Guardrail Locations

Point ID	RT_UNIQUE	RD_NAME	Guard Condition	Meet Warrants	End Treatments	Recommendations
4162	104-CR-1085 -000	JERICHO RD	Poor	No	Some	Remove
4177	104-CR-1523 -000	BRANCHVIEW LN	Good	Yes	All	--
4180	104-CR-1024 -000	PATTERSON RD	Good	Yes	All	--

Exhibit Russell-21: Guardrail Recommendations

Intersection Recommendations (Russell County)

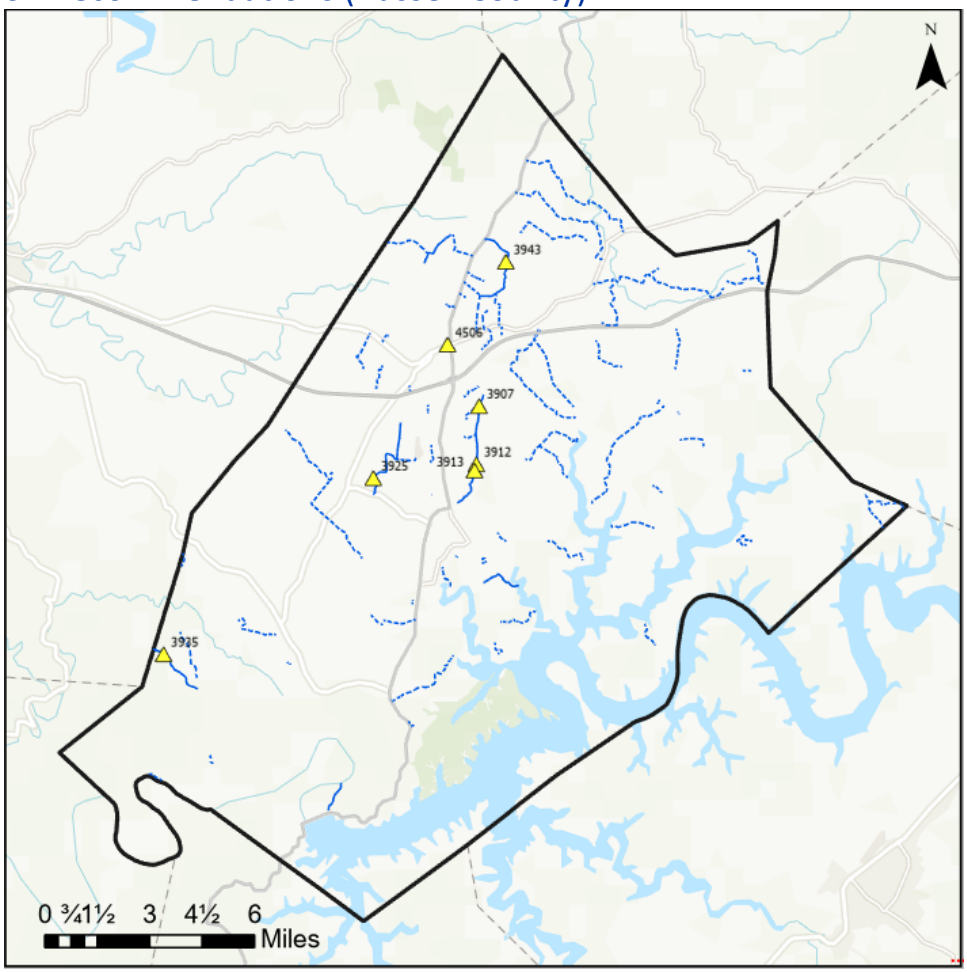


Exhibit Russell-22: Intersection Locations

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
3907	104-CR-1091 -000	OLD CLEAR SPRINGS RD	Intersection Obscured on Approa	Yes	Clear vegetation and evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)
3912	104-CR-1091 -000	OLD CLEAR SPRINGS RD	Intersection Obscured on Approa,Insufficient Sight Distance at	Yes	Clear vegetation and evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)
3913	104-CR-1091 -000	OLD CLEAR SPRINGS RD	Intersection Obscured on Approa,Insufficient Sight Distance at	No	Evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)
3925	104-CR-1427 -000	ARLIS HALE RD	Intersection Obscured on Approa,Insufficient Sight Distance at	No	Evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)
3935	104-CR-1282 -000	MELSON RIDGE RD	Intersection Obscured on Approa,Intersection Skew	No	Evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X); Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection skew
3943	104-CR-1085 -000	JERICHO RD	Intersection Obscured on Approa,Intersection Skew	Yes	Clear vegetation and evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X); Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection skew

Exhibit Russell-23: Intersection Recommendations

Other Recommendations (Russell County)

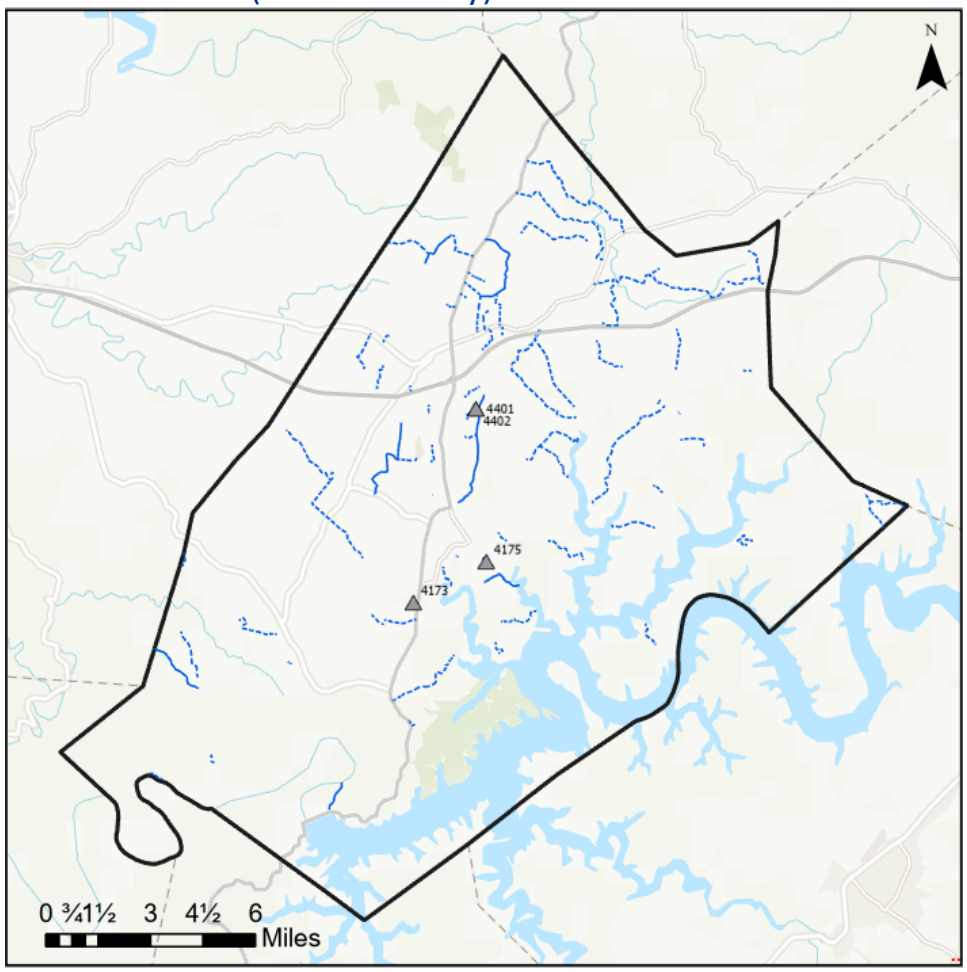


Exhibit Russell-24: Other Locations

Point ID	RT_UNIQUE	RD_NAME	Recommendations	Other
4173	104-CR-1828 -000	SHIRLEY DR	Maintain Gravel roadway; trim overhanging trees	Gravel undeveloped area trees overhanging both sides
4175	104-CR-1772 -000	DEER TRL CIR	Evaluate need for pavement preservation	Cracks in blacktop
4401	104-CR-1465 -000	LANDFILL RD	Review	No longer a county rd
4402	104-CR-1465 -000	LANDFILL RD	Review	No longer a county rd

Exhibit Russell-25: Other Recommendations

Signing Recommendations (Russell County)

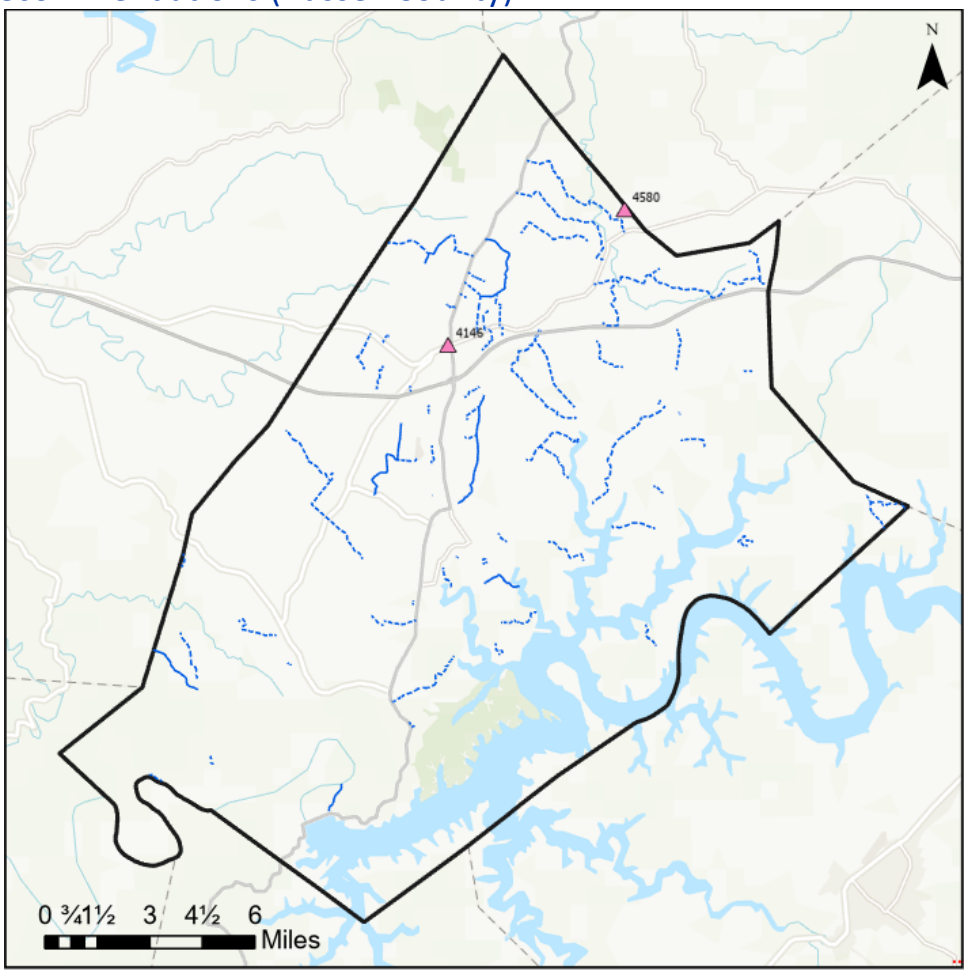


Exhibit Russell-26: Sign Locations

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/LCADDSAP.

APPENDIX L: TAYLOR COUNTY SAFETY ACTION PLAN

Taylor County Overview

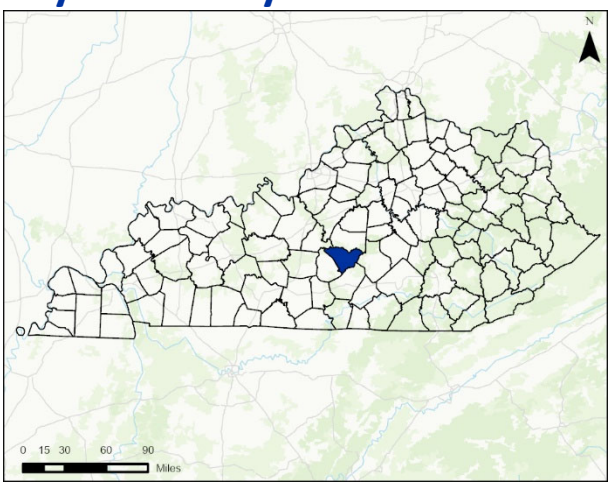


Exhibit Taylor-1: Location Map

Key Information Table Taylor County	
Population	26,443
Population in Persistent Poverty	22%
Underserved Community	**No**
Fatalities (All Roads)	27
Fatalities (County Roads)	2
Fatality Rate per 100,000 persons	**102.11**
County Road Mileage	314.7
State Road Mileage	209.3
Total Mileage	**524.0**

Exhibit Taylor-2: Key Information

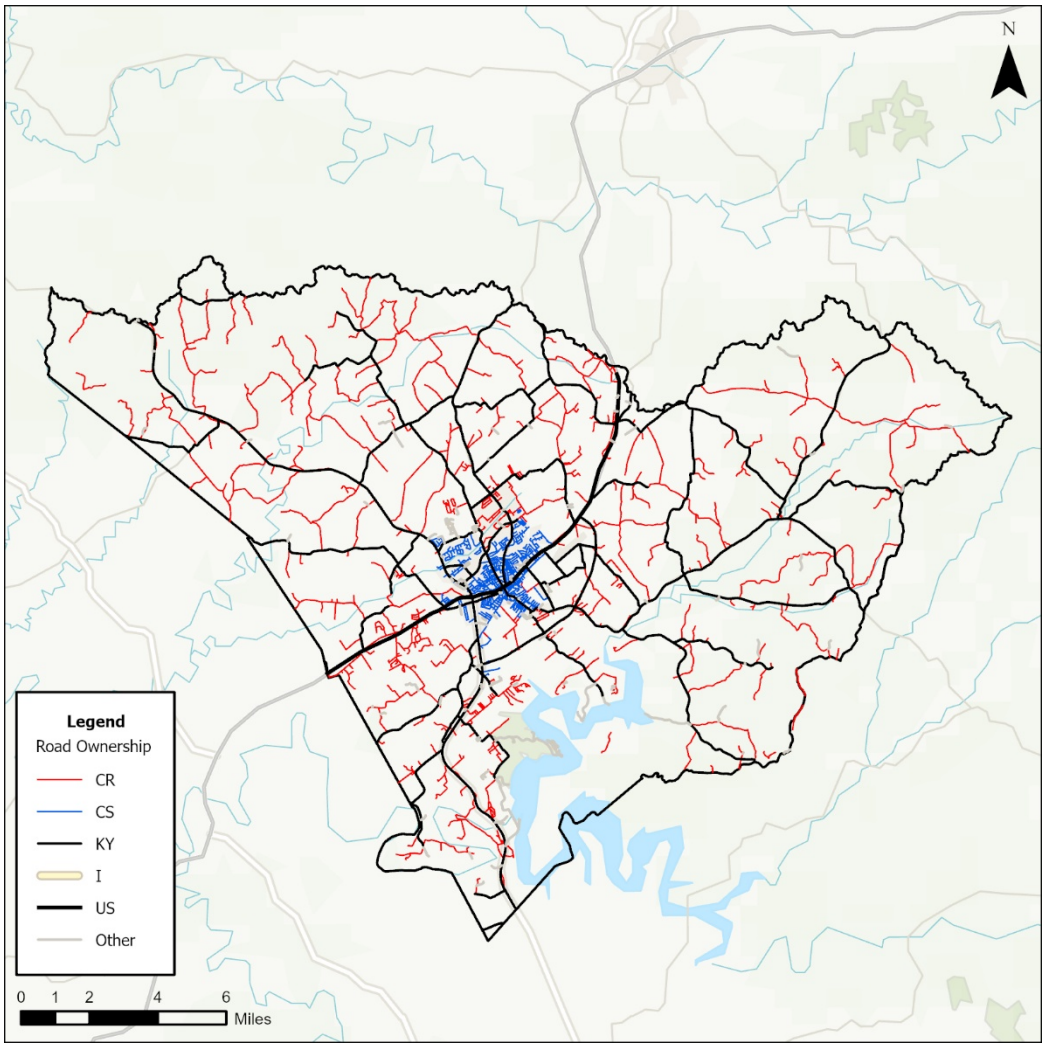


Figure Taylor-3: Map of County Roadways

Crash Analysis

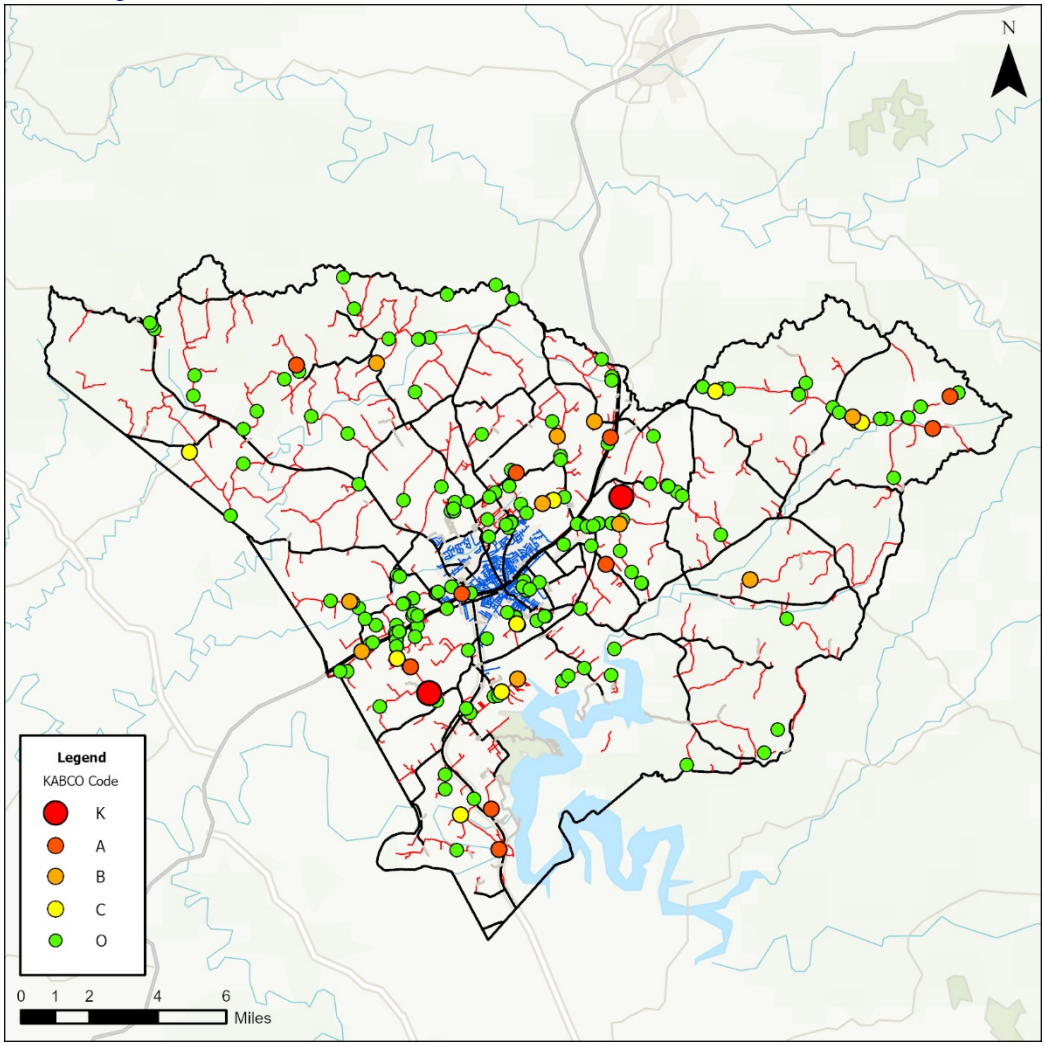
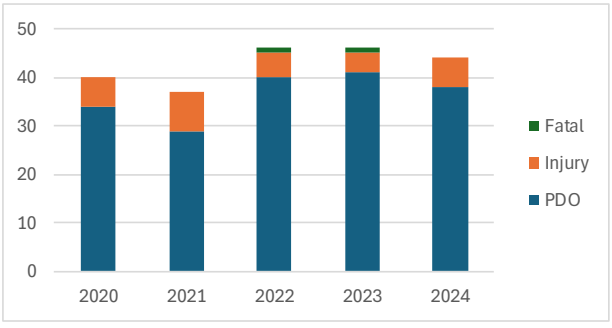


Figure Taylor-4: Map of County Road Crashes



Year	Property Damage Only	Injury	Fatal	Total
2020	34	6	0	**40**
2021	29	8	0	**37**
2022	40	5	1	**46**
2023	41	4	1	**46**
2024	38	6	0	**44**

Figure Taylor-5: Crash Distribution by Year

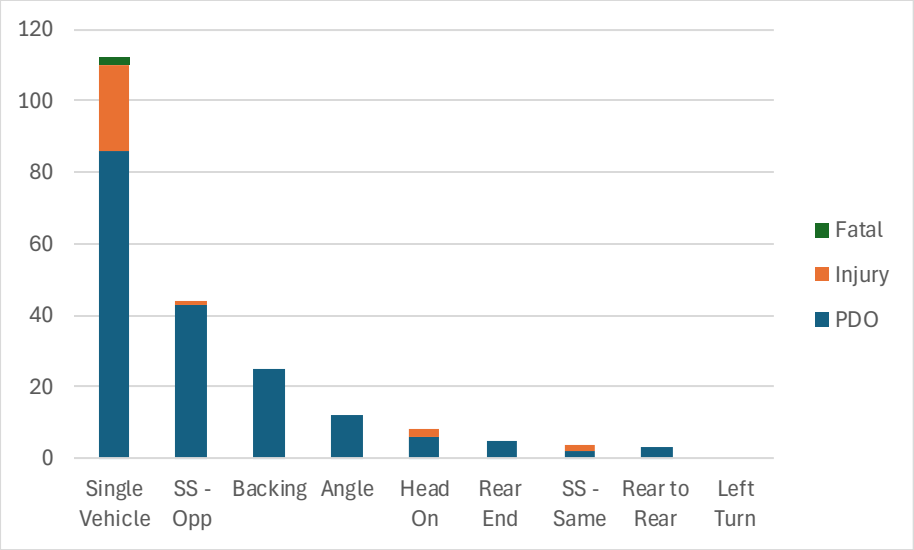


Exhibit Taylor-6: Crash Frequency and Severity by Manner of Collision

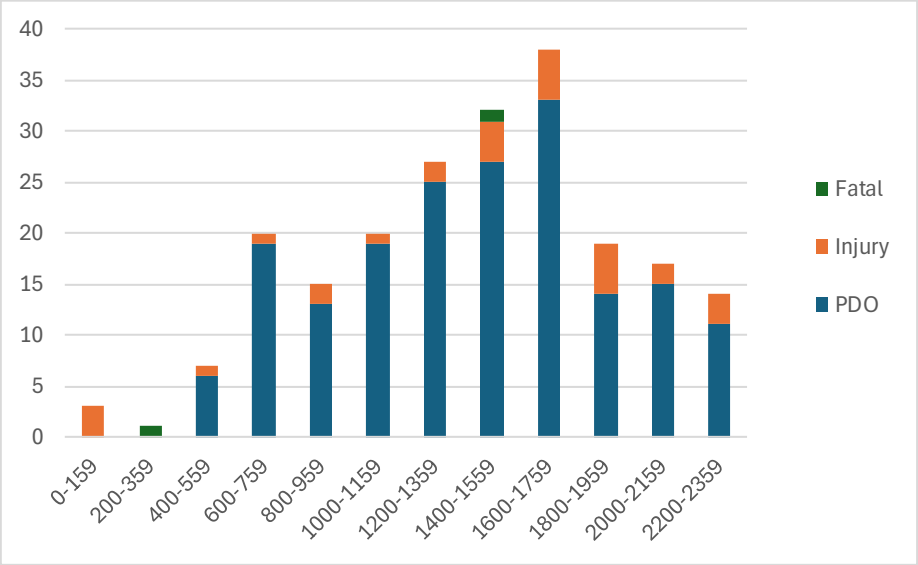


Exhibit Taylor-7: Crashes and Severity by Time of Day

Focus Roadways

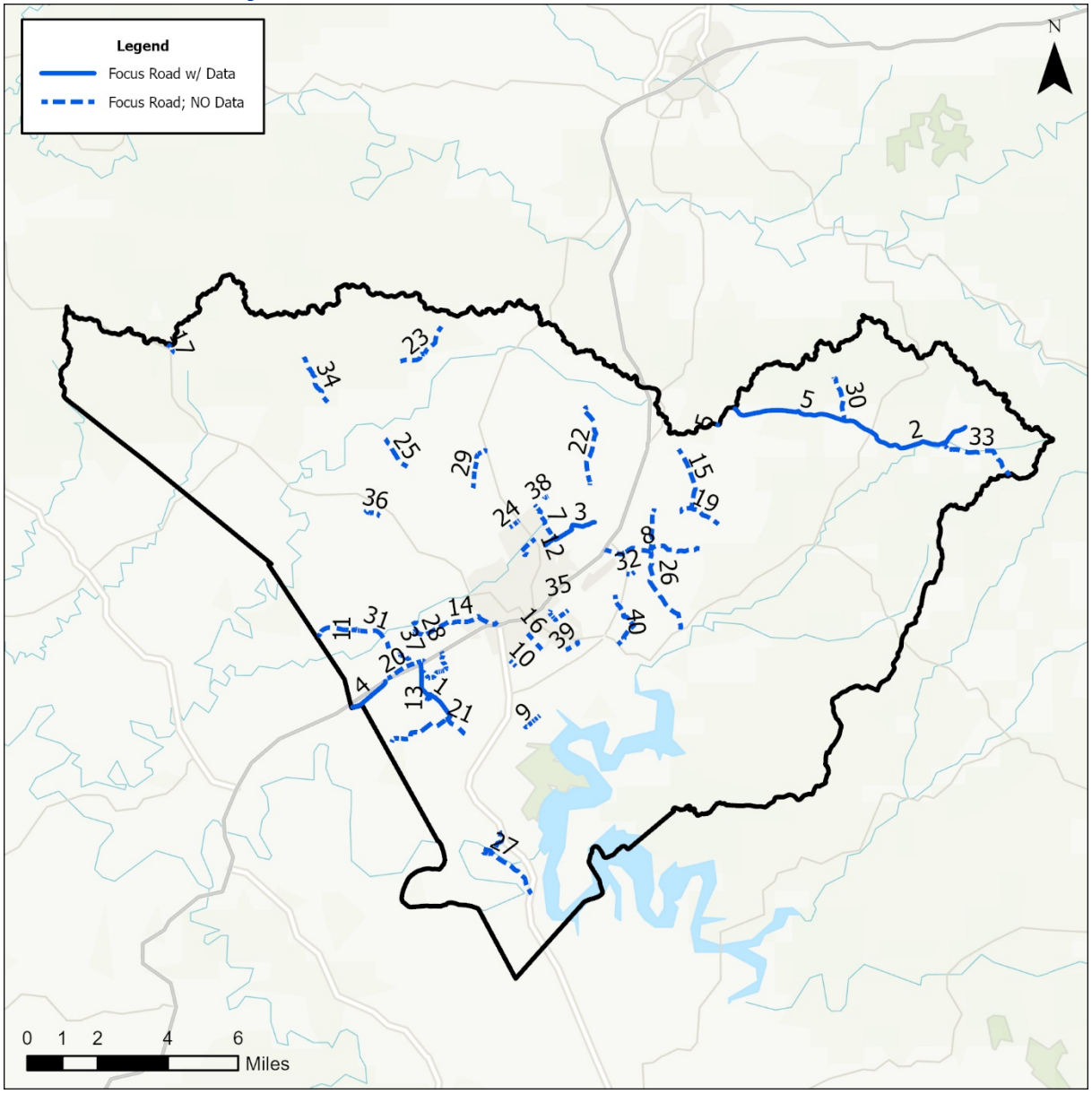


Exhibit Taylor-8: Focus Roads

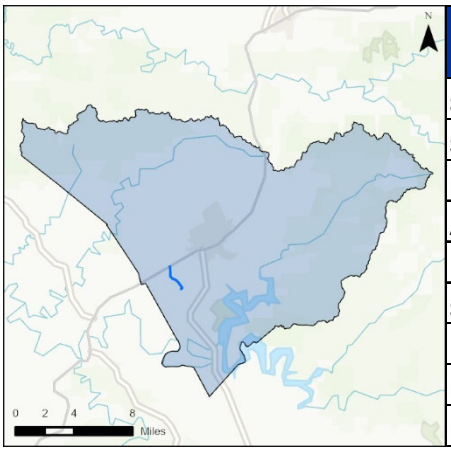
RT_UNIQUE	Length	County	Road Name	Injury Crashes	Fatal Crashes	PDO	CrashScore	UseScore	Rank	Focus Road	Data Points	Roadway Data
Taylor County												
109-CR-1223 -000	**2.0**	**Taylor**	**DAVIS RD**	**2**	**0**	**13**	**2.59**	**4.62**	**1**	**1**	**3**	**1**
109-CR-1019 -000	**4.5**	**Taylor**	**MERRIMAC RD**	**2**	**1**	**6**	**3.33**	**2.64**	**2**	**1**	**14**	**2**
109-CR-1046 -000	**1.7**	**Taylor**	**BEAR TRACK RD**	**1**	**1**	**7**	**2.52**	**3.06**	**3**	**1**	**10**	**2**
109-CR-1518 -000	**1.3**	**Taylor**	**BLACK GNAT RD**	**1**	**1**	**3**	**2.26**	**2.78**	**4**	**1**	**1**	**1**
109-CR-1021 -000	**4.7**	**Taylor**	**BARNEY SCHOOL RD**	**0**	**2**	**3**	**2.59**	**1.44**	**5**	**1**	**4**	**1**
109-CR-1273 -000	0.2	Taylor	COBURG SPUR RD	0	0	0	0.00	3.81	6	1	0	0
109-CR-1200 -000	1.2	Taylor	CHRISTERSON LN	0	0	3	1.86	0.98	7	1	0	0
109-CR-1001 -000	2.9	Taylor	WISE RD	1	1	5	2.39	0.29	8	1	0	0
109-CR-1244 -000	0.6	Taylor	BLUE HOLE RD	0	1	2	1.32	1.31	9	1	0	0
109-CR-1594 -000	0.2	Taylor	GAINES DR	0	0	0	0.00	2.59	10	1	0	0
109-CR-1578 -000	0.1	Taylor	NELSON RD	0	0	0	0.00	2.55	11	1	0	0
109-CR-1551 -000	0.8	Taylor	STEEPLECHASE DR	0	0	0	0.00	2.52	12	1	0	0
109-CR-1577 -000	0.5	Taylor	HASH RD	0	0	0	0.00	2.50	13	1	0	0
109-CR-1221 -000	2.7	Taylor	OLD GREENSBURG RD	2	0	6	2.14	0.32	14	1	0	0
109-CR-1032 -000	1.8	Taylor	SMITH CHAPEL RD	0	0	0	0.00	2.40	15	1	0	0
109-CR-1253 -000	0.6	Taylor	RED LN	1	0	4	1.13	0.89	16	1	0	0
109-CR-1390 -000	0.3	Taylor	BADGER RD	0	0	3	0.19	1.73	17	1	0	0
109-CR-1538A -000	1.4	Taylor	HIDDEN MEADOWS DR	0	0	1	0.06	1.79	18	1	0	0
109-CR-1004 -000	1.3	Taylor	SPORTSMAN LAKE RD	1	0	6	1.26	0.52	19	1	0	0
109-CR-1569 -000	1.2	Taylor	OLD US 68	0	1	4	1.45	0.30	20	1	0	0
109-CR-1225 -000	2.7	Taylor	HATCHER RD	1	0	1	0.94	0.80	21	1	0	0
109-CR-1042 -000	2.5	Taylor	PALESTINE RD	0	1	4	1.45	0.27	22	1	0	0
109-CR-1382 -000	5.2	Taylor	WEST FINLEY RIDGE RD	0	1	3	1.39	0.28	23	1	0	0
109-CR-1289C -000	0.3	Taylor	KRISTI LN	0	0	0	0.00	1.64	24	1	0	0
109-CR-1352 -000	1.0	Taylor	WADE LN	0	0	0	0.00	1.59	25	1	0	0
109-CR-1002 -000	3.9	Taylor	LONG BRANCH RD	0	1	4	1.45	0.08	26	1	0	0
109-CR-1236 -000	3.0	Taylor	TEBBS BEND RD	0	1	1	1.26	0.21	27	1	0	0
109-CR-1214 -000	0.5	Taylor	FAIRVIEW RD	0	0	1	0.06	1.28	28	1	0	0
109-CR-1360 -000	1.3	Taylor	CHESTNUT GROVE RD	1	0	0	0.88	0.46	29	1	0	0
109-CR-1022 -000	2.2	Taylor	SLATE CREEK RD	0	1	0	1.20	0.09	30	1	0	0
109-CR-1215 -000	2.5	Taylor	OLD SUMMERSVILLE RD	0	0	2	0.13	1.13	31	1	0	0
109-CR-1107 -000	0.3	Taylor	CATALPHA LN	0	1	0	1.20	0.06	32	1	0	0
109-CR-1015 -000	2.4	Taylor	MERRIMAC-PECK RD	1	0	0	0.88	0.35	33	1	0	0
109-CR-1328 -000	2.8	Taylor	SPROWLES RIDGE RD	1	0	1	0.94	0.27	34	1	0	0
109-CR-1503 -000	0.8	Taylor	INDUSTRIAL DR	0	0	5	0.32	0.89	35	1	0	0
109-CR-1240 -000	0.5	Taylor	PLEASANT UNION CHURCH RD	0	0	0	0.00	1.20	36	1	0	0
109-CR-1274 -000	0.6	Taylor	WHITLOCK RD	0	0	2	0.13	0.97	37	1	0	0
109-CR-1406 -000	0.1	Taylor	FORGOTTEN FIELD DR	1	0	0	0.88	0.21	38	1	0	0
109-CR-1295G -000	0.5	Taylor	HAPPY HILLS DR	0	0	3	0.19	0.89	39	1	0	0
109-CR-1102 -000	1.9	Taylor	ROBERTS RD	1	0	1	0.94	0.11	40	1	0	0

Exhibit Taylor-9: List of Focus Roadways

Recommended Improvements (Top 5 Roads)

DAVIS RD (109-CR-1223 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	4	2	0	**6**
SS - Opp	2	0	0	**2**
Backing	1	0	0	**1**
Angle	1	0	0	**1**
Rear End	1	0	0	**1**
SS - Same	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Left Turn	0	0	0	**0**
Head On	0	0	0	**0**

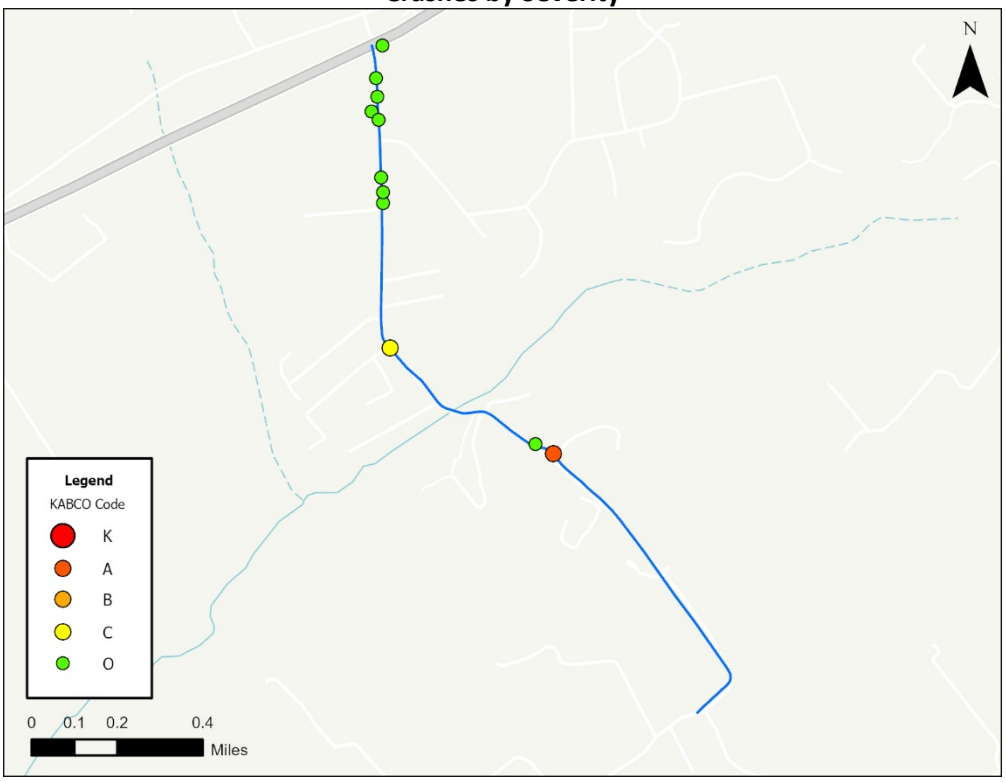
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4018	109-CR-1223 -000	DAVIS RD	10	4	1	0-20		✓	✓
4559	109-CR-1223 -000	DAVIS RD	14	3	3	20-40	✓	✓	✓
4560	109-CR-1223 -000	DAVIS RD	19	3	2	20-40	✓	✓	✓

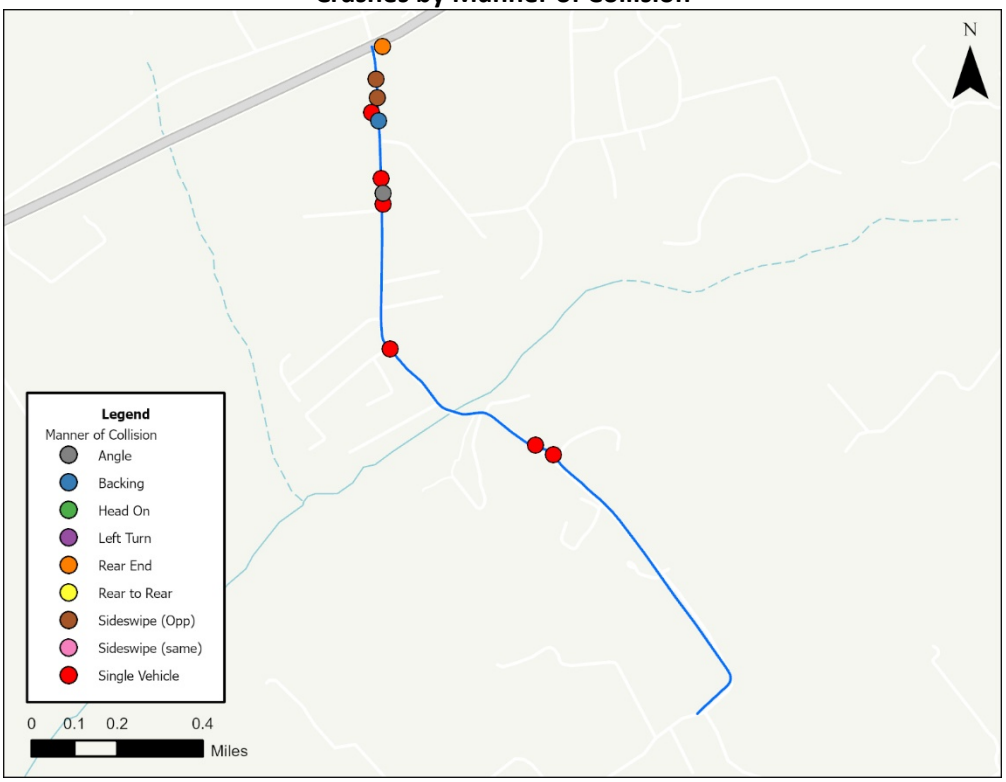
Roadway Typical Section



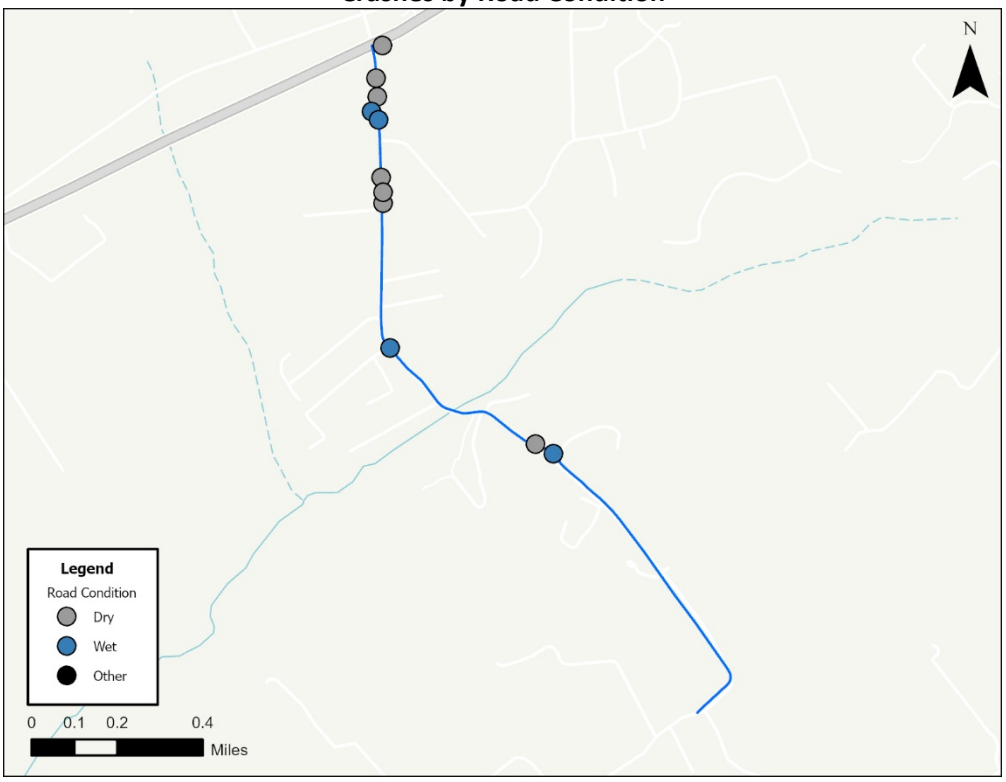
Crashes by Severity



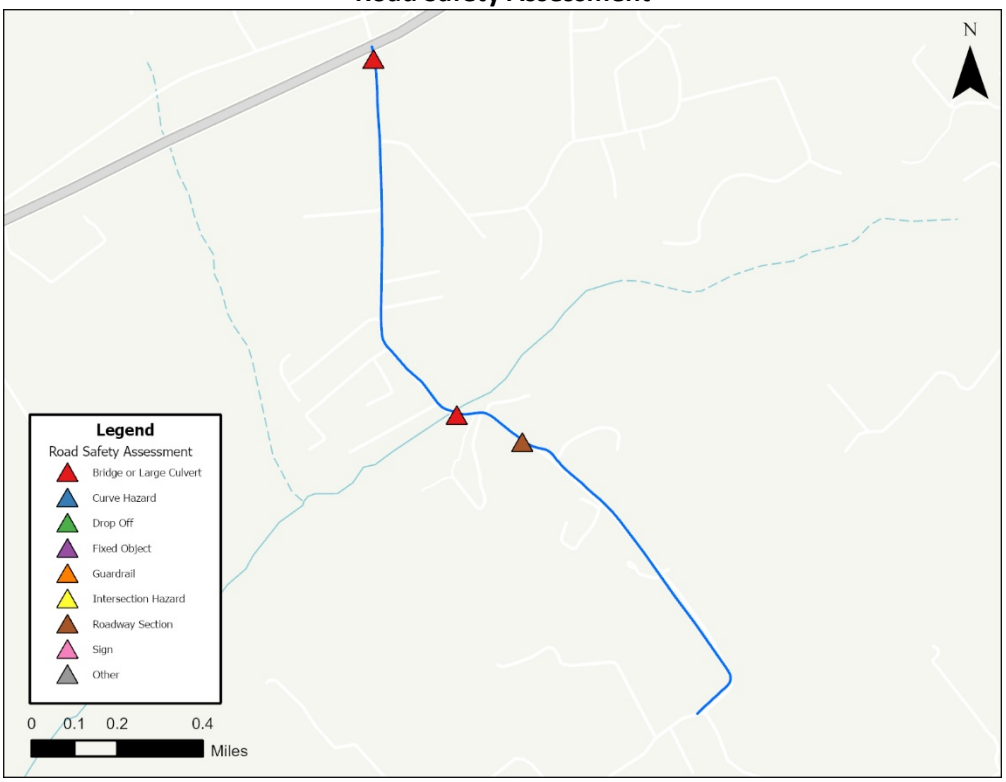
Crashes by Manner of Collision



Crashes by Road Condition



Road Safety Assessment

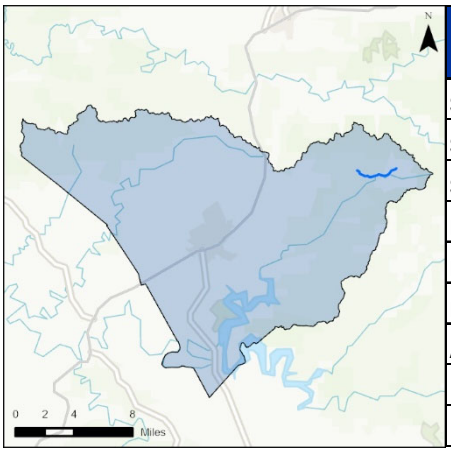


General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
4016	109-CR-1223 -000	DAVIS RD	10	4	2	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4017	109-CR-1223 -000	DAVIS RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.

MERRIMAC RD (109-CR-1019 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	7	3	0	**10**
SS - Opp	1	1	0	**2**
SS - Same	0	0	0	**0**
Left Turn	0	0	0	**0**
Head On	0	0	0	**0**
Backing	0	0	0	**0**
Angle	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

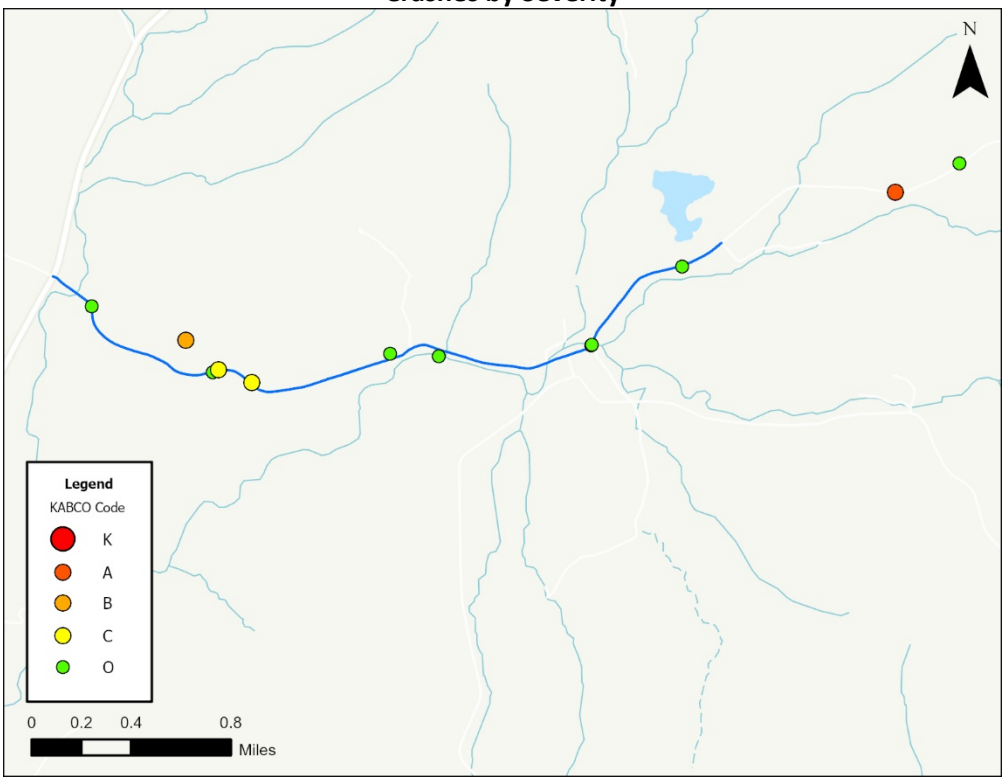
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
3996	109-CR-1019 -000	MERRIMAC RD	10	3	2	0-20		✓	✓
4000	109-CR-1019 -000	MERRIMAC RD	10	4	1	0-20		✓	✓

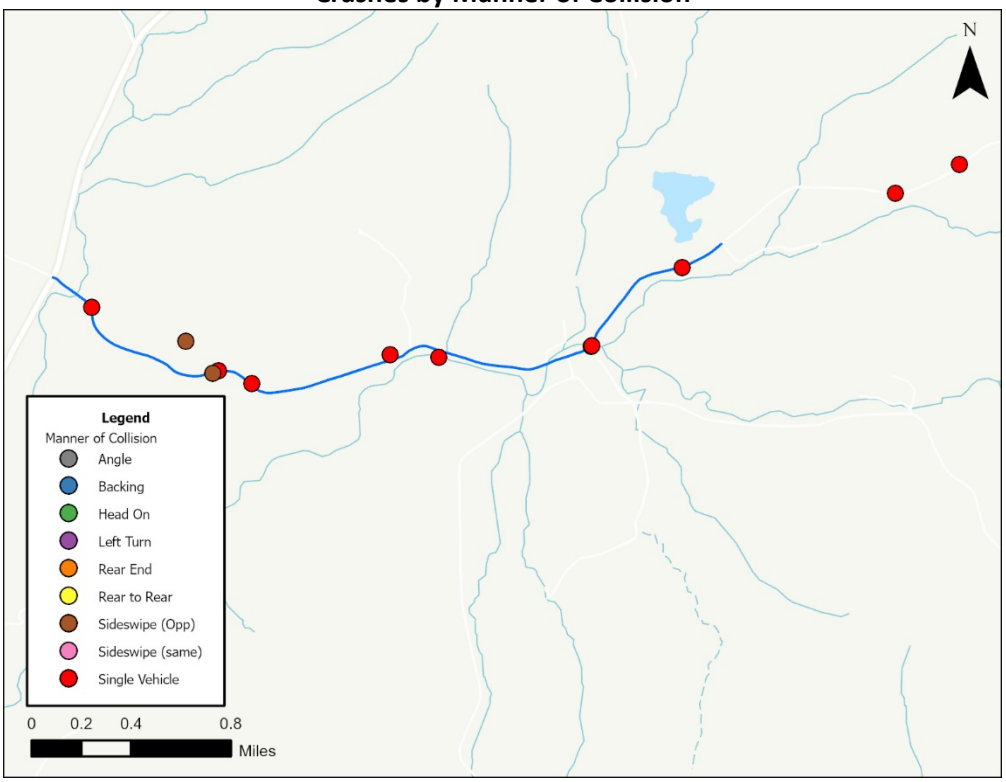
Roadway Typical Section



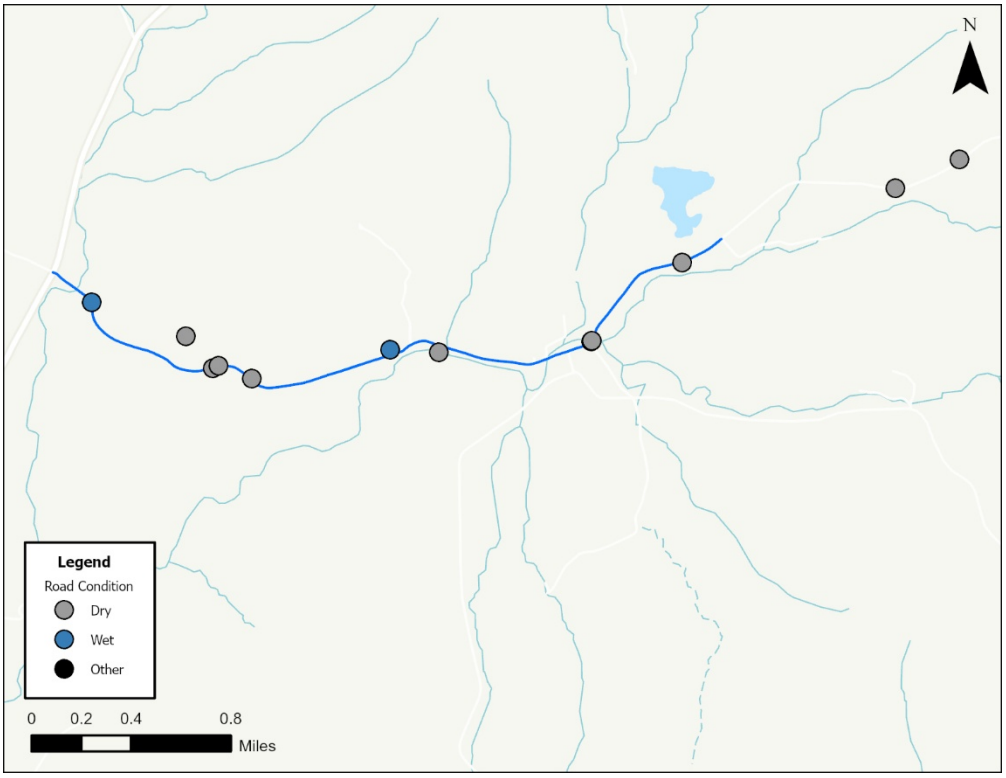
Crashes by Severity



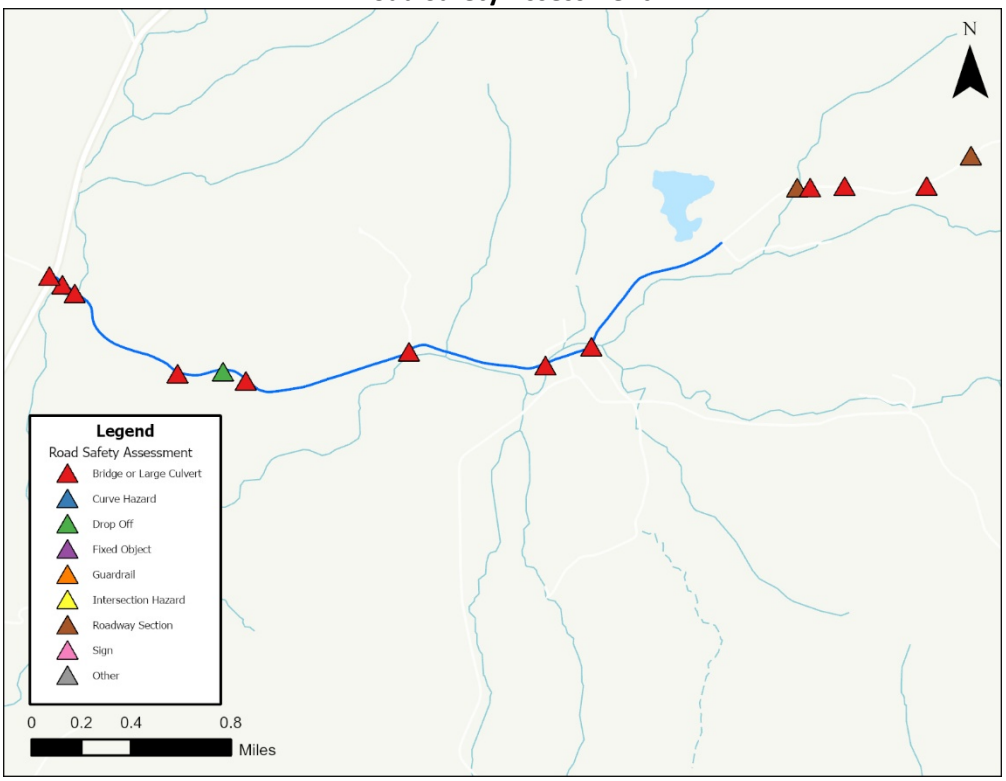
Crashes by Manner of Collision



Road Conditions



Road Safety Assessment



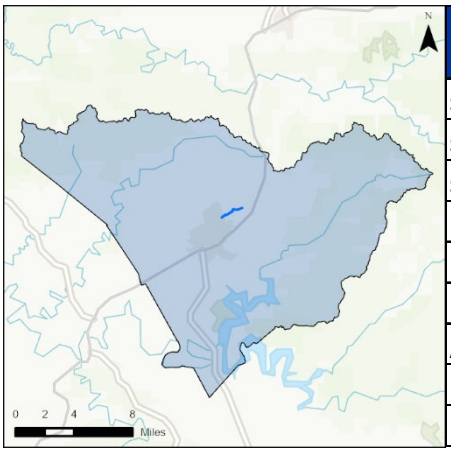
General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
3988	109-CR-1019 -000	MERRIMAC RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3989	109-CR-1019 -000	MERRIMAC RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3990	109-CR-1019 -000	MERRIMAC RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3992	109-CR-1019 -000	MERRIMAC RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3993	109-CR-1019 -000	MERRIMAC RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3994	109-CR-1019 -000	MERRIMAC RD	0	0	4	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
3995	109-CR-1019 -000	MERRIMAC RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3997	109-CR-1019 -000	MERRIMAC RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3998	109-CR-1019 -000	MERRIMAC RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3999	109-CR-1019 -000	MERRIMAC RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.

Point ID	RT_UNIQUE	RD_NAME	Drop Off Offset	Drop Off Height	Recommendations
3991	109-CR-1019 -000	MERRIMAC RD	0-1	5-10	Install Type 2 Object Marker(s) or Delineator(s)

BEAR TRACK RD (109-CR-1046 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
SS - Opp	3	0	0	**3**
Single Vehicle	3	0	0	**3**
SS - Same	0	1	0	**1**
Head On	0	1	0	**1**
Left Turn	0	0	0	**0**
Backing	0	0	0	**0**
Angle	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

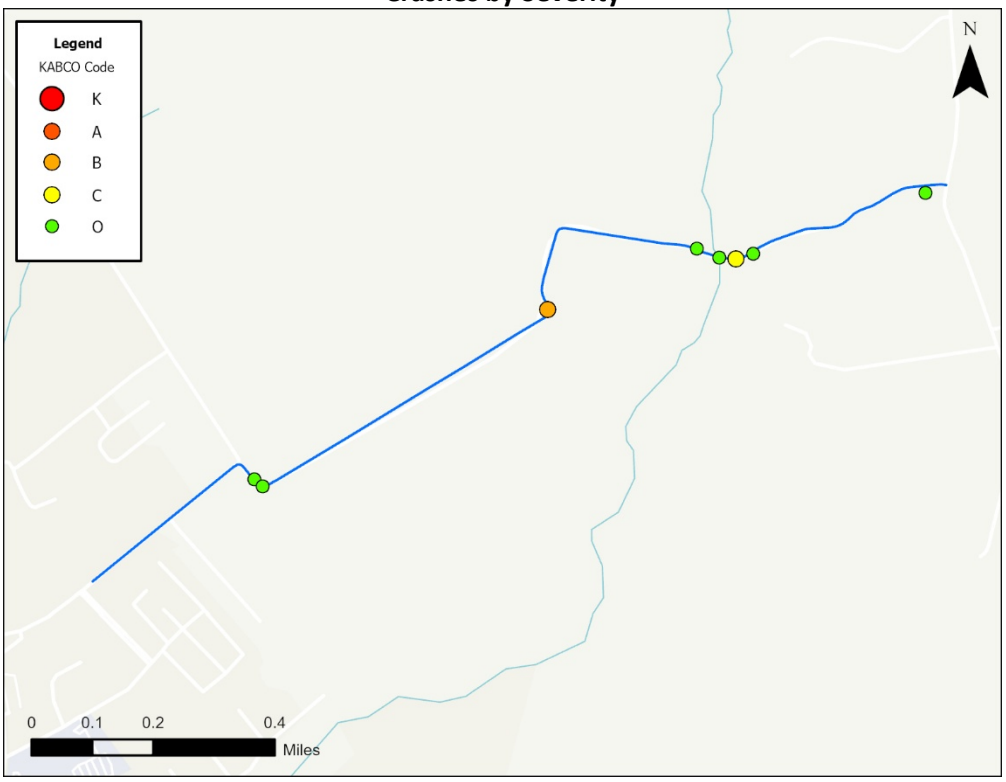
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4013	109-CR-1046 -000	BEAR TRACK RD	10	4	1	0-20		✓	✓

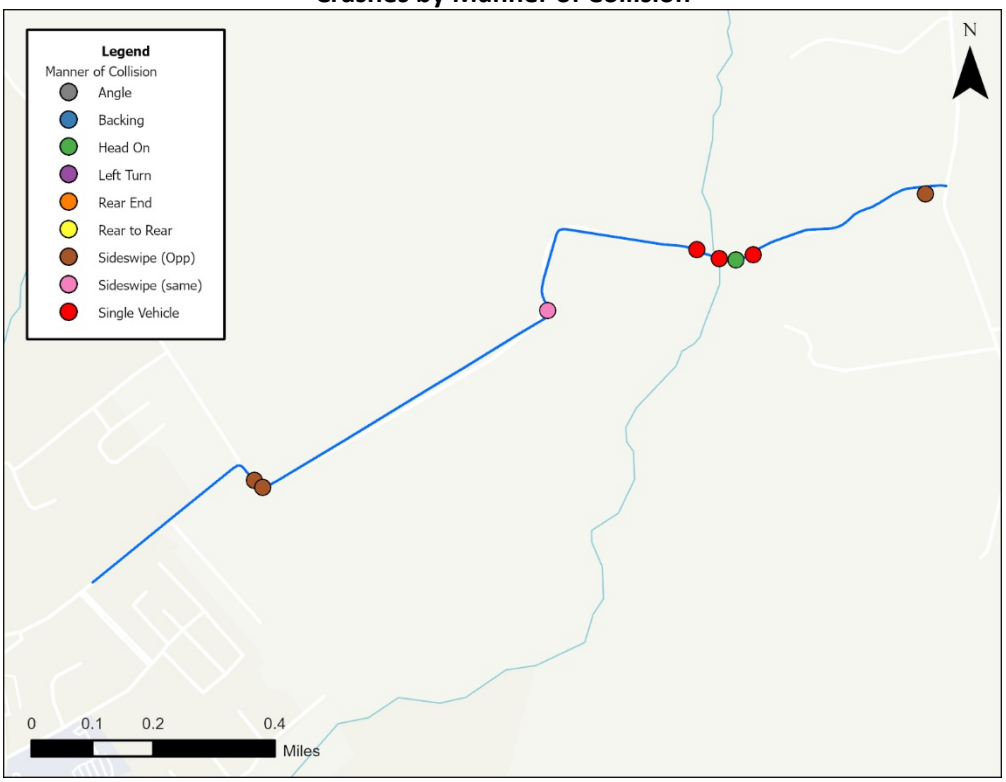
Roadway Typical Section



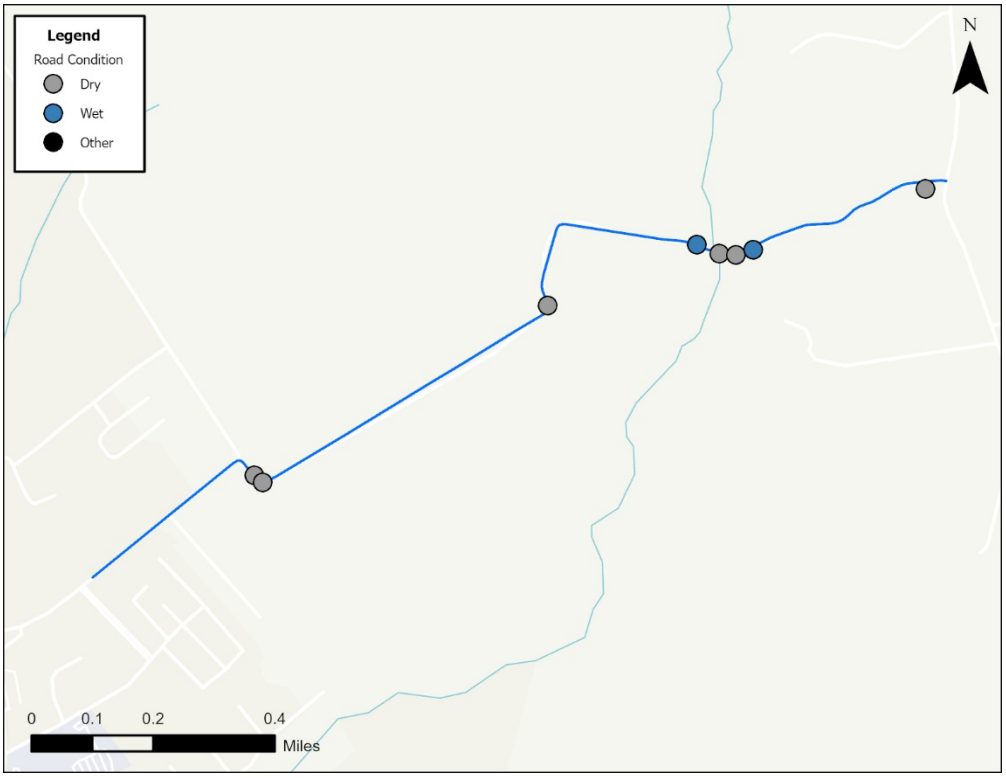
Crashes by Severity



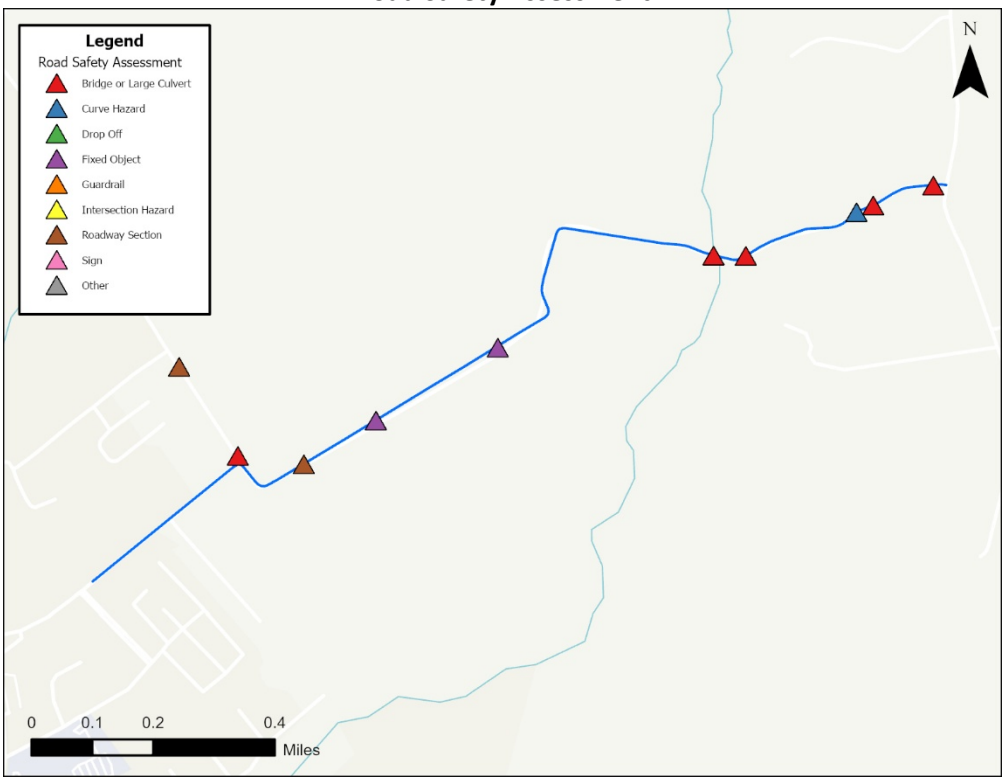
Crashes by Manner of Collision



Road Conditions



Road Safety Assessment



General Recommendations

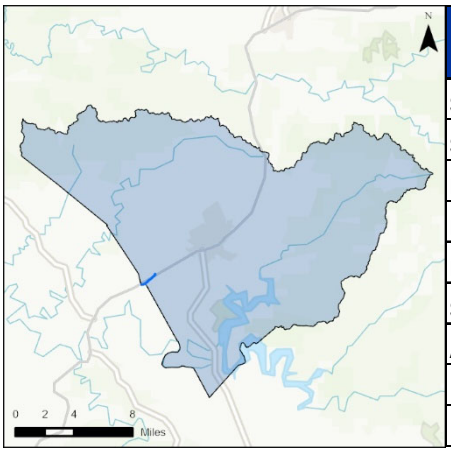
Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
4006	109-CR-1046 -000	BEAR TRACK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4007	109-CR-1046 -000	BEAR TRACK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4009	109-CR-1046 -000	BEAR TRACK RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4010	109-CR-1046 -000	BEAR TRACK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
4008	109-CR-1046 -000	BEAR TRACK RD	Curve Obscured,vegetation	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation

Point ID	RT_UNIQUE	RD_NAME	Object	Single / Series	Offset	Recommendations
4011	109-CR-1046 -000	BEAR TRACK RD	Tree	Single	0-1	Remove
4012	109-CR-1046 -000	BEAR TRACK RD	Tree	Series	3-5	Remove if possible

BLACK GNAT RD (109-CR-1518 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	1	1	0	**2**
SS - Opp	1	0	0	**1**
Backing	1	0	0	**1**
Head On	0	0	0	**0**
Left Turn	0	0	0	**0**
SS - Same	0	0	0	**0**
Angle	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

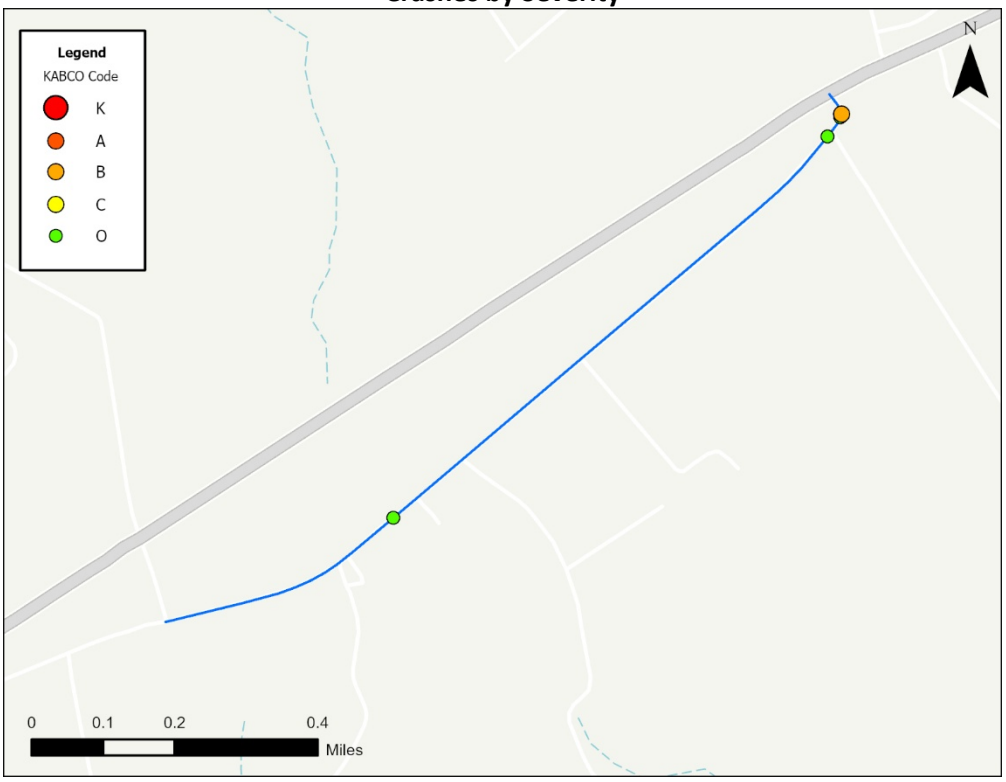
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4019	109-CR-1518 -000	BLACK GNAT RD	10	4	1	0-20		✓	✓

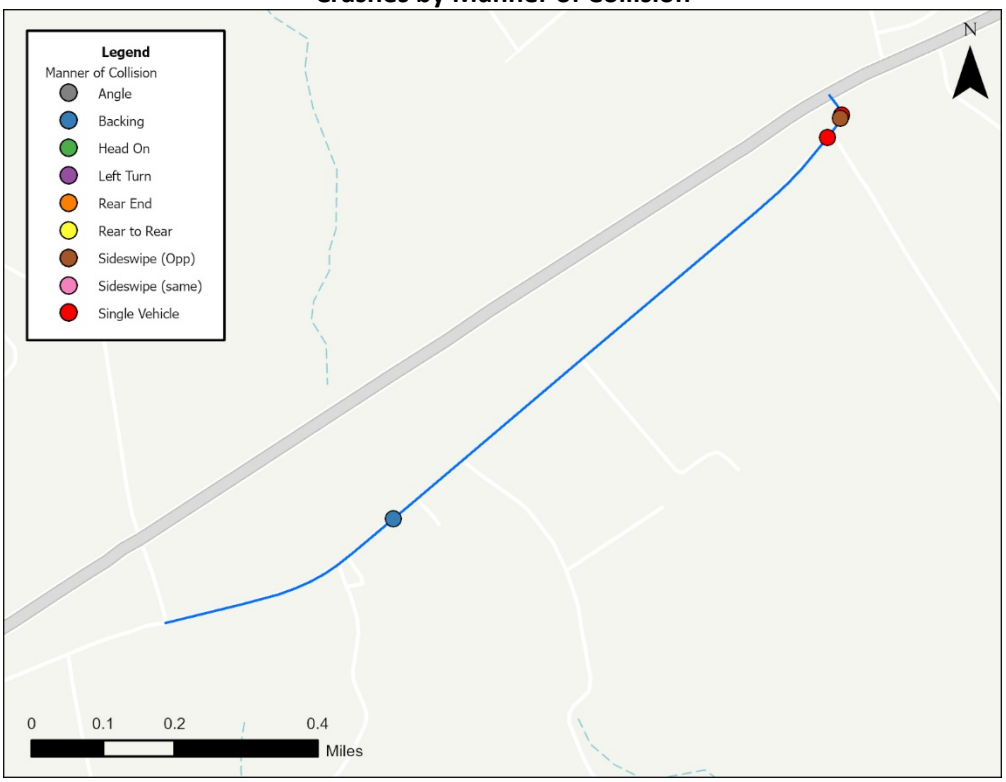
Roadway Typical Section



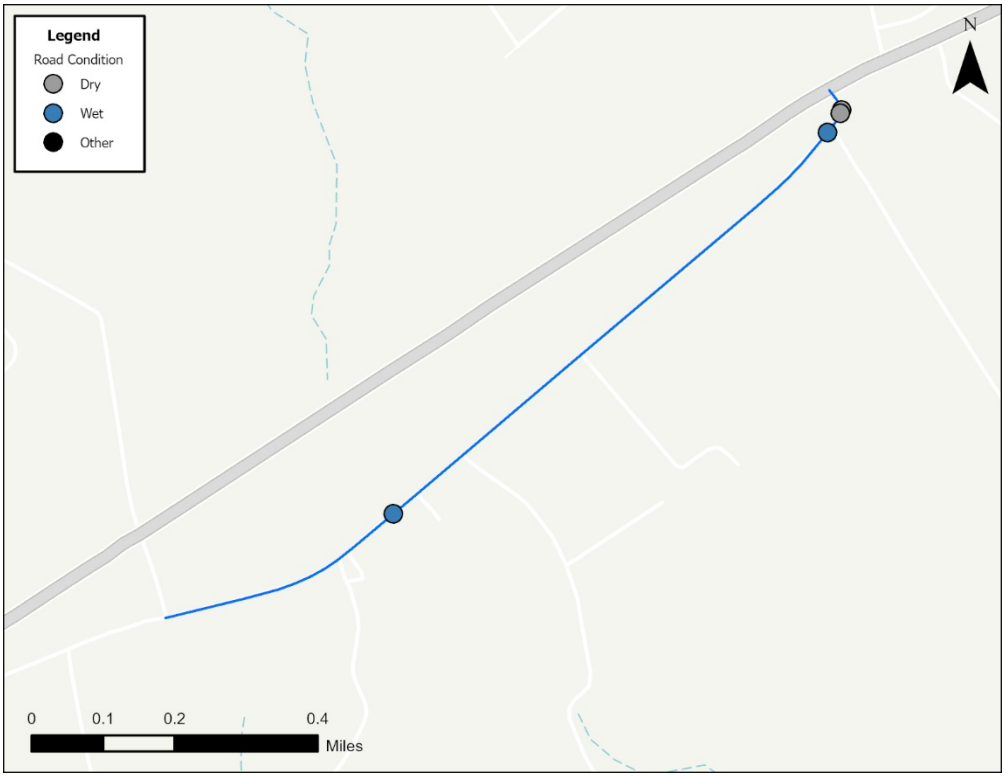
Crashes by Severity



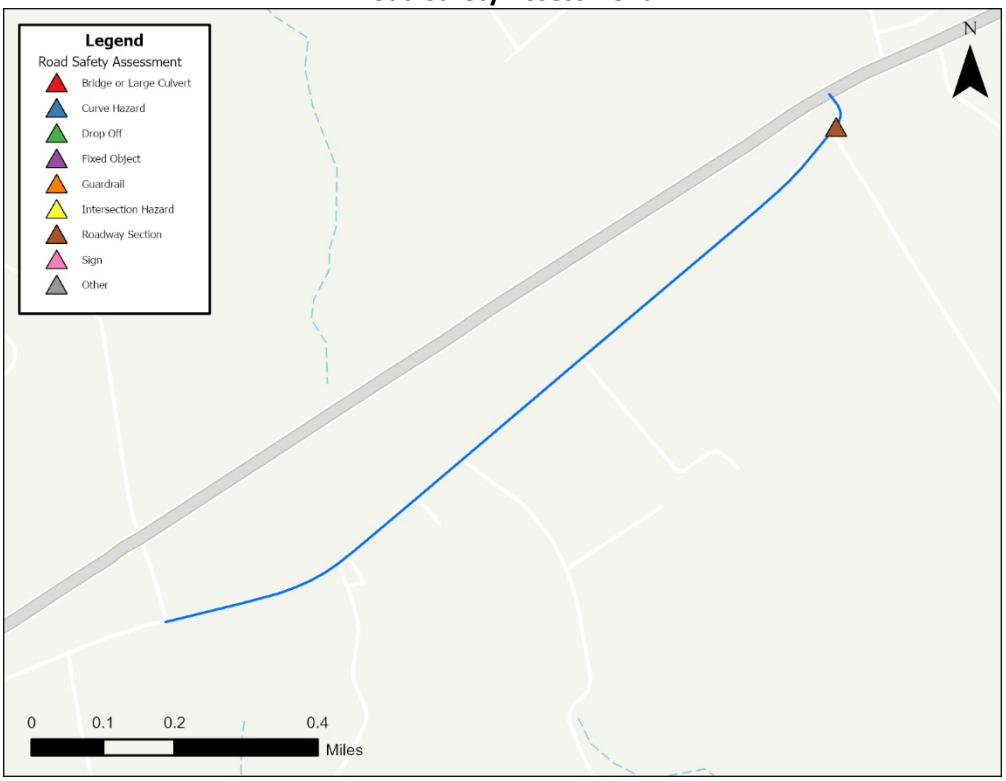
Crashes by Manner of Collision



Road Conditions



Road Safety Assessment

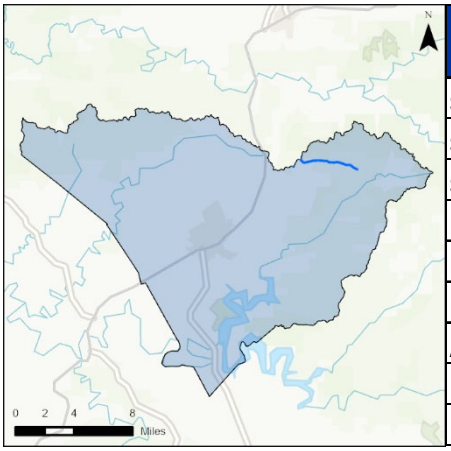


General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4019	109-CR-1518 -000	BLACK GNAT RD	10	4	1	0-20		✓	✓

BARNEY SCHOOL RD (109-CR-1021 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	4	1	0	**5**
SS - Opp	3	0	0	**3**
SS - Same	0	0	0	**0**
Left Turn	0	0	0	**0**
Head On	0	0	0	**0**
Backing	0	0	0	**0**
Angle	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

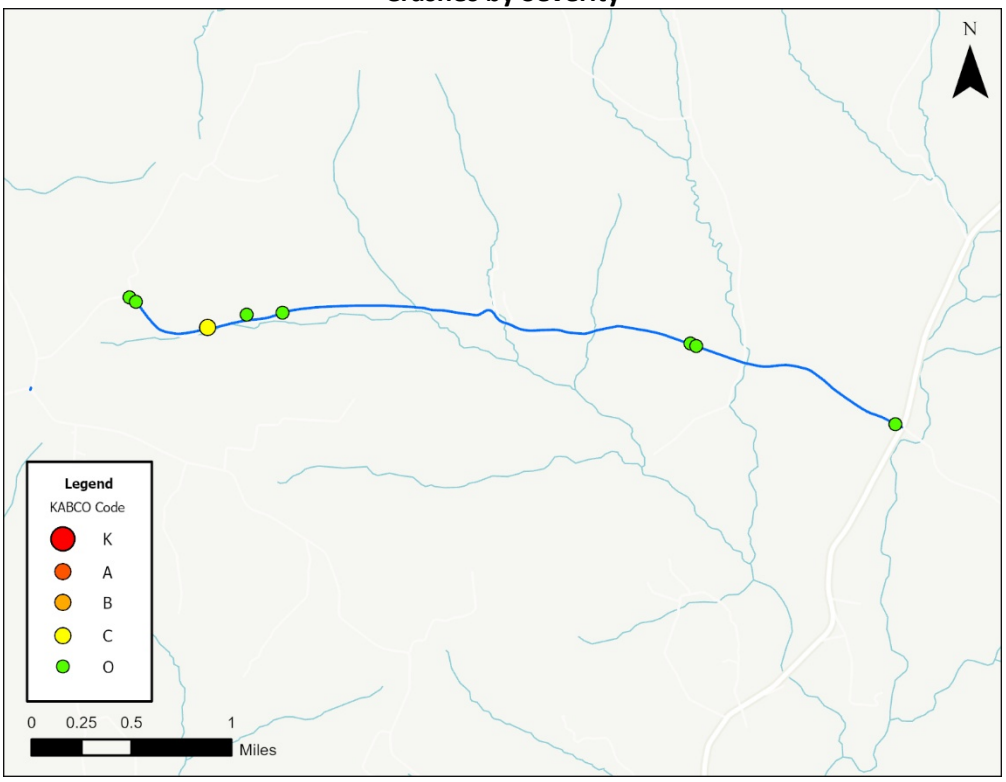
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4005	109-CR-1021 -000	BARNEY SCHOOL RD	10	4	1	0-20		✓	✓

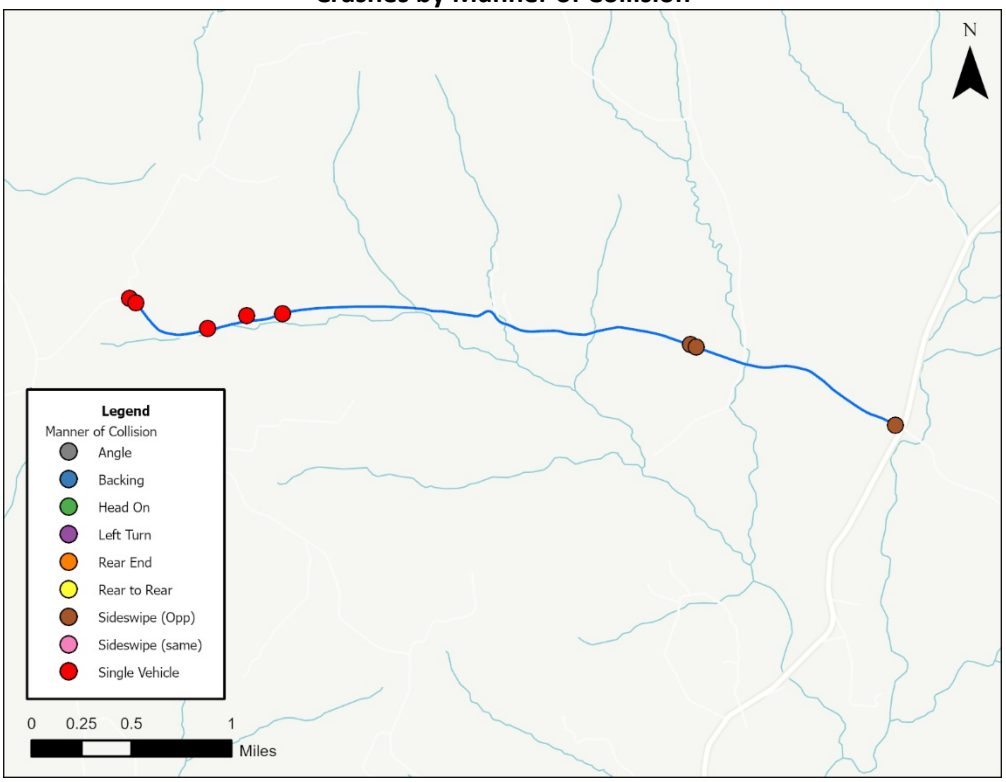
Roadway Typical Section



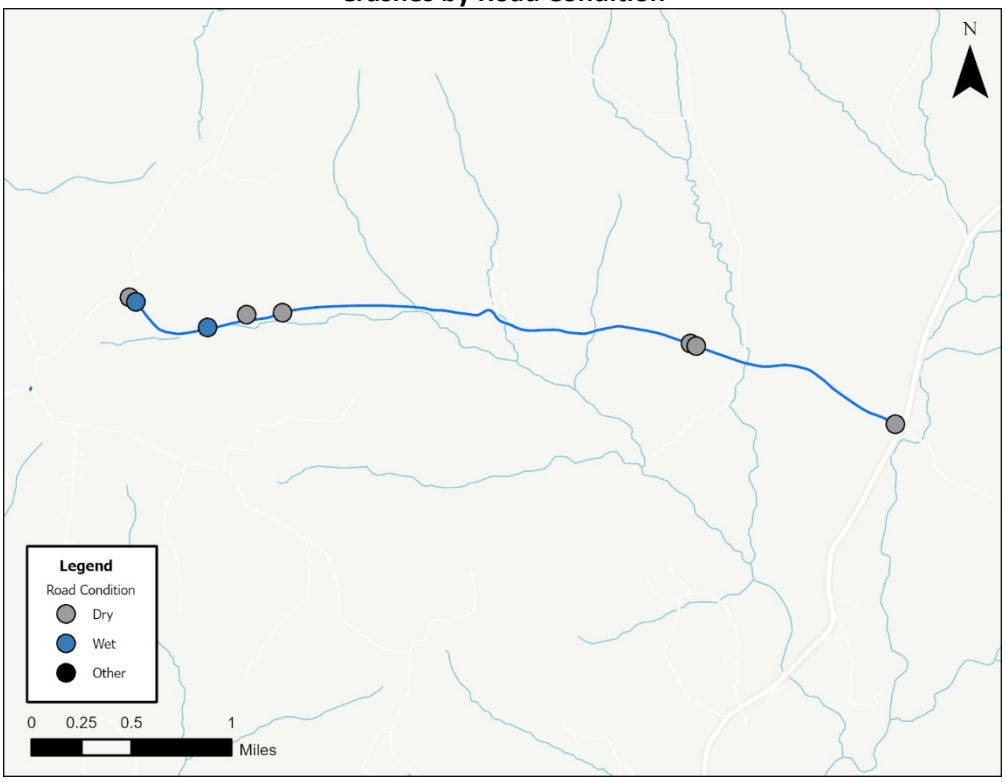
Crashes by Severity



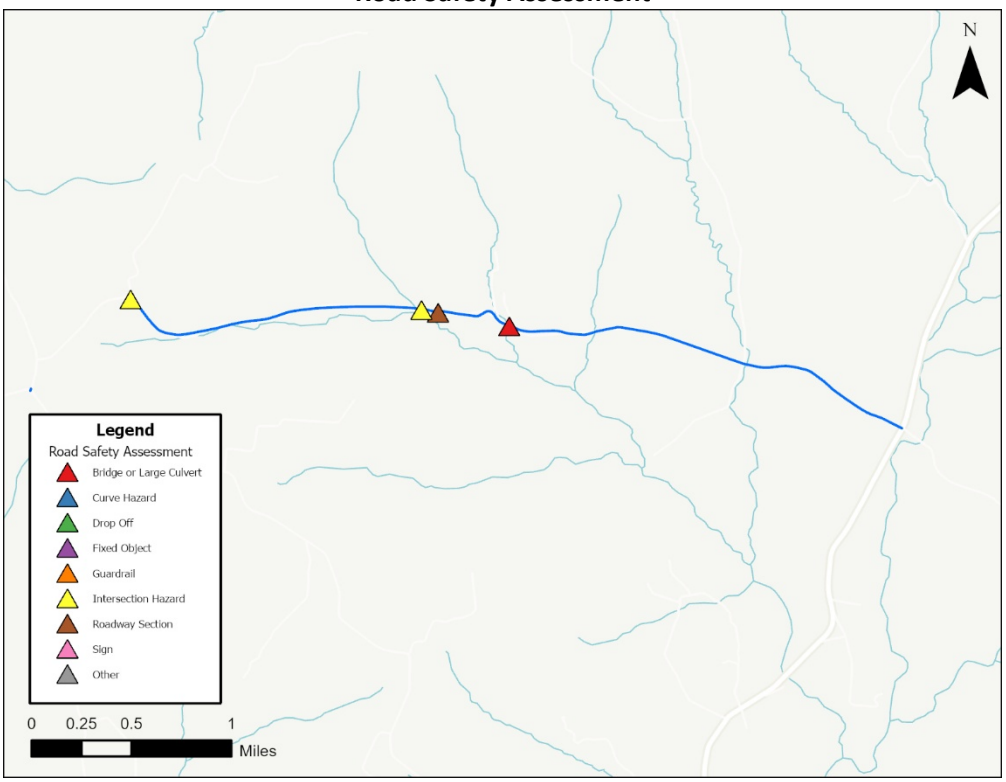
Crashes by Manner of Collision



Crashes by Road Condition



Road Safety Assessment



General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
4001	109-CR-1021 -000	BARNEY SCHOOL RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4002	109-CR-1021 -000	BARNEY SCHOOL RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
4003	109-CR-1021 -000	BARNEY SCHOOL RD	Obscured on Approa,Interse	No	Evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X); Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection skew
4004	109-CR-1021 -000	BARNEY SCHOOL RD	Obscured on Approa,Interse	No	Evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X); Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection skew

Other Roadways

General Roadway Conditions and Recommendations (Taylor County)

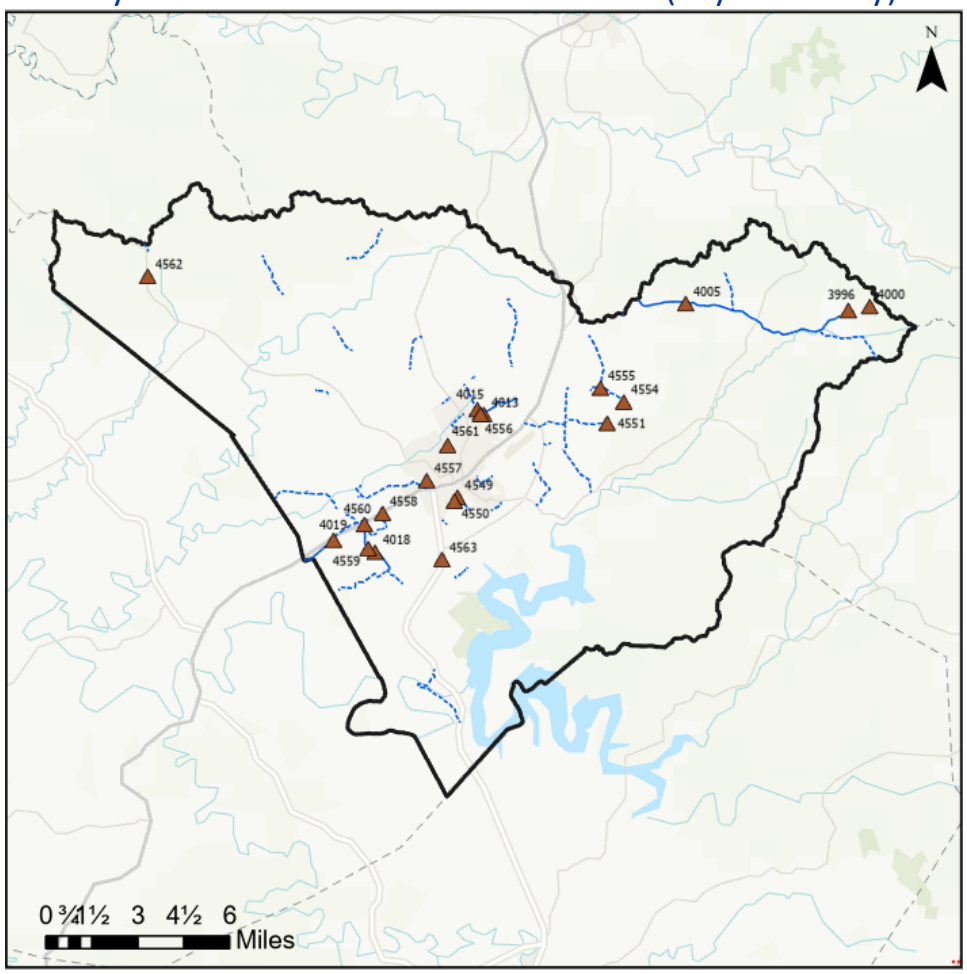


Exhibit Taylor-10: General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4562	109-CR-1390 -000	BADGER RD	24	3	2	20-40	✓		✓
4005	109-CR-1021 -000	BARNEY SCHOOL RD	10	4	1	0-20		✓	✓
4013	109-CR-1046 -000	BEAR TRACK RD	10	4	1	0-20		✓	✓
4019	109-CR-1518 -000	BLACK GNAT RD	10	4	1	0-20		✓	✓
4563	109-CR-1244 -000	BLUE HOLE RD	24	2	2	20-40	✓		✓
4015	109-CR-1200 -000	CHRISTERSON LN	10	4	1	0-20		✓	✓
4556	109-CR-1200 -000	CHRISTERSON LN	16	3	2	40-60	✓	✓	✓
4018	109-CR-1223 -000	DAVIS RD	10	4	1	0-20		✓	✓
4559	109-CR-1223 -000	DAVIS RD	14	3	3	20-40	✓	✓	✓
4560	109-CR-1223 -000	DAVIS RD	19	3	2	20-40	✓	✓	✓
4558	109-CR-1538A -000	HIDDEN MEADOWS DR	20	4	2	20-40	✓		✓
3996	109-CR-1019 -000	MERRIMAC RD	10	3	2	0-20		✓	✓
4000	109-CR-1019 -000	MERRIMAC RD	10	4	1	0-20		✓	✓
4557	109-CR-1221 -000	OLD GREENSBURG RD	21	3	3	40-60	✓		✓
4549	109-CR-1253 -000	RED LN	17	4	2	20-40	✓	✓	✓
4550	109-CR-1253 -000	RED LN	20	4	2	20-40	✓		✓
4554	109-CR-1004 -000	SPORTSMAN LAKE RD	17	3	2	20-40	✓	✓	✓
4555	109-CR-1004 -000	SPORTSMAN LAKE RD	12	1	3	20-40	✓	✓	✓
4561	109-CR-1551 -000	STEEPLECHASE DR	18	2	2	20-40	✓	✓	✓
4551	109-CR-1001 -000	WISE RD	16	4	1	20-40	✓	✓	✓

Exhibit Taylor-11: General Roadway Recommendations

Bridge / Culvert Recommendations (Taylor County)

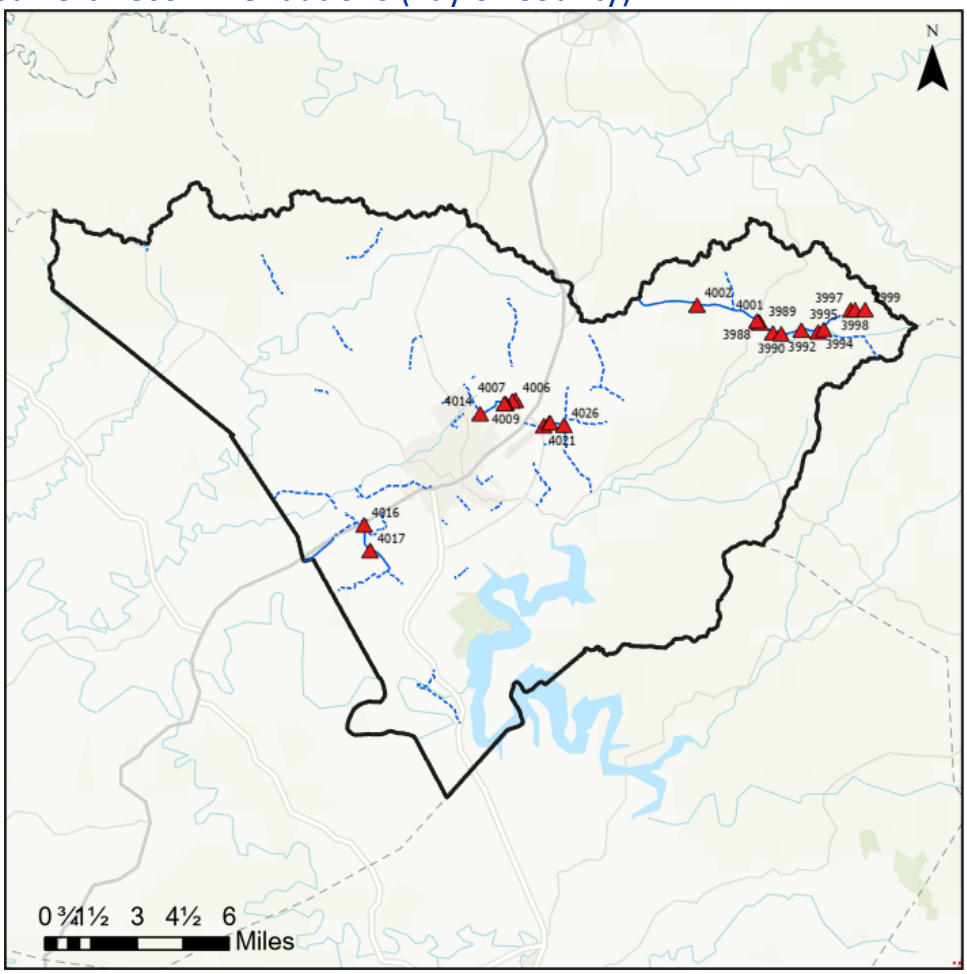


Exhibit Taylor-12: Bridge / Culvert Locations

Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
4001	109-CR-1021 -000	BARNEY SCHOOL RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4002	109-CR-1021 -000	BARNEY SCHOOL RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4006	109-CR-1046 -000	BEAR TRACK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4007	109-CR-1046 -000	BEAR TRACK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4009	109-CR-1046 -000	BEAR TRACK RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4010	109-CR-1046 -000	BEAR TRACK RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4014	109-CR-1200 -000	CHRISTERSON LN	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4016	109-CR-1223 -000	DAVIS RD	10	4	2	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4017	109-CR-1223 -000	DAVIS RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3988	109-CR-1019 -000	MERRIMAC RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3989	109-CR-1019 -000	MERRIMAC RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3990	109-CR-1019 -000	MERRIMAC RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3992	109-CR-1019 -000	MERRIMAC RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3993	109-CR-1019 -000	MERRIMAC RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3994	109-CR-1019 -000	MERRIMAC RD	0	0	4	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure.
3995	109-CR-1019 -000	MERRIMAC RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3997	109-CR-1019 -000	MERRIMAC RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3998	109-CR-1019 -000	MERRIMAC RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3999	109-CR-1019 -000	MERRIMAC RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4021	109-CR-1001 -000	WISE RD	10	0	0	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4023	109-CR-1001 -000	WISE RD	10	0	2	Evaluate need for guardrail on approach, Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4024	109-CR-1001 -000	WISE RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
4026	109-CR-1001 -000	WISE RD	10	4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.

Exhibit Taylor-13: Bridge / Culvert Recommendations

Curve Recommendations (Taylor County)

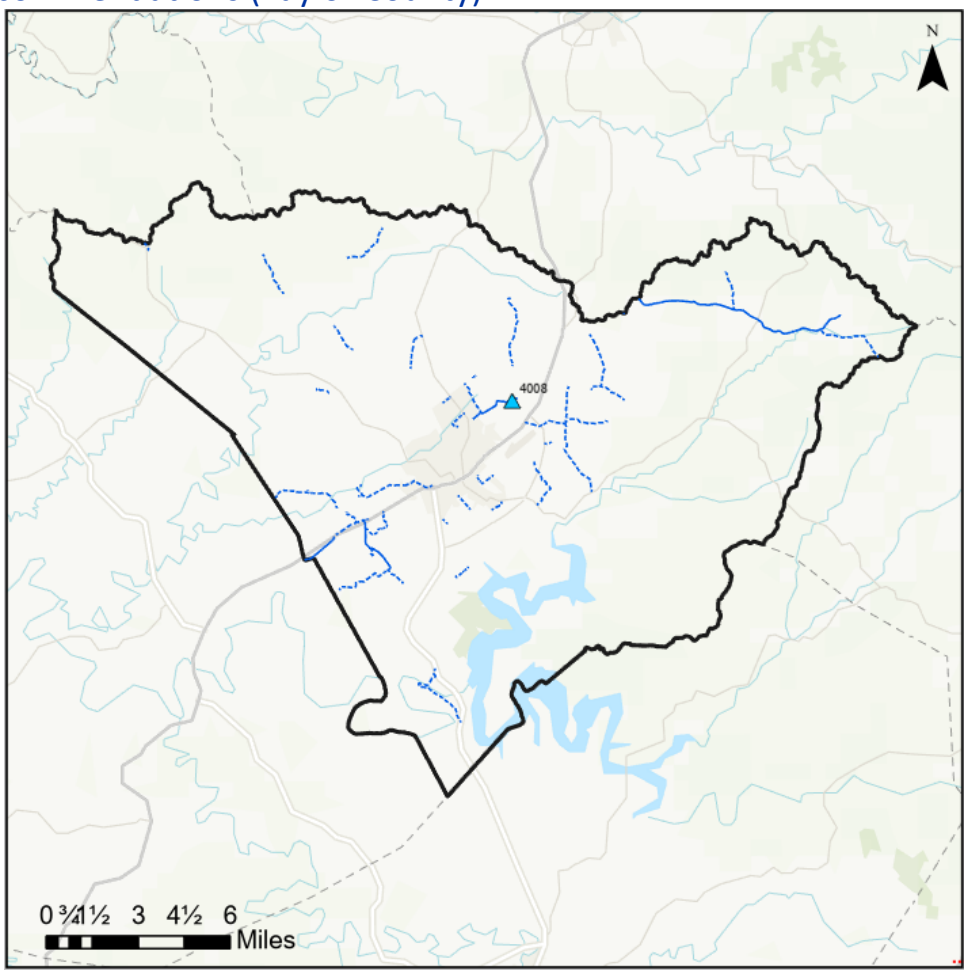


Exhibit Taylor-14: Curve Locations

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
4008	109-CR-1046 -000	BEAR TRACK RD	Curve Obscured,vegetation	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation

Exhibit Taylor-15: Curve Recommendations

Roadside Drop Off Recommendations (Taylor County)

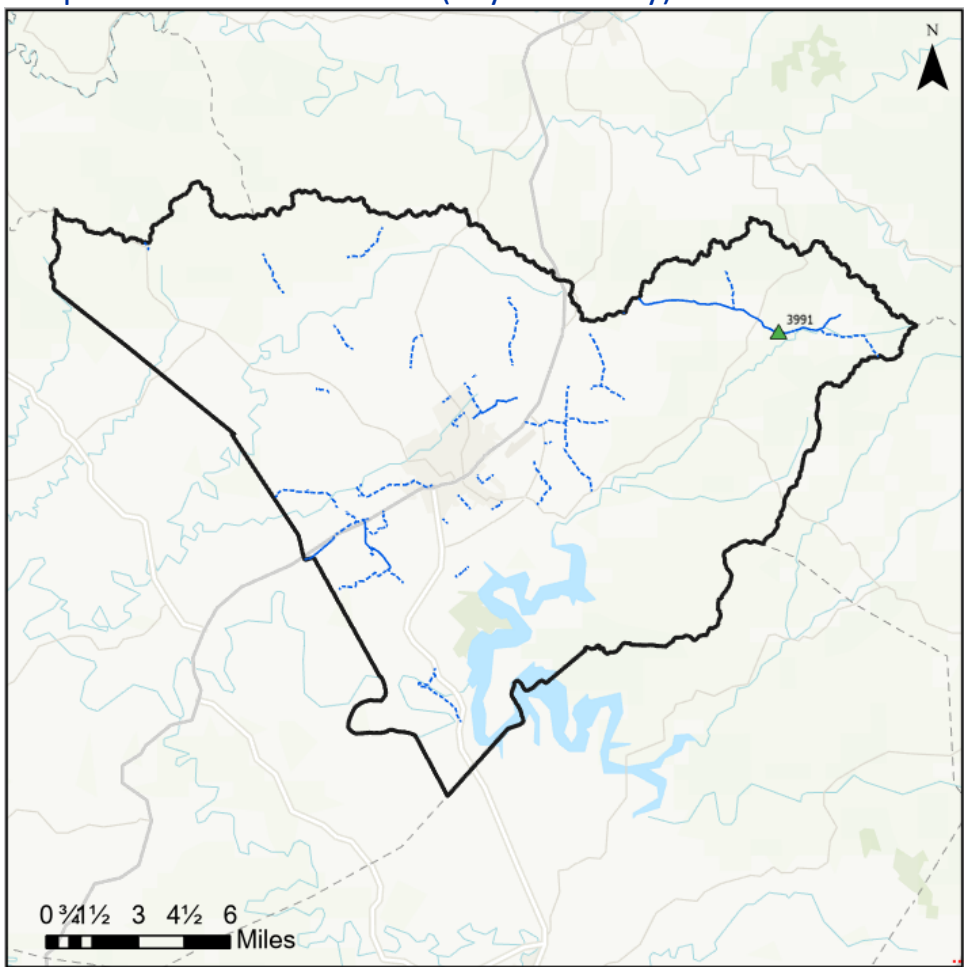


Exhibit Taylor-16: Curve Locations

Point ID	RT_UNIQUE	RD_NAME	Drop Off Offset	Drop Off Height	Recommendations
3991	109-CR-1019 -000	MERRIMAC RD	0-1	5-10	Install Type 2 Object Marker(s) or Delineator(s)

Exhibit Taylor-17: Curve Recommendations

Fixed Object Recommendations (Taylor County)

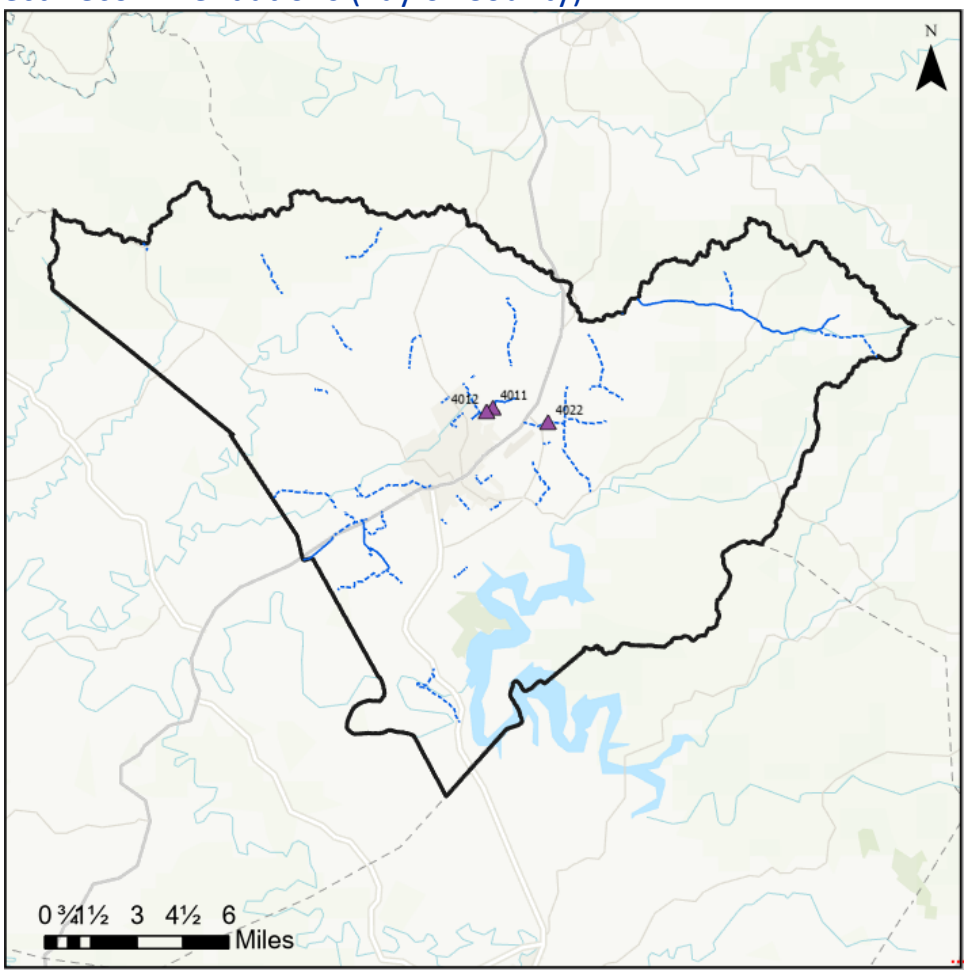


Exhibit Taylor-18: Fixed Object Locations

Point ID	RT_UNIQUE	RD_NAME	Object	Single / Series	Offset	Recommendations
4011	109-CR-1046 -000	BEAR TRACK RD	Tree	Single	0-1	Remove
4012	109-CR-1046 -000	BEAR TRACK RD	Tree	Series	3-5	Remove if possible
4022	109-CR-1001 -000	WISE RD	Tree	Single	3-5	Remove if possible; Install Type 2 Object Marker

Exhibit Taylor-19: Fixed Object Recommendations

Guardrail Recommendations (Taylor County)

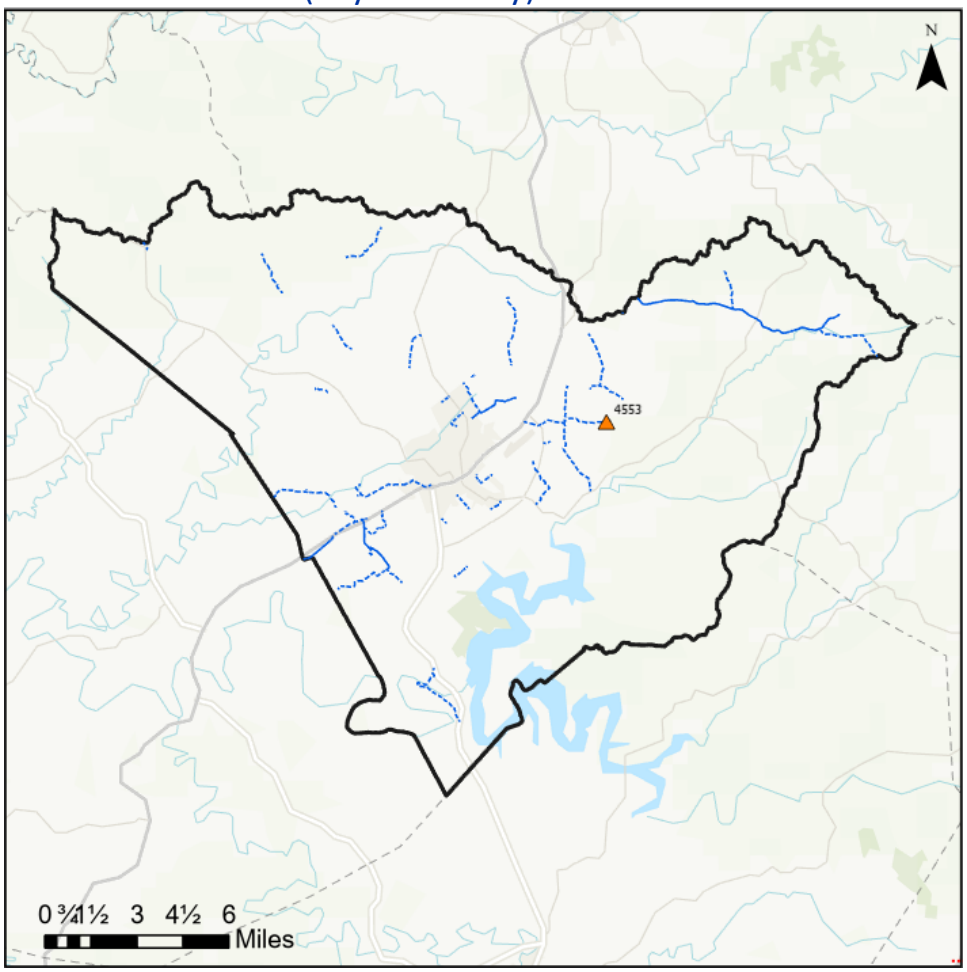


Exhibit Taylor-20: Guardrail Locations

Point ID	RT_UNIQUE	RD_NAME	Guard Condition	Meet Warrants	End Treatments	Recommendations
4553	109-CR-1001 -000	WISE RD	Poor	No	None	Remove

Exhibit Taylor-21: Guardrail Recommendations

Intersection Recommendations (Taylor County)

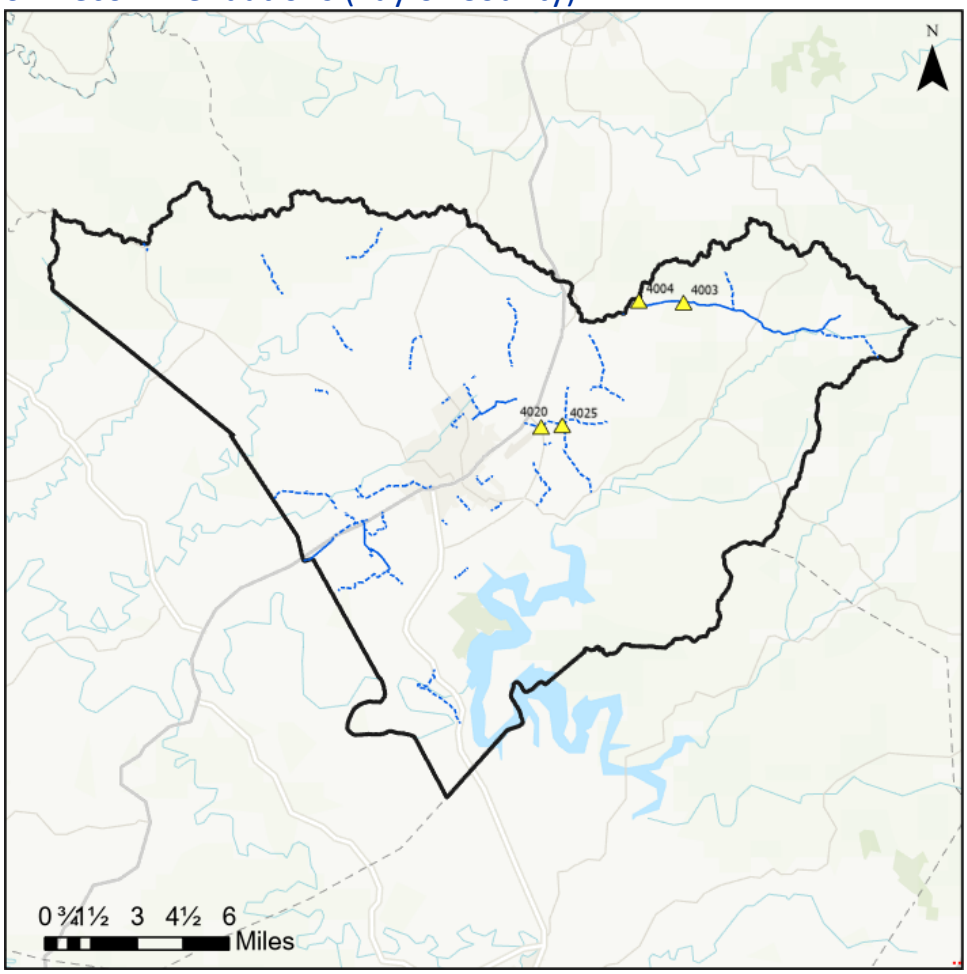


Exhibit Taylor-22: Intersection Locations

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
4003	109-CR-1021 -000	BARNEY SCHOOL RD	Intersection Obscured on Approa,Intersection Skew	No	Evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X); Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection skew
4004	109-CR-1021 -000	BARNEY SCHOOL RD	Intersection Obscured on Approa,Intersection Skew	No	Evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X); Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection skew
4020	109-CR-1001 -000	WISE RD	Intersection Obscured on Approa	Yes	Clear vegetation and evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)
4025	109-CR-1001 -000	WISE RD	Intersection Skew,Other	No	Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection skew;evaluate sight distance ; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)

Exhibit Taylor-23: Intersection Recommendations

Signing Recommendations (Taylor County)

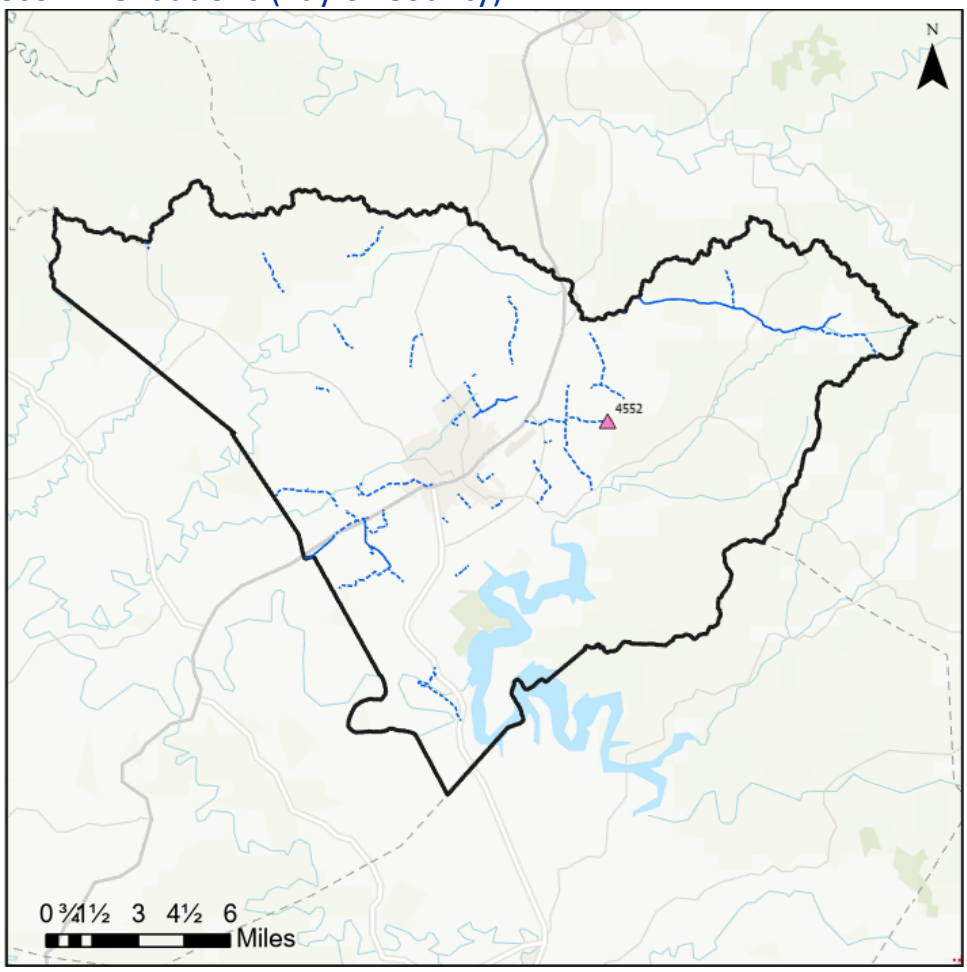


Exhibit Taylor-24: Sign Locations

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/LCADDSAP.

APPENDIX M: WAYNE COUNTY SAFETY ACTION PLAN

Wayne County Overview

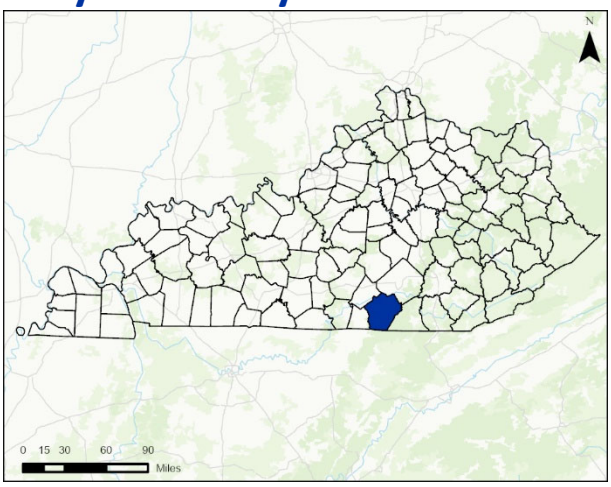


Exhibit Wayne-1: Location Map

Key Information Table Wayne County	
Population	19,580
Population in Persistent Poverty	29%
Underserved Community	**Yes**
Fatalities (All Roads)	21
Fatalities (County Roads)	0
Fatality Rate per 100,000 persons	**107.25**
County Road Mileage	432.9
State Road Mileage	224.7
Total Mileage	**657.6**

Exhibit Wayne-2: Key Information

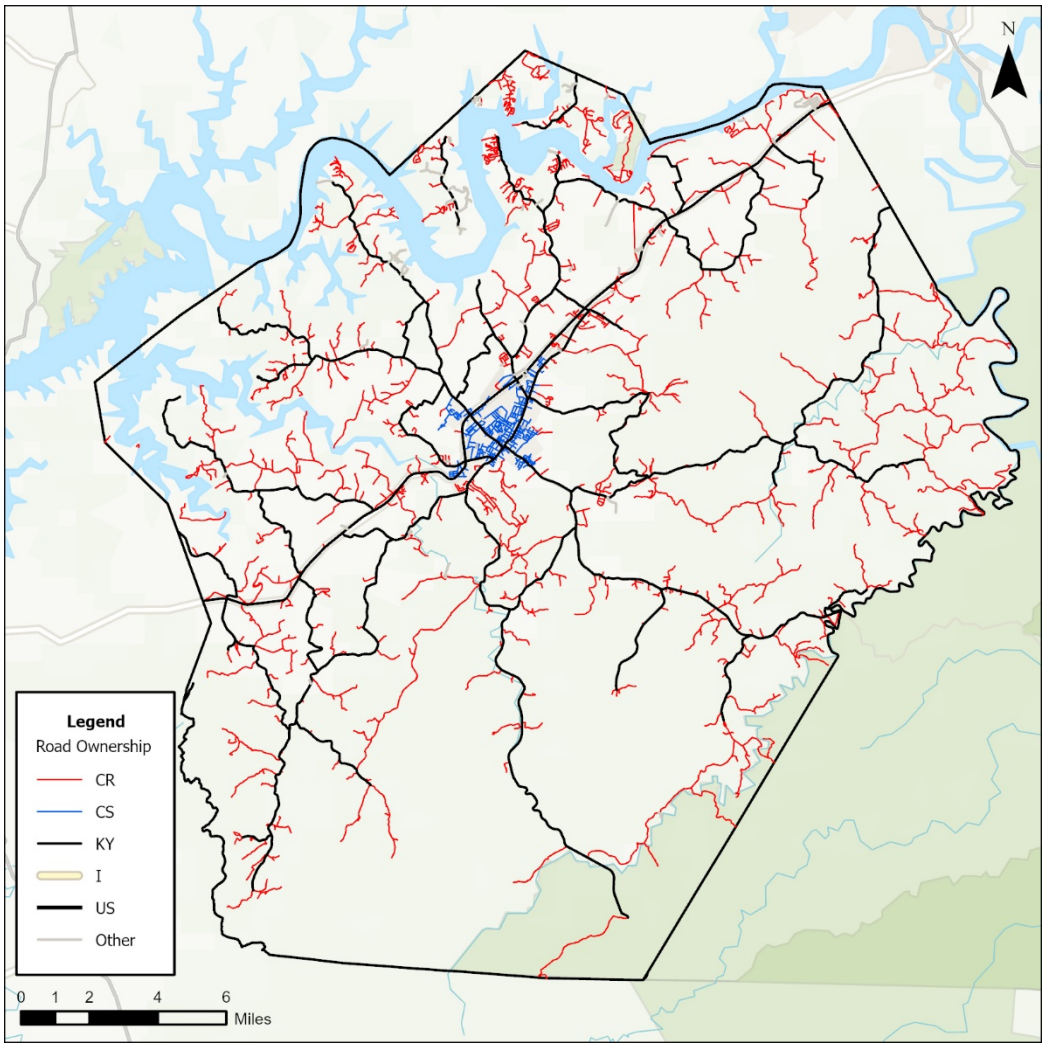


Figure Wayne-3: Map of County Roadways

Crash Analysis

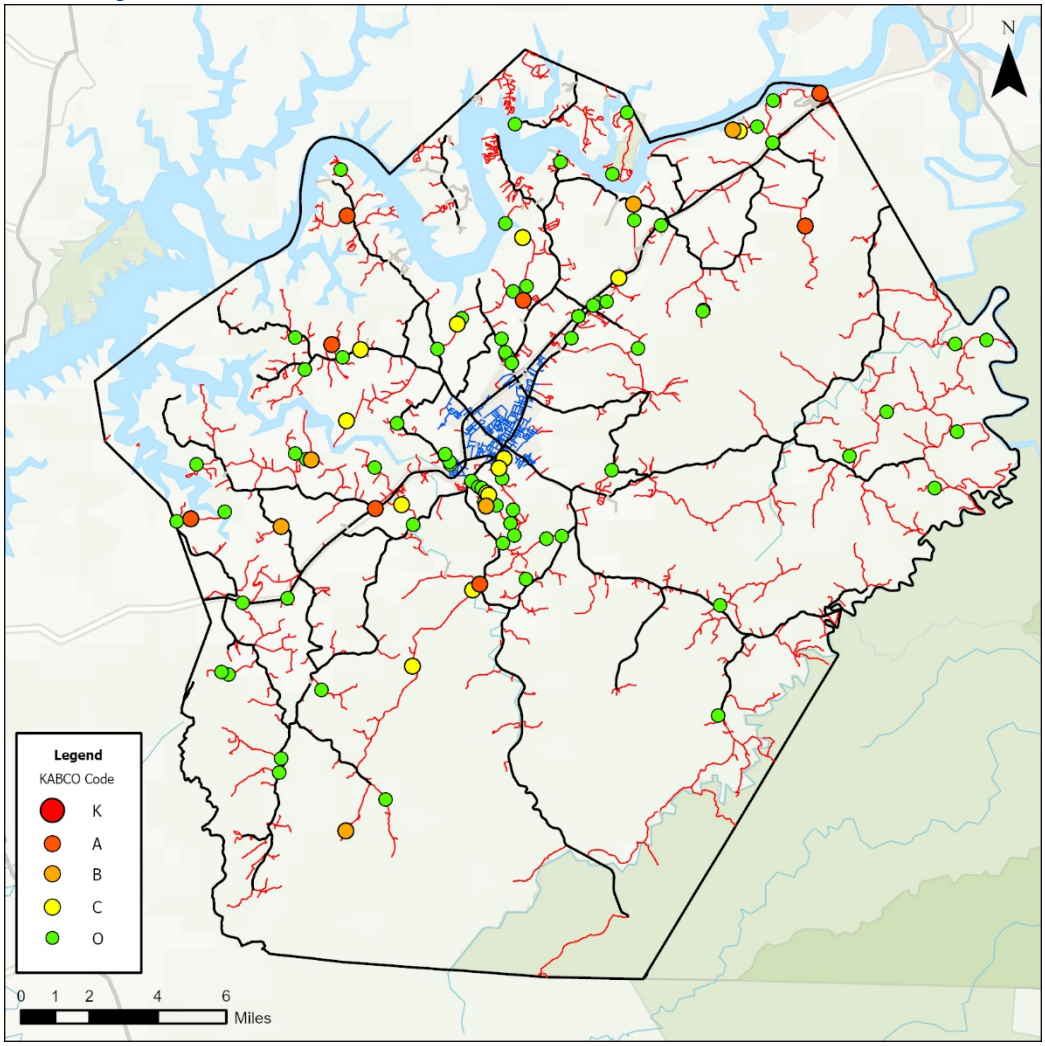
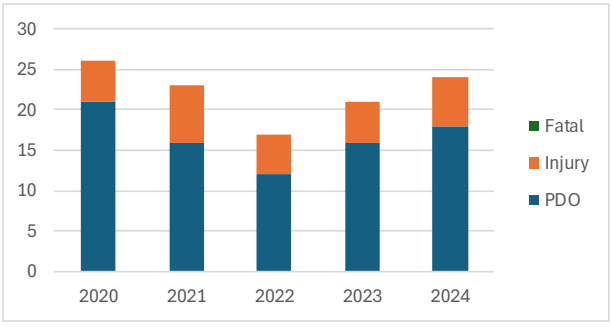


Figure Wayne-4: Map of County Road Crashes



Year	Property Damage Only	Injury	Fatal	Total
2020	21	5	0	**26**
2021	16	7	0	**23**
2022	12	5	0	**17**
2023	16	5	0	**21**
2024	18	6	0	**24**

Figure Wayne-5: Crash Distribution by Year

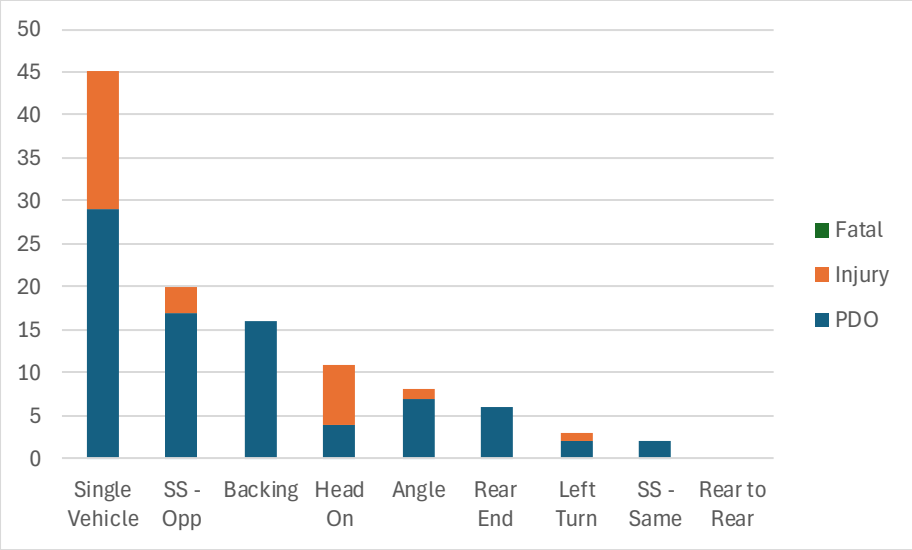


Exhibit Wayne-6: Crash Frequency and Severity by Manner of Collision

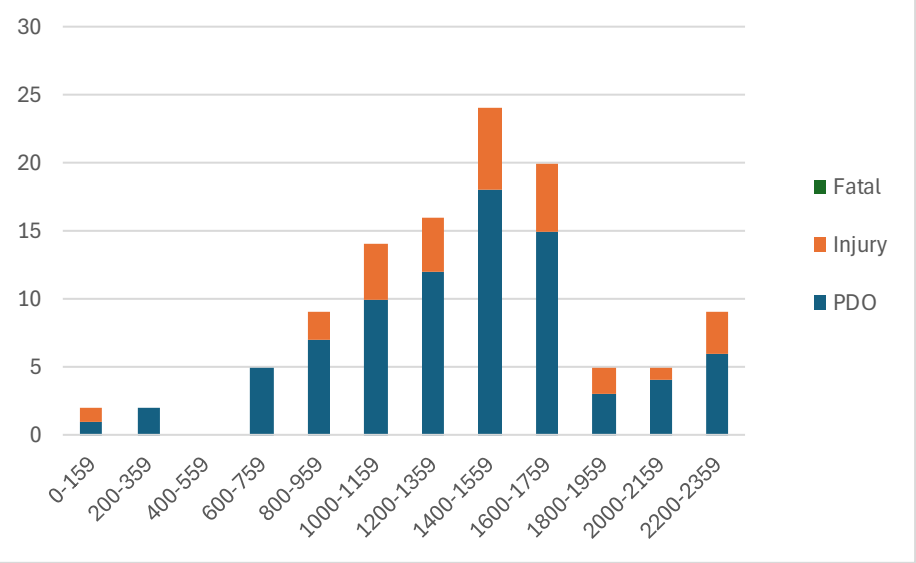


Exhibit Wayne-7: Crashes and Severity by Time of Day

Focus Roadways

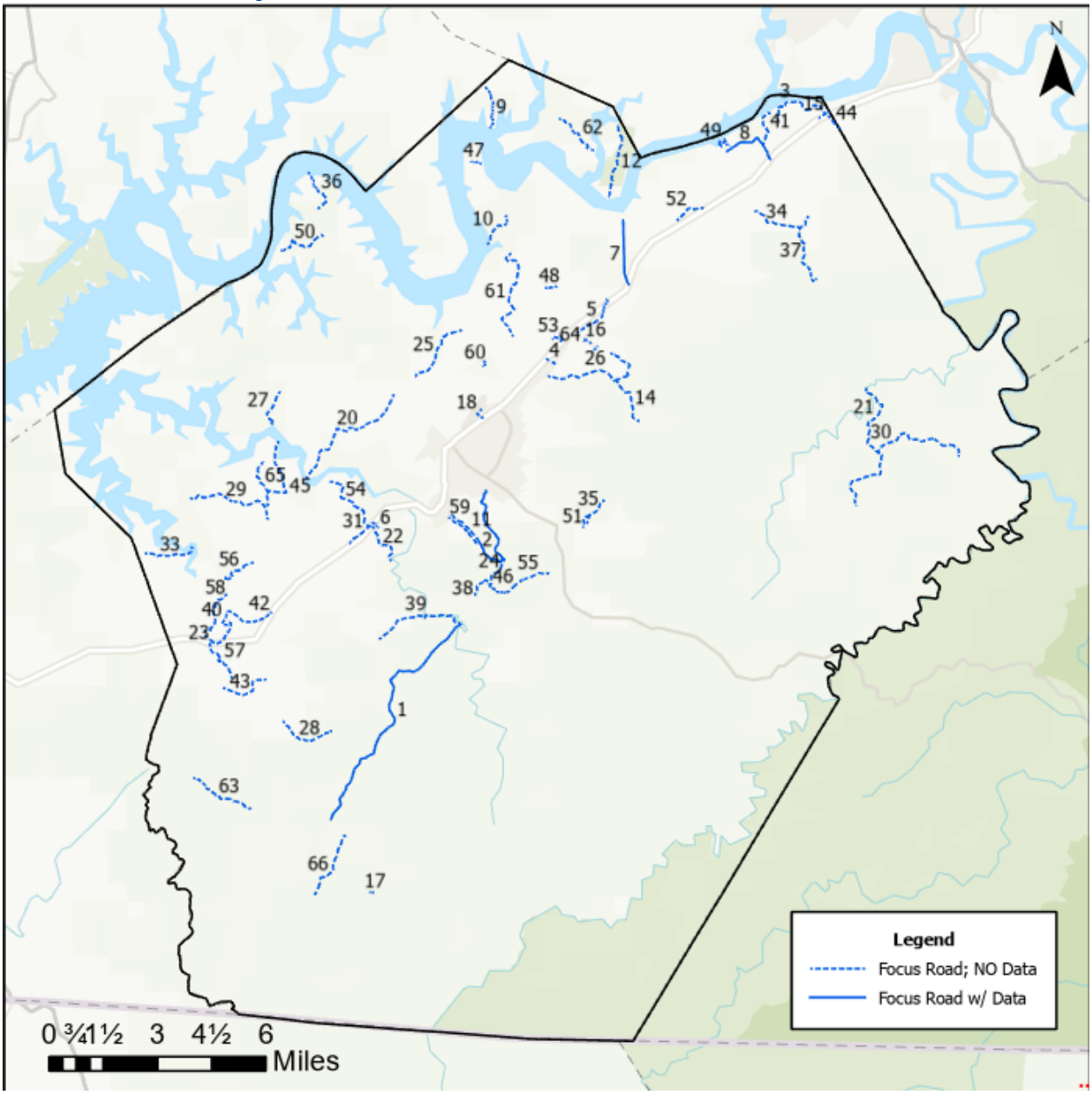


Exhibit Wayne-8: Focus Roads

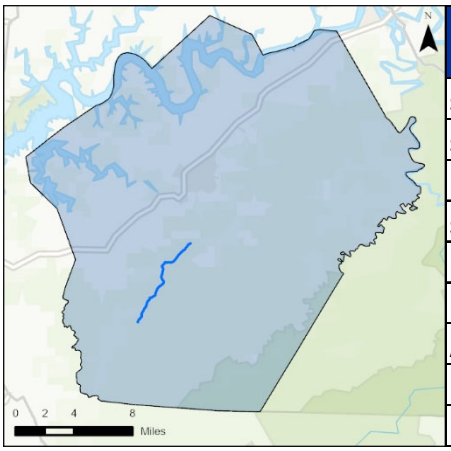
RT_UNIQUE	Length	County	Road Name	Injury Crashes	Fatal Crashes	PDO	CrashScore	UseScore	Rank	Focus Roads	Data Points	Roadway Data
Wayne County												
116-CR-1209 -000	**7.3**	**Wayne**	**EDWARDS MOUNTAIN RD**	**2**	**1**	**3**	**3.33**	**0.74**	**1**	**1**	**6**	**1**
116-CR-1307 -000	**3.5**	**Wayne**	**MORRIS HILL RD**	**0**	**1**	**12**	**2.15**	**1.69**	**2**	**1**	**9**	**2**
116-CR-1096 -000	2.1	Wayne	GREEN HLS EST RD	1	0	0	0.92	2.79	3	1	0	0
116-CR-1541 -000	0.3	Wayne	THE KINGS HWY	0	0	0	0.00	3.22	4	1	0	0
116-CR-1074 -000	1.4	Wayne	OLD HWY 90	0	0	6	0.43	2.70	5	1	0	0
116-CR-1382 -000	0.2	Wayne	FOXWOOD DR	0	0	0	0.00	3.12	6	1	0	0
116-CR-1066 -000	**1.8**	**Wayne**	**OLD MILLSPRINGS RD**	**0**	**0**	**3**	**0.22**	**2.74**	**7**	**1**	**4**	**2**
116-CR-1046 -000	**1.7**	**Wayne**	**FRAZER CHAPEL RD**	**0**	**0**	**2**	**0.14**	**2.79**	**8**	**1**	**4**	**1**
116-CR-1337 -000	1.4	Wayne	RICHARDSON RD	0	0	0	0.00	2.93	9	1	0	0
116-CR-1330 -000	1.1	Wayne	NEW FALL CRK RD	0	0	0	0.00	2.82	10	1	0	0
116-CR-1300 -000	1.1	Wayne	MISSOURI HOLW RD	0	0	3	0.22	2.50	11	1	0	0
116-CR-1056 -000	2.3	Wayne	MILL SPGS BATTLEFIELD RD	0	0	0	0.00	2.71	12	1	0	0
116-CR-1526H -000	0.3	Wayne	SUNSTAR BLVD	0	0	0	0.00	2.70	13	1	0	0
116-CR-1004 -000	1.5	Wayne	KELLY LN-SPAN HL RD	1	0	0	0.92	1.73	14	1	0	0
116-CR-1044 -000	0.4	Wayne	OLD KY 90 LOOP	0	0	0	0.00	2.64	15	1	0	0
116-CR-1525D -000	0.2	Wayne	CENTER DR	0	0	0	0.00	2.62	16	1	0	0
116-CR-1703 -000	0.2	Wayne	PYLES CEMETERY RD	0	0	0	0.00	2.54	17	1	0	0
116-CR-1642 -000	0.4	Wayne	AIRPORT ROAD ACCESS	0	0	0	0.00	2.50	18	1	0	0
116-CR-1258 -000	0.9	Wayne	PERDUE RD	0	0	1	0.07	2.41	19	1	0	0
116-CR-1317 -000	3.9	Wayne	TWYFORD PT RD	0	1	1	1.35	1.09	20	1	0	0
116-CR-1030 -000	2.4	Wayne	DELTA RD	0	0	1	0.07	2.25	21	1	0	0
116-CR-1201 -000	1.3	Wayne	FURNACE MOUNTAIN RD	0	1	1	1.35	0.94	22	1	0	0
116-CR-1272 -070	0.1	Wayne	OLD ZULA RD CONN	0	0	0	0.00	2.16	23	1	0	0
116-CR-1100 -000	0.9	Wayne	POND RD	0	1	3	1.50	0.60	24	1	0	0
116-CR-1324 -000	2.0	Wayne	SALLY BURNETT RD	0	1	2	1.43	0.54	25	1	0	0
116-CR-1012 -000	3.4	Wayne	KELLEY LN	0	0	4	0.29	1.65	26	1	0	0
116-CR-1396 -000	1.2	Wayne	DUG RD	1	0	0	0.92	0.99	27	1	0	0
116-CR-1231 -000	1.7	Wayne	HARMON HOLW RD	0	1	2	1.43	0.41	28	1	0	0
116-CR-1380 -000	2.7	Wayne	MURL RD	0	0	1	0.07	1.68	29	1	0	0
116-CR-1023 -000	5.2	Wayne	BRAMMER HL RDG RD	0	0	1	0.07	1.68	30	1	0	0
116-CR-1423 -000	0.9	Wayne	GREENBRIAR LOOP	1	0	0	0.92	0.79	31	1	0	0
116-CR-1525F -000	0.2	Wayne	PLEASANT VIEW RD	0	1	0	1.28	0.41	32	1	0	0
116-CR-1252 -000	1.9	Wayne	CARTER DOCK RD	1	0	1	0.99	0.70	33	1	0	0
116-CR-1040 -000	1.4	Wayne	SUGAR HOLW RD	0	1	0	1.28	0.38	34	1	0	0
116-CR-1530 -000	1.1	Wayne	SHAW VALLEY RD	0	0	2	0.14	1.49	35	1	0	0
116-CR-1356 -000	1.4	Wayne	RAMSEY PT RD	0	0	1	0.07	1.54	36	1	0	0
116-CR-1039 -000	2.2	Wayne	STRAWBERRY RD	1	0	0	0.92	0.68	37	1	0	0
116-CR-1207 -000	0.4	Wayne	WRAY HILL LN	0	1	1	1.35	0.22	38	1	0	0
116-CR-1204 -000	2.7	Wayne	COOPER HOLW RD	0	1	0	1.28	0.26	39	1	0	0
116-CR-1272 -000	2.8	Wayne	OLD ZULA RD	0	0	0	0.00	1.53	40	1	0	0
116-CR-1047 -000	1.1	Wayne	LOG HAVEN RD	1	0	1	0.99	0.49	41	1	0	0
116-CR-1235 -000	0.4	Wayne	OLD SUSIE RD	0	0	0	0.00	1.44	42	1	0	0
116-CR-1241 -000	1.5	Wayne	BERTRAM - GUFFEY RD	0	0	0	0.00	1.41	43	1	0	0
116-CR-1095 -000	0.5	Wayne	HALL RD	1	0	0	0.92	0.47	44	1	0	0
116-CR-1384 -000	2.1	Wayne	JR. PHIPPS RD	1	0	0	0.92	0.47	45	1	0	0
116-CR-1148 -000	0.8	Wayne	COOPER VIEW RD	0	0	0	0.00	1.36	46	1	0	0
116-CR-1332E -000	0.3	Wayne	OATTS RD	0	0	1	0.07	1.27	47	1	0	0
116-CR-1540 -000	0.4	Wayne	DOGWOOD TRL	0	0	0	0.00	1.28	48	1	0	0
116-CR-1522C -000	0.7	Wayne	CEDAR BLUFF CIR RD	1	0	0	0.92	0.35	49	1	0	0
116-CR-1358 -000	1.6	Wayne	ARTHUR RD	0	0	0	0.00	1.26	50	1	0	0
116-CR-1529A -000	0.2	Wayne	PINE RD	0	0	0	0.00	1.24	51	1	0	0
116-CR-1052 -000	0.9	Wayne	CAVE LAKE RD	0	0	0	0.00	1.21	52	1	0	0
116-CR-1526A -000	0.2	Wayne	BRANDON DR	0	0	0	0.00	1.21	53	1	0	0
116-CR-1389 -000	2.0	Wayne	GREENBRIAR RD	0	0	1	0.07	1.13	54	1	0	0
116-CR-1102 -000	1.5	Wayne	FOSTER MOUNTAIN RD	0	0	1	0.07	1.12	55	1	0	0
116-CR-1254 -000	1.1	Wayne	OLD FIRE TRL	1	0	0	0.92	0.27	56	1	0	0
116-CR-1242 -000	1.4	Wayne	RECTOR RD	0	0	2	0.14	1.04	57	1	0	0
116-CR-1248 -000	1.4	Wayne	OLD BETHEL CHURCH RD	0	0	0	0.00	1.13	58	1	0	0
116-CR-1417A -000	1.1	Wayne	MISSOURI VALLEY RD	0	0	0	0.00	1.13	59	1	0	0
116-CR-1472 -000	0.3	Wayne	JOY DR	0	0	0	0.00	1.13	60	1	0	0
116-CR-1328 -000	3.1	Wayne	OLD FALL CRK RD	0	0	0	0.00	1.10	61	1	0	0
116-CR-1062 -000	1.5	Wayne	HAMILTON RD	0	0	0	0.00	1.08	62	1	0	0
116-CR-1225 -000	2.0	Wayne	DENNEY HOLLOW RD	0	0	0	0.00	1.08	63	1	0	0
116-CR-1525C -000	0.1	Wayne	HEARTLAND SUBDIVISION RD	0	0	0	0.00	1.07	64	1	0	0
116-CR-1385 -000	1.5	Wayne	BELL-PHIPPS RD	0	0	1	0.07	0.98	65	1	0	0
116-CR-1213 -000	2.0	Wayne	DRY HOLLOW RD	1	0	0	0.92	0.13	66	1	0	0

Exhibit Wayne-9: List of Focus Roadways

Recommended Improvements (Top 5 Roads)

EDWARDS MOUNTAIN RD (116-CR-1209 -000)

Road Location Map and Crash History

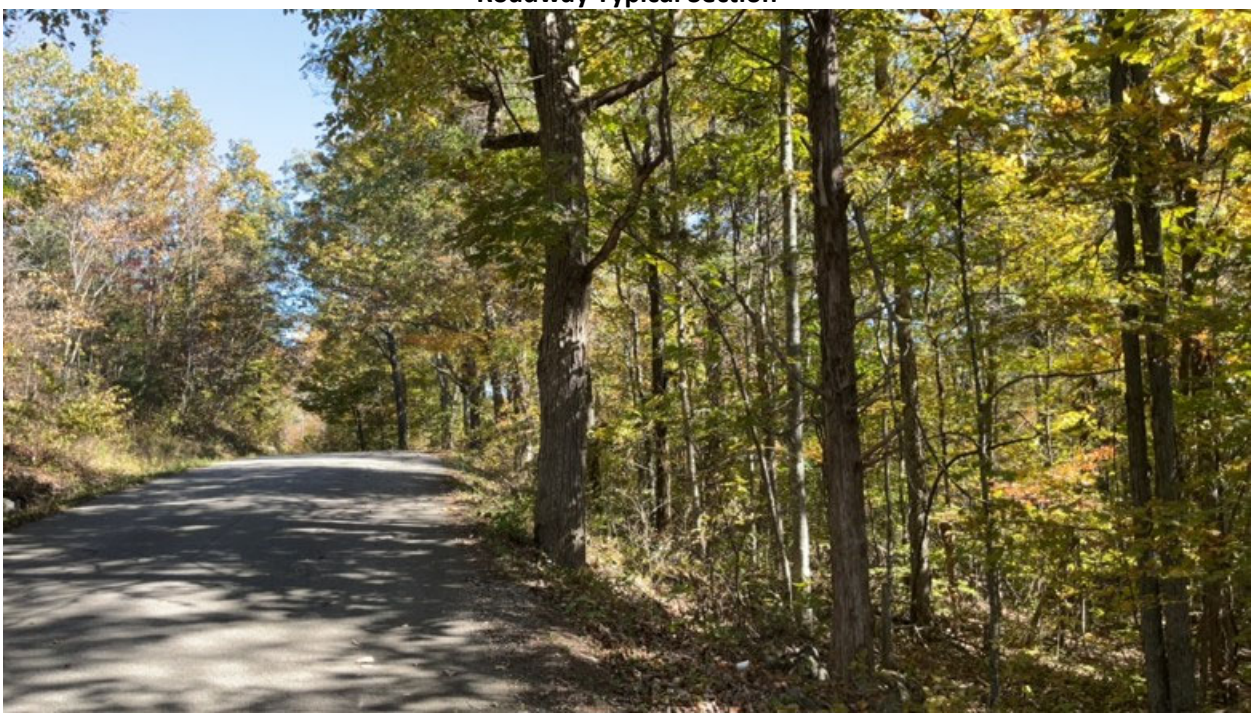


Manner of Collision	Property Damage Only	Injury	Fatal	Total
SS - Opp	0	2	0	**2**
Single Vehicle	0	2	0	**2**
Left Turn	0	0	0	**0**
SS - Same	0	0	0	**0**
Head On	0	0	0	**0**
Backing	0	0	0	**0**
Angle	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

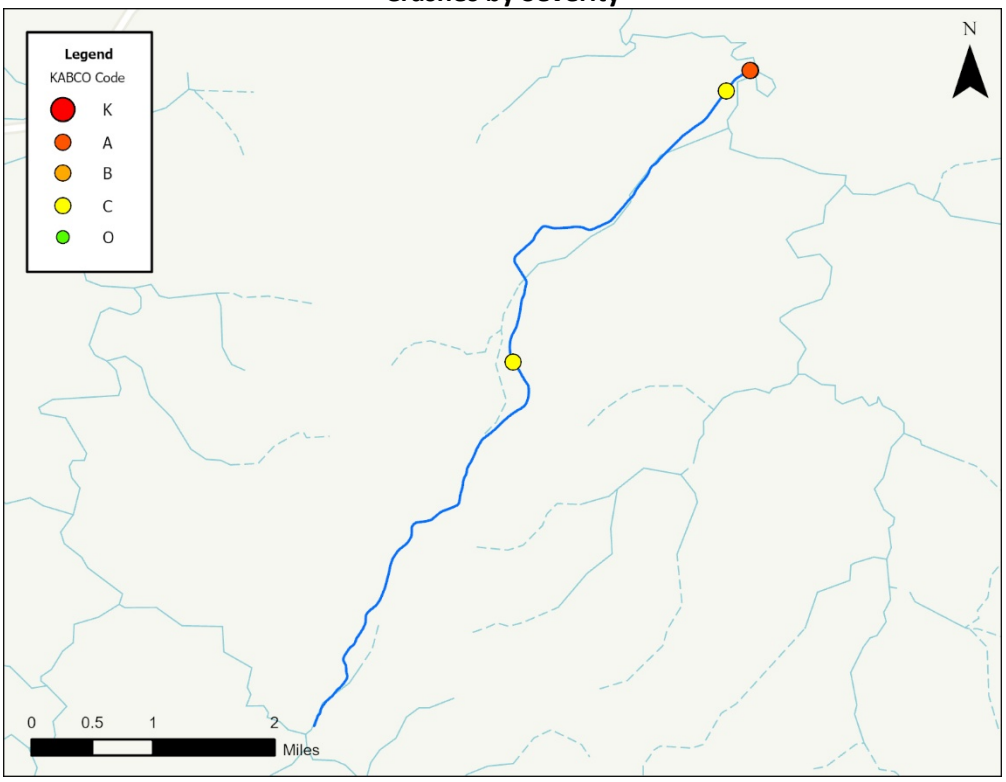
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
3756	116-CR-1209 -000	EDWARDS MOUNTAIN RD	10	2	3	20-40	✓	✓	✓

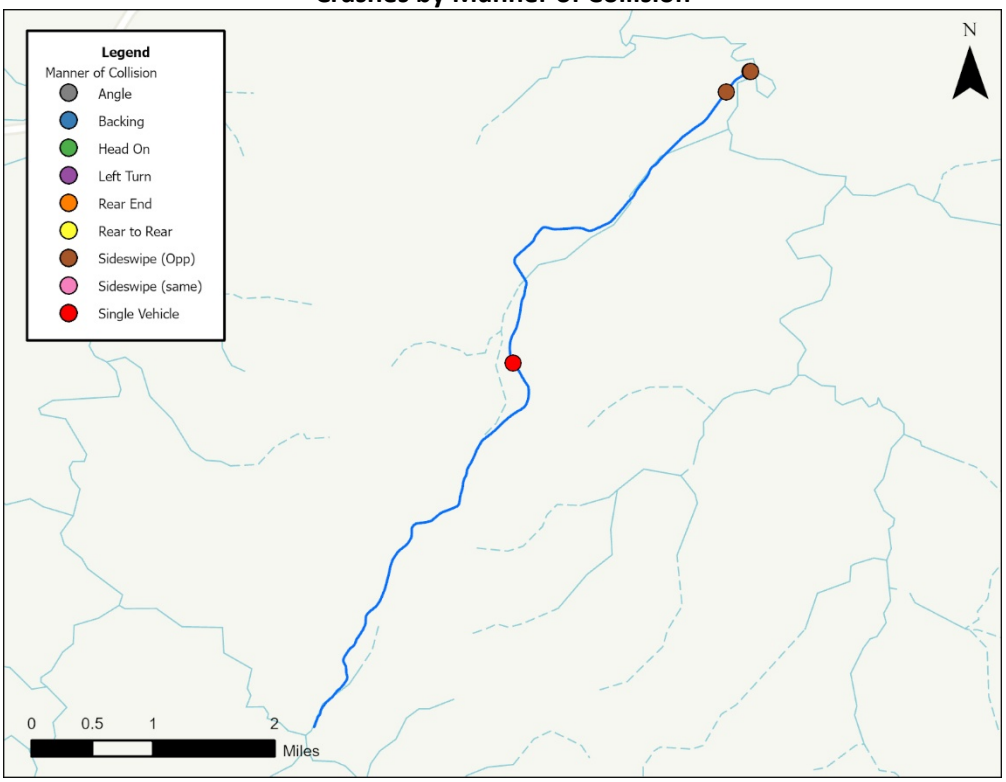
Roadway Typical Section



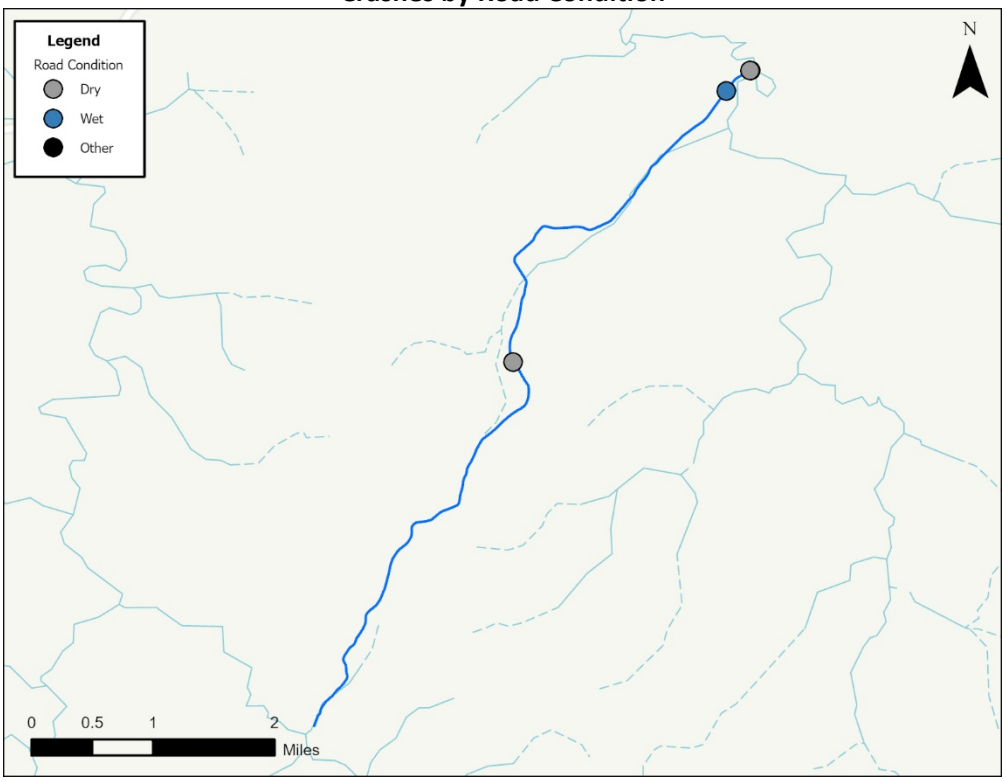
Crashes by Severity



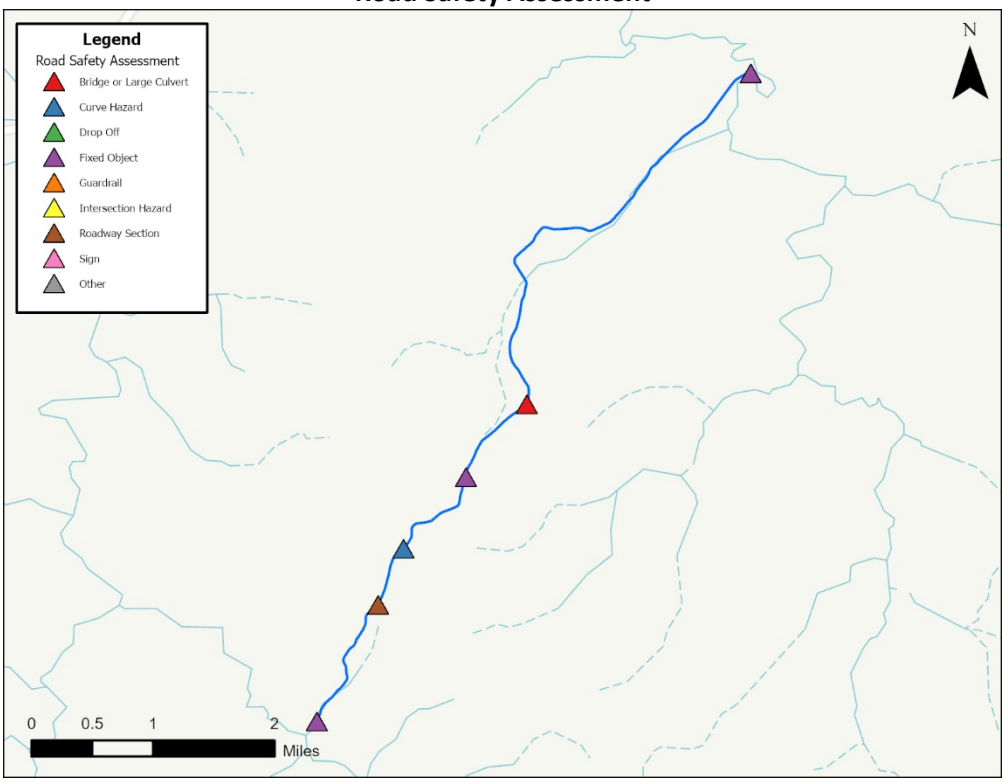
Crashes by Manner of Collision



Crashes by Road Condition



Road Safety Assessment



General Recommendations

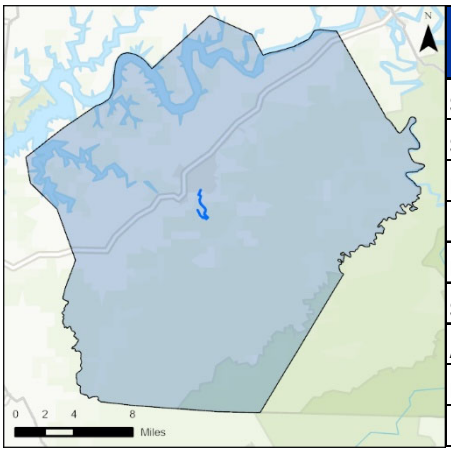
Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
3759	116-CR-1209 -000	EDWARDS MOUNTAIN RD		4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
3757	116-CR-1209 -000	EDWARDS MOUNTAIN RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation

Point ID	RT_UNIQUE	RD_NAME	Object	Single / Series	Offset	Recommendations	Other
3758	116-CR-1209 -000	EDWARDS MOUNTAIN RD	Other	Single	3-5	remove if feasible	Rock
3755	116-CR-1209 -000	EDWARDS MOUNTAIN RD	Tree	Single	1-3	Remove	
3760	116-CR-1209 -000	EDWARDS MOUNTAIN RD	Other	Single	0-1	Consider removing/relocating fence	Fence

MORRIS HILL RD (116-CR-1307 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	7	1	0	**8**
SS - Opp	1	1	0	**2**
Head On	1	0	0	**1**
Rear End	1	0	0	**1**
Backing	0	0	0	**0**
SS - Same	0	0	0	**0**
Angle	0	0	0	**0**
Left Turn	0	0	0	**0**
Rear to Rear	0	0	0	**0**

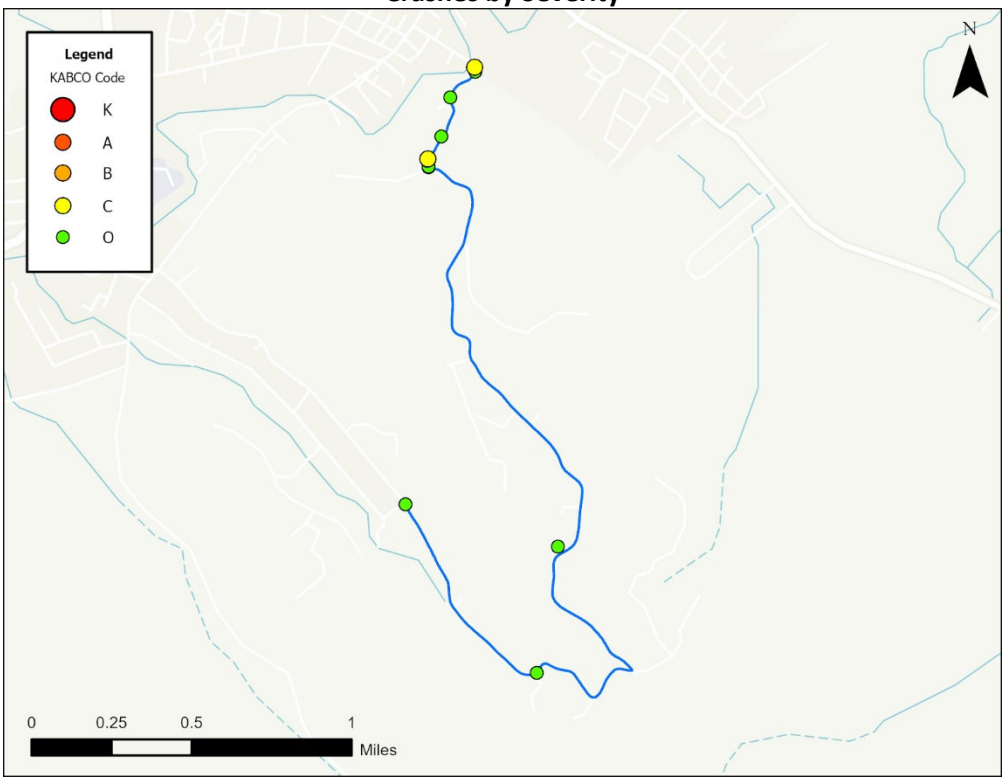
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
3766	116-CR-1307 -000	MORRIS HILL RD	10	4	4	0-20		✓	✓
3769	116-CR-1307 -000	MORRIS HILL RD	10	5	1	80-100	✓	✓	✓
4521	116-CR-1307 -000	MORRIS HILL RD	18	3	3	20-40	✓	✓	✓

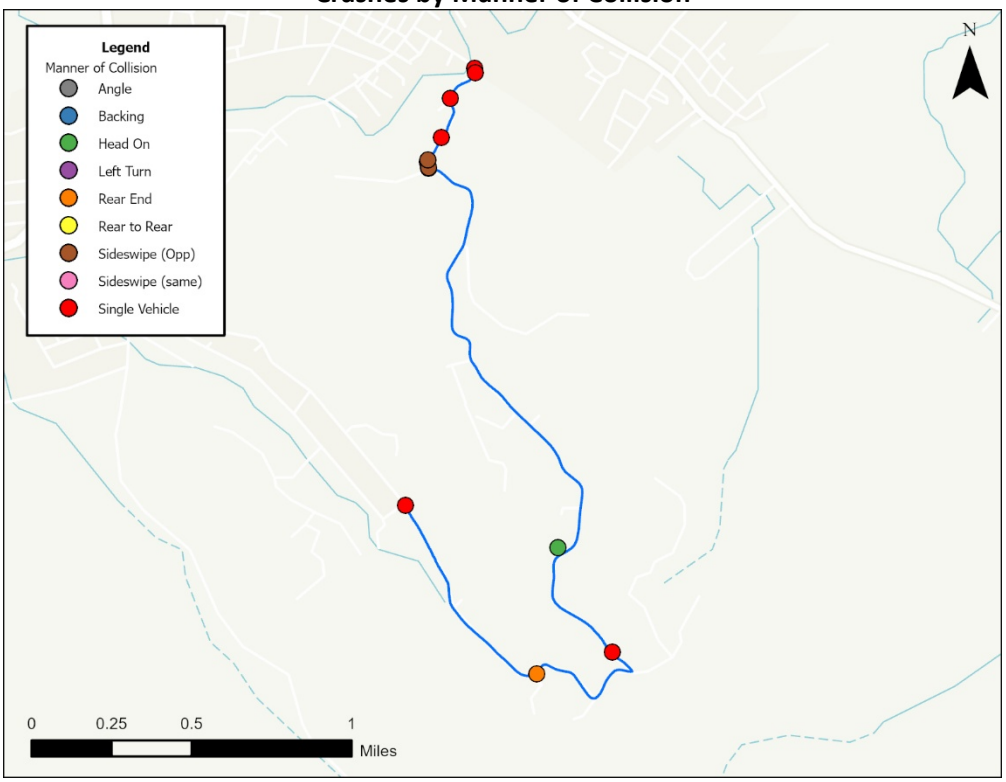
Roadway Typical Section



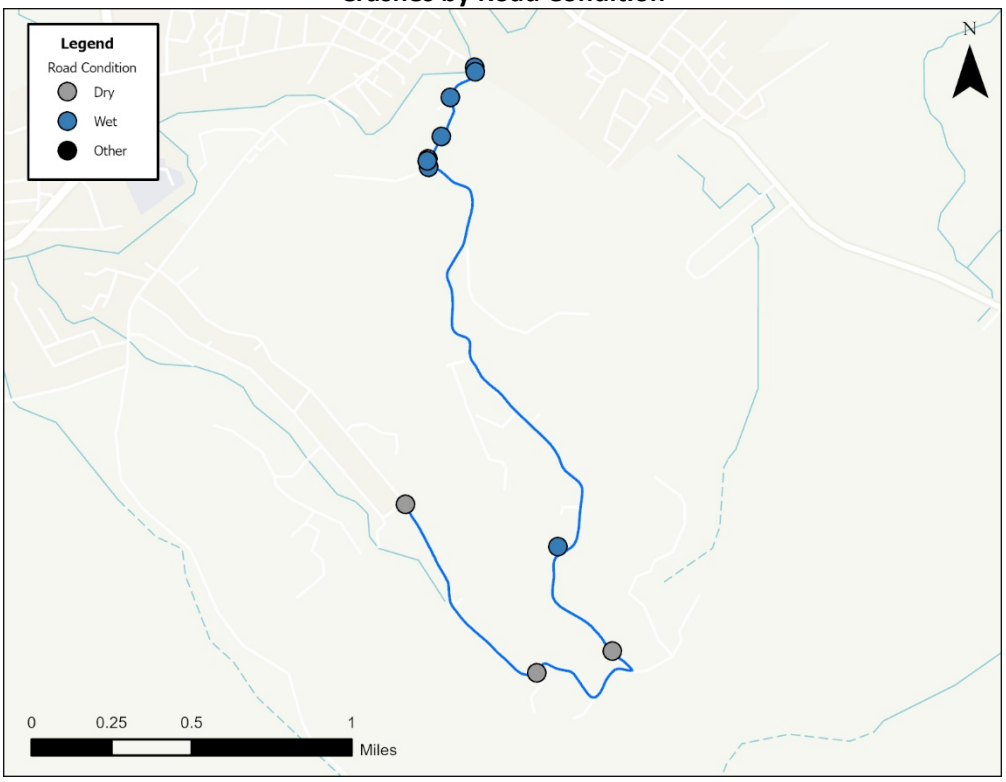
Crashes by Severity



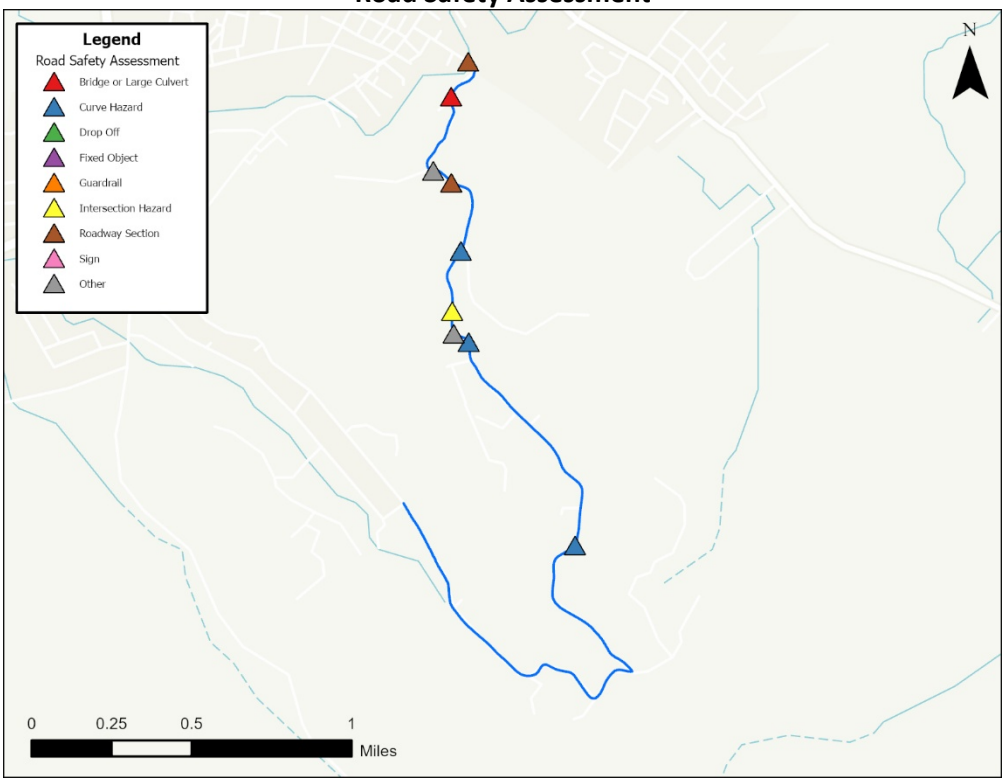
Crashes by Manner of Collision



Crashes by Road Condition



Road Safety Assessment



General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
3768	116-CR-1307 -000	MORRIS HILL RD	10	2	0	Evaluate the need for guardrail on missing approaches. Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.

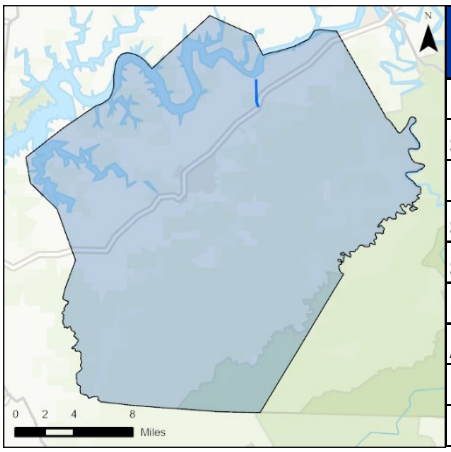
Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
3761	116-CR-1307 -000	MORRIS HILL RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
3762	116-CR-1307 -000	MORRIS HILL RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
3765	116-CR-1307 -000	MORRIS HILL RD	vegetation,Curve Obscured	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
3764	116-CR-1307 -000	MORRIS HILL RD	Intersection Obscured on Approa,Intersection Skew,Insufficient Sight Distance at	No	Evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X); Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection skew

Point ID	RT_UNIQUE	RD_NAME	Recommendations	Other
3763	116-CR-1307 -000	MORRIS HILL RD	Improve ditch and sideslope	Ditch
3767	116-CR-1307 -000	MORRIS HILL RD	Improve ditch and sideslope	Ditch

OLD MILLSPRINGS RD (116-CR-1066 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Head On	0	1	0	**1**
Single Vehicle	1	0	0	**1**
Left Turn	0	0	0	**0**
SS - Same	0	0	0	**0**
SS - Opp	0	0	0	**0**
Backing	0	0	0	**0**
Angle	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
3771	116-CR-1066 -000	OLD MILLSPRINGS RD	10	3	3	80-100	✓	✓	✓
3773	116-CR-1066 -000	OLD MILLSPRINGS RD	10	2	2	40-60	✓	✓	✓
4509	116-CR-1066 -000	OLD MILLSPRINGS RD	24	4	2	0-20			✓

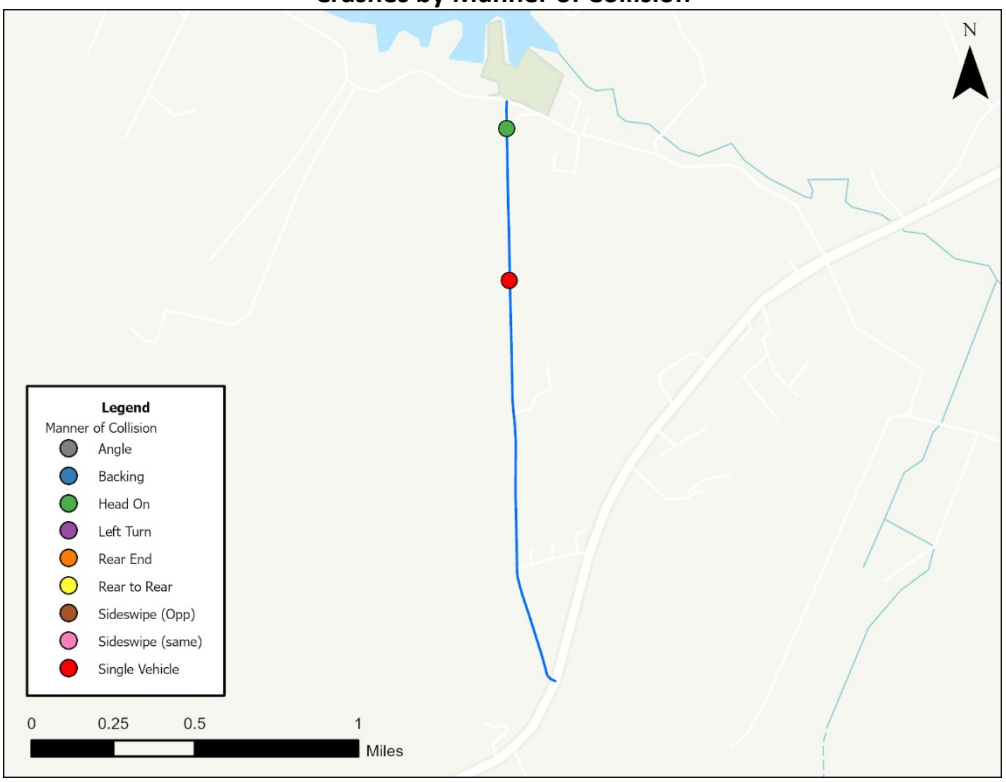
Roadway Typical Section



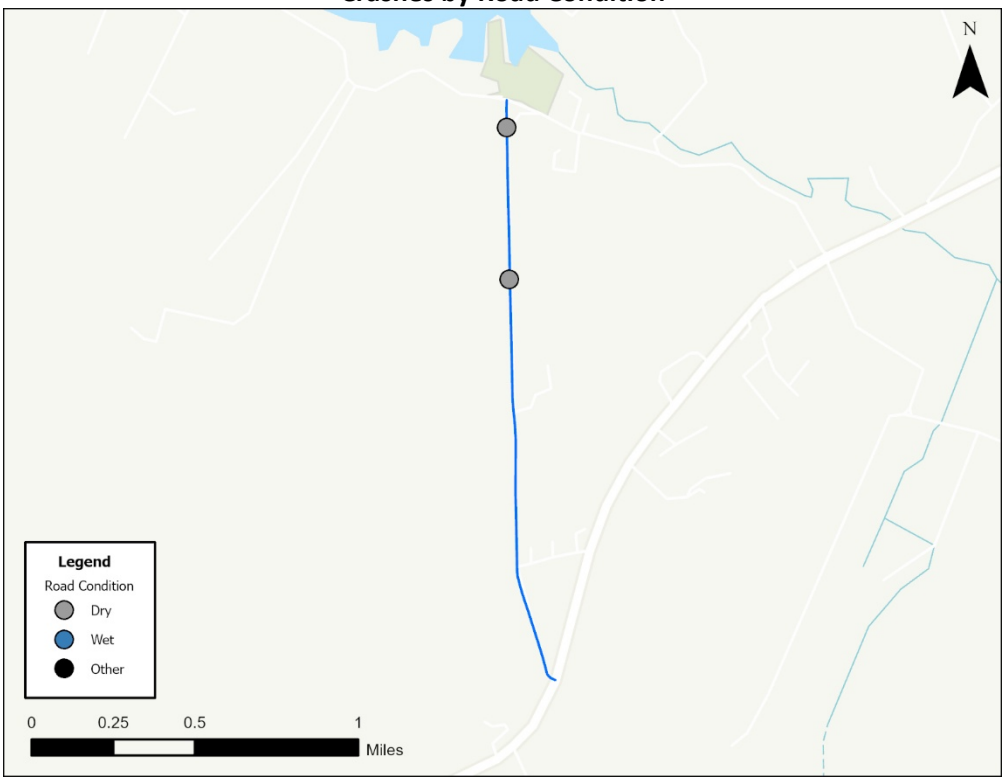
Crashes by Severity



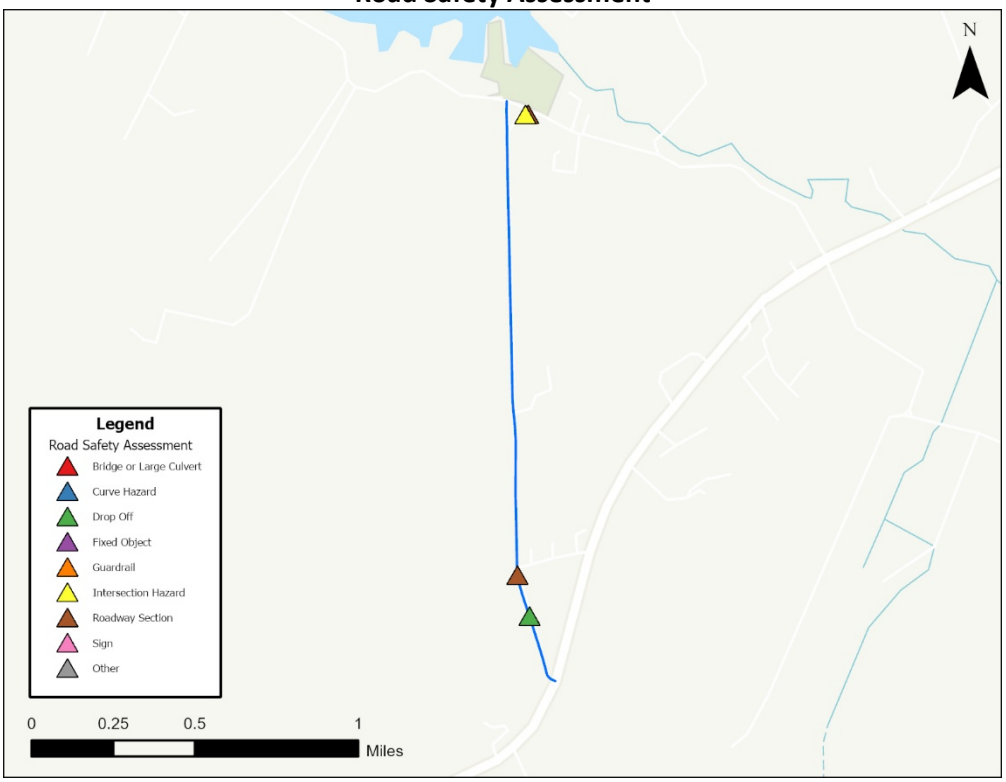
Crashes by Manner of Collision



Crashes by Road Condition



Road Safety Assessment



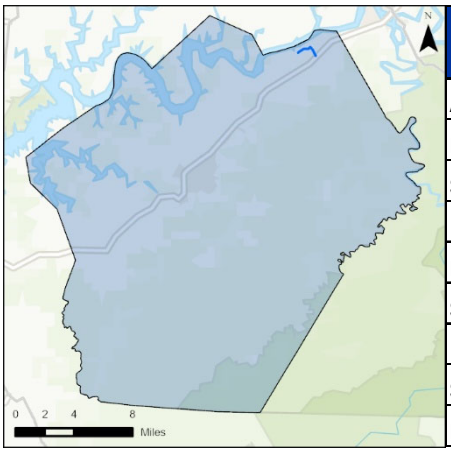
General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Drop Off Offset	Drop Off Height	Recommendations
3770	116-CR-1066 -000	OLD MILLSPRINGS RD	0-1	2-5	Install Type 2 Object Marker(s) or Delineator(s)

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
3772	116-CR-1066 -000	OLD MILLSPRINGS RD	Intersection Obscured on Approa,Insufficient Sight Distance at	No	Evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)

FRAZER CHAPEL RD (116-CR-1046 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Angle	1	0	0	**1**
Left Turn	0	1	0	**1**
Single Vehicle	1	0	0	**1**
Rear End	1	0	0	**1**
Backing	0	0	0	**0**
SS - Same	0	0	0	**0**
Rear to Rear	0	0	0	**0**
SS - Opp	0	0	0	**0**
Head On	0	0	0	**0**

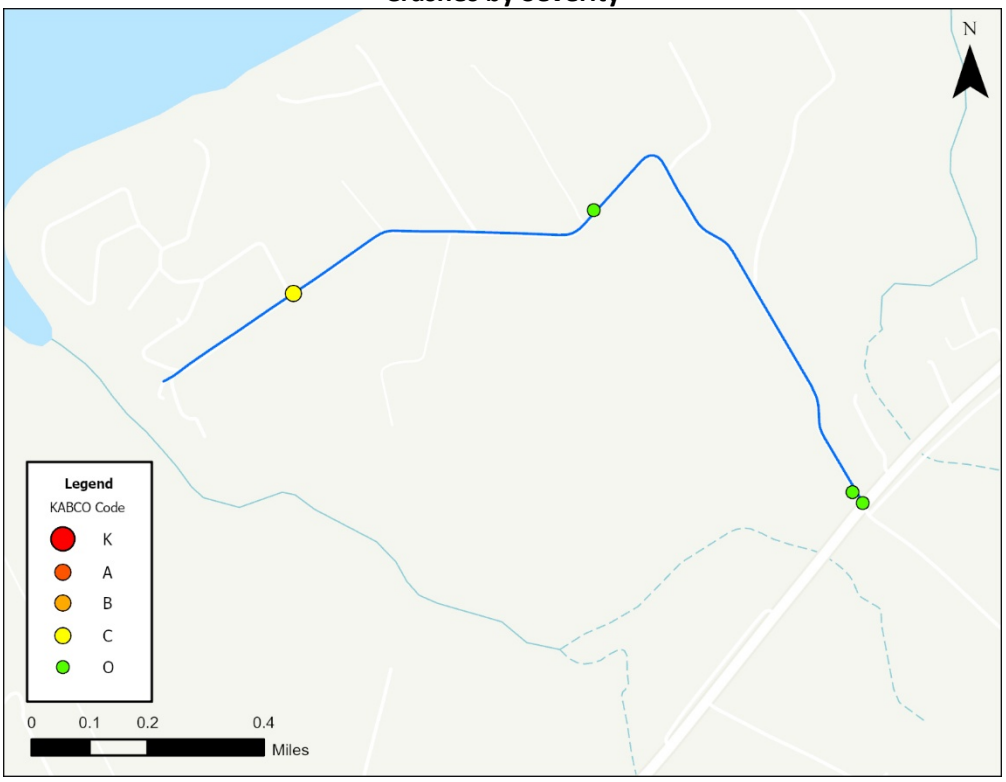
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
3782	116-CR-1046 -000	FRAZER CHAPEL RD	10	3	3	60-80	✓	✓	✓

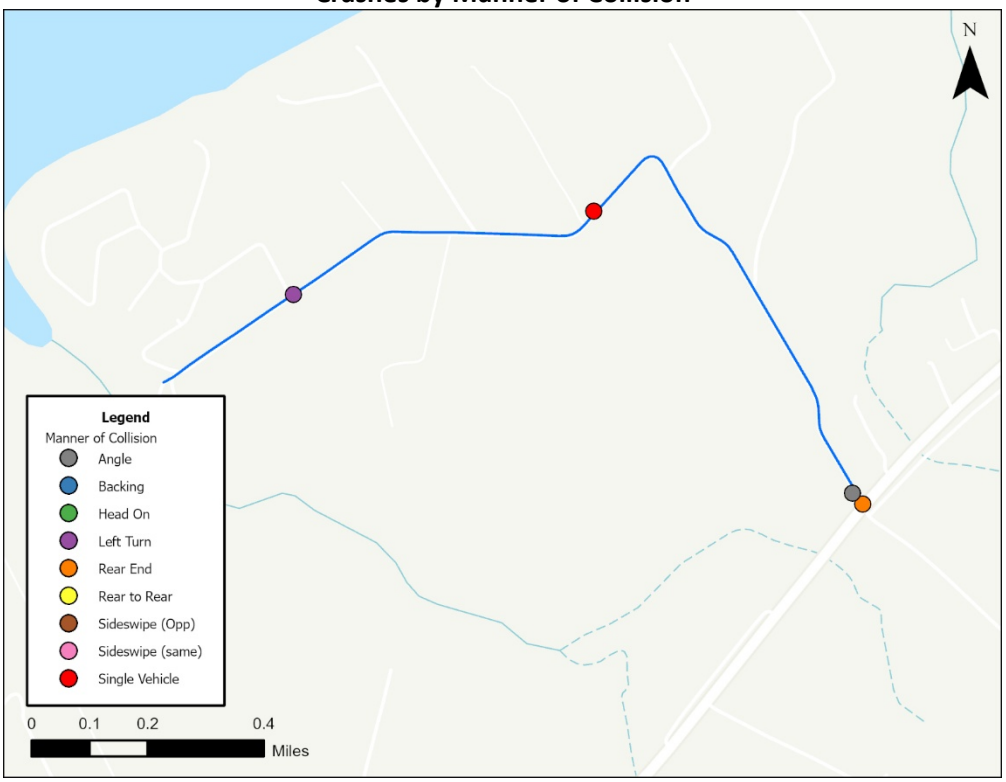
Roadway Typical Section



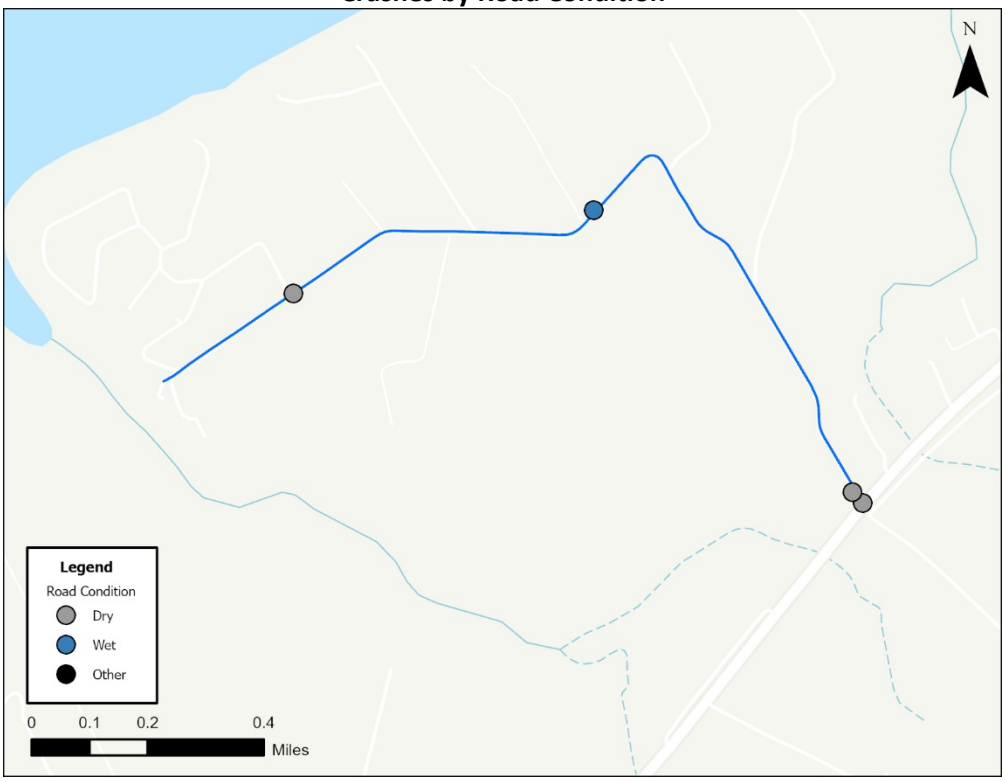
Crashes by Severity



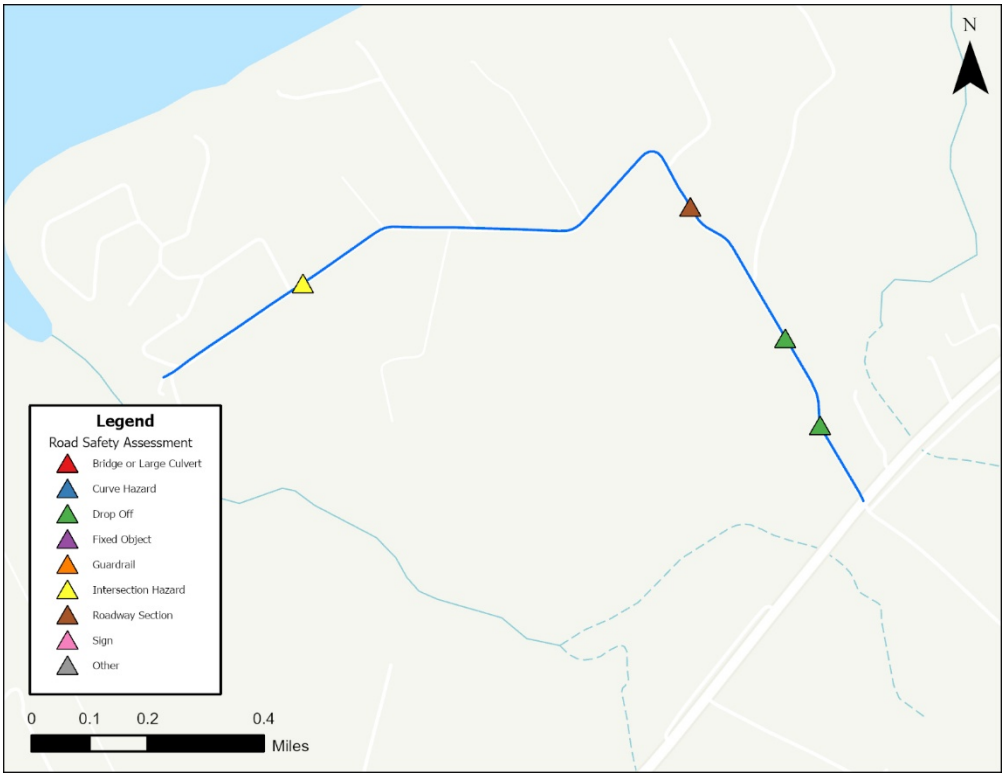
Crashes by Manner of Collision



Crashes by Road Condition



Road Safety Assessment



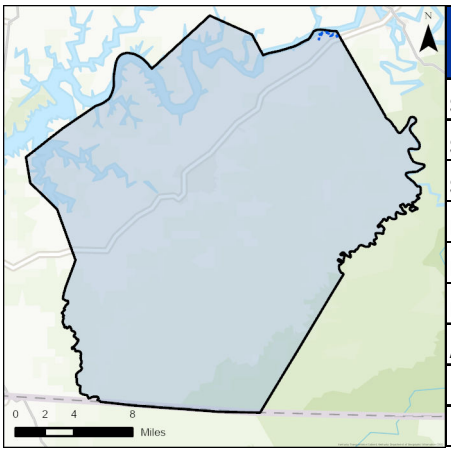
General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Drop Off Offset	Drop Off Height	Recommendations
3780	116-CR-1046 -000	FRAZER CHAPEL RD	0-1	<2	Install Type 2 Object Marker(s) or Delineator(s)
3781	116-CR-1046 -000	FRAZER CHAPEL RD	0-1	<2	Install Type 2 Object Marker(s) or Delineator(s)

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
3783	116-CR-1046 -000	FRAZER CHAPEL RD	Intersection Obscured on Approa,Insufficient Sight Distance at	Yes	Clear vegetation and evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-

GREEN HLS EST RD (116-CR-1096 -000)

Road Location Map and Crash History



Manner of Collision	Property Damage Only	Injury	Fatal	Total
Single Vehicle	0	1	0	**1**
SS - Same	0	0	0	**0**
SS - Opp	0	0	0	**0**
Left Turn	0	0	0	**0**
Head On	0	0	0	**0**
Backing	0	0	0	**0**
Angle	0	0	0	**0**
Rear to Rear	0	0	0	**0**
Rear End	0	0	0	**0**

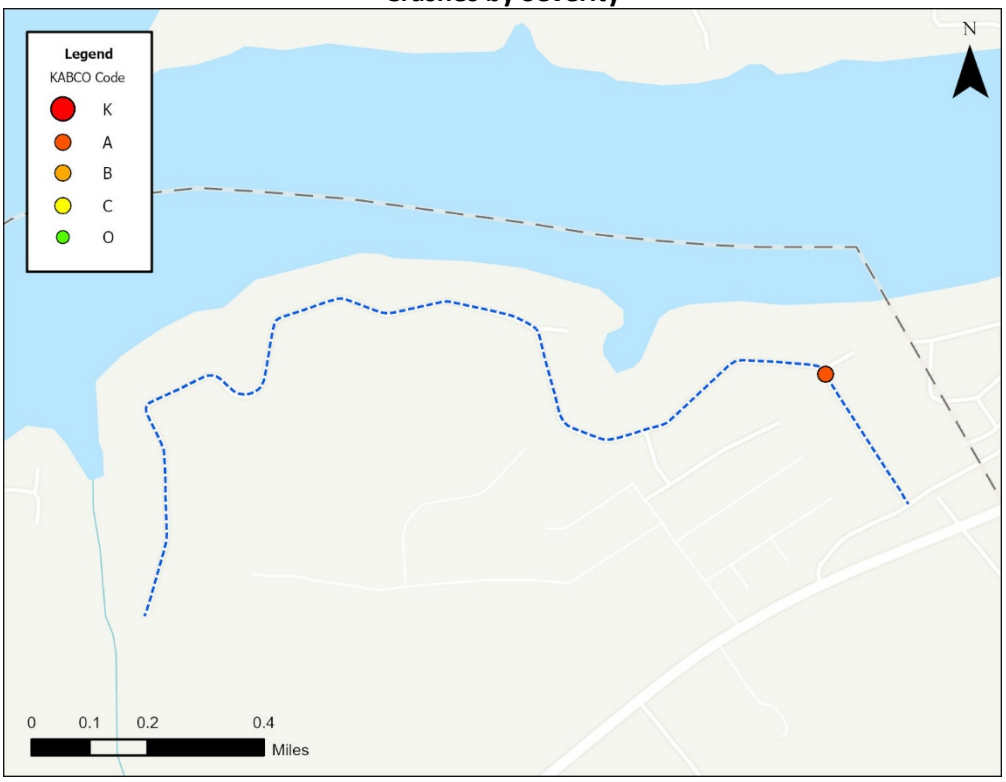
General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4512	116-CR-1096 -000	GREEN HLS EST RD	17	4	3	20-40	✓	✓	✓

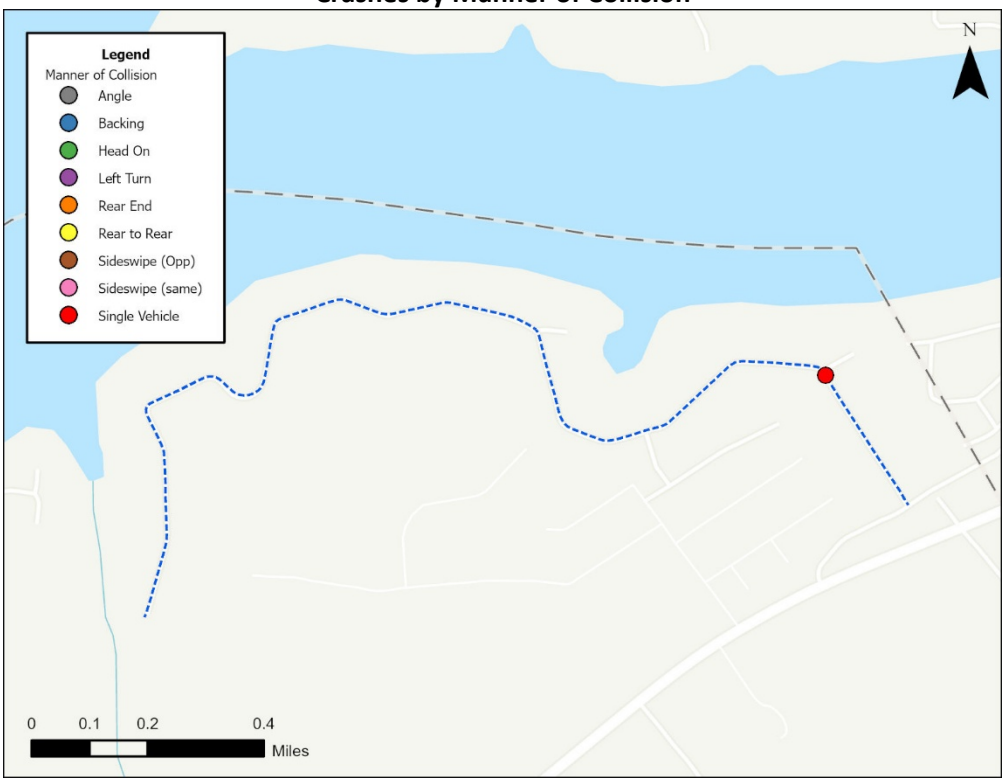
Roadway Typical Section



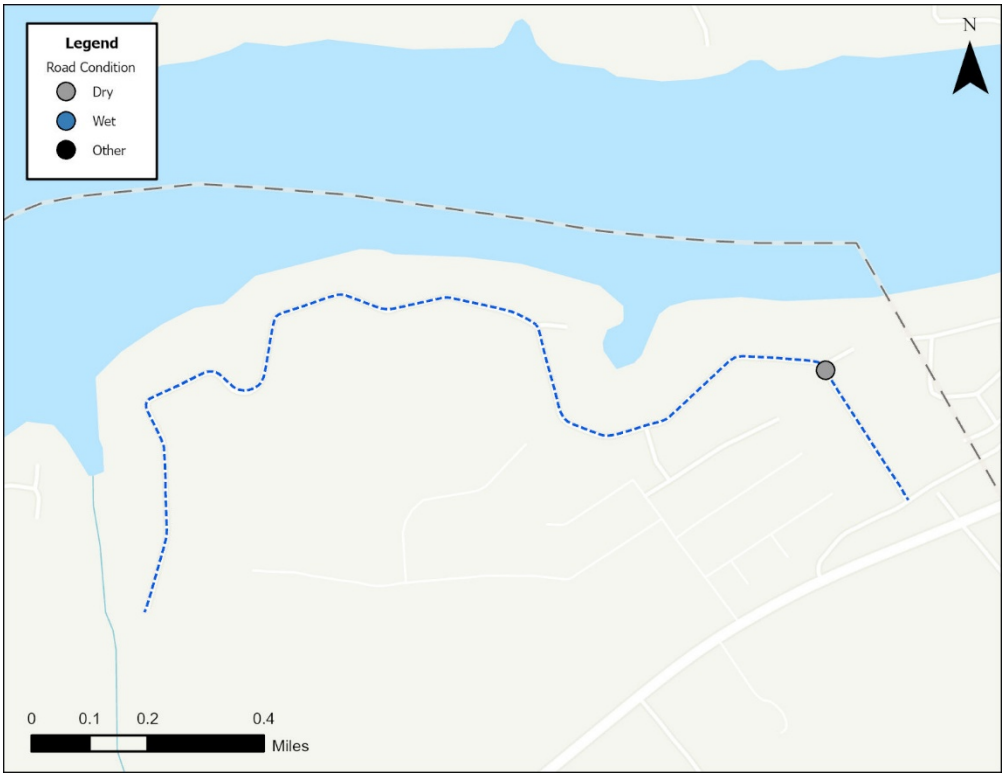
Crashes by Severity



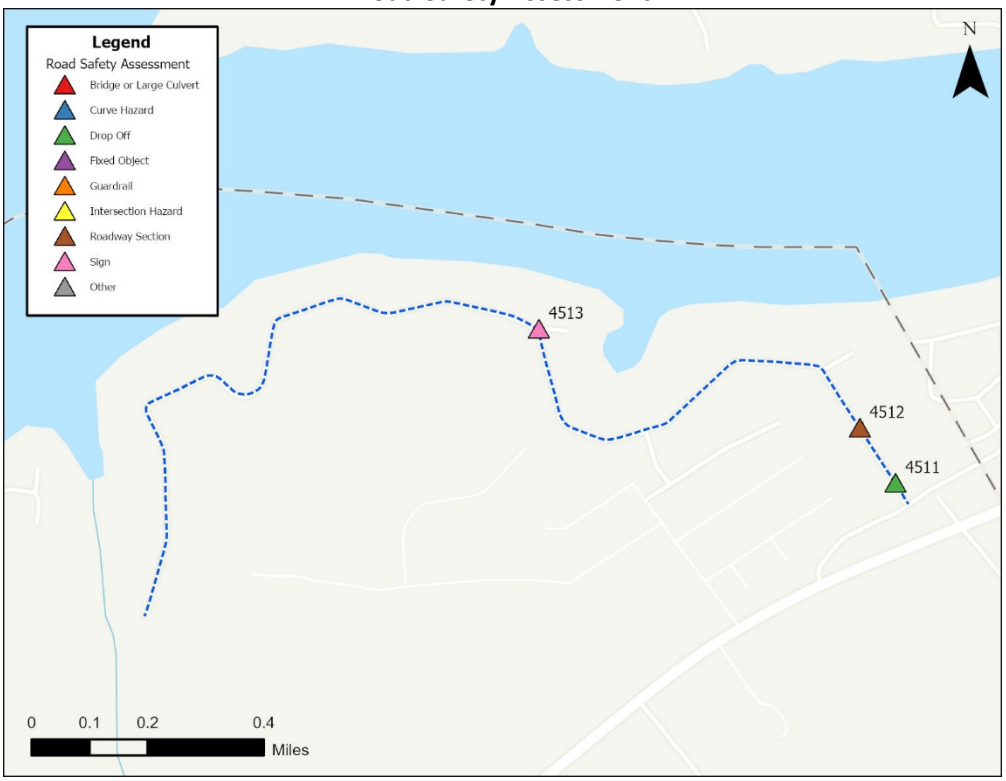
Crashes by Manner of Collision



Road Condition



Road Safety Assessment



General Recommendations

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4512	116-CR-1096 -000	GREEN HLS EST RD	17	4	3	20-40	✓	✓	✓

Point ID	RT_UNIQUE	RD_NAME	Drop Off Offset	Drop Off Height	Recommendations
4511	116-CR-1096 -000	GREEN HLS EST RD	0-1	<2	

Other Roadways

General Roadway Conditions and Recommendations (Wayne County)

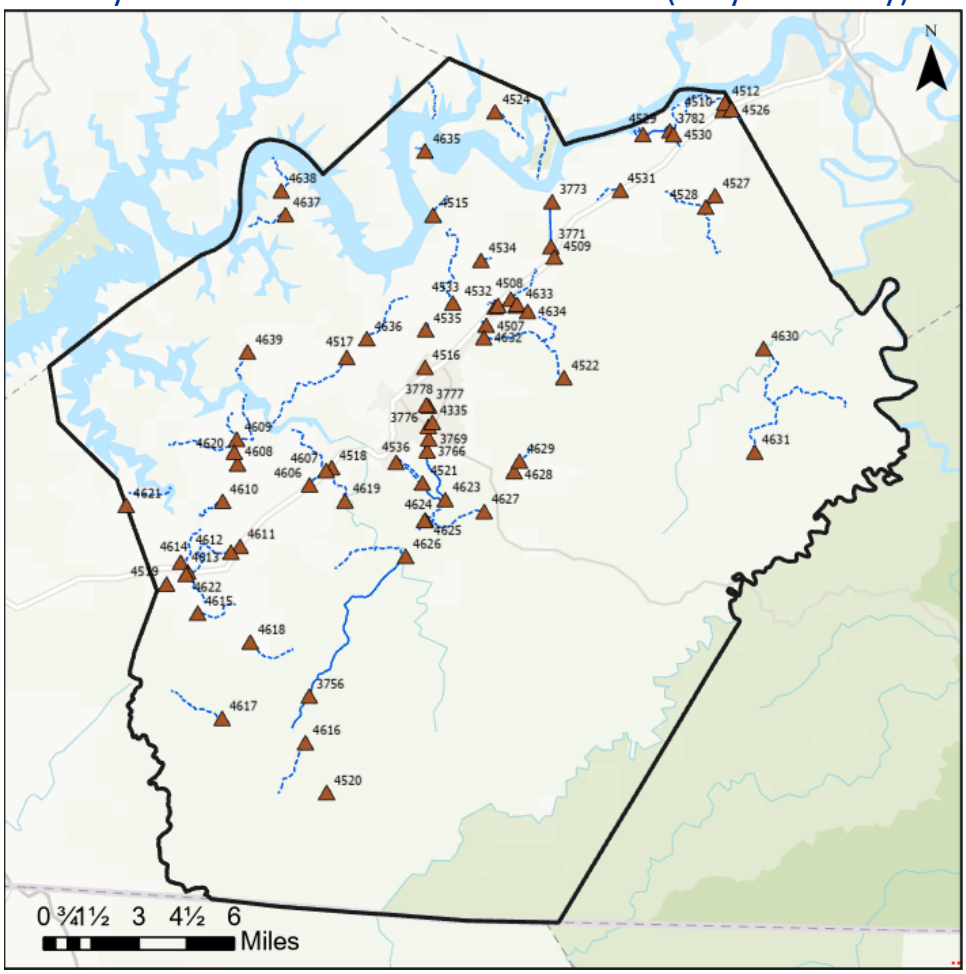


Exhibit Wayne-10: General Roadway Conditions

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4516	116-CR-1642 -000	AIRPORT ROAD ACCESS	12	4	2	0-20		✓	✓
4637	116-CR-1358 -000	ARTHUR RD	19	4	2	0-20		✓	✓
4620	116-CR-1385 -000	BELL-PHIPPS RD	18	4	2	0-20		✓	✓
4615	116-CR-1241 -000	BERTRAM - GUFFEY RD	16	4	1	0-20		✓	✓
4631	116-CR-1023 -000	BRAMMER HL RDG RD	23	3	1	20-40	✓		✓
4532	116-CR-1526A -000	BRANDON DR	13	4	1	0-20		✓	✓
4621	116-CR-1252 -000	CARTER DOCK RD	17	4	2	20-40	✓	✓	✓
4531	116-CR-1052 -000	CAVE LAKE RD	20	4	1	0-20			✓
4529	116-CR-1522C -000	CEDAR BLUFF CIR RD	16	4	2	0-20		✓	✓
4626	116-CR-1204 -000	COOPER HOLW RD	19	4	2	0-20		✓	✓
4624	116-CR-1148 -000	COOPER VIEW RD	17	4	2	0-20		✓	✓
3776	116 CS-1098	COURT ST	10	4	1	0-20		✓	✓
4630	116-CR-1030 -000	DELTA RD	21	4	1	0-20			✓
4617	116-CR-1225 -000	DENNEY HOLLOW RD	15	3	4	0-20		✓	✓
4534	116-CR-1540 -000	DOGWOOD TRL	19	4	1	0-20		✓	✓
4616	116-CR-1213 -000	DRY HOLLOW RD	16	4	1	0-20		✓	✓
4639	116-CR-1396 -000	DUG RD	19	4	2	0-20		✓	✓
3756	116-CR-1209 -000	EDWARDS MOUNTAIN RD	10	2	3	20-40	✓	✓	✓
4627	116-CR-1102 -000	FOSTER MOUNTAIN RD	17	4	1	0-20		✓	✓
4518	116-CR-1382 -000	FOXWOOD DR	18	4	1	0-20		✓	✓
3782	116-CR-1046 -000	FRAZER CHAPEL RD	10	3	3	60-80	✓	✓	✓
4619	116-CR-1201 -000	FURNACE MOUNTAIN RD	21	4	2	0-20			✓
4512	116-CR-1096 -000	GREEN HLS EST RD	17	4	3	20-40	✓	✓	✓
4606	116-CR-1423 -000	GREENBRIAR LOOP	24	4	2	0-20			✓
4607	116-CR-1389 -000	GREENBRIAR RD	18	4	2	0-20		✓	✓
4526	116-CR-1095 -000	HALL RD	11	3	2	0-20		✓	✓
4524	116-CR-1062 -000	HAMILTON RD	14	4	2	20-40	✓	✓	✓
4618	116-CR-1231 -000	HARMON HOLW RD	19	3	4	0-20		✓	✓
4523	116-CR-1525C -000	HEARTLAND SUBDIVISION RD	20	5	1	0-20			✓
4633	116-CR-1525C -000	HEARTLAND SUBDIVISION RD	22	4	1	0-20			✓
3777	116 CS-1211	HOMESTEAD LN	10	3	2	0-20		✓	✓
3778	116 CS-1211	HOMESTEAD LN	10	3	2	0-20		✓	✓
4535	116-CR-1472 -000	JOY DR	19	4	2	0-20		✓	✓
4609	116-CR-1384 -000	JR. PHIPPS RD	15	3	2	0-20		✓	✓

Exhibit Wayne-11: General Roadway Recommendations (1/2)

Point ID	RT_UNIQUE	RD_NAME	Pvmt Width (ft)	Pavement Condition	Roadside Hazard Rating	Shoulder Improve (%)	Improve Shoulder	Edgeline	Curve Signing
4632	116-CR-1012 -000	KELLEY LN	21	4	2	0-20			✓
4522	116-CR-1004 -000	KELLY LN-SPAN HL RD	12	4	2	0-20		✓	✓
4519	116-KY-1009 -000	KY-1009	12	4	2	0-20		✓	✓
4530	116-CR-1047 -000	LOG HAVEN RD	16	3	2	0-20		✓	✓
4536	116-CR-1417A -000	MISSOURI VALLEY RD	17	4	2	0-20		✓	✓
3766	116-CR-1307 -000	MORRIS HILL RD	10	4	4	0-20		✓	✓
3769	116-CR-1307 -000	MORRIS HILL RD	10	5	1	80-100	✓	✓	✓
4521	116-CR-1307 -000	MORRIS HILL RD	18	3	3	20-40	✓	✓	✓
4608	116-CR-1380 -000	MURL RD	22	4	2	0-20			✓
4515	116-CR-1330 -000	NEW FALL CRK RD	20	3	3	0-20			✓
4635	116-CR-1332E -000	OATTS RD	20	4	2	0-20			✓
4614	116-CR-1248 -000	OLD BETHEL CHURCH RD	22	4	1	0-20			✓
4533	116-CR-1328 -000	OLD FALL CRK RD	21	4	2	0-20			✓
4610	116-CR-1254 -000	OLD FIRE TRL	14	3	2	0-20		✓	✓
4508	116-CR-1074 -000	OLD HWY 90	20	4	2	0-20			✓
4510	116-CR-1044 -000	OLD KY 90 LOOP	20	4	2	0-20			✓
3771	116-CR-1066 -000	OLD MILLSPRINGS RD	10	3	3	80-100	✓	✓	✓
3773	116-CR-1066 -000	OLD MILLSPRINGS RD	10	2	2	40-60	✓	✓	✓
4509	116-CR-1066 -000	OLD MILLSPRINGS RD	24	4	2	0-20			✓
4611	116-CR-1235 -000	OLD SUSIE RD	22	4	2	0-20			✓
4612	116-CR-1272 -000	OLD ZULA RD	22	4	2	0-20			✓
4613	116-CR-1272 -070	OLD ZULA RD CONN	22	4	1	0-20			✓
4629	116-CR-1529A -000	PINE RD	15	4	2	0-20		✓	✓
4634	116-CR-1525F -000	PLEASANT VIEW RD	14	4	1	0-20		✓	✓
4623	116-CR-1100 -000	POND RD	14	3	3	20-40	✓	✓	✓
4520	116-CR-1703 -000	PYLES CEMETERY RD	10	3	2	20-40	✓	✓	✓
4638	116-CR-1356 -000	RAMSEY PT RD	20	4	2	0-20			✓
4622	116-CR-1242 -000	RECTOR RD	15	4	2	20-40	✓	✓	✓
4636	116-CR-1324 -000	SALLY BURNETT RD	18	4	2	20-40	✓	✓	✓
4628	116-CR-1530 -000	SHAW VALLEY RD	18	4	2	0-20		✓	✓
4527	116-CR-1039 -000	STRAWBERRY RD	14	5	1	0-20		✓	✓
4528	116-CR-1039 -000	STRAWBERRY RD	13	2	4	20-40	✓	✓	✓
4514	116-CR-1526H -000	SUNSTAR BLVD	16	4	2	0-20		✓	✓
4507	116-CR-1541 -000	THE KINGS HWY	19	4	2	0-20		✓	✓
4517	116-CR-1317 -000	TWYFORD PT RD	15	4	2	0-20		✓	✓
4625	116-CR-1207 -000	WRAY HILL LN	11	4	2	20-40	✓	✓	✓

Exhibit Wayne-13: General Roadway Recommendations (2/2)

Bridge / Culvert Recommendations (Wayne County)

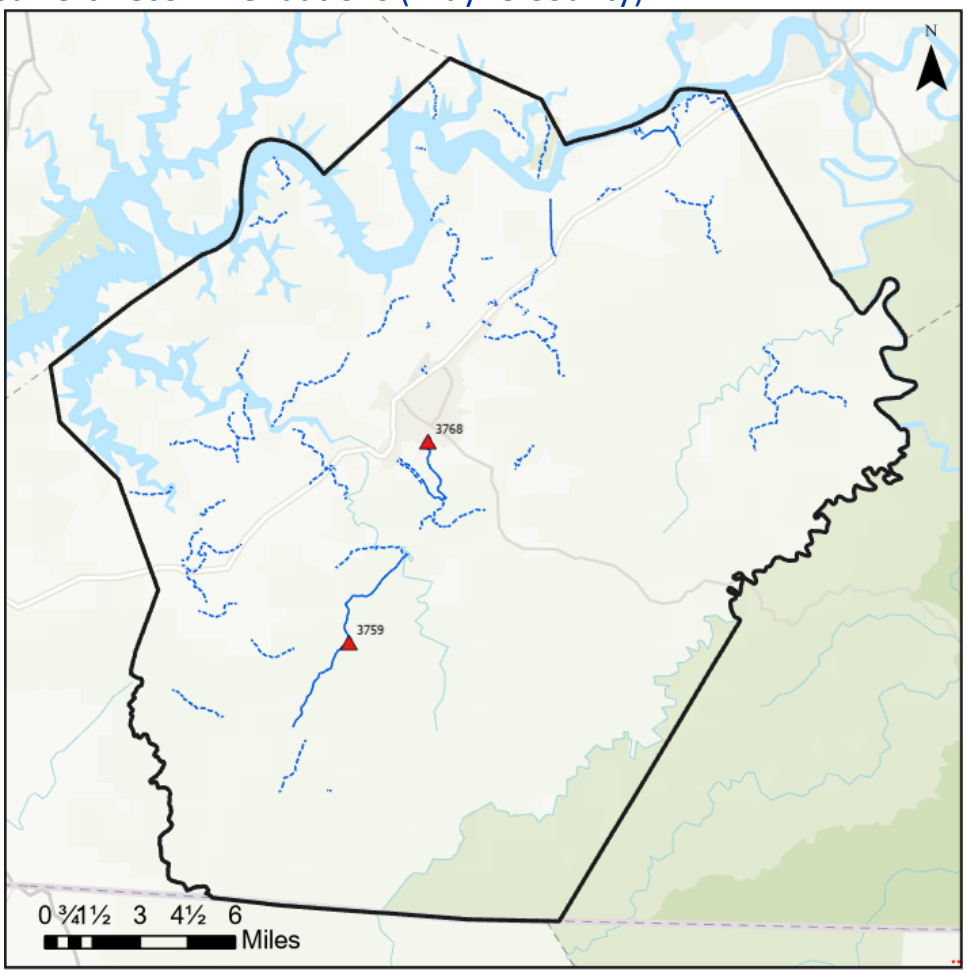


Exhibit Wayne-12: Bridge Locations

Point ID	RT_UNIQUE	RD_NAME	Bridge Width	Guardrail Present	OM Present	Recommendations
3759	116-CR-1209 -000	EDWARDS MOUNTAIN RD		4	0	Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.
3768	116-CR-1307 -000	MORRIS HILL RD	10	2	0	Evaluate the need for guardrail on missing approaches. Type 3 Object Markers may be installed or serve as a temporary measure. Install Type 3 Object Markers where missing. Install "One Lane Bridge" (W5-1) Sign.

Exhibit Wayne-13: Roadside Drop Off Recommendations

Curve Recommendations (Wayne County)

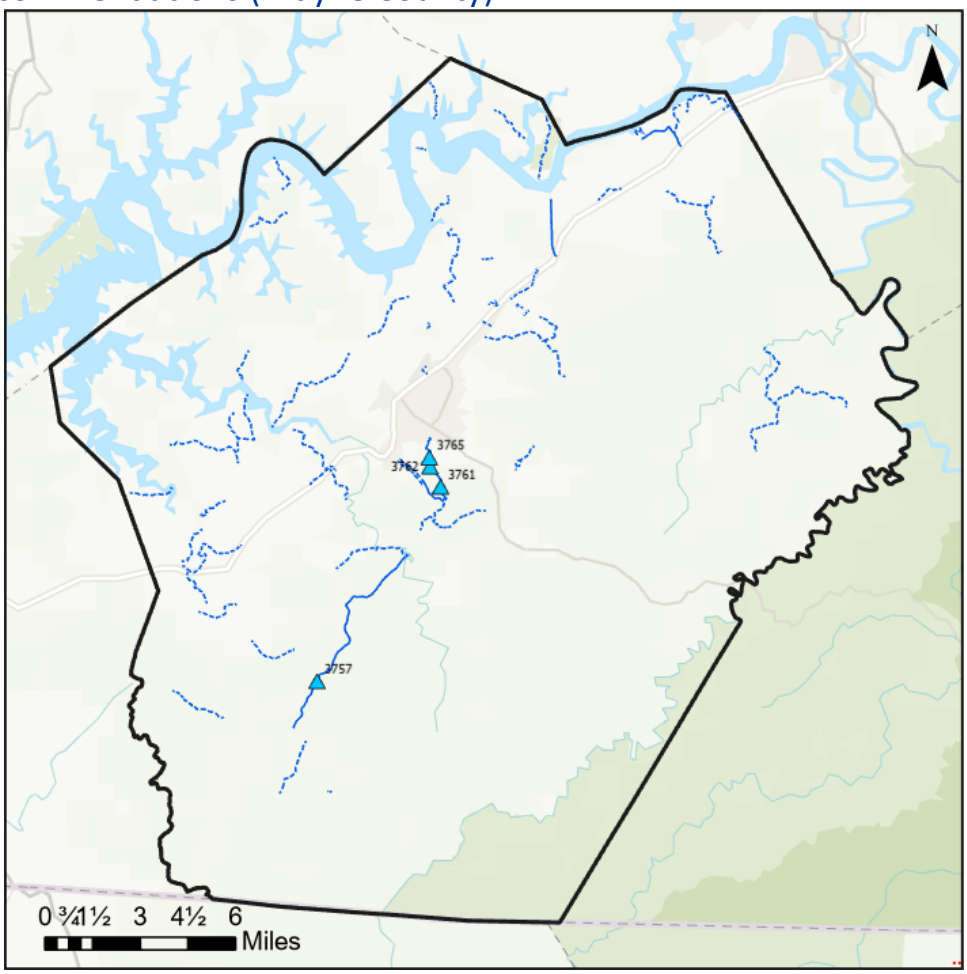


Exhibit Wayne-14: Curve Locations

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
3757	116-CR-1209 -000	EDWARDS MOUNTAIN RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
3761	116-CR-1307 -000	MORRIS HILL RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
3762	116-CR-1307 -000	MORRIS HILL RD	vegetation	Yes	Install advance curve signing and chevrons; Clear vegetation
3765	116-CR-1307 -000	MORRIS HILL RD	vegetation,Curve Obscured	Yes	Install advance curve signing and chevrons; Evaluate Other obstructions; Clear vegetation

Exhibit Wayne-15: Roadside Drop Off Recommendations

Roadside Drop Off Recommendations (Wayne County)

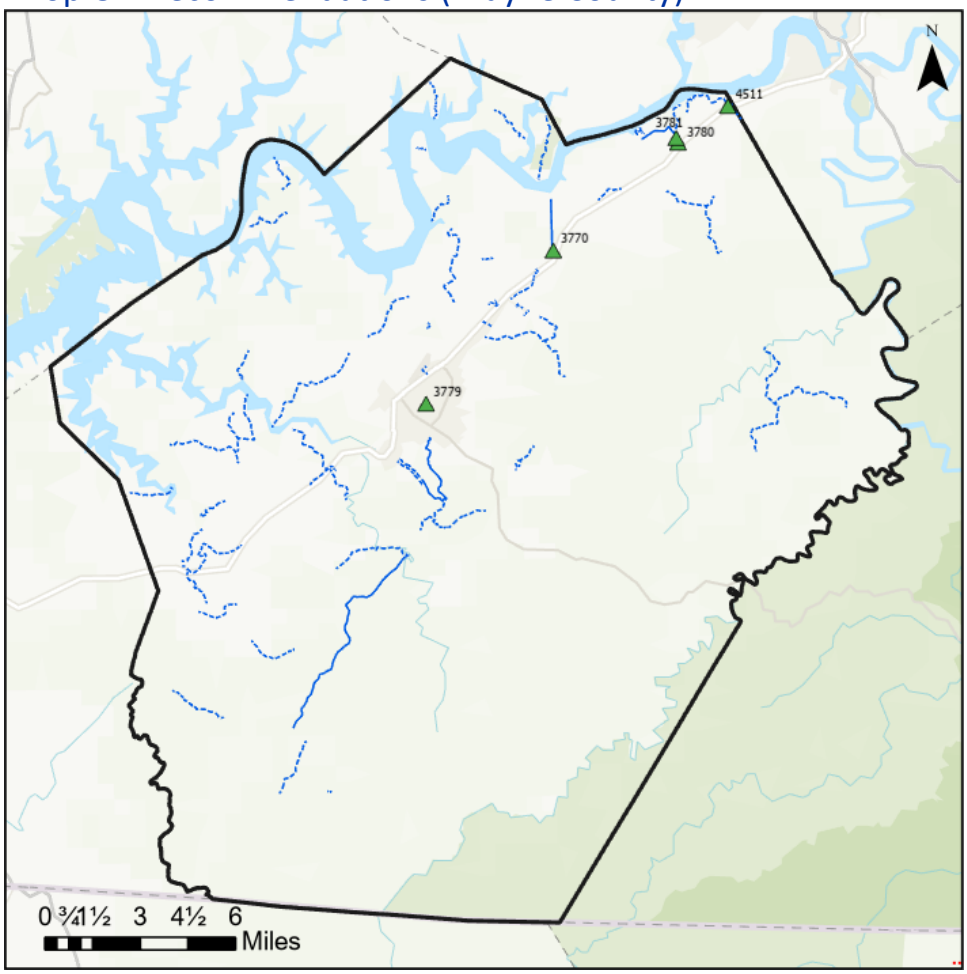


Exhibit Wayne-16: Roadside Drop Off Locations

Point ID	RT_UNIQUE	RD_NAME	Drop Off Offset	Drop Off Height	Recommendations
3770	116-CR-1066 -000	OLD MILLSPRINGS RD	0-1	2-5	Install Type 2 Object Marker(s) or Delineator(s)
3779	116 CS-1211	HOMESTEAD LN	0-1	<2	Install Type 2 Object Marker(s) or Delineator(s)
3780	116-CR-1046 -000	FRAZER CHAPEL RD	0-1	<2	Install Type 2 Object Marker(s) or Delineator(s)
3781	116-CR-1046 -000	FRAZER CHAPEL RD	0-1	<2	Install Type 2 Object Marker(s) or Delineator(s)
4511	116-CR-1096 -000	GREEN HLS EST RD	0-1	<2	Install Type 2 Object Marker(s) or Delineator(s)

Exhibit Wayne-17: Roadside Drop Off Recommendations

Fixed Object Recommendations (Wayne County)

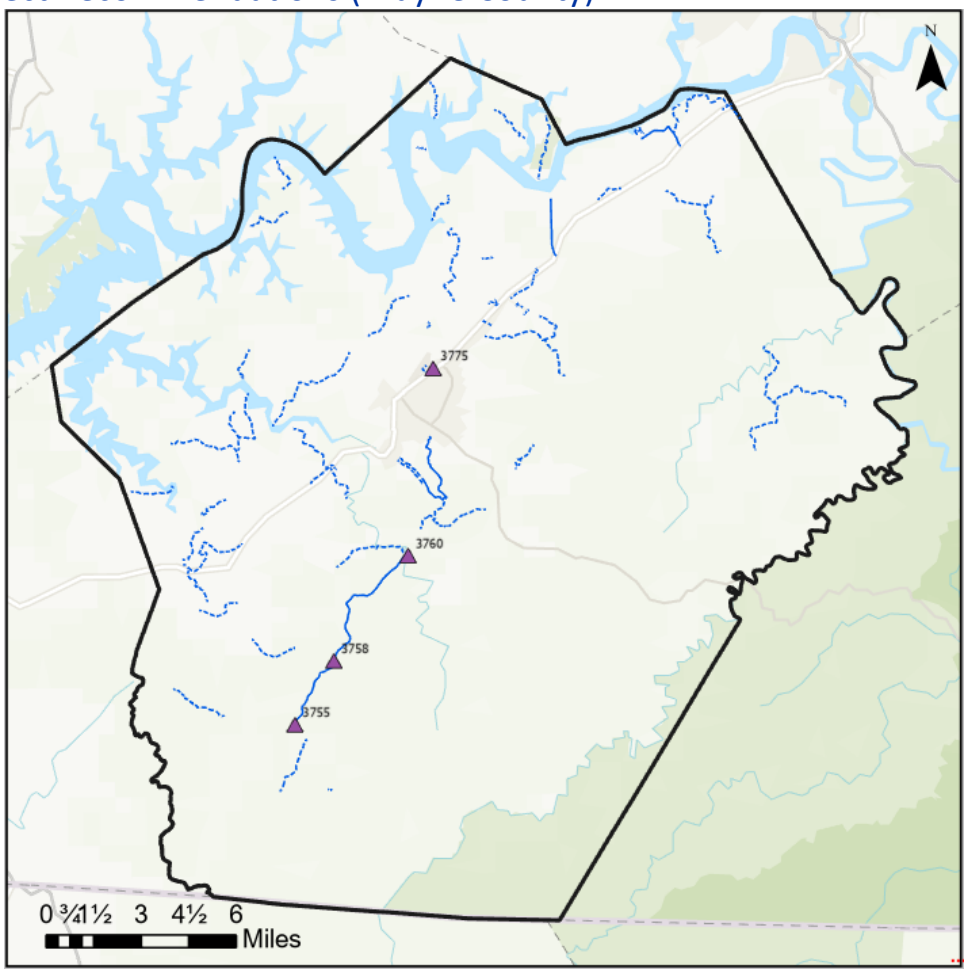


Exhibit Wayne-18: Fixed Object Locations

Point ID	RT_UNIQUE	RD_NAME	Object	Single / Series	Offset	Recommendations	Other
3775	116-CR-1642 -000	AIRPORT ROAD ACCESS	Utility Pole	Single	1-3	Install Type 2 Object Marker(s)	
3758	116-CR-1209 -000	EDWARDS MOUNTAIN RD	Other	Single	3-5	Remove if feasible	Rock
3755	116-CR-1209 -000	EDWARDS MOUNTAIN RD	Tree	Single	1-3	Remove	
3760	116-CR-1209 -000	EDWARDS MOUNTAIN RD	Other	Single	0-1	Consider removing/relocating fence	Fence

Exhibit Wayne-19: Fixed Object Recommendations

Intersection Recommendations (Wayne County)

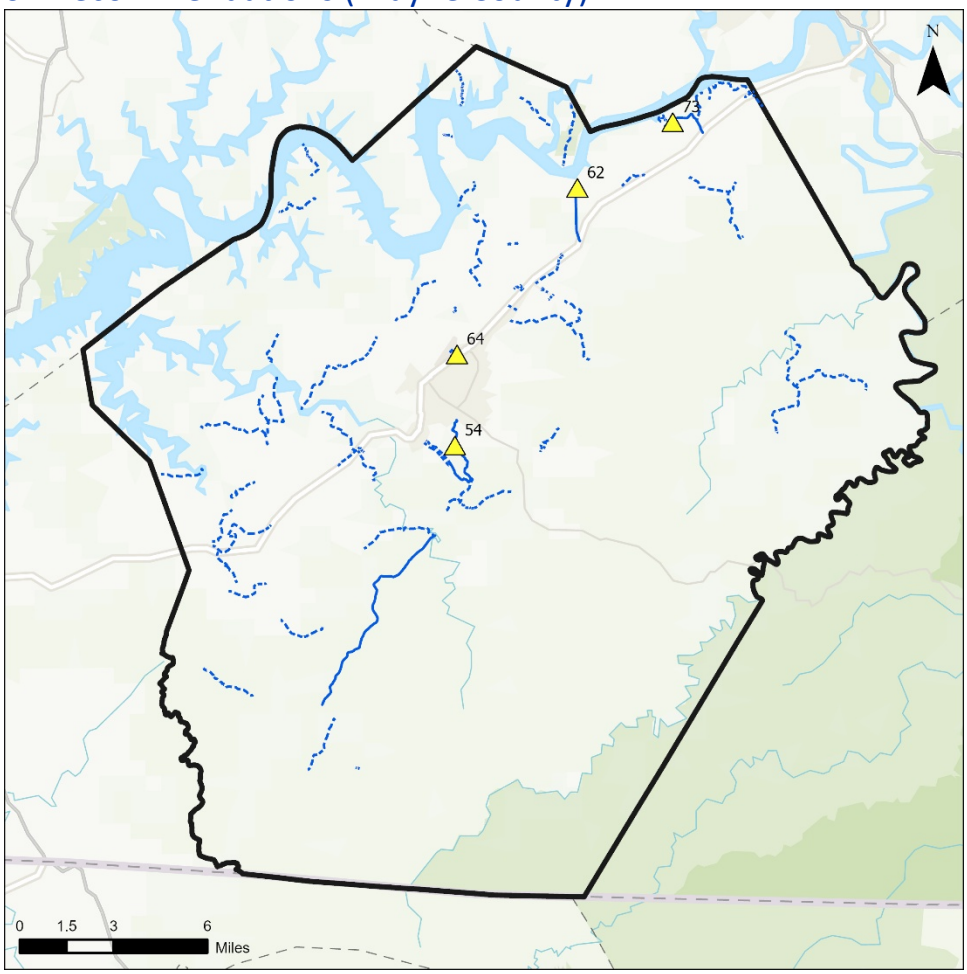


Exhibit Wayne-20: Intersection Locations

Point ID	RT_UNIQUE	RD_NAME	Hazard	Vegetation	Recommendations
3764	116-CR-1307 -000	MORRIS HILL RD	Intersection Obscured on Approa,Intersection Skew,Insufficient Sight Distance at	No	Evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X); Consider pavement markings including extended dotted edgeline and stop bar. Evaluate for reduction of intersection
3772	116-CR-1066 -000	OLD MILLSPRINGS RD	Intersection Obscured on Approa,Insufficient Sight Distance at	No	Evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)
3774	116-CR-1642 -000	AIRPORT ROAD ACCESS	Intersection Obscured on Approa,Insufficient Sight Distance at	No	Evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)
3783	116-CR-1046 -000	FRAZER CHAPEL RD	Intersection Obscured on Approa,Insufficient Sight Distance at	Yes	Clear vegetation and evaluate sight distance; Install Advance Traffic Control Signs (W3-X) and Intersection Warning Signs (W2-X)

Exhibit Wayne-21: Intersection Recommendations

Other Recommendations (Wayne County)



Exhibit Wayne-22: Intersection Locations

Point ID	RT_UNIQUE	RD_NAME	Recommendations	Other
3763	116-CR-1307 -000	MORRIS HILL RD	Improve ditch and sideslope	Ditch
3767	116-CR-1307 -000	MORRIS HILL RD	Improve ditch and sideslope	Ditch

Exhibit Wayne-23: Intersection Recommendations

Signing Recommendations (Wayne County)

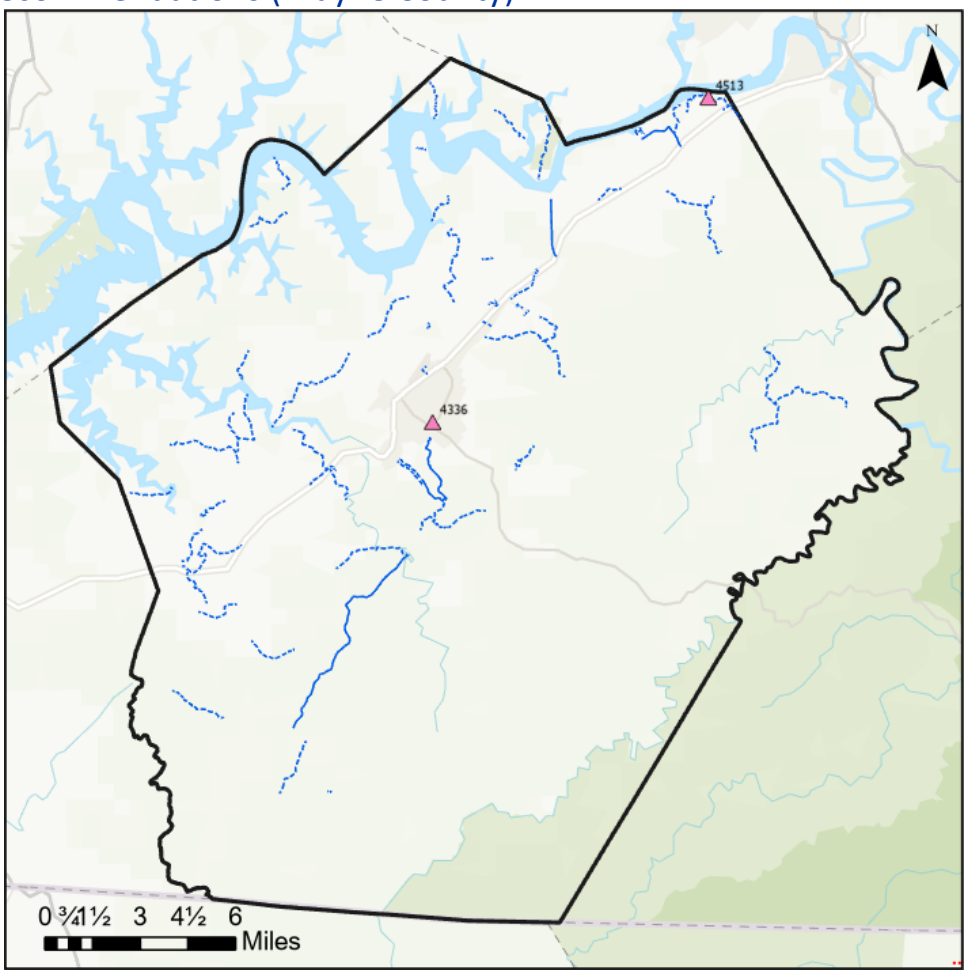


Exhibit Wayne-24: Sign Locations

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/LCADDSAP.

APPENDIX N: LAKE CUMBERLAND AREA DEVELOPMENT DISTRICT VISION ZERO STATEMENT

Lake Cumberland Area Development
District Safety Action Plan & Vision Zero Resolution
Resolution 2026

WHEREAS, the Lake Cumberland Area Development District is one of fifteen Area Development Districts within the Commonwealth of Kentucky; and

WHEREAS, the Lake Cumberland Area Development District represents the ten-county region consisting of Adair, Casey, Clinton, Cumberland, Green, McCreary, Pulaski, Russell, Taylor, and Wayne Counties; and

WHEREAS, the Lake Cumberland Area Development District was awarded funding through the U.S. Department of Transportation Safe Streets and Roads for All (SS4A) program to develop a comprehensive Safety Action Plan for the region; and

WHEREAS, the purpose of the Lake Cumberland Area Development District Safety Action Plan is to identify transportation safety needs, analyze crash trends and roadway risks, recommend strategies and improvements, and establish a framework for reducing fatal and serious-injury crashes throughout the region; and

WHEREAS, the Lake Cumberland Area Development District recognizes that roadway fatalities and serious injuries are preventable and that the safety of all roadway users should remain a priority in regional transportation planning; and

WHEREAS, the Lake Cumberland Area Development District supports the principles of the Safe System Approach and is committed to working collaboratively with its member counties, cities, the Kentucky Transportation Cabinet, transportation partners, emergency responders, community stakeholders, and the public to improve roadway safety; and

WHEREAS, the Lake Cumberland Area Development District establishes a long-term Vision Zero goal of eliminating roadway fatalities and serious injuries throughout the Lake Cumberland region and will work toward this goal through implementation, monitoring, and periodic evaluation of the Safety Action Plan.

NOW, THEREFORE, BE IT RESOLVED, that the Lake Cumberland Area Development District Board of Directors hereby approves and adopts the 2026 Lake Cumberland Area Development District Safety Action Plan and formally commits to the Vision Zero goal of eliminating roadway fatalities and serious injuries throughout the Lake Cumberland region.

The Board further supports the continued implementation of the Safety Action Plan and the use of its findings and recommendations to guide future regional and local transportation safety planning, project development, and funding efforts.

Adopted this 17th day of September, 2026.

Hershell Key, Chairman Board of Directors

Waylon Wright, Executive Director