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

Section 1. Applicant Information					
Agency Name	City of Colom	City of Coloma			
Contact Name	Marsha Hami	Marsha Hammond		Mayor	
Phone Number	2694686606		Email	colomacityhall@i2k.com	
Engineer/Consultant (If applicable)	sultant Merritt Midwest, Inc.				
Phone Number	2696379205		Email	rpirsein@merrittmidwest.com	

Section 2. Project Information				
Project Name/Road Name	South West Street Reconstruction			
Project Limits (e.g. Napier Ave. to Britain Ave.)	West St. Joseph Street to West Center Street			
Project Length (nearest hundredth of a mile)	.31 Proposed Year of Funding 2024			
Primary Work Type	X Reconstruct Restore & Rehabilitate Roadside Facility Resurface Traffic Operations/Safety Transit Other			
Project Description (Please provide major work items including sidewalks, utility work, ADA upgrades etc.)	South West Street Reconstruction project will include existing pavement removal, replacement of existing storm system, replacement of some curb, replacement of the municipal water and sewer lines(not inlcuded in this cost estimate), construction of new road subbase and surface.			
Was this project applied for during the 2020-2023 Call for Proejcts but not selected	Yes 🖾 No			
Was this project awarded funding for the 2020-2023 STIP, but was either canceled or failed to be obligated	Yes 🖾 No If yes, please explain:			
If you are submitting multiple applications, please rank your applications by priority.		Project Rank: 1 of 1		

Section 3. Project Funding			
Estimated Participating Cost of the Project	\$482,974.5		
Federal STBG Requested	\$385,000.00	79.71%%	
HIP COVID Relief Requested (2024 only)	\$	%	
Local Funds	\$97,974.50	20.29%	
Total	\$482,974.50	100%	
Does your agency have the financial capacity to Advance	🗆 Yes x No		
Construct (AC) all or part of this project if necessary? If	Maximum Dollar Amount you can AC?		
yes, what is the maximum dollar amount your agency is	\$		
willing to Advance Construct (AC)?			
Can your agency supply additional match beyond the	x Yes 🗆 No		
minimum required 18.15%. If so how much?	Amount \$10,314.63		
Are there elements of the project that could be eligible	Source: Amou	int: \$	
for other federal fund sources such as CMAQ, TAP,	Explanation:		
Bridge etc.			
Will the project have nonparticipating work, such as	Amount: \$ 426,200`.(00	
water, or sewer work?	Explain: Water and Se	ewer Replacement	

Section 4. Regional Connectivity	
What is the most current daily traffic count for the limits	AADT: 1500
of this project?	Year of count: 2015 Source: City of Coloma
National Functional Classification (NFC) for this roadway	Major Collector
Is the project on an <u>All Season Road</u>	Yes No Proposed All Season

Section 5. System Preservation	
2021 PASER rating Available as an <u>interactive map</u>	3
Current state of drainage	 Adequate Minor and tolerable drainage problems Occasional drainage problems with some maintenance required Inadequate, frequent flooding, excessive maintenance required
Expected increase in Remaining Service life (RSL)	20 years Use MDOT's <u>Guidelines for Geometrics on Local Projects</u>
What MDOT guidelines does the project conform to?	x Reconstruction (4R) Resurfacing, restoration, and Rehabilitation (3R) 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** Pedestrian & Bicycle 0 0 Crashes Fatalities Serious Injuries 0 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 School pick up and drop off lane will be added improvements this project will provide

Section 7. Pedestrian and Bicycle Improvements			
Please explain what pedestrian and/or bicycle facilities if any currently exist	A four foot sidewalk exists along the east side of South West Street		
Please explain any additional pedestrian and/or bicycle improvements included in the project.	Cross walks will be marked on asphalt		
Does this project connect to an existing pedestrian/bicycle facility or one that is planned to be completed before 2027	Yes No If yes, please provide a map of the connecting facilities		

Section 8. Strategic Planning & Investment	
Is the project identified in an approved Asset	Yes No
Management Plan, or Capital Improvement Plan	If yes, please attach the plan.
Is the project identified in another approved planning	Yes No
document such as a master plan or parks and recreation plan	If yes, please cite the plan and page number:
Is there an approved asset management plan covering	Yes No
the utilities along the project's limits	List utilities covered by the asset management plan:
Will this project coordinate with other infrastructure	🗌 Yes 🔀 No
projects (i.e. utility, water, sewer, etc.)?	If yes, please indicate the project type and
	construction year:
How many water main breaks have you had at this	10
location in the past five years:	
televising the sewers in the project area?	
	Yes No
Has staff received Asset Management training through	
the Michigan Transportation Asset Management	☐Yes ⊠No
Council? <u>https://www.michigan.gov/tamc/0,7308,7-</u> 356-82158 00 html	
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	
Does the project cross jurisdictional boundaries?	Yes 🛛 No
If yes, will it be bid as a single project?	Yes No 🛛 NA
Will this project require environmental mitigation,	🗌 Yes 🔀 No 🗌 Not Sure
purchase of Right of Way (ROW), or railroad permits?	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,	Yes X No
or Preventative Maintenance on a segment adjacent to a segment that currently has a PASER of 7 or higher	List the adjacent segments that quality:

Section 9. Existing and Proposed Roadway Design							
	Existing			Proposed			
Include the	Through	Center	On St	reet	Through	Center	On Street
number of	Traffic Lanes	Turn Lane	e Parkir	ng	Traffic Lanes	Turn Lane	Parking
vehicle lanes	2		Ye	s x No	2		🗆 Yes X No
Shoulder	Paved	,	Width (ft.)		Paved		Width (ft.)
Surface	Unpaved				Unpaved		
Sidewalk/ path	Placement	· ·	Width (ft.)		Placement		Width (ft.)
information	🔀 One Side	4	4		🗌 One Side		
	Both Sides				Both Sides	i	
	🗌 Intermittent		Intermitter		nt		
	None None				None		
On road bicycle	Bike Lane O		her (speci	fy)	Bike Lane	🔄 Othe	er (specify)
facilities	Sharrows		_		Sharrows		
	Wide Shoulders None			🔄 Wide Shou	Iders N	one	
Utilities, Sewer	Utilities Upgrades Needed			🛛 🖂 Replace U	tilities		
and Water	Sewer and	water wor	ork needed Reloca		Relocate U	tilities	
					Sewer and	Water Line V	Nork
Please describe ar	ny improvemen	ts being	SCHOOL C	ROSS WAL	.KS WILL BE REF	PLACED	
made as part of this project to							
crosswalks, signage or signals, or							
streetscape elements not discussed in		ed in					
project description							
Does this project enhance connectivity		tivity	🔄 Yes 🔀	No			
of pedestrian or bicyclists to fixed route		l route	If yes, how?				
or Dial-A-Ride transit?							

Section 10. Estimated Project Schedule	
Activity	Estimated Date
Resolution of Support for \Box Local Match Submitted to SWMPC	12/2023
Project Application Submitted to MOT	01/2024
Grade Inspection Package Submitted to MDOT	02/2024
Grade Inspection Meeting Scheduled	02/2024
Final Plan and Estimate to MDOT	03/2024
Right of Way (ROW) certified*	04/2024
Rail Road Permits*	NA
Environmental Mitigation*	NA
Project Obligated	04/2024
Project Letting	04/2024
Construction Start	6/2024
Project Completion	09/2024

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

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

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

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Section 1. Applicant Information					
Agency Name	City of Hartfo	City of Hartford			
Contact Name	Yemi Akinwale		Title	City Manager	
Phone Number	269-621-2477		Email	citymanager@cityofhartfordmi.org	
Engineer/Consultant (If applicable)		Mickey Bittner, Wight	man		
Phone Number	269-266-215	-266-2159		mbittner@gowightman.com	

Section 2. Project Information				
Project Name/Road Name	W. Main Street			
Project Limits (e.g. Napier Ave. to Britain Ave.)	West City Limits to Center Street			
Project Length (nearest hundredth of a mile)	0.50 Proposed Year of Funding 2026			
Primary Work Type	□ Reconstruct ⊠ Restore & Rehabilitate □ Roadside Facility □ Resurface □ Traffic Operations/Safety □ Transit □ Other			
Project Description (Please provide major work items including sidewalks, utility work, ADA upgrades etc.)	0.50 mi of two-course resurfacing with HMA cold milling, ADA ramp upgrades, HMA surfacing pavement markings, permanent signage, and restoration on W. Main Street from the west City Limits to Center Street in the City of Hartford. Van Buren County			
Was this project applied for during the 2020-2023 Call for Proejcts but not selected	Yes 🖾 No			
Was this project awarded funding for the 2020-2023 STIP, but was either canceled or failed to be obligated	Yes No If yes, please explain:			
If you are submitting multiple applications, please rank your applications by priority.		Project Rank: 1 of 2		

Section 3. Project Funding		
Estimated Participating Cost of the Project	\$465,000	
Federal STBG Requested	\$372,000	80%
HIP COVID Relief Requested (2024 only)	\$	%
Local Funds	\$93,000	20%
Total	\$465,000	100%
Does your agency have the financial capacity to Advance	🗆 Yes 🗵 No	
Construct (AC) all or part of this project if necessary? If	Maximum Dollar Amo	ount you can AC?
yes, what is the maximum dollar amount your agency is	\$	
willing to Advance Construct (AC)?		
Can your agency supply additional match beyond the	🗆 Yes 🖂 No	
minimum required 18.15%. If so how much?	Amount \$	
Are there elements of the project that could be eligible	Source: N/A Amount	:\$
for other federal fund sources such as CMAQ, TAP,	Explanation:	
Bridge etc.		
Will the project have nonparticipating work, such as	Amount: \$ 435,000	
water, or sewer work?	Explain: Water main	replacement

Section 4. Regional Connectivity				
What is the most current daily traffic count for the limits of this project?	AADT: 11,591 Year of count: 2013 Source: SWMPC			
National Functional Classification (NFC) for this roadway	Minor Arterial			
Is the project on an All Season Road	Yes No Proposed All Season			

Section 5. System Preservation	
2021 PASER rating Available as an <u>interactive map</u>	3-5
Current state of drainage	 Adequate Minor and tolerable drainage problems Occasional drainage problems with some maintenance required Inadequate, frequent flooding, excessive maintenance required
Expected increase in Remaining Service life (RSL)	15 years Use MDOT's <u>Guidelines for Geometrics on Local Projects</u>
What MDOT guidelines does the project conform to?	 Reconstruction (4R) Resurfacing, restoration, and Rehabilitation (3R) 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 <u>Michigan Crash Facts</u> for crash data)				
Total Crashes	11		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				ter measure that will be
Describe any other safety improvements this project will provide		nt markings, reflective shee ectivity requirements	ting on sign posts, new	

Section 7. Pedestrian and Bicycle Improvements		
Please explain what pedestrian and/or bicycle facilities if any currently exist	Sidewalks on both sides of the street	
Please explain any additional pedestrian and/or bicycle improvements included in the project.	ADA ramp upgrades as necessary	
Does this project connect to an existing pedestrian/bicycle facility or one that is planned to be completed before 2027	Yes 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	☐Yes ⊠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	Yes 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	Yes No List utilities covered by the asset management plan: Water Main, Sanitary Sewer, & Storm Sewer
Will this project coordinate with other infrastructure projects (i.e. utility, water, sewer, etc.)?	Yes X 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?	1
Is there a completed utilities assessment that includes televising the sewers in the project area?	Yes No
	Yes No
Has staff received Asset Management training through the Michigan Transportation Asset Management Council? <u>https://www.michigan.gov/tamc/0,7308,7-</u> <u>356-82158,00.html</u>	☐Yes ⊠No
Has your agency completed the Asset Management Readiness Scale from the Michigan Infrastructure Council (MIC)? <u>https://fcm.ca/en/resources/mamp/tool-asset-</u> <u>management-readiness-scale</u>	Yes 🖾 No
Does the project cross jurisdictional boundaries?	Yes 🛛 No
If yes, will it be bid as a single project?	☐ Yes ☐ No 🖾 NA
Will this project require environmental mitigation, purchase of Right of Way (ROW), or railroad permits?	Yes X No Not Sure If yes, which items are required:
If any of the above items are required please explain how they will be addressed	N/A
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	Yes No List the adjacent segments that qualify: N. Center Street

Section 9. Existing and Proposed Roadway Design								
	Existing				Proposed			
Include the	Through	Center		On Street	Tł	nrough	Center	On Street
number of	Traffic Lanes	Turn Lar	ne	Parking	Tr	affic Lanes	Turn Lane	Parking
vehicle lanes	2	0		🗆 Yes 🛛 No	2		0	🗆 Yes 🛛 No
Shoulder	Paved		Wi	dth (ft.)		Paved		Width (ft.)
Surface	🗌 Unpaved		N/A	A		Unpaved		N/A
Sidewalk/ path	Placement		Wi	dth (ft.)	Pl	acement		Width (ft.)
information	🗌 One Side		4'-5	5'		One Side		4'-5'
	🛛 🔟 Both Sides				\geq	Both Sides	;	
	🗌 🔄 Intermitte	nt		Intermittent		nt		
	🗌 None					None		
On road bicycle	🗌 🗌 Bike Lane 🔤 🗌		Othe	r (specify)		Bike Lane	🗌 Othe	er (specify)
facilities	Sharrows		_			Sharrows		
	📃 Wide Shoulders 🛛 🖄		🛛 No	one		Wide Shoເ	ulders 🔀 N	one
Utilities, Sewer	Utilities Upgrades Needed		ed		Replace Utilities			
and Water	Sewer and	water wo	ork needed Relocate Utilitie		tilities			
						Sewer and	Water Line V	Vork
Please describe ar	ny improvemen	ts being	N/A	4				
made as part of th	nis 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			If yes, how?					
or Dial-A-Ride transit?								

Section 10. Estimated Project Schedule	
Activity	Estimated Date
Resolution of Support for⊠ Local Match Submitted to SWMPC	09/28/2021
Project Application Submitted to MOT	08/2025
Grade Inspection Package Submitted to MDOT	08/2025
Grade Inspection Meeting Scheduled	09/2025
Final Plan and Estimate to MDOT	10/2025
Right of Way (ROW) certified*	08/2025
Rail Road Permits*	10/2025
Environmental Mitigation*	N/A
Project Obligated	10/2025
Project Letting	01/2026
Construction Start	06/2026
Project Completion	08/2026

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

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

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

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	City of Hartfo	City of Hartford					
Contact Name	Yemi Akinwa	le	Title	City Manager			
Phone Number	269-621-247	7	Email	citymanager@cityofhartfordmi.org			
Engineer/Consultant (If applicable) Mickey Bittner, Wigh			man				
Phone Number	269-266-215	9	Email	mbittner@gowightman.com			

Section 2. Project Information					
Project Name/Road Name	Marion Avenue				
Project Limits	W. Main Street to Pro	ospect Street			
(e.g. Napier Ave. to Britain Ave.)					
Project Length (nearest hundredth of a mile)	0.34 Proposed Year of Funding Illustrative				
Primary Work Type	Reconstruct Restore & Rehabilitate Roadside Facility Resurface Traffic Operations/Safety Transit Other				
Project Description (Please provide major work items including sidewalks, utility work, ADA upgrades etc.)					
Was this project applied for during the 2020-2023 Call for Proejcts but not selected	Yes 🖾 No				
Was this project awarded funding for the 2020-2023 STIP, but was either canceled or failed to be obligated	Yes No If yes, p	olease explain:			
If you are submitting multiple applications, please rank your applications by priority.		Project Rank: 2 of 2			

Section 3. Project Funding		
Estimated Participating Cost of the Project	\$575,000	
Federal STBG Requested	\$375,000	65%
HIP COVID Relief Requested (2024 only)	\$	%
Local Funds	\$200,000	35%
Total	\$575,000	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)?	□ Yes ⊠ No Maximum Dollar Amo \$	ount you can AC?
Can your agency supply additional match beyond the minimum required 18.15%. If so how much?	□ Yes ⊠ No Amount \$	
Are there elements of the project that could be eligible for other federal fund sources such as CMAQ, TAP, Bridge etc.	Source: N/A Amount Explanation:	:\$
Will the project have nonparticipating work, such as water, or sewer work?	Amount: \$ 350,000 Explain: Water Main sewer improvements	replacement and sanitary

Section 4. Regional Connectivity	
What is the most current daily traffic count for the limits of this project?	AADT: 200 Year of count: 2000 Source: TAMC
National Functional Classification (NFC) for this roadway	Major Collector
Is the project on an All Season Road	Yes No X Proposed All Season

Section 5. System Preservation					
2021 PASER rating Available as an <u>interactive map</u>	2				
Current state of drainage	 Adequate Minor and tolerable drainage problems Occasional drainage problems with some maintenance required Inadequate, frequent flooding, excessive maintenance required 				
Expected increase in Remaining Service life (RSL)	20 years Use MDOT's <u>Guidelines for Geometrics on Local Projects</u>				
What MDOT guidelines does the project conform to?	 Reconstruction (4R) Resurfacing, restoration, and Rehabilitation (3R) 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 <u>Michigan Crash Facts</u> 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			gs, reflective sheeting on sig	n posts, new signs		

Section 7. Pedestrian and Bicycle Improvements				
Please explain what pedestrian and/or bicycle facilities if any currently exist	Sidewalks on one side of the street for half of the project length			
Please explain any additional pedestrian and/or bicycle improvements included in the project.	ADA ramp upgrades as necessary			
Does this project connect to an existing pedestrian/bicycle facility or one that is planned to be completed before 2027	Yes 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	Yes 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	Yes 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	Yes No List utilities covered by the asset management plan: Water Main, Sanitary Sewer, & Storm Sewer
Will this project coordinate with other infrastructure projects (i.e. utility, water, sewer, etc.)?	Yes X 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?	3
Is there a completed utilities assessment that includes televising the sewers in the project area?	Yes No
	Yes No
Has staff received Asset Management training through the Michigan Transportation Asset Management Council? <u>https://www.michigan.gov/tamc/0,7308,7-</u> <u>356-82158,00.html</u>	☐Yes ⊠No
Has your agency completed the Asset Management Readiness Scale from the Michigan Infrastructure Council (MIC)? <u>https://fcm.ca/en/resources/mamp/tool-asset-</u> <u>management-readiness-scale</u>	Yes 🖾 No
Does the project cross jurisdictional boundaries?	Yes 🛛 No
If yes, will it be bid as a single project?	☐ Yes ☐ No 🛛 NA
Will this project require environmental mitigation, purchase of Right of Way (ROW), or railroad permits?	Yes No Not Sure If yes, which items are required:
If any of the above items are required please explain how they will be addressed	N/A
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	Yes No List the adjacent segments that qualify: Prospect Street

Section 9. Existing and Proposed Roadway Design								
	Exist			ing		Proposed		
Include the	Through	Center	On Street		Th	rough	Center	On Street
number of	Traffic Lanes	Turn La	ne	Parking	Tr	affic Lanes	Turn Lane	Parking
vehicle lanes	2 0			🗆 Yes 🛛 No	2		0	🗆 Yes 🛛 No
Shoulder	Paved		Wi	dth (ft.)		Paved		Width (ft.)
Surface	Unpaved		N//	Α		Unpaved		N/A
Sidewalk/ path	Placement		Wi	dth (ft.)	Pla	acement		Width (ft.)
information	🔀 One Side		4'-5	5'	\square	One Side		4'-5'
	🗌 🗌 Both Sides					Both Sides	;	
	🗌 🗌 Intermitte	nt				Intermittent		
	None None					None		
On road bicycle	🗌 🗌 Bike Lane 🔤 🕻		Othe	r (specify)		Bike Lane Other (specify)		
facilities	Sharrows		_			Sharrows		
	Wide Shoulders		<u>N</u>	one		_ Wide Shoເ	ulders 🖂 N	one
Utilities, Sewer	Utilities Upgrades N		Needed			Replace Utilities		
and Water	Sewer and	water wo	ork needed			Relocate Utilities		
						Sewer and	Water Line V	Vork
Please describe ar	ny improvemen	ts being	N//	4				
made as part of this project to								
crosswalks, signage or signals, or								
streetscape elements not discussed in								
project description								
Does this project enhance connectivity				Yes 🖄 No				
of pedestrian or bicyclists to fixed route			lf y	es, how?				
or Dial-A-Ride transit?								

Section 10. Estimated Project Schedule	
Activity	Estimated Date
Resolution of Support for \Box Local Match Submitted to SWMPC	10/26/2021
Project Application Submitted to MOT	08/2025
Grade Inspection Package Submitted to MDOT	08/2025
Grade Inspection Meeting Scheduled	09/2025
Final Plan and Estimate to MDOT	10/2025
Right of Way (ROW) certified*	08/2025
Rail Road Permits*	10/2025
Environmental Mitigation*	N/A
Project Obligated	10/2025
Project Letting	01/2026
Construction Start	04/2026
Project Completion	09/2026

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

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

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

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Section 1. Applicant Information						
Agency Name	Van Buren Co	Van Buren County Road Commission				
Contact Name	Barry Anttila		Title	Highway Engineer		
Phone Number	269-674-801	1	Email	barryanttila@vbcrc.org		
Engineer/Consultant (If applicable)						
Phone Number			Email			

Section 2. Project Information					
Project Name/Road Name	Red Arrow Hwy	Red Arrow Hwy			
Project Limits (e.g. Napier Ave. to Britain Ave.)	Hartford Village limits to 59.5 St				
Project Length (nearest hundredth of a mile)	1.78 Proposed Year of Funding 2024				
Primary Work Type	□ Reconstruct □ Restore & Rehabilitate □ Roadside Facility ⊠ Resurface □ Traffic Operations/Safety □ Transit □ Other				
Project Description (Please provide major work items including sidewalks, utility work, ADA upgrades etc.)	Milling HMA surface, HMA paving, curb and gutter, guardrail, signage and pavement markings.				
Was this project applied for during the 2020-2023 Call for Proejcts but not selected	Yes No				
Was this project awarded funding for the 2020-2023 STIP, but was either canceled or failed to be obligated	Yes No If yes, please explain:				
If you are submitting multiple app rank your applications by priority.	lications, please	Project Rank: 1 of 4			

Section 3. Project Funding			
Estimated Participating Cost of the Project	\$750,000		
Federal STBG Requested	\$600,000	80%	
HIP COVID Relief Requested (2024 only)	\$	%	
Local Funds	\$150,000	20%	
Total	\$750,000	100%	
Does your agency have the financial capacity to Advance	🛛 Yes 🗆 No	·	
Construct (AC) all or part of this project if necessary? If	Maximum Dollar Amount you can AC?		
yes, what is the maximum dollar amount your agency is	\$ 375,000		
willing to Advance Construct (AC)?			
Can your agency supply additional match beyond the	🖾 Yes 🗆 No		
minimum required 18.15%. If so how much?	Amount \$300,000		
Are there elements of the project that could be eligible	Source: Amou	ınt: \$	
for other federal fund sources such as CMAQ, TAP,	Explanation:		
Bridge etc.			
Will the project have nonparticipating work, such as	Amount: \$		
water, or sewer work?	Explain:		

Section 4. Regional Connectivity						
What is the most current daily traffic count for the limits of this project?	AADT: 3858 Year of count: 2021 Source: VBCRC					
National Functional Classification (NFC) for this roadway	Minor Arterial					
Is the project on an All Season Road	Yes No Proposed All Season					

Section 5. System Preservation	
2021 PASER rating Available as an <u>interactive map</u>	2
Current state of drainage	 Adequate Minor and tolerable drainage problems Occasional drainage problems with some maintenance required Inadequate, frequent flooding, excessive maintenance required
Expected increase in Remaining Service life (RSL)	7-9 yrs Use MDOT's <u>Guidelines for Geometrics on Local Projects</u>
What MDOT guidelines does the project conform to?	 Reconstruction (4R) Resurfacing, restoration, and Rehabilitation (3R) 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 <u>Michigan Crash Facts</u> for crash data)					
Total Crashes	23		Pedestrian & Bicycle Crashes	1	
Fatalities	1		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		Replacing the two	sections of guardrail along	the roadway.	

Section 7. Pedestrian and Bicycle Improvements				
Please explain what pedestrian and/or bicycle facilities if any currently exist	No pedestrian or bicycle facilities exist.			
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	Yes 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	Yes 🕅 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	Yes 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	Yes No List utilities covered by the asset management plan:
Will this project coordinate with other infrastructure projects (i.e. utility, water, sewer, etc.)?	Yes 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?	Yes 🛛 No
	Yes No
Has staff received Asset Management training through the Michigan Transportation Asset Management Council? <u>https://www.michigan.gov/tamc/0,7308,7-</u> <u>356-82158,00.html</u>	Yes No
Has your agency completed the Asset Management Readiness Scale from the Michigan Infrastructure Council (MIC)? <u>https://fcm.ca/en/resources/mamp/tool-asset-</u> <u>management-readiness-scale</u>	Yes 🖾 No
Does the project cross jurisdictional boundaries?	🗌 Yes 🔀 No
If yes, will it be bid as a single project?	Yes No NA
Will this project require environmental mitigation, purchase of Right of Way (ROW), or railroad permits?	Yes No 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	Yes X No List the adjacent segments that qualify:

Section 9. Existing and Proposed Roadway Design								
	Existing				Proposed			
Include the	Through	Center		On Street	Through	Center	On Street	
number of	Traffic Lanes	Turn Lar	urn Lane Parking		Traffic Lanes	Turn Lane	Parking	
vehicle lanes	2 0			🗆 Yes 🛛 No	2	0	🗆 Yes 🛛 No	
Shoulder	🛛 Paved		Wi	dth (ft.)	🛛 Paved		Width (ft.)	
Surface	🔀 Unpaved		8		🔀 Unpaved		8	
Sidewalk/ path	Placement		Wi	dth (ft.)	Placement		Width (ft.)	
information	🗌 One Side				🗌 One Side			
	Both Sides				Both Sides	🗌 Both Sides		
	🔄 Intermitte	nt			Intermittent			
None 🛛			None					
On road bicycle	Bike Lane		Other (specify)		Bike Lane Other (specify)			
facilities	Sharrows		_		Sharrows			
	📃 Wide Shoເ	ılders ▷	<] No	one	Wide Shoulders 🔀 None			
Utilities, Sewer	Utilities Up	grades N	eede	ed	Replace U	Replace Utilities		
and Water	Sewer and	water wo	ork needed Relocate Utilities					
					Sewer and	Water Line V	Vork	
Please describe ar	ny improvemen	ts being	No	ne				
made as part of this project to								
crosswalks, signage or signals, or								
streetscape elements not discussed in								
project description				<u> </u>				
Does this project enhance connectivity			Yes 🖄 No					
of pedestrian or bicyclists to fixed route			lf y	es, how?				
or Dial-A-Ride transit?								

Section 10. Estimated Project Schedule	
Activity	Estimated Date
Resolution of Support for \Box Local Match Submitted to SWMPC	9/1/2021
Project Application Submitted to MOT	June 2023
Grade Inspection Package Submitted to MDOT	August 2023
Grade Inspection Meeting Scheduled	September 2023
Final Plan and Estimate to MDOT	October 2023
Right of Way (ROW) certified*	n/a
Rail Road Permits*	n/a
Environmental Mitigation*	n/a
Project Obligated	December 2023
Project Letting	March 2024
Construction Start	May 2024
Project Completion	June 2024

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

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

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