

Rural Task Force Region Four 2024-2026 Road Project Application

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If you need assistance please contact Brandon Kovnat, SWMPC Associate Planner.

Email kovnatb@swmpc.org or call (269) 925-1137 x 1524

Section 1. Applicant Information

Agency Name	Berrien County Road Department		
Contact Name	Kevin Stack	Title	Engineering Supervisor
Phone Number	269-925-1196 ex 4421	Email	kstack@bcroad.org
Engineer/Consultant (If applicable)	NA		
Phone Number	NA	Email	NA

Section 2. Project Information

Project Name/Road Name	Red Arrow Highway		
Project Limits (e.g. Napier Ave. to Britain Ave.)	Lakeshore Road to Lake Side Road		
Project Length (nearest hundredth of a mile)	1.46	Proposed Year of Funding	2024
Primary Work Type	<input checked="" type="checkbox"/> Reconstruct <input type="checkbox"/> Restore & Rehabilitate <input type="checkbox"/> Roadside Facility <input type="checkbox"/> Resurface <input type="checkbox"/> Traffic Operations/Safety <input type="checkbox"/> Transit <input type="checkbox"/> Other		
Project Description (Please provide major work items including sidewalks, utility work, ADA upgrades etc.)	HMA Mill & Fill with 4 lane to 2 lane conversion. Project will include a 10 foot wide Non-motorized path and culvert replacement		
Was this project applied for during the 2020-2023 Call for Projects but not selected	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Was this project awarded funding for the 2020-2023 TIP, but was either canceled or failed to be obligated	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please explain:		
If you are submitting multiple applications, please rank your applications by priority.	Project Rank: 1 of 6		

Section 3. Project Funding

Estimated Participating Cost of the Project	\$2,000,000	
Federal STBG Requested	\$800,000	40%
State D Requested	\$110000	5.5%
CTF (Transit Only)	\$	%
Local Funds	\$1090000	54.5%
Total	\$2000000	100%
Does your agency have the financial capacity to Advance Construct (AC) all or part of this project if necessary? If yes, what is the maximum dollar amount your agency is willing to Advance Construct (AC)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Maximum Dollar Amount you can AC? \$	
Can your agency supply additional match beyond the minimum required 18.15%. If so how much?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Amount \$200000	
Are there elements of the project that could be eligible for other federal fund sources such as CMAQ, TAP, Bridge etc.	Source: Tap Amount: \$200000 Explanation: Non-motorized Path	
Will the project have nonparticipating work, such as water, or sewer work?	Amount: \$ Explain: NA	

Section 4. Regional Connectivity

What is the most current daily traffic count for the limits of this project?	AADT: 3644 Year of count: 2016 Source: BCRD
National Functional Classification (NFC) for this roadway	Minor Arterial
Is the project on an All Season Road	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Proposed All Season

Section 5. System Preservation

2021 PASER rating (Available 8-10-21)	2
Current state of drainage	<input type="checkbox"/> Adequate <input checked="" type="checkbox"/> Minor and tolerable drainage problems <input type="checkbox"/> Occasional drainage problems with some maintenance required <input type="checkbox"/> Inadequate, frequent flooding, excessive maintenance required
Expected increase in Remaining Service life (RSL)	20 Use MDOT's Guidelines for Geometrics on Local Projects
What MDOT guidelines does the project conform to?	<input type="checkbox"/> Reconstruction (4R) <input checked="" type="checkbox"/> Resurfacing, restoration, and Rehabilitation (3R) <input type="checkbox"/> Preventative Maintenance (PM)

Section 6. Safety

Please list the number and severity of crashes within the proposed project limits over the last 5 yrs. (2016-2020) (see [Michigan Crash Facts](#) for crash data)

Total Crashes	17	Pedestrian & Bicycle Crashes	0
Fatalities	0	Serious Injuries	6
Using the attached Crash Reduction Factors sheet, please check each safety counter measure that will be included in the project			
Describe any other safety improvements this project will provide	Lane Reduction and wider shoulder for increased recovery time and space		

Section 7. Pedestrian and Bicycle Improvements

Please explain what pedestrian and/or bicycle facilities if any currently exist	None
Please explain any additional pedestrian and/or bicycle improvements included in the project.	10 ft non-motorized path
Does this project connect to an existing pedestrian/bicycle facility or one that is planned to be completed before 2027	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, please provide a map of the connecting facilities

Section 8. Strategic Planning & Investment

Is the project identified in an approved Asset Management Plan, or Capital Improvement Plan	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, please attach the plan.
Is the project identified in another approved planning document such as a master plan or parks and recreation plan	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, please cite the plan and page number: County Linael Park Master plan
Is there an approved asset management plan covering the utilities along the project's limits	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No List utilities covered by the asset management plan: Sewer & Water
Will this project coordinate with other infrastructure projects (i.e. utility, water, sewer, etc.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please indicate the project type and construction year:
How many water main breaks have you had at this location in the past five years?	0
Is there a completed utilities assessment that includes televising the sewers in the project area?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	<input type="checkbox"/> Yes <input type="checkbox"/> No
Has staff received Asset Management training through the Michigan Transportation Asset Management Council? https://www.michigan.gov/tamc/0,7308,7-356-82158---,00.html	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Has your agency completed the Asset Management Readiness Scale from the Michigan Infrastructure Council (MIC)? https://fcm.ca/en/resources/mamp/tool-asset-management-readiness-scale	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Does the project cross jurisdictional boundaries?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, will it be bid as a single project?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Will this project require environmental mitigation, purchase of Right of Way (ROW), or railroad permits?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Sure If yes, which items are required:
If any of the above items are required please explain how they will be addressed	
Does this project perform Resurfacing, Reconstruction, or Preventative Maintenance on a segment adjacent to a segment that currently has a PASER of 7 or higher	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No List the adjacent segments that qualify: Red Arrow Highway

Section 9. Existing and Proposed Roadway Design

	Existing			Proposed		
Include the number of vehicle lanes	Through Traffic Lanes	Center Turn Lane	On Street Parking	Through Traffic Lanes	Center Turn Lane	On Street Parking
	4	0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2	0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Shoulder Surface	<input type="checkbox"/> Paved <input checked="" type="checkbox"/> Unpaved		Width (ft.) 6	<input checked="" type="checkbox"/> Paved <input type="checkbox"/> Unpaved		Width (ft.) 4
Sidewalk/ path information	Placement <input type="checkbox"/> One Side <input type="checkbox"/> Both Sides <input type="checkbox"/> Intermittent <input checked="" type="checkbox"/> None		Width (ft.)	Placement <input checked="" type="checkbox"/> One Side <input type="checkbox"/> Both Sides <input type="checkbox"/> Intermittent <input type="checkbox"/> None		Width (ft.) 10
On road bicycle facilities	<input type="checkbox"/> Bike Lane <input type="checkbox"/> Other (specify) _____ <input type="checkbox"/> Sharrows <input type="checkbox"/> Wide Shoulders <input checked="" type="checkbox"/> None			<input type="checkbox"/> Bike Lane <input type="checkbox"/> Other (specify) _____ <input type="checkbox"/> Sharrows <input checked="" type="checkbox"/> Wide Shoulders <input type="checkbox"/> None		
Utilities, Sewer and Water	<input type="checkbox"/> Utilities Upgrades Needed <input type="checkbox"/> Sewer and water work needed			<input type="checkbox"/> Replace Utilities <input type="checkbox"/> Relocate Utilities <input type="checkbox"/> Sewer and Water Line Work		
Please describe any improvements being made as part of this project to crosswalks, signage or signals, or streetscape elements not discussed in project description			Pedestrian cross walks along side streets			
Does this project enhance connectivity of pedestrian or bicyclists to fixed route or Dial-A-Ride transit?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, how? Connects to Red Arrow Linear Path			

Section 10. Estimated Project Schedule

Activity	Estimated Date
Resolution of Support for <input checked="" type="checkbox"/> Local Match Submitted to SWMPC	2/01/2022
Project Application Submitted to MOT	01/15/2024
Grade Inspection Package Submitted to MDOT	02/01/2024
Grade Inspection Meeting Scheduled	02/01/2024
Final Plan and Estimate to MDOT	03/01/2024
Right of Way (ROW) certified*	01/15/2024
Rail Road Permits*	01/15/2024
Environmental Mitigation*	na
Project Obligated	04/01/2024
Project Letting	05/01/2024
Construction Start	06/01/2024
Project Completion	11/01/2024

*Enter NA if these items will not be required.

	Proposed Improvement	% Reduction	Associated Crash Types
	SEGMENT CRASH REDUCTION FACTORS		
	Geometric Safety Enhancements		
<input type="checkbox"/>	Center Left-Turn Lane - Construct	80%	Rear-End Left-Turn
		50%	Head-On Left-Turn
		20%	Head-On, Angle, Sideswipe*
		15%	Non Left-Turn Rear-End, Other*
<input type="checkbox"/>	Right-Turn Lane - Construct	65%	Rear-End Right-Turn
		30%	Angle
		15%	Rear-End
		10%	Other*
<input type="checkbox"/>	Horizontal Curve Flattening	30%	Lane Departure***
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 1' each side)	5%	Lane Departure***
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 2' each side)	10%	Lane Departure***
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 3' each side)	15%	Lane Departure***
<input checked="" type="checkbox"/>	Shoulders - Widen to Standard Width (add 4' each side)	20%	Lane Departure***
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 5' each side)	25%	Lane Departure***
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 6' each side)	30%	Lane Departure***
<input type="checkbox"/>			
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 7' each side)	35%	Lane Departure***
<input type="checkbox"/>	Vertical Curve Modification	20%	All Applicable Crash Types +++
	General Segment Enhancements		
<input checked="" type="checkbox"/>	Access Management - Improve	15%	Drive-way Related Applicable Crashes
<input type="checkbox"/>	Centerline Rumble Strips - Install	44%	K and A injury Applicable Crashes
		46%	Single Vehicle Run off Road Left Crashes
		43%	Sideswipe Same Crashes
		55%	Sideswipe Opposite Crashes
<input type="checkbox"/>	High Friction Surface Treatment - Install	35%	Wet Crashes
		20%	All Other Applicable Crashes
<input type="checkbox"/>	Recessed Durable Pavement Markings	5%	All Applicable Crashes
<input type="checkbox"/>	Pedestrian Refuge - Install	50%	Pedestrian Crashes (Review NCHRP Report 841)
<input type="checkbox"/>	Road Diet (4-3 Lane Conversion) - Install	50%	Suburban - All Applicable Crashes
<input type="checkbox"/>	Shoulder Rumble Strips	20%	Run-Off the Road Right Crashes
<input type="checkbox"/>	Signing/Delineation on Horizontal Curves (Including Recessed Durable Pavement Markings) - Install	20%	Lane Departure***
<input type="checkbox"/>	Safety Edge Improvement	13%	All non-intersection crashes (CMF Clearing House ID 8658)

Roadside Enhancements			
<input type="checkbox"/>	Bicycle Lanes - Install per standards	50%	Bicycle Crashes
<input checked="" type="checkbox"/>	Shared Use Path - <i>Install</i>	33%	Bicycle and Pedestrian Related Crashes
<input type="checkbox"/>	Fixed Objects From Clearzone (Trees, Culverts, Etc.) - <i>Removal</i>	75%	Fixed-Object Applicable Crashes
<input checked="" type="checkbox"/>	Guardrail - <i>Install</i>	55%	Lane Departure ***Fatalities and "A" Injury Applicable Crashes
<input type="checkbox"/>	Sidewalk for Pedestrians - <i>Construct</i>	85%	Pedestrian Crashes
<input type="checkbox"/>	Slope Flattening	15%	Fixed-Object, Overturn Applicable Crashes
<input type="checkbox"/>	Living Snow Fence	20%	Crashes due to wintry surface conditions
<input type="checkbox"/>	Lighting - <i>install on segment</i>	20%	Dark Unlighted Crashes
INTERSECTION CRASH REDUCTION FACTORS			
Pedestrian / Bicycle Enhancements			
<input type="checkbox"/>	Bump Out / Curb Extension - <i>Remove Parking / Install</i>	30%	All Crashes
<input type="checkbox"/>	Bicycle Lanes - Install per standards	25%	Bicycle Crashes
<input type="checkbox"/>	Sidewalk for Pedestrians - <i>Construct</i>	85%	Pedestrian Crashes
<input type="checkbox"/>	Intersection Lighting - <i>install</i>	75%	Pedestrian Fatal - Dark Unlighted Crashes
		40%	Pedestrian A-Injury - Dark Unlighted Crashes
		30%	All Applicable Dark Unlighted Crashes
<input type="checkbox"/>	Rectangular Rapid Flashing Beacons	47%	Pedestrian Crashes
<input type="checkbox"/>	Ped. Countdown Signals - <i>Install new Pedestrian signal</i>	30%	Pedestrian Crashes
<input type="checkbox"/>	Ped. Countdown Signals - <i>Upgrade from existing Pedestrian signal</i>	25%	Pedestrian Crashes
Signal Timing / Hardware Enhancements			
<input type="checkbox"/>	Multiple Low-Cost Improvements	3%	Rear-End
		12%	Right-Angle
		3%	Nighttime
<input type="checkbox"/>	Install Reflectorized Backplates	15%	All Applicable Crashes
<input type="checkbox"/>	Add All-Red Clearance Interval - <i>Add per ITE</i>	20%	Head-On Left-Turn, Angle
<input type="checkbox"/>	Yellow-Change Interval - <i>Increase</i>	10%	All Crash Types
<input type="checkbox"/>	Box Span Signal - <i>Upgrade from Stop Control</i>	65%	Angle
		-25%	Rear-End (Increases Crashes)
		20%	All Other Non Rear-End Crashes
<input type="checkbox"/>	Box Span Signal - <i>Upgrade from Diagonal Span</i>	10%	All Applicable Crashes+
<input type="checkbox"/>	Protected Left-Turn Signal Phase - <i>Add</i>	30%	Left-Turn
<input type="checkbox"/>	Signal Head Size - <i>Increase to 12 "</i>	10%	All Applicable Crashes +
<input type="checkbox"/>	Signal Optimization & Timing Updates	10%	All Applicable Crashes +
<input type="checkbox"/>	Removing Night Flash from Signal Timing	50%	Nighttime Flash mode Related Crashes

Intersection Geometric Enhancements			
<input type="checkbox"/>	Center Left-Turn Lane - Construct	80%	Rear-End Left-Turn
		50%	Head-On Left-Turn
		20%	Head-On, Angle, Other
		15%	Non Left-Turn Rear-End
<input checked="" type="checkbox"/>	Intersection Improvements (Realignment, Sight-Distance Improvements, Radii Improvements, Etc.)	30%	Angle
		15%	Rear-End
		10%	Head-On, Sideswipe, Pedestrian, Bicycle, Left-Turn Related
<input type="checkbox"/>	Offset Left-Turn Lane - Construct	65%	Angle-Turn, Head-On Left-Turn
		20%	Rear-End Left-Turn
<input type="checkbox"/>	Offset Right-Turn Lane - Construct	65%	Angle-Turn
		50%	Other Applicable Crashes
		20%	Rear-End Right Turn
<input type="checkbox"/>	Right-Turn Lane - Construct	65%	Rear-End Right-Turn
		20%	Applicable Rear-End Crashes, Sideswipe Same Direction
<input type="checkbox"/>	Roundabout	78%	Fatal and A-Injury Reduction
		57%	Minor Crash Reduction
<input type="checkbox"/>	Lighting	-	See MDOT Interchange Warranted Lighting Guidance and overall MDOT Lighting Guidance
General Intersection Enhancements (Non-Signalized Intersections)			
<input type="checkbox"/>	All-Way Stop Control - New Installation	60%	All Applicable Crashes
<input type="checkbox"/>	Ground Mounted Flashing Beacons (Red)- Install **	30%	All Crashes On Install Approach
<input type="checkbox"/>	Ground Mounted Flashing Beacons(Amber) - Install **	20%	All Crashes On Install Approach
<input checked="" type="checkbox"/>	Signing - Improve/Upgrade	30%	Angle, Rear-End Crashes
<input checked="" type="checkbox"/>	Pavement Markings - Improve/Upgrade	30%	Angle, Rear-End Crashes
<input checked="" type="checkbox"/>	Reflective Sheeting on Sign Posts (lollipops)	15%	All Applicable Crashes

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Email kovnatb@swmpc.org or call (269) 925-1137 x 1524

Section 1. Applicant Information

Agency Name	Berrien County Road Department		
Contact Name	Kevin Stack	Title	Engineering Supervisor
Phone Number	269-925-1196 ex 4421	Email	kstack@bcroad.org
Engineer/Consultant (If applicable)	NA		
Phone Number	NA	Email	NA

Section 2. Project Information

Project Name/Road Name	Cleveland Ave		
Project Limits (e.g. Napier Ave. to Britain Ave.)	Snow Rd. to Glendora Rd		
Project Length (nearest hundredth of a mile)	1.46	Proposed Year of Funding	2025
Primary Work Type	<input checked="" type="checkbox"/> Reconstruct <input type="checkbox"/> Restore & Rehabilitate <input type="checkbox"/> Roadside Facility <input type="checkbox"/> Resurface <input type="checkbox"/> Traffic Operations/Safety <input type="checkbox"/> Transit <input type="checkbox"/> Other		
Project Description (Please provide major work items including sidewalks, utility work, ADA upgrades etc.)	HMA Trench & widen with guardrail upgrade. Wider shoulder for increased recovery time and space. This roadway is on the Nuclear Evcatuation Route for DC Cook Nuclear Power Plant.		
Was this project applied for during the 2020-2023 Call for Proejects but not selected	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Was this project awarded funding for the 2020-2023 TIP, but was either canceled or failed to be obligated	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please explain:		
If you are submitting multiple applications, please rank your applications by priority.	Project Rank: 2 of 6		

Section 3. Project Funding

Estimated Participating Cost of the Project	\$660000	
Federal STBG Requested	\$540210	81.85%
State D Requested	\$119790	18.15%
CTF (Transit Only)	\$	%
Local Funds	\$0	0%
Total	\$660000	100%
Does your agency have the financial capacity to Advance Construct (AC) all or part of this project if necessary? If yes, what is the maximum dollar amount your agency is willing to Advance Construct (AC)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Maximum Dollar Amount you can AC? \$	
Can your agency supply additional match beyond the minimum required 18.15%. If so how much?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Amount \$50000	
Are there elements of the project that could be eligible for other federal fund sources such as CMAQ, TAP, Bridge etc.	Source: Amount: \$ Explanation: NA	
Will the project have nonparticipating work, such as water, or sewer work?	Amount: \$ Explain: NA	

Section 4. Regional Connectivity

What is the most current daily traffic count for the limits of this project?	AADT: 2816 Year of count: 2017 Source: BCRD
National Functional Classification (NFC) for this roadway	Major Collector
Is the project on an All Season Road	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Proposed All Season

Section 5. System Preservation

2021 PASER rating (Available 8-10-21)	3
Current state of drainage	<input checked="" type="checkbox"/> Adequate <input type="checkbox"/> Minor and tolerable drainage problems <input type="checkbox"/> Occasional drainage problems with some maintenance required <input type="checkbox"/> Inadequate, frequent flooding, excessive maintenance required
Expected increase in Remaining Service life (RSL)	20 Use MDOT's Guidelines for Geometrics on Local Projects
What MDOT guidelines does the project conform to?	<input type="checkbox"/> Reconstruction (4R) <input checked="" type="checkbox"/> Resurfacing, restoration, and Rehabilitation (3R) <input type="checkbox"/> Preventative Maintenance (PM)

Section 6. Safety

Please list the number and severity of crashes within the proposed project limits over the last 5 yrs. (2016-2020) (see [Michigan Crash Facts](#) for crash data)

Total Crashes	14	Pedestrian & Bicycle Crashes	0
Fatalities	0	Serious Injuries	

Using the attached Crash Reduction Factors sheet, please check each safety counter measure that will be included in the project

Describe any other safety improvements this project will provide	Wider shoulder for increased recovery time and space
--	--

Section 7. Pedestrian and Bicycle Improvements

Please explain what pedestrian and/or bicycle facilities if any currently exist	None
Please explain any additional pedestrian and/or bicycle improvements included in the project.	None
Does this project connect to an existing pedestrian/bicycle facility or one that is planned to be completed before 2027	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please provide a map of the connecting facilities

Section 8. Strategic Planning & Investment

Is the project identified in an approved Asset Management Plan, or Capital Improvement Plan	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, please attach the plan.
Is the project identified in another approved planning document such as a master plan or parks and recreation plan	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please cite the plan and page number:
Is there an approved asset management plan covering the utilities along the project's limits	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No List utilities covered by the asset management plan:
Will this project coordinate with other infrastructure projects (i.e. utility, water, sewer, etc.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please indicate the project type and construction year:
How many water main breaks have you had at this location in the past five years?	0
Is there a completed utilities assessment that includes televising the sewers in the project area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	<input type="checkbox"/> Yes <input type="checkbox"/> No
Has staff received Asset Management training through the Michigan Transportation Asset Management Council? https://www.michigan.gov/tamc/0,7308,7-356-82158---,00.html	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Has your agency completed the Asset Management Readiness Scale from the Michigan Infrastructure Council (MIC)? https://fcm.ca/en/resources/mamp/tool-asset-management-readiness-scale	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Does the project cross jurisdictional boundaries?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, will it be bid as a single project?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Will this project require environmental mitigation, purchase of Right of Way (ROW), or railroad permits?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Sure If yes, which items are required:
If any of the above items are required please explain how they will be addressed	
Does this project perform Resurfacing, Reconstruction, or Preventative Maintenance on a segment adjacent to a segment that currently has a PASER of 7 or higher	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No List the adjacent segments that qualify: Cleveland Ave

Section 9. Existing and Proposed Roadway Design

	Existing			Proposed		
Include the number of vehicle lanes	Through Traffic Lanes	Center Turn Lane	On Street Parking	Through Traffic Lanes	Center Turn Lane	On Street Parking
	2	0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2	0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Shoulder Surface	<input type="checkbox"/> Paved <input checked="" type="checkbox"/> Unpaved		Width (ft.) 6	<input checked="" type="checkbox"/> Paved <input type="checkbox"/> Unpaved		Width (ft.) 3
Sidewalk/ path information	Placement <input type="checkbox"/> One Side <input type="checkbox"/> Both Sides <input type="checkbox"/> Intermittent <input checked="" type="checkbox"/> None		Width (ft.)	Placement <input type="checkbox"/> One Side <input type="checkbox"/> Both Sides <input type="checkbox"/> Intermittent <input checked="" type="checkbox"/> None		Width (ft.)
On road bicycle facilities	<input type="checkbox"/> Bike Lane <input type="checkbox"/> Other (specify) _____ <input type="checkbox"/> Sharrows <input type="checkbox"/> Wide Shoulders <input checked="" type="checkbox"/> None			<input type="checkbox"/> Bike Lane <input type="checkbox"/> Other (specify) _____ <input type="checkbox"/> Sharrows <input checked="" type="checkbox"/> Wide Shoulders <input type="checkbox"/> None		
Utilities, Sewer and Water	<input type="checkbox"/> Utilities Upgrades Needed <input type="checkbox"/> Sewer and water work needed			<input type="checkbox"/> Replace Utilities <input type="checkbox"/> Relocate Utilities <input type="checkbox"/> Sewer and Water Line Work		
Please describe any improvements being made as part of this project to crosswalks, signage or signals, or streetscape elements not discussed in project description						
Does this project enhance connectivity of pedestrian or bicyclists to fixed route or Dial-A-Ride transit?			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, how?			

Section 10. Estimated Project Schedule

Activity	Estimated Date
Resolution of Support for <input checked="" type="checkbox"/> Local Match Submitted to SWMPC	2/01/2022
Project Application Submitted to MOT	01/15/2025
Grade Inspection Package Submitted to MDOT	02/01/2025
Grade Inspection Meeting Scheduled	02/01/2025
Final Plan and Estimate to MDOT	03/01/2025
Right of Way (ROW) certified*	01/15/2025
Rail Road Permits*	01/15/2025
Environmental Mitigation*	na
Project Obligated	04/01/2025
Project Letting	05/01/2025
Construction Start	06/01/2025
Project Completion	11/01/2025

*Enter NA if these items will not be required.

	Proposed Improvement	% Reduction	Associated Crash Types
	SEGMENT CRASH REDUCTION FACTORS		
	Geometric Safety Enhancements		
<input type="checkbox"/>	Center Left-Turn Lane - Construct	80%	Rear-End Left-Turn
		50%	Head-On Left-Turn
		20%	Head-On, Angle, Sideswipe*
		15%	Non Left-Turn Rear-End, Other*
<input type="checkbox"/>	Right-Turn Lane - Construct	65%	Rear-End Right-Turn
		30%	Angle
		15%	Rear-End
		10%	Other*
<input type="checkbox"/>	Horizontal Curve Flattening	30%	Lane Departure***
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 1' each side)	5%	Lane Departure***
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 2' each side)	10%	Lane Departure***
<input checked="" type="checkbox"/>	Shoulders - Widen to Standard Width (add 3' each side)	15%	Lane Departure***
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 4' each side)	20%	Lane Departure***
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 5' each side)	25%	Lane Departure***
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 6' each side)	30%	Lane Departure***
<input type="checkbox"/>			
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 7' each side)	35%	Lane Departure***
<input type="checkbox"/>	Vertical Curve Modification	20%	All Applicable Crash Types +++
	General Segment Enhancements		
<input type="checkbox"/>	Access Management - Improve	15%	Drive-way Related Applicable Crashes
<input type="checkbox"/>	Centerline Rumble Strips - Install	44%	K and A injury Applicable Crashes
		46%	Single Vehicle Run off Road Left Crashes
		43%	Sideswipe Same Crashes
		55%	Sideswipe Opposite Crashes
<input type="checkbox"/>	High Friction Surface Treatment - Install	35%	Wet Crashes
		20%	All Other Applicable Crashes
<input type="checkbox"/>	Recessed Durable Pavement Markings	5%	All Applicable Crashes
<input type="checkbox"/>	Pedestrian Refuge - Install	50%	Pedestrian Crashes (Review NCHRP Report 841)
<input type="checkbox"/>	Road Diet (4-3 Lane Conversion) - Install	50%	Suburban - All Applicable Crashes
<input type="checkbox"/>	Shoulder Rumble Strips	20%	Run-Off the Road Right Crashes
<input type="checkbox"/>	Signing/Delineation on Horizontal Curves (Including Recessed Durable Pavement Markings) - Install	20%	Lane Departure***
<input type="checkbox"/>	Safety Edge Improvement	13%	All non-intersection crashes (CMF Clearing House ID 8658)

Roadside Enhancements			
<input type="checkbox"/>	Bicycle Lanes - Install per standards	50%	Bicycle Crashes
<input type="checkbox"/>	Shared Use Path - <i>Install</i>	33%	Bicycle and Pedestrian Related Crashes
<input type="checkbox"/>	Fixed Objects From Clearzone (Trees, Culverts, Etc.) - <i>Removal</i>	75%	Fixed-Object Applicable Crashes
<input checked="" type="checkbox"/>	Guardrail - <i>Install</i>	55%	Lane Departure ***Fatalities and "A" Injury Applicable Crashes
<input type="checkbox"/>	Sidewalk for Pedestrians - <i>Construct</i>	85%	Pedestrian Crashes
<input type="checkbox"/>	Slope Flattening	15%	Fixed-Object, Overturn Applicable Crashes
<input type="checkbox"/>	Living Snow Fence	20%	Crashes due to wintry surface conditions
<input type="checkbox"/>	Lighting - <i>install on segment</i>	20%	Dark Unlighted Crashes
INTERSECTION CRASH REDUCTION FACTORS			
Pedestrian / Bicycle Enhancements			
<input type="checkbox"/>	Bump Out / Curb Extension - <i>Remove Parking / Install</i>	30%	All Crashes
<input type="checkbox"/>	Bicycle Lanes - Install per standards	25%	Bicycle Crashes
<input type="checkbox"/>	Sidewalk for Pedestrians - <i>Construct</i>	85%	Pedestrian Crashes
<input type="checkbox"/>	Intersection Lighting - <i>install</i>	75%	Pedestrian Fatal - Dark Unlighted Crashes
		40%	Pedestrian A-Injury - Dark Unlighted Crashes
		30%	All Applicable Dark Unlighted Crashes
<input type="checkbox"/>	Rectangular Rapid Flashing Beacons	47%	Pedestrian Crashes
<input type="checkbox"/>	Ped. Countdown Signals - <i>Install new Pedestrian signal</i>	30%	Pedestrian Crashes
<input type="checkbox"/>	Ped. Countdown Signals - <i>Upgrade from existing Pedestrian signal</i>	25%	Pedestrian Crashes
Signal Timing / Hardware Enhancements			
<input type="checkbox"/>	Multiple Low-Cost Improvements	3%	Rear-End
		12%	Right-Angle
		3%	Nighttime
<input type="checkbox"/>	Install Reflectorized Backplates	15%	All Applicable Crashes
<input type="checkbox"/>	Add All-Red Clearance Interval - <i>Add per ITE</i>	20%	Head-On Left-Turn, Angle
<input type="checkbox"/>	Yellow-Change Interval - <i>Increase</i>	10%	All Crash Types
<input type="checkbox"/>	Box Span Signal - <i>Upgrade from Stop Control</i>	65%	Angle
		-25%	Rear-End (Increases Crashes)
		20%	All Other Non Rear-End Crashes
<input type="checkbox"/>	Box Span Signal - <i>Upgrade from Diagonal Span</i>	10%	All Applicable Crashes+
<input type="checkbox"/>	Protected Left-Turn Signal Phase - <i>Add</i>	30%	Left-Turn
<input type="checkbox"/>	Signal Head Size - <i>Increase to 12 "</i>	10%	All Applicable Crashes +
<input type="checkbox"/>	Signal Optimization & Timing Updates	10%	All Applicable Crashes +
<input type="checkbox"/>	Removing Night Flash from Signal Timing	50%	Nighttime Flash mode Related Crashes

Intersection Geometric Enhancements			
<input type="checkbox"/>	Center Left-Turn Lane - Construct	80%	Rear-End Left-Turn
		50%	Head-On Left-Turn
		20%	Head-On, Angle, Other
		15%	Non Left-Turn Rear-End
<input type="checkbox"/>	Intersection Improvements (Realignment, Sight-Distance Improvements, Radii Improvements, Etc.)	30%	Angle
		15%	Rear-End
		10%	Head-On, Sideswipe, Pedestrian, Bicycle, Left-Turn Related
<input type="checkbox"/>	Offset Left-Turn Lane - Construct	65%	Angle-Turn, Head-On Left-Turn
		20%	Rear-End Left-Turn
<input type="checkbox"/>	Offset Right-Turn Lane - Construct	65%	Angle-Turn
		50%	Other Applicable Crashes
		20%	Rear-End Right Turn
<input type="checkbox"/>	Right-Turn Lane - Construct	65%	Rear-End Right-Turn
		20%	Applicable Rear-End Crashes, Sideswipe Same Direction
<input type="checkbox"/>	Roundabout	78%	Fatal and A-Injury Reduction
		57%	Minor Crash Reduction
<input type="checkbox"/>	Lighting	-	See MDOT Interchange Warranted Lighting Guidance and overall MDOT Lighting Guidance
General Intersection Enhancements (Non-Signalized Intersections)			
<input type="checkbox"/>	All-Way Stop Control - New Installation	60%	All Applicable Crashes
<input type="checkbox"/>	Ground Mounted Flashing Beacons (Red)- Install **	30%	All Crashes On Install Approach
<input type="checkbox"/>	Ground Mounted Flashing Beacons(Amber) - Install **	20%	All Crashes On Install Approach
<input checked="" type="checkbox"/>	Signing - Improve/Upgrade	30%	Angle, Rear-End Crashes
<input checked="" type="checkbox"/>	Pavement Markings - Improve/Upgrade	30%	Angle, Rear-End Crashes
<input checked="" type="checkbox"/>	Reflective Sheeting on Sign Posts (lollipops)	15%	All Applicable Crashes

Rural Task Force Region Four 2024-2026 Road Project Application

Click “Enable Editing” to begin filling out this form. You may save this form at any time.

If you need assistance please contact Brandon Kovnat, SWMPC Associate Planner.

Email kovnatb@swmpc.org or call (269) 925-1137 x 1524

Section 1. Applicant Information

Agency Name	Berrien County Road Department		
Contact Name	Kevin Stack	Title	Engineering Supervisor
Phone Number	269-925-1196 ex 4421	Email	kstack@bcroad.org
Engineer/Consultant (If applicable)	NA		
Phone Number	NA	Email	NA

Section 2. Project Information

Project Name/Road Name	Glendora Road		
Project Limits (e.g. Napier Ave. to Britain Ave.)	Cleveland Aveune to Hills Road		
Project Length (nearest hundredth of a mile)	2.01	Proposed Year of Funding	2026
Primary Work Type	<input type="checkbox"/> Reconstruct <input type="checkbox"/> Restore & Rehabilitate <input type="checkbox"/> Roadside Facility <input checked="" type="checkbox"/> Resurface <input type="checkbox"/> Traffic Operations/Safety <input type="checkbox"/> Transit <input type="checkbox"/> Other		
Project Description (Please provide major work items including sidewalks, utility work, ADA upgrades etc.)	HMA Trench & widen, Curb Replacement, and Drainage Improvement		
Was this project applied for during the 2020-2023 Call for Proejects but not selected	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Was this project awarded funding for the 2020-2023 TIP, but was either canceled or failed to be obligated	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please explain:		
If you are submitting multiple applications, please rank your applications by priority.	Project Rank: 3 of 6		

Section 3. Project Funding

Estimated Participating Cost of the Project	\$582770	
Federal STBG Requested	\$476997	81.85%
State D Requested	\$105772.76	18.15%
CTF (Transit Only)	\$	%
Local Funds	\$0	0%
Total	\$582770	100%
Does your agency have the financial capacity to Advance Construct (AC) all or part of this project if necessary? If yes, what is the maximum dollar amount your agency is willing to Advance Construct (AC)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Maximum Dollar Amount you can AC? \$	
Can your agency supply additional match beyond the minimum required 18.15%. If so how much?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Amount \$100000	
Are there elements of the project that could be eligible for other federal fund sources such as CMAQ, TAP, Bridge etc.	Source: Amount: \$ Explanation: NA	
Will the project have nonparticipating work, such as water, or sewer work?	Amount: \$ Explain: NA	

Section 4. Regional Connectivity

What is the most current daily traffic count for the limits of this project?	AADT: 1200 Year of count: 2017 Source: BCRD
National Functional Classification (NFC) for this roadway	Major Collector
Is the project on an All Season Road	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Proposed All Season

Section 5. System Preservation

2021 PASER rating (Available 8-10-21)	3
Current state of drainage	<input checked="" type="checkbox"/> Adequate <input type="checkbox"/> Minor and tolerable drainage problems <input type="checkbox"/> Occasional drainage problems with some maintenance required <input type="checkbox"/> Inadequate, frequent flooding, excessive maintenance required
Expected increase in Remaining Service life (RSL)	20 Use MDOT's Guidelines for Geometrics on Local Projects
What MDOT guidelines does the project conform to?	<input type="checkbox"/> Reconstruction (4R) <input checked="" type="checkbox"/> Resurfacing, restoration, and Rehabilitation (3R) <input type="checkbox"/> Preventative Maintenance (PM)

Section 6. Safety

Please list the number and severity of crashes within the proposed project limits over the last 5 yrs. (2016-2020) (see [Michigan Crash Facts](#) for crash data)

Total Crashes	5	Pedestrian & Bicycle Crashes	0
Fatalities	0	Serious Injuries	2

Using the attached Crash Reduction Factors sheet, please check each safety counter measure that will be included in the project

Describe any other safety improvements this project will provide	Wider shoulder for increased recovery time and space. This roadway is on the Nuclear Evacuation Route for DC Cook Nuclear Power Plant.
--	--

Section 7. Pedestrian and Bicycle Improvements

Please explain what pedestrian and/or bicycle facilities if any currently exist	None
Please explain any additional pedestrian and/or bicycle improvements included in the project.	None
Does this project connect to an existing pedestrian/bicycle facility or one that is planned to be completed before 2027	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please provide a map of the connecting facilities

Section 8. Strategic Planning & Investment

Is the project identified in an approved Asset Management Plan, or Capital Improvement Plan	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, please attach the plan.
Is the project identified in another approved planning document such as a master plan or parks and recreation plan	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please cite the plan and page number:
Is there an approved asset management plan covering the utilities along the project's limits	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No List utilities covered by the asset management plan:
Will this project coordinate with other infrastructure projects (i.e. utility, water, sewer, etc.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please indicate the project type and construction year:
How many water main breaks have you had at this location in the past five years?	0
Is there a completed utilities assessment that includes televising the sewers in the project area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	<input type="checkbox"/> Yes <input type="checkbox"/> No
Has staff received Asset Management training through the Michigan Transportation Asset Management Council? https://www.michigan.gov/tamc/0,7308,7-356-82158---,00.html	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Has your agency completed the Asset Management Readiness Scale from the Michigan Infrastructure Council (MIC)? https://fcm.ca/en/resources/mamp/tool-asset-management-readiness-scale	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Does the project cross jurisdictional boundaries?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, will it be bid as a single project?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Will this project require environmental mitigation, purchase of Right of Way (ROW), or railroad permits?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Sure If yes, which items are required:
If any of the above items are required please explain how they will be addressed	
Does this project perform Resurfacing, Reconstruction, or Preventative Maintenance on a segment adjacent to a segment that currently has a PASER of 7 or higher	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No List the adjacent segments that qualify: Cleveland Ave

Section 9. Existing and Proposed Roadway Design

	Existing			Proposed		
Include the number of vehicle lanes	Through Traffic Lanes	Center Turn Lane	On Street Parking	Through Traffic Lanes	Center Turn Lane	On Street Parking
	2	0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2	0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Shoulder Surface	<input type="checkbox"/> Paved <input checked="" type="checkbox"/> Unpaved		Width (ft.) 3	<input checked="" type="checkbox"/> Paved <input type="checkbox"/> Unpaved		Width (ft.) 3
Sidewalk/ path information	Placement <input type="checkbox"/> One Side <input type="checkbox"/> Both Sides <input type="checkbox"/> Intermittent <input checked="" type="checkbox"/> None		Width (ft.)	Placement <input type="checkbox"/> One Side <input type="checkbox"/> Both Sides <input type="checkbox"/> Intermittent <input checked="" type="checkbox"/> None		Width (ft.)
On road bicycle facilities	<input type="checkbox"/> Bike Lane <input type="checkbox"/> Other (specify) _____ <input type="checkbox"/> Sharrows <input type="checkbox"/> Wide Shoulders <input checked="" type="checkbox"/> None			<input type="checkbox"/> Bike Lane <input type="checkbox"/> Other (specify) _____ <input type="checkbox"/> Sharrows <input checked="" type="checkbox"/> Wide Shoulders <input type="checkbox"/> None		
Utilities, Sewer and Water	<input type="checkbox"/> Utilities Upgrades Needed <input type="checkbox"/> Sewer and water work needed			<input type="checkbox"/> Replace Utilities <input type="checkbox"/> Relocate Utilities <input type="checkbox"/> Sewer and Water Line Work		
Please describe any improvements being made as part of this project to crosswalks, signage or signals, or streetscape elements not discussed in project description						
Does this project enhance connectivity of pedestrian or bicyclists to fixed route or Dial-A-Ride transit?			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, how?			

Section 10. Estimated Project Schedule

Activity	Estimated Date
Resolution of Support for <input checked="" type="checkbox"/> Local Match Submitted to SWMPC	2/01/2022
Project Application Submitted to MOT	01/15/2026
Grade Inspection Package Submitted to MDOT	02/01/2026
Grade Inspection Meeting Scheduled	02/01/2026
Final Plan and Estimate to MDOT	03/01/2026
Right of Way (ROW) certified*	01/15/2026
Rail Road Permits*	01/15/2026
Environmental Mitigation*	na
Project Obligated	04/01/2026
Project Letting	05/01/2026
Construction Start	06/01/2026
Project Completion	11/01/2026

*Enter NA if these items will not be required.

	Proposed Improvement	% Reduction	Associated Crash Types
	SEGMENT CRASH REDUCTION FACTORS		
	Geometric Safety Enhancements		
<input type="checkbox"/>	Center Left-Turn Lane - Construct	80%	Rear-End Left-Turn
		50%	Head-On Left-Turn
		20%	Head-On, Angle, Sideswipe*
		15%	Non Left-Turn Rear-End, Other*
<input type="checkbox"/>	Right-Turn Lane - Construct	65%	Rear-End Right-Turn
		30%	Angle
		15%	Rear-End
		10%	Other*
<input type="checkbox"/>	Horizontal Curve Flattening	30%	Lane Departure***
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 1' each side)	5%	Lane Departure***
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 2' each side)	10%	Lane Departure***
<input checked="" type="checkbox"/>	Shoulders - Widen to Standard Width (add 3' each side)	15%	Lane Departure***
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 4' each side)	20%	Lane Departure***
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 5' each side)	25%	Lane Departure***
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 6' each side)	30%	Lane Departure***
<input type="checkbox"/>			
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 7' each side)	35%	Lane Departure***
<input type="checkbox"/>	Vertical Curve Modification	20%	All Applicable Crash Types +++
	General Segment Enhancements		
<input type="checkbox"/>	Access Management - Improve	15%	Drive-way Related Applicable Crashes
<input type="checkbox"/>	Centerline Rumble Strips - Install	44%	K and A injury Applicable Crashes
		46%	Single Vehicle Run off Road Left Crashes
		43%	Sideswipe Same Crashes
		55%	Sideswipe Opposite Crashes
<input type="checkbox"/>	High Friction Surface Treatment - Install	35%	Wet Crashes
		20%	All Other Applicable Crashes
<input type="checkbox"/>	Recessed Durable Pavement Markings	5%	All Applicable Crashes
<input type="checkbox"/>	Pedestrian Refuge - Install	50%	Pedestrian Crashes (Review NCHRP Report 841)
<input type="checkbox"/>	Road Diet (4-3 Lane Conversion) - Install	50%	Suburban - All Applicable Crashes
<input type="checkbox"/>	Shoulder Rumble Strips	20%	Run-Off the Road Right Crashes
<input type="checkbox"/>	Signing/Delineation on Horizontal Curves (Including Recessed Durable Pavement Markings) - Install	20%	Lane Departure***
<input type="checkbox"/>	Safety Edge Improvement	13%	All non-intersection crashes (CMF Clearing House ID 8658)

Roadside Enhancements			
<input type="checkbox"/>	Bicycle Lanes - Install per standards	50%	Bicycle Crashes
<input type="checkbox"/>	Shared Use Path - <i>Install</i>	33%	Bicycle and Pedestrian Related Crashes
<input type="checkbox"/>	Fixed Objects From Clearzone (Trees, Culverts, Etc.) - <i>Removal</i>	75%	Fixed-Object Applicable Crashes
<input checked="" type="checkbox"/>	Guardrail - <i>Install</i>	55%	Lane Departure ***Fatalities and "A" Injury Applicable Crashes
<input type="checkbox"/>	Sidewalk for Pedestrians - <i>Construct</i>	85%	Pedestrian Crashes
<input type="checkbox"/>	Slope Flattening	15%	Fixed-Object, Overturn Applicable Crashes
<input type="checkbox"/>	Living Snow Fence	20%	Crashes due to wintry surface conditions
<input type="checkbox"/>	Lighting - <i>install on segment</i>	20%	Dark Unlighted Crashes
INTERSECTION CRASH REDUCTION FACTORS			
Pedestrian / Bicycle Enhancements			
<input type="checkbox"/>	Bump Out / Curb Extension - <i>Remove Parking / Install</i>	30%	All Crashes
<input type="checkbox"/>	Bicycle Lanes - Install per standards	25%	Bicycle Crashes
<input type="checkbox"/>	Sidewalk for Pedestrians - <i>Construct</i>	85%	Pedestrian Crashes
<input type="checkbox"/>	Intersection Lighting - <i>install</i>	75%	Pedestrian Fatal - Dark Unlighted Crashes
		40%	Pedestrian A-Injury - Dark Unlighted Crashes
		30%	All Applicable Dark Unlighted Crashes
<input type="checkbox"/>	Rectangular Rapid Flashing Beacons	47%	Pedestrian Crashes
<input type="checkbox"/>	Ped. Countdown Signals - <i>Install new Pedestrian signal</i>	30%	Pedestrian Crashes
<input type="checkbox"/>	Ped. Countdown Signals - <i>Upgrade from existing Pedestrian signal</i>	25%	Pedestrian Crashes
Signal Timing / Hardware Enhancements			
<input type="checkbox"/>	Multiple Low-Cost Improvements	3%	Rear-End
		12%	Right-Angle
		3%	Nighttime
<input type="checkbox"/>	Install Reflectorized Backplates	15%	All Applicable Crashes
<input type="checkbox"/>	Add All-Red Clearance Interval - <i>Add per ITE</i>	20%	Head-On Left-Turn, Angle
<input type="checkbox"/>	Yellow-Change Interval - <i>Increase</i>	10%	All Crash Types
<input type="checkbox"/>	Box Span Signal - <i>Upgrade from Stop Control</i>	65%	Angle
		-25%	Rear-End (Increases Crashes)
		20%	All Other Non Rear-End Crashes
<input type="checkbox"/>	Box Span Signal - <i>Upgrade from Diagonal Span</i>	10%	All Applicable Crashes+
<input type="checkbox"/>	Protected Left-Turn Signal Phase - <i>Add</i>	30%	Left-Turn
<input type="checkbox"/>	Signal Head Size - <i>Increase to 12 "</i>	10%	All Applicable Crashes +
<input type="checkbox"/>	Signal Optimization & Timing Updates	10%	All Applicable Crashes +
<input type="checkbox"/>	Removing Night Flash from Signal Timing	50%	Nighttime Flash mode Related Crashes

Intersection Geometric Enhancements			
<input type="checkbox"/>	Center Left-Turn Lane - Construct	80%	Rear-End Left-Turn
		50%	Head-On Left-Turn
		20%	Head-On, Angle, Other
		15%	Non Left-Turn Rear-End
<input type="checkbox"/>	Intersection Improvements (Realignment, Sight-Distance Improvements, Radii Improvements, Etc.)	30%	Angle
		15%	Rear-End
		10%	Head-On, Sideswipe, Pedestrian, Bicycle, Left-Turn Related
<input type="checkbox"/>	Offset Left-Turn Lane - Construct	65%	Angle-Turn, Head-On Left-Turn
		20%	Rear-End Left-Turn
<input type="checkbox"/>	Offset Right-Turn Lane - Construct	65%	Angle-Turn
		50%	Other Applicable Crashes
		20%	Rear-End Right Turn
<input type="checkbox"/>	Right-Turn Lane - Construct	65%	Rear-End Right-Turn
		20%	Applicable Rear-End Crashes, Sideswipe Same Direction
<input type="checkbox"/>	Roundabout	78%	Fatal and A-Injury Reduction
		57%	Minor Crash Reduction
<input type="checkbox"/>	Lighting	-	See MDOT Interchange Warranted Lighting Guidance and overall MDOT Lighting Guidance
General Intersection Enhancements (Non-Signalized Intersections)			
<input type="checkbox"/>	All-Way Stop Control - New Installation	60%	All Applicable Crashes
<input type="checkbox"/>	Ground Mounted Flashing Beacons (Red)- Install **	30%	All Crashes On Install Approach
<input type="checkbox"/>	Ground Mounted Flashing Beacons(Amber) - Install **	20%	All Crashes On Install Approach
<input checked="" type="checkbox"/>	Signing - Improve/Upgrade	30%	Angle, Rear-End Crashes
<input checked="" type="checkbox"/>	Pavement Markings - Improve/Upgrade	30%	Angle, Rear-End Crashes
<input checked="" type="checkbox"/>	Reflective Sheeting on Sign Posts (lollipops)	15%	All Applicable Crashes

Rural Task Force Region Four 2024-2026 Road Project Application

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If you need assistance please contact Brandon Kovnat, SWMPC Associate Planner.

Email kovnatb@swmpc.org or call (269) 925-1137 x 1524

Section 1. Applicant Information

Agency Name	Berrien County Road Department		
Contact Name	Kevin Stack	Title	Engineering Supervisor
Phone Number	269-925-1196 ex 4421	Email	kstack@bcroad.org
Engineer/Consultant (If applicable)	NA		
Phone Number	NA	Email	NA

Section 2. Project Information

Project Name/Road Name	Glendora Road		
Project Limits (e.g. Napier Ave. to Britain Ave.)	Garr Road to Burgoyne Road		
Project Length (nearest hundredth of a mile)	1.26	Proposed Year of Funding	Illustrative
Primary Work Type	<input type="checkbox"/> Reconstruct <input type="checkbox"/> Restore & Rehabilitate <input type="checkbox"/> Roadside Facility <input checked="" type="checkbox"/> Resurface <input type="checkbox"/> Traffic Operations/Safety <input type="checkbox"/> Transit <input type="checkbox"/> Other		
Project Description (Please provide major work items including sidewalks, utility work, ADA upgrades etc.)	HMA Trench & widen, Culvert Replacement, and Drainage Improvement		
Was this project applied for during the 2020-2023 Call for Projects but not selected	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Was this project awarded funding for the 2020-2023 TIP, but was either canceled or failed to be obligated	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please explain:		
If you are submitting multiple applications, please rank your applications by priority.	Project Rank: 4 of 6		

Section 3. Project Funding

Estimated Participating Cost of the Project	\$902119	
Federal STBG Requested	\$738384.40	81.85%
State D Requested	\$110000	12.19%
CTF (Transit Only)	\$	%
Local Funds	\$53734	5.95%
Total	\$902119	100%
Does your agency have the financial capacity to Advance Construct (AC) all or part of this project if necessary? If yes, what is the maximum dollar amount your agency is willing to Advance Construct (AC)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Maximum Dollar Amount you can AC? \$	
Can your agency supply additional match beyond the minimum required 18.15%. If so how much?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Amount \$100000	
Are there elements of the project that could be eligible for other federal fund sources such as CMAQ, TAP, Bridge etc.	Source: Amount: \$ Explanation: NA	
Will the project have nonparticipating work, such as water, or sewer work?	Amount: \$ Explain: NA	

Section 4. Regional Connectivity

What is the most current daily traffic count for the limits of this project?	AADT: 1200 Year of count: 2017 Source: BCRD
National Functional Classification (NFC) for this roadway	Major Collector
Is the project on an All Season Road	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Proposed All Season

Section 5. System Preservation

2021 PASER rating (Available 8-10-21)	3
Current state of drainage	<input checked="" type="checkbox"/> Adequate <input type="checkbox"/> Minor and tolerable drainage problems <input type="checkbox"/> Occasional drainage problems with some maintenance required <input type="checkbox"/> Inadequate, frequent flooding, excessive maintenance required
Expected increase in Remaining Service life (RSL)	20 Use MDOT's Guidelines for Geometrics on Local Projects
What MDOT guidelines does the project conform to?	<input type="checkbox"/> Reconstruction (4R) <input checked="" type="checkbox"/> Resurfacing, restoration, and Rehabilitation (3R) <input type="checkbox"/> Preventative Maintenance (PM)

Section 6. Safety

Please list the number and severity of crashes within the proposed project limits over the last 5 yrs. (2016-2020) (see [Michigan Crash Facts](#) for crash data)

Total Crashes	0	Pedestrian & Bicycle Crashes	0
Fatalities	0	Serious Injuries	0

Using the attached Crash Reduction Factors sheet, please check each safety counter measure that will be included in the project

Describe any other safety improvements this project will provide	Wider shoulder for increased recovery time and space. This roadway is on the Nuclear Evacuation Route for DC Cook Nuclear Power Plant. Has a weight restricted bridge
--	---

Section 7. Pedestrian and Bicycle Improvements

Please explain what pedestrian and/or bicycle facilities if any currently exist	None
Please explain any additional pedestrian and/or bicycle improvements included in the project.	None
Does this project connect to an existing pedestrian/bicycle facility or one that is planned to be completed before 2027	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please provide a map of the connecting facilities

Section 8. Strategic Planning & Investment

Is the project identified in an approved Asset Management Plan, or Capital Improvement Plan	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, please attach the plan.
Is the project identified in another approved planning document such as a master plan or parks and recreation plan	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please cite the plan and page number:
Is there an approved asset management plan covering the utilities along the project's limits	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No List utilities covered by the asset management plan:
Will this project coordinate with other infrastructure projects (i.e. utility, water, sewer, etc.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please indicate the project type and construction year:
How many water main breaks have you had at this location in the past five years?	0
Is there a completed utilities assessment that includes televising the sewers in the project area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	<input type="checkbox"/> Yes <input type="checkbox"/> No
Has staff received Asset Management training through the Michigan Transportation Asset Management Council? https://www.michigan.gov/tamc/0,7308,7-356-82158---,00.html	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Has your agency completed the Asset Management Readiness Scale from the Michigan Infrastructure Council (MIC)? https://fcm.ca/en/resources/mamp/tool-asset-management-readiness-scale	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Does the project cross jurisdictional boundaries?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, will it be bid as a single project?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Will this project require environmental mitigation, purchase of Right of Way (ROW), or railroad permits?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Sure If yes, which items are required:
If any of the above items are required please explain how they will be addressed	
Does this project perform Resurfacing, Reconstruction, or Preventative Maintenance on a segment adjacent to a segment that currently has a PASER of 7 or higher	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No List the adjacent segments that qualify: North Main

Section 9. Existing and Proposed Roadway Design

	Existing			Proposed		
Include the number of vehicle lanes	Through Traffic Lanes	Center Turn Lane	On Street Parking	Through Traffic Lanes	Center Turn Lane	On Street Parking
	2	0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2	0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Shoulder Surface	<input type="checkbox"/> Paved <input checked="" type="checkbox"/> Unpaved		Width (ft.) 3	<input checked="" type="checkbox"/> Paved <input type="checkbox"/> Unpaved		Width (ft.) 3
Sidewalk/ path information	Placement <input type="checkbox"/> One Side <input type="checkbox"/> Both Sides <input type="checkbox"/> Intermittent <input checked="" type="checkbox"/> None		Width (ft.)	Placement <input type="checkbox"/> One Side <input type="checkbox"/> Both Sides <input type="checkbox"/> Intermittent <input checked="" type="checkbox"/> None		Width (ft.)
On road bicycle facilities	<input type="checkbox"/> Bike Lane <input type="checkbox"/> Other (specify) _____ <input type="checkbox"/> Sharrows <input type="checkbox"/> Wide Shoulders <input checked="" type="checkbox"/> None			<input type="checkbox"/> Bike Lane <input type="checkbox"/> Other (specify) _____ <input type="checkbox"/> Sharrows <input checked="" type="checkbox"/> Wide Shoulders <input type="checkbox"/> None		
Utilities, Sewer and Water	<input type="checkbox"/> Utilities Upgrades Needed <input type="checkbox"/> Sewer and water work needed			<input type="checkbox"/> Replace Utilities <input type="checkbox"/> Relocate Utilities <input type="checkbox"/> Sewer and Water Line Work		
Please describe any improvements being made as part of this project to crosswalks, signage or signals, or streetscape elements not discussed in project description						
Does this project enhance connectivity of pedestrian or bicyclists to fixed route or Dial-A-Ride transit?			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, how?			

Section 10. Estimated Project Schedule

Activity	Estimated Date
Resolution of Support for <input checked="" type="checkbox"/> Local Match Submitted to SWMPC	NA
Project Application Submitted to MOT	NA
Grade Inspection Package Submitted to MDOT	NA
Grade Inspection Meeting Scheduled	NA
Final Plan and Estimate to MDOT	NA
Right of Way (ROW) certified*	NA
Rail Road Permits*	NA
Environmental Mitigation*	NA
Project Obligated	NA
Project Letting	NA
Construction Start	NA
Project Completion	NA

*Enter NA if these items will not be required.

	Proposed Improvement	% Reduction	Associated Crash Types
	SEGMENT CRASH REDUCTION FACTORS		
	Geometric Safety Enhancements		
<input type="checkbox"/>	Center Left-Turn Lane - Construct	80%	Rear-End Left-Turn
		50%	Head-On Left-Turn
		20%	Head-On, Angle, Sideswipe*
		15%	Non Left-Turn Rear-End, Other*
<input type="checkbox"/>	Right-Turn Lane - Construct	65%	Rear-End Right-Turn
		30%	Angle
		15%	Rear-End
		10%	Other*
<input type="checkbox"/>	Horizontal Curve Flattening	30%	Lane Departure***
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 1' each side)	5%	Lane Departure***
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 2' each side)	10%	Lane Departure***
<input checked="" type="checkbox"/>	Shoulders - Widen to Standard Width (add 3' each side)	15%	Lane Departure***
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 4' each side)	20%	Lane Departure***
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 5' each side)	25%	Lane Departure***
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 6' each side)	30%	Lane Departure***
<input type="checkbox"/>			
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 7' each side)	35%	Lane Departure***
<input type="checkbox"/>	Vertical Curve Modification	20%	All Applicable Crash Types +++
	General Segment Enhancements		
<input type="checkbox"/>	Access Management - Improve	15%	Drive-way Related Applicable Crashes
<input type="checkbox"/>	Centerline Rumble Strips - Install	44%	K and A injury Applicable Crashes
		46%	Single Vehicle Run off Road Left Crashes
		43%	Sideswipe Same Crashes
		55%	Sideswipe Opposite Crashes
<input type="checkbox"/>	High Friction Surface Treatment - Install	35%	Wet Crashes
		20%	All Other Applicable Crashes
<input type="checkbox"/>	Recessed Durable Pavement Markings	5%	All Applicable Crashes
<input type="checkbox"/>	Pedestrian Refuge - Install	50%	Pedestrian Crashes (Review NCHRP Report 841)
<input type="checkbox"/>	Road Diet (4-3 Lane Conversion) - Install	50%	Suburban - All Applicable Crashes
<input type="checkbox"/>	Shoulder Rumble Strips	20%	Run-Off the Road Right Crashes
<input type="checkbox"/>	Signing/Delineation on Horizontal Curves (Including Recessed Durable Pavement Markings) - Install	20%	Lane Departure***
<input type="checkbox"/>	Safety Edge Improvement	13%	All non-intersection crashes (CMF Clearing House ID 8658)

Roadside Enhancements			
<input type="checkbox"/>	Bicycle Lanes - Install per standards	50%	Bicycle Crashes
<input type="checkbox"/>	Shared Use Path - <i>Install</i>	33%	Bicycle and Pedestrian Related Crashes
<input type="checkbox"/>	Fixed Objects From Clearzone (Trees, Culverts, Etc.) - <i>Removal</i>	75%	Fixed-Object Applicable Crashes
<input checked="" type="checkbox"/>	Guardrail - <i>Install</i>	55%	Lane Departure ***Fatalities and "A" Injury Applicable Crashes
<input type="checkbox"/>	Sidewalk for Pedestrians - <i>Construct</i>	85%	Pedestrian Crashes
<input type="checkbox"/>	Slope Flattening	15%	Fixed-Object, Overturn Applicable Crashes
<input type="checkbox"/>	Living Snow Fence	20%	Crashes due to wintry surface conditions
<input type="checkbox"/>	Lighting - <i>install on segment</i>	20%	Dark Unlighted Crashes
INTERSECTION CRASH REDUCTION FACTORS			
Pedestrian / Bicycle Enhancements			
<input type="checkbox"/>	Bump Out / Curb Extension - <i>Remove Parking / Install</i>	30%	All Crashes
<input type="checkbox"/>	Bicycle Lanes - Install per standards	25%	Bicycle Crashes
<input type="checkbox"/>	Sidewalk for Pedestrians - <i>Construct</i>	85%	Pedestrian Crashes
<input type="checkbox"/>	Intersection Lighting - <i>install</i>	75%	Pedestrian Fatal - Dark Unlighted Crashes
		40%	Pedestrian A-Injury - Dark Unlighted Crashes
		30%	All Applicable Dark Unlighted Crashes
<input type="checkbox"/>	Rectangular Rapid Flashing Beacons	47%	Pedestrian Crashes
<input type="checkbox"/>	Ped. Countdown Signals - <i>Install new Pedestrian signal</i>	30%	Pedestrian Crashes
<input type="checkbox"/>	Ped. Countdown Signals - <i>Upgrade from existing Pedestrian signal</i>	25%	Pedestrian Crashes
Signal Timing / Hardware Enhancements			
<input type="checkbox"/>	Multiple Low-Cost Improvements	3%	Rear-End
		12%	Right-Angle
		3%	Nighttime
<input type="checkbox"/>	Install Reflectorized Backplates	15%	All Applicable Crashes
<input type="checkbox"/>	Add All-Red Clearance Interval - <i>Add per ITE</i>	20%	Head-On Left-Turn, Angle
<input type="checkbox"/>	Yellow-Change Interval - <i>Increase</i>	10%	All Crash Types
<input type="checkbox"/>	Box Span Signal - <i>Upgrade from Stop Control</i>	65%	Angle
		-25%	Rear-End (Increases Crashes)
		20%	All Other Non Rear-End Crashes
<input type="checkbox"/>	Box Span Signal - <i>Upgrade from Diagonal Span</i>	10%	All Applicable Crashes+
<input type="checkbox"/>	Protected Left-Turn Signal Phase - <i>Add</i>	30%	Left-Turn
<input type="checkbox"/>	Signal Head Size - <i>Increase to 12 "</i>	10%	All Applicable Crashes +
<input type="checkbox"/>	Signal Optimization & Timing Updates	10%	All Applicable Crashes +
<input type="checkbox"/>	Removing Night Flash from Signal Timing	50%	Nighttime Flash mode Related Crashes

Intersection Geometric Enhancements			
<input type="checkbox"/>	Center Left-Turn Lane - Construct	80%	Rear-End Left-Turn
		50%	Head-On Left-Turn
		20%	Head-On, Angle, Other
		15%	Non Left-Turn Rear-End
<input type="checkbox"/>	Intersection Improvements (Realignment, Sight-Distance Improvements, Radii Improvements, Etc.)	30%	Angle
		15%	Rear-End
		10%	Head-On, Sideswipe, Pedestrian, Bicycle, Left-Turn Related
<input type="checkbox"/>	Offset Left-Turn Lane - Construct	65%	Angle-Turn, Head-On Left-Turn
		20%	Rear-End Left-Turn
<input type="checkbox"/>	Offset Right-Turn Lane - Construct	65%	Angle-Turn
		50%	Other Applicable Crashes
		20%	Rear-End Right Turn
<input type="checkbox"/>	Right-Turn Lane - Construct	65%	Rear-End Right-Turn
		20%	Applicable Rear-End Crashes, Sideswipe Same Direction
<input type="checkbox"/>	Roundabout	78%	Fatal and A-Injury Reduction
		57%	Minor Crash Reduction
<input type="checkbox"/>	Lighting	-	See MDOT Interchange Warranted Lighting Guidance and overall MDOT Lighting Guidance
General Intersection Enhancements (Non-Signalized Intersections)			
<input type="checkbox"/>	All-Way Stop Control - New Installation	60%	All Applicable Crashes
<input type="checkbox"/>	Ground Mounted Flashing Beacons (Red)- Install **	30%	All Crashes On Install Approach
<input type="checkbox"/>	Ground Mounted Flashing Beacons(Amber) - Install **	20%	All Crashes On Install Approach
<input checked="" type="checkbox"/>	Signing - Improve/Upgrade	30%	Angle, Rear-End Crashes
<input checked="" type="checkbox"/>	Pavement Markings - Improve/Upgrade	30%	Angle, Rear-End Crashes
<input checked="" type="checkbox"/>	Reflective Sheeting on Sign Posts (lollipops)	15%	All Applicable Crashes

Rural Task Force Region Four 2024-2026 Road Project Application

Click "Enable Editing" to begin filling out this form. You may save this form at any time.

If you need assistance please contact Brandon Kovnat, SWMPC Associate Planner.

Email kovnatb@swmpc.org or call (269) 925-1137 x 1524

Section 1. Applicant Information

Agency Name	Berrien County Road Department		
Contact Name	Kevin Stack	Title	Engineering Supervisor
Phone Number	269-925-1196 ex 4421	Email	kstack@bcroad.org
Engineer/Consultant (If applicable)	NA		
Phone Number	NA	Email	NA

Section 2. Project Information

Project Name/Road Name	Cleveland Ave		
Project Limits (e.g. Napier Ave. to Britain Ave.)	Wagner Rd. to Glendora Rd		
Project Length (nearest hundredth of a mile)	1.51	Proposed Year of Funding	Illsutrative
Primary Work Type	<input checked="" type="checkbox"/> Reconstruct <input type="checkbox"/> Restore & Rehabilitate <input type="checkbox"/> Roadside Facility <input checked="" type="checkbox"/> Resurface <input type="checkbox"/> Traffic Operations/Safety <input type="checkbox"/> Transit <input type="checkbox"/> Other		
Project Description (Please provide major work items including sidewalks, utility work, ADA upgrades etc.)	HMA Trench & widen with guardrail upgrade. Wider shoulder for increased recovery time and space. This roadway is on the Nuclear Evcatuation Route for DC Cook Nuclear Power Plant.		
Was this project applied for during the 2020-2023 Call for Proejects but not selected	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Was this project awarded funding for the 2020-2023 TIP, but was either canceled or failed to be obligated	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please explain:		
If you are submitting multiple applications, please rank your applications by priority.	Project Rank: 5 of 6		

Section 3. Project Funding

Estimated Participating Cost of the Project	\$437802	
Federal STBG Requested	\$358341	81.85%
State D Requested	\$0	0%
CTF (Transit Only)	\$	%
Local Funds	\$79461	18.15%
Total	\$437802	100%
Does your agency have the financial capacity to Advance Construct (AC) all or part of this project if necessary? If yes, what is the maximum dollar amount your agency is willing to Advance Construct (AC)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Maximum Dollar Amount you can AC? \$	
Can your agency supply additional match beyond the minimum required 18.15%. If so how much?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Amount \$75000	
Are there elements of the project that could be eligible for other federal fund sources such as CMAQ, TAP, Bridge etc.	Source: Amount: \$ Explanation: NA	
Will the project have nonparticipating work, such as water, or sewer work?	Amount: \$ Explain: NA	

Section 4. Regional Connectivity

What is the most current daily traffic count for the limits of this project?	AADT: 2183 Year of count: 2017 Source: BCRD
National Functional Classification (NFC) for this roadway	Major Collector
Is the project on an All Season Road	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Proposed All Season

Section 5. System Preservation

2021 PASER rating (Available 8-10-21)	2
Current state of drainage	<input checked="" type="checkbox"/> Adequate <input type="checkbox"/> Minor and tolerable drainage problems <input type="checkbox"/> Occasional drainage problems with some maintenance required <input type="checkbox"/> Inadequate, frequent flooding, excessive maintenance required
Expected increase in Remaining Service life (RSL)	20 Use MDOT's Guidelines for Geometrics on Local Projects
What MDOT guidelines does the project conform to?	<input type="checkbox"/> Reconstruction (4R) <input checked="" type="checkbox"/> Resurfacing, restoration, and Rehabilitation (3R) <input type="checkbox"/> Preventative Maintenance (PM)

Section 6. Safety

Please list the number and severity of crashes within the proposed project limits over the last 5 yrs. (2016-2020) (see [Michigan Crash Facts](#) for crash data)

Total Crashes	7	Pedestrian & Bicycle Crashes	0
Fatalities	0	Serious Injuries	1

Using the attached Crash Reduction Factors sheet, please check each safety counter measure that will be included in the project

Describe any other safety improvements this project will provide	Wider shoulder for increased recovery time and space. This roadway is on the Nuclear Evcatuation Route for DC Cook Nuclear Power Plant.
--	---

Section 7. Pedestrian and Bicycle Improvements

Please explain what pedestrian and/or bicycle facilities if any currently exist	None
Please explain any additional pedestrian and/or bicycle improvements included in the project.	None
Does this project connect to an existing pedestrian/bicycle facility or one that is planned to be completed before 2027	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please provide a map of the connecting facilities

Section 8. Strategic Planning & Investment

Is the project identified in an approved Asset Management Plan, or Capital Improvement Plan	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, please attach the plan.
Is the project identified in another approved planning document such as a master plan or parks and recreation plan	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please cite the plan and page number:
Is there an approved asset management plan covering the utilities along the project's limits	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No List utilities covered by the asset management plan:
Will this project coordinate with other infrastructure projects (i.e. utility, water, sewer, etc.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please indicate the project type and construction year:
How many water main breaks have you had at this location in the past five years?	0
Is there a completed utilities assessment that includes televising the sewers in the project area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	<input type="checkbox"/> Yes <input type="checkbox"/> No
Has staff received Asset Management training through the Michigan Transportation Asset Management Council? https://www.michigan.gov/tamc/0,7308,7-356-82158---,00.html	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Has your agency completed the Asset Management Readiness Scale from the Michigan Infrastructure Council (MIC)? https://fcm.ca/en/resources/mamp/tool-asset-management-readiness-scale	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Does the project cross jurisdictional boundaries?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, will it be bid as a single project?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Will this project require environmental mitigation, purchase of Right of Way (ROW), or railroad permits?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Sure If yes, which items are required:
If any of the above items are required please explain how they will be addressed	
Does this project perform Resurfacing, Reconstruction, or Preventative Maintenance on a segment adjacent to a segment that currently has a PASER of 7 or higher	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No List the adjacent segments that qualify: Cleveland Ave and Wagner Rd

Section 9. Existing and Proposed Roadway Design

	Existing			Proposed		
Include the number of vehicle lanes	Through Traffic Lanes	Center Turn Lane	On Street Parking	Through Traffic Lanes	Center Turn Lane	On Street Parking
	2	0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2	0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Shoulder Surface	<input type="checkbox"/> Paved <input checked="" type="checkbox"/> Unpaved		Width (ft.) 6	<input checked="" type="checkbox"/> Paved <input type="checkbox"/> Unpaved		Width (ft.) 3
Sidewalk/ path information	Placement <input type="checkbox"/> One Side <input type="checkbox"/> Both Sides <input type="checkbox"/> Intermittent <input checked="" type="checkbox"/> None		Width (ft.)	Placement <input type="checkbox"/> One Side <input type="checkbox"/> Both Sides <input type="checkbox"/> Intermittent <input checked="" type="checkbox"/> None		Width (ft.)
On road bicycle facilities	<input type="checkbox"/> Bike Lane <input type="checkbox"/> Other (specify) _____ <input type="checkbox"/> Sharrows <input type="checkbox"/> Wide Shoulders <input checked="" type="checkbox"/> None			<input type="checkbox"/> Bike Lane <input type="checkbox"/> Other (specify) _____ <input type="checkbox"/> Sharrows <input checked="" type="checkbox"/> Wide Shoulders <input type="checkbox"/> None		
Utilities, Sewer and Water	<input type="checkbox"/> Utilities Upgrades Needed <input type="checkbox"/> Sewer and water work needed			<input type="checkbox"/> Replace Utilities <input type="checkbox"/> Relocate Utilities <input type="checkbox"/> Sewer and Water Line Work		
Please describe any improvements being made as part of this project to crosswalks, signage or signals, or streetscape elements not discussed in project description						
Does this project enhance connectivity of pedestrian or bicyclists to fixed route or Dial-A-Ride transit?			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, how?			

Section 10. Estimated Project Schedule

Activity	Estimated Date
Resolution of Support for <input checked="" type="checkbox"/> Local Match Submitted to SWMPC	NA
Project Application Submitted to MOT	NA
Grade Inspection Package Submitted to MDOT	NA
Grade Inspection Meeting Scheduled	NA
Final Plan and Estimate to MDOT	NA
Right of Way (ROW) certified*	NA
Rail Road Permits*	NA
Environmental Mitigation*	NA
Project Obligated	NA
Project Letting	NA
Construction Start	NA
Project Completion	NA

*Enter NA if these items will not be required.

	Proposed Improvement	% Reduction	Associated Crash Types
	SEGMENT CRASH REDUCTION FACTORS		
	Geometric Safety Enhancements		
<input type="checkbox"/>	Center Left-Turn Lane - Construct	80%	Rear-End Left-Turn
		50%	Head-On Left-Turn
		20%	Head-On, Angle, Sideswipe*
		15%	Non Left-Turn Rear-End, Other*
<input type="checkbox"/>	Right-Turn Lane - Construct	65%	Rear-End Right-Turn
		30%	Angle
		15%	Rear-End
		10%	Other*
<input type="checkbox"/>	Horizontal Curve Flattening	30%	Lane Departure***
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 1' each side)	5%	Lane Departure***
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 2' each side)	10%	Lane Departure***
<input checked="" type="checkbox"/>	Shoulders - Widen to Standard Width (add 3' each side)	15%	Lane Departure***
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 4' each side)	20%	Lane Departure***
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 5' each side)	25%	Lane Departure***
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 6' each side)	30%	Lane Departure***
<input type="checkbox"/>			
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 7' each side)	35%	Lane Departure***
<input type="checkbox"/>	Vertical Curve Modification	20%	All Applicable Crash Types +++
	General Segment Enhancements		
<input type="checkbox"/>	Access Management - Improve	15%	Drive-way Related Applicable Crashes
<input type="checkbox"/>	Centerline Rumble Strips - Install	44%	K and A injury Applicable Crashes
		46%	Single Vehicle Run off Road Left Crashes
		43%	Sideswipe Same Crashes
		55%	Sideswipe Opposite Crashes
<input type="checkbox"/>	High Friction Surface Treatment - Install	35%	Wet Crashes
		20%	All Other Applicable Crashes
<input type="checkbox"/>	Recessed Durable Pavement Markings	5%	All Applicable Crashes
<input type="checkbox"/>	Pedestrian Refuge - Install	50%	Pedestrian Crashes (Review NCHRP Report 841)
<input type="checkbox"/>	Road Diet (4-3 Lane Conversion) - Install	50%	Suburban - All Applicable Crashes
<input type="checkbox"/>	Shoulder Rumble Strips	20%	Run-Off the Road Right Crashes
<input type="checkbox"/>	Signing/Delineation on Horizontal Curves (Including Recessed Durable Pavement Markings) - Install	20%	Lane Departure***
<input type="checkbox"/>	Safety Edge Improvement	13%	All non-intersection crashes (CMF Clearing House ID 8658)

Roadside Enhancements			
<input type="checkbox"/>	Bicycle Lanes - Install per standards	50%	Bicycle Crashes
<input type="checkbox"/>	Shared Use Path - <i>Install</i>	33%	Bicycle and Pedestrian Related Crashes
<input type="checkbox"/>	Fixed Objects From Clearzone (Trees, Culverts, Etc.) - <i>Removal</i>	75%	Fixed-Object Applicable Crashes
<input checked="" type="checkbox"/>	Guardrail - <i>Install</i>	55%	Lane Departure ***Fatalities and "A" Injury Applicable Crashes
<input type="checkbox"/>	Sidewalk for Pedestrians - <i>Construct</i>	85%	Pedestrian Crashes
<input type="checkbox"/>	Slope Flattening	15%	Fixed-Object, Overturn Applicable Crashes
<input type="checkbox"/>	Living Snow Fence	20%	Crashes due to wintry surface conditions
<input type="checkbox"/>	Lighting - <i>install on segment</i>	20%	Dark Unlighted Crashes
INTERSECTION CRASH REDUCTION FACTORS			
Pedestrian / Bicycle Enhancements			
<input type="checkbox"/>	Bump Out / Curb Extension - <i>Remove Parking / Install</i>	30%	All Crashes
<input type="checkbox"/>	Bicycle Lanes - Install per standards	25%	Bicycle Crashes
<input type="checkbox"/>	Sidewalk for Pedestrians - <i>Construct</i>	85%	Pedestrian Crashes
<input type="checkbox"/>	Intersection Lighting - <i>install</i>	75%	Pedestrian Fatal - Dark Unlighted Crashes
		40%	Pedestrian A-Injury - Dark Unlighted Crashes
		30%	All Applicable Dark Unlighted Crashes
<input type="checkbox"/>	Rectangular Rapid Flashing Beacons	47%	Pedestrian Crashes
<input type="checkbox"/>	Ped. Countdown Signals - <i>Install new Pedestrian signal</i>	30%	Pedestrian Crashes
<input type="checkbox"/>	Ped. Countdown Signals - <i>Upgrade from existing Pedestrian signal</i>	25%	Pedestrian Crashes
Signal Timing / Hardware Enhancements			
<input type="checkbox"/>	Multiple Low-Cost Improvements	3%	Rear-End
		12%	Right-Angle
		3%	Nighttime
<input type="checkbox"/>	Install Reflectorized Backplates	15%	All Applicable Crashes
<input type="checkbox"/>	Add All-Red Clearance Interval - <i>Add per ITE</i>	20%	Head-On Left-Turn, Angle
<input type="checkbox"/>	Yellow-Change Interval - <i>Increase</i>	10%	All Crash Types
<input type="checkbox"/>	Box Span Signal - <i>Upgrade from Stop Control</i>	65%	Angle
		-25%	Rear-End (Increases Crashes)
		20%	All Other Non Rear-End Crashes
<input type="checkbox"/>	Box Span Signal - <i>Upgrade from Diagonal Span</i>	10%	All Applicable Crashes+
<input type="checkbox"/>	Protected Left-Turn Signal Phase - <i>Add</i>	30%	Left-Turn
<input type="checkbox"/>	Signal Head Size - <i>Increase to 12 "</i>	10%	All Applicable Crashes +
<input type="checkbox"/>	Signal Optimization & Timing Updates	10%	All Applicable Crashes +
<input type="checkbox"/>	Removing Night Flash from Signal Timing	50%	Nighttime Flash mode Related Crashes

Intersection Geometric Enhancements			
<input type="checkbox"/>	Center Left-Turn Lane - Construct	80%	Rear-End Left-Turn
		50%	Head-On Left-Turn
		20%	Head-On, Angle, Other
		15%	Non Left-Turn Rear-End
<input type="checkbox"/>	Intersection Improvements (Realignment, Sight-Distance Improvements, Radii Improvements, Etc.)	30%	Angle
		15%	Rear-End
		10%	Head-On, Sideswipe, Pedestrian, Bicycle, Left-Turn Related
<input type="checkbox"/>	Offset Left-Turn Lane - Construct	65%	Angle-Turn, Head-On Left-Turn
		20%	Rear-End Left-Turn
<input type="checkbox"/>	Offset Right-Turn Lane - Construct	65%	Angle-Turn
		50%	Other Applicable Crashes
		20%	Rear-End Right Turn
<input type="checkbox"/>	Right-Turn Lane - Construct	65%	Rear-End Right-Turn
		20%	Applicable Rear-End Crashes, Sideswipe Same Direction
<input type="checkbox"/>	Roundabout	78%	Fatal and A-Injury Reduction
		57%	Minor Crash Reduction
<input type="checkbox"/>	Lighting	-	See MDOT Interchange Warranted Lighting Guidance and overall MDOT Lighting Guidance
General Intersection Enhancements (Non-Signalized Intersections)			
<input type="checkbox"/>	All-Way Stop Control - New Installation	60%	All Applicable Crashes
<input type="checkbox"/>	Ground Mounted Flashing Beacons (Red)- Install **	30%	All Crashes On Install Approach
<input type="checkbox"/>	Ground Mounted Flashing Beacons(Amber) - Install **	20%	All Crashes On Install Approach
<input checked="" type="checkbox"/>	Signing - Improve/Upgrade	30%	Angle, Rear-End Crashes
<input checked="" type="checkbox"/>	Pavement Markings - Improve/Upgrade	30%	Angle, Rear-End Crashes
<input checked="" type="checkbox"/>	Reflective Sheeting on Sign Posts (lollipops)	15%	All Applicable Crashes

Rural Task Force Region Four 2024-2026 Road Project Application

Click “Enable Editing” to begin filling out this form. You may save this form at any time.

If you need assistance please contact Brandon Kovnat, SWMPC Associate Planner.

Email kovnatb@swmpc.org or call (269) 925-1137 x 1524

Section 1. Applicant Information

Agency Name	Berrien County Road Department		
Contact Name	Kevin Stack	Title	Engineering Supervisor
Phone Number	269-925-1196 ex 4421	Email	kstack@bcroad.org
Engineer/Consultant (If applicable)	NA		
Phone Number	NA	Email	NA

Section 2. Project Information

Project Name/Road Name	Lemon Creek Road		
Project Limits (e.g. Napier Ave. to Britain Ave.)	Jericho Road to Cleveland Avenue		
Project Length (nearest hundredth of a mile)	2.01	Proposed Year of Funding	Illustrative
Primary Work Type	<input checked="" type="checkbox"/> Reconstruct <input type="checkbox"/> Restore & Rehabilitate <input type="checkbox"/> Roadside Facility <input checked="" type="checkbox"/> Resurface <input type="checkbox"/> Traffic Operations/Safety <input type="checkbox"/> Transit <input type="checkbox"/> Other		
Project Description (Please provide major work items including sidewalks, utility work, ADA upgrades etc.)	HMA Trench & widen with guardrail upgrade. Wider shoulder for increased recovery time and space. This roadway is on the Nuclear Evacuation Route for DC Cook Nuclear Power Plant.		
Was this project applied for during the 2020-2023 Call for Projects but not selected	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Was this project awarded funding for the 2020-2023 TIP, but was either canceled or failed to be obligated	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please explain:		
If you are submitting multiple applications, please rank your applications by priority.	Project Rank: 6 of 6		

Section 3. Project Funding

Estimated Participating Cost of the Project	\$582770	
Federal STBG Requested	\$476997.24	81.85%
State D Requested	\$0	0%
CTF (Transit Only)	\$	%
Local Funds	\$105772.75	18.15%
Total	\$582770	100%
Does your agency have the financial capacity to Advance Construct (AC) all or part of this project if necessary? If yes, what is the maximum dollar amount your agency is willing to Advance Construct (AC)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Maximum Dollar Amount you can AC? \$	
Can your agency supply additional match beyond the minimum required 18.15%. If so how much?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Amount \$50000	
Are there elements of the project that could be eligible for other federal fund sources such as CMAQ, TAP, Bridge etc.	Source: Amount: \$ Explanation: NA	
Will the project have nonparticipating work, such as water, or sewer work?	Amount: \$ Explain: NA	

Section 4. Regional Connectivity

What is the most current daily traffic count for the limits of this project?	AADT: 1821 Year of count: 2016 Source: BCRD
National Functional Classification (NFC) for this roadway	Minor Collector
Is the project on an All Season Road	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Proposed All Season

Section 5. System Preservation

2021 PASER rating (Available 8-10-21)	4
Current state of drainage	<input checked="" type="checkbox"/> Adequate <input type="checkbox"/> Minor and tolerable drainage problems <input type="checkbox"/> Occasional drainage problems with some maintenance required <input type="checkbox"/> Inadequate, frequent flooding, excessive maintenance required
Expected increase in Remaining Service life (RSL)	20 Use MDOT's Guidelines for Geometrics on Local Projects
What MDOT guidelines does the project conform to?	<input type="checkbox"/> Reconstruction (4R) <input checked="" type="checkbox"/> Resurfacing, restoration, and Rehabilitation (3R) <input type="checkbox"/> Preventative Maintenance (PM)

Section 6. Safety

Please list the number and severity of crashes within the proposed project limits over the last 5 yrs. (2016-2020) (see [Michigan Crash Facts](#) for crash data)

Total Crashes	8	Pedestrian & Bicycle Crashes	0
Fatalities	0	Serious Injuries	0

Using the attached Crash Reduction Factors sheet, please check each safety counter measure that will be included in the project

Describe any other safety improvements this project will provide	Wider shoulder for increased recovery time and space. This roadway is on the Nuclear Evacuation Route for DC Cook Nuclear Power Plant.
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Section 7. Pedestrian and Bicycle Improvements

Please explain what pedestrian and/or bicycle facilities if any currently exist	None
Please explain any additional pedestrian and/or bicycle improvements included in the project.	None
Does this project connect to an existing pedestrian/bicycle facility or one that is planned to be completed before 2027	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please provide a map of the connecting facilities

Section 8. Strategic Planning & Investment

Is the project identified in an approved Asset Management Plan, or Capital Improvement Plan	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, please attach the plan.
Is the project identified in another approved planning document such as a master plan or parks and recreation plan	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please cite the plan and page number:
Is there an approved asset management plan covering the utilities along the project's limits	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No List utilities covered by the asset management plan:
Will this project coordinate with other infrastructure projects (i.e. utility, water, sewer, etc.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please indicate the project type and construction year:
How many water main breaks have you had at this location in the past five years?	0
Is there a completed utilities assessment that includes televising the sewers in the project area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	<input type="checkbox"/> Yes <input type="checkbox"/> No
Has staff received Asset Management training through the Michigan Transportation Asset Management Council? https://www.michigan.gov/tamc/0,7308,7-356-82158---,00.html	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Has your agency completed the Asset Management Readiness Scale from the Michigan Infrastructure Council (MIC)? https://fcm.ca/en/resources/mamp/tool-asset-management-readiness-scale	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Does the project cross jurisdictional boundaries?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, will it be bid as a single project?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Will this project require environmental mitigation, purchase of Right of Way (ROW), or railroad permits?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Sure If yes, which items are required:
If any of the above items are required please explain how they will be addressed	
Does this project perform Resurfacing, Reconstruction, or Preventative Maintenance on a segment adjacent to a segment that currently has a PASER of 7 or higher	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No List the adjacent segments that qualify: Cleveland Ave and Lemon Creek Road

Section 9. Existing and Proposed Roadway Design

	Existing			Proposed		
Include the number of vehicle lanes	Through Traffic Lanes	Center Turn Lane	On Street Parking	Through Traffic Lanes	Center Turn Lane	On Street Parking
	2	0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2	0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Shoulder Surface	<input type="checkbox"/> Paved <input checked="" type="checkbox"/> Unpaved		Width (ft.) 3	<input checked="" type="checkbox"/> Paved <input type="checkbox"/> Unpaved		Width (ft.) 4
Sidewalk/ path information	Placement <input type="checkbox"/> One Side <input type="checkbox"/> Both Sides <input type="checkbox"/> Intermittent <input checked="" type="checkbox"/> None		Width (ft.)	Placement <input type="checkbox"/> One Side <input type="checkbox"/> Both Sides <input type="checkbox"/> Intermittent <input checked="" type="checkbox"/> None		Width (ft.)
On road bicycle facilities	<input type="checkbox"/> Bike Lane <input type="checkbox"/> Other (specify) _____ <input type="checkbox"/> Sharrows <input type="checkbox"/> Wide Shoulders <input checked="" type="checkbox"/> None			<input type="checkbox"/> Bike Lane <input type="checkbox"/> Other (specify) _____ <input type="checkbox"/> Sharrows <input checked="" type="checkbox"/> Wide Shoulders <input type="checkbox"/> None		
Utilities, Sewer and Water	<input type="checkbox"/> Utilities Upgrades Needed <input type="checkbox"/> Sewer and water work needed			<input type="checkbox"/> Replace Utilities <input type="checkbox"/> Relocate Utilities <input type="checkbox"/> Sewer and Water Line Work		
Please describe any improvements being made as part of this project to crosswalks, signage or signals, or streetscape elements not discussed in project description						
Does this project enhance connectivity of pedestrian or bicyclists to fixed route or Dial-A-Ride transit?			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, how?			

Section 10. Estimated Project Schedule

Activity	Estimated Date
Resolution of Support for <input checked="" type="checkbox"/> Local Match Submitted to SWMPC	NA
Project Application Submitted to MOT	NA
Grade Inspection Package Submitted to MDOT	NA
Grade Inspection Meeting Scheduled	NA
Final Plan and Estimate to MDOT	NA
Right of Way (ROW) certified*	NA
Rail Road Permits*	NA
Environmental Mitigation*	NA
Project Obligated	NA
Project Letting	NA
Construction Start	NA
Project Completion	NA

*Enter NA if these items will not be required.

	Proposed Improvement	% Reduction	Associated Crash Types
	SEGMENT CRASH REDUCTION FACTORS		
	Geometric Safety Enhancements		
<input type="checkbox"/>	Center Left-Turn Lane - Construct	80%	Rear-End Left-Turn
		50%	Head-On Left-Turn
		20%	Head-On, Angle, Sideswipe*
		15%	Non Left-Turn Rear-End, Other*
<input type="checkbox"/>	Right-Turn Lane - Construct	65%	Rear-End Right-Turn
		30%	Angle
		15%	Rear-End
		10%	Other*
<input type="checkbox"/>	Horizontal Curve Flattening	30%	Lane Departure***
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 1' each side)	5%	Lane Departure***
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 2' each side)	10%	Lane Departure***
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 3' each side)	15%	Lane Departure***
<input checked="" type="checkbox"/>	Shoulders - Widen to Standard Width (add 4' each side)	20%	Lane Departure***
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 5' each side)	25%	Lane Departure***
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 6' each side)	30%	Lane Departure***
<input type="checkbox"/>			
<input type="checkbox"/>	Shoulders - Widen to Standard Width (add 7' each side)	35%	Lane Departure***
<input type="checkbox"/>	Vertical Curve Modification	20%	All Applicable Crash Types +++
	General Segment Enhancements		
<input type="checkbox"/>	Access Management - Improve	15%	Drive-way Related Applicable Crashes
<input type="checkbox"/>	Centerline Rumble Strips - Install	44%	K and A injury Applicable Crashes
		46%	Single Vehicle Run off Road Left Crashes
		43%	Sideswipe Same Crashes
		55%	Sideswipe Opposite Crashes
<input type="checkbox"/>	High Friction Surface Treatment - Install	35%	Wet Crashes
		20%	All Other Applicable Crashes
<input type="checkbox"/>	Recessed Durable Pavement Markings	5%	All Applicable Crashes
<input type="checkbox"/>	Pedestrian Refuge - Install	50%	Pedestrian Crashes (Review NCHRP Report 841)
<input type="checkbox"/>	Road Diet (4-3 Lane Conversion) - Install	50%	Suburban - All Applicable Crashes
<input type="checkbox"/>	Shoulder Rumble Strips	20%	Run-Off the Road Right Crashes
<input type="checkbox"/>	Signing/Delineation on Horizontal Curves (Including Recessed Durable Pavement Markings) - Install	20%	Lane Departure***
<input type="checkbox"/>	Safety Edge Improvement	13%	All non-intersection crashes (CMF Clearing House ID 8658)

Roadside Enhancements			
<input type="checkbox"/>	Bicycle Lanes - Install per standards	50%	Bicycle Crashes
<input type="checkbox"/>	Shared Use Path - <i>Install</i>	33%	Bicycle and Pedestrian Related Crashes
<input type="checkbox"/>	Fixed Objects From Clearzone (Trees, Culverts, Etc.) - <i>Removal</i>	75%	Fixed-Object Applicable Crashes
<input type="checkbox"/>	Guardrail - <i>Install</i>	55%	Lane Departure ***Fatalities and "A" Injury Applicable Crashes
<input type="checkbox"/>	Sidewalk for Pedestrians - <i>Construct</i>	85%	Pedestrian Crashes
<input type="checkbox"/>	Slope Flattening	15%	Fixed-Object, Overturn Applicable Crashes
<input type="checkbox"/>	Living Snow Fence	20%	Crashes due to wintry surface conditions
<input type="checkbox"/>	Lighting - <i>install on segment</i>	20%	Dark Unlighted Crashes
INTERSECTION CRASH REDUCTION FACTORS			
Pedestrian / Bicycle Enhancements			
<input type="checkbox"/>	Bump Out / Curb Extension - <i>Remove Parking / Install</i>	30%	All Crashes
<input type="checkbox"/>	Bicycle Lanes - Install per standards	25%	Bicycle Crashes
<input type="checkbox"/>	Sidewalk for Pedestrians - <i>Construct</i>	85%	Pedestrian Crashes
<input type="checkbox"/>	Intersection Lighting - <i>install</i>	75%	Pedestrian Fatal - Dark Unlighted Crashes
		40%	Pedestrian A-Injury - Dark Unlighted Crashes
		30%	All Applicable Dark Unlighted Crashes
<input type="checkbox"/>	Rectangular Rapid Flashing Beacons	47%	Pedestrian Crashes
<input type="checkbox"/>	Ped. Countdown Signals - <i>Install new Pedestrian signal</i>	30%	Pedestrian Crashes
<input type="checkbox"/>	Ped. Countdown Signals - <i>Upgrade from existing Pedestrian signal</i>	25%	Pedestrian Crashes
Signal Timing / Hardware Enhancements			
<input type="checkbox"/>	Multiple Low-Cost Improvements	3%	Rear-End
		12%	Right-Angle
		3%	Nighttime
<input type="checkbox"/>	Install Reflectorized Backplates	15%	All Applicable Crashes
<input type="checkbox"/>	Add All-Red Clearance Interval - <i>Add per ITE</i>	20%	Head-On Left-Turn, Angle
<input type="checkbox"/>	Yellow-Change Interval - <i>Increase</i>	10%	All Crash Types
<input type="checkbox"/>	Box Span Signal - <i>Upgrade from Stop Control</i>	65%	Angle
		-25%	Rear-End (Increases Crashes)
		20%	All Other Non Rear-End Crashes
<input type="checkbox"/>	Box Span Signal - <i>Upgrade from Diagonal Span</i>	10%	All Applicable Crashes+
<input type="checkbox"/>	Protected Left-Turn Signal Phase - <i>Add</i>	30%	Left-Turn
<input type="checkbox"/>	Signal Head Size - <i>Increase to 12 "</i>	10%	All Applicable Crashes +
<input type="checkbox"/>	Signal Optimization & Timing Updates	10%	All Applicable Crashes +
<input type="checkbox"/>	Removing Night Flash from Signal Timing	50%	Nighttime Flash mode Related Crashes

Intersection Geometric Enhancements			
<input type="checkbox"/>	Center Left-Turn Lane - Construct	80%	Rear-End Left-Turn
		50%	Head-On Left-Turn
		20%	Head-On, Angle, Other
		15%	Non Left-Turn Rear-End
<input type="checkbox"/>	Intersection Improvements (Realignment, Sight-Distance Improvements, Radii Improvements, Etc.)	30%	Angle
		15%	Rear-End
		10%	Head-On, Sideswipe, Pedestrian, Bicycle, Left-Turn Related
<input type="checkbox"/>	Offset Left-Turn Lane - Construct	65%	Angle-Turn, Head-On Left-Turn
		20%	Rear-End Left-Turn
<input type="checkbox"/>	Offset Right-Turn Lane - Construct	65%	Angle-Turn
		50%	Other Applicable Crashes
		20%	Rear-End Right Turn
<input type="checkbox"/>	Right-Turn Lane - Construct	65%	Rear-End Right-Turn
		20%	Applicable Rear-End Crashes, Sideswipe Same Direction
<input type="checkbox"/>	Roundabout	78%	Fatal and A-Injury Reduction
		57%	Minor Crash Reduction
<input type="checkbox"/>	Lighting	-	See MDOT Interchange Warranted Lighting Guidance and overall MDOT Lighting Guidance
General Intersection Enhancements (Non-Signalized Intersections)			
<input type="checkbox"/>	All-Way Stop Control - New Installation	60%	All Applicable Crashes
<input type="checkbox"/>	Ground Mounted Flashing Beacons (Red)- Install **	30%	All Crashes On Install Approach
<input type="checkbox"/>	Ground Mounted Flashing Beacons(Amber) - Install **	20%	All Crashes On Install Approach
<input checked="" type="checkbox"/>	Signing - Improve/Upgrade	30%	Angle, Rear-End Crashes
<input checked="" type="checkbox"/>	Pavement Markings - Improve/Upgrade	30%	Angle, Rear-End Crashes
<input checked="" type="checkbox"/>	Reflective Sheeting on Sign Posts (lollipops)	15%	All Applicable Crashes