TwinCATS 2020-2023 Road Project Prioritization System

Project Name: Empire Ave. Agency: City of Benton Haibor

Total Points: 32 Proposed Year: 202)

Criteria	Points	
System Preservation	18 points max	
a. Most recent PASER rating	naval el Tallo	
3-4	10	ina End
5-6	8	
1-2	5	5
b. Extension of Remaining Service Life (RSL) based on MDOT Geometric Guidelines	perton referri	
Extends RSL by 15 years or more (4R project)	8	8
Extends RSL by 10-14 years (3R Project)	6	144 s.
Extends RSL by 5-9 years (Preventative Maintenance)	4	×2
Extends RSL by 2-4 years (Preventative Maintenance)	2	
Safety	7 points max	
a. Expected Crash Reduction - Based on MDOT approved Crash Reduction Factors	riginah datai	17.6
50% or greater	5	
40%-49.9%	4	Maria de la companya della companya de la companya de la companya della companya
30% - 39.9%	3	
20% - 29.9%	2	431/1=0
10% - 19.9%	1	707718
Less than 10%	0	0
b. Addressing High Crash Locations.		
Number of crashes is 20% higher than MPO median (4 or more)	2	
Number of crashes are within 20% of MPO median (2-3)	1	1
Number of crashes is lower than 20% of the MPO median (0-1)	0	2,423
Non-motorized Transportation / Complete Streets	6 points max	
a. Follows the Complete Streets Policy	4	4
b. Pedestrian and bicycle elements of the project connect to existing bicycle and pedestrian facilities or those that can reasonably expect to be completed between 2019 and 2023.	2	2

Criteria	Points	
Regional Connectivity	10 points max	
a. Average daily traffic (ADT) based on most recent traffic count		je .
ADT is 10,000 or more	5	
ADT is 5,000 – 9,999	4	
ADT is 2,000 – 4,999	3	3
ADT is less than 2,000	0	
b. Functional Classification of the Road		
Principal Arterial	3	
Minor Arterial	2	2
Major Collector	1	-
Minor Collector	0	
c. Fixed route transit (TCATA Red or Blue line) uses the road	2	2
	'sh-onetsi	
Strategic Investment/ Project Planning	11 points max	
THE STATE OF THE PROPERTY OF T		
a. Project is identified in an Asset Management or Capital Improvement Plan	3	3
<ul><li>a. Project is identified in an Asset Management or Capital Improvement Plan</li><li>b. Project is identified as a priority in another planning document such as a master plan or parks and recreation plan</li></ul>	1	3
b. Project is identified as a priority in another planning document such as a master plan		3
<ul> <li>b. Project is identified as a priority in another planning document such as a master plan or parks and recreation plan</li> <li>c. Project crosses jurisdictional boundaries (i.e. city to township) and is arranged in such</li> </ul>	1	3
<ul> <li>b. Project is identified as a priority in another planning document such as a master plan or parks and recreation plan</li> <li>c. Project crosses jurisdictional boundaries (i.e. city to township) and is arranged in such a way to be bid as a single project.</li> <li>d. Project continues resurfacing, reconstruction, or preventative maintenance on a segment of roadway adjacent to a project completed during the 2017-2020 TIP cycle or</li> </ul>	1	3
<ul> <li>b. Project is identified as a priority in another planning document such as a master plan or parks and recreation plan</li> <li>c. Project crosses jurisdictional boundaries (i.e. city to township) and is arranged in such a way to be bid as a single project.</li> <li>d. Project continues resurfacing, reconstruction, or preventative maintenance on a segment of roadway adjacent to a project completed during the 2017-2020 TIP cycle or through Rural Task Force funding.</li> </ul>	1	3
<ul> <li>b. Project is identified as a priority in another planning document such as a master plan or parks and recreation plan</li> <li>c. Project crosses jurisdictional boundaries (i.e. city to township) and is arranged in such a way to be bid as a single project.</li> <li>d. Project continues resurfacing, reconstruction, or preventative maintenance on a segment of roadway adjacent to a project completed during the 2017-2020 TIP cycle or through Rural Task Force funding.</li> <li>e. Additional Local Match</li> </ul>	1 1 2	3
<ul> <li>b. Project is identified as a priority in another planning document such as a master plan or parks and recreation plan</li> <li>c. Project crosses jurisdictional boundaries (i.e. city to township) and is arranged in such a way to be bid as a single project.</li> <li>d. Project continues resurfacing, reconstruction, or preventative maintenance on a segment of roadway adjacent to a project completed during the 2017-2020 TIP cycle or through Rural Task Force funding.</li> <li>e. Additional Local Match</li> <li>Agency will proved 40% or more local match</li> </ul>	1 1 2	3
<ul> <li>b. Project is identified as a priority in another planning document such as a master plan or parks and recreation plan</li> <li>c. Project crosses jurisdictional boundaries (i.e. city to township) and is arranged in such a way to be bid as a single project.</li> <li>d. Project continues resurfacing, reconstruction, or preventative maintenance on a segment of roadway adjacent to a project completed during the 2017-2020 TIP cycle or through Rural Task Force funding.</li> <li>e. Additional Local Match  Agency will proved 40% or more local match  Agency will provide 30% to 39.9% local match</li> </ul>	1 1 2	3
b. Project is identified as a priority in another planning document such as a master plan or parks and recreation plan  c. Project crosses jurisdictional boundaries (i.e. city to township) and is arranged in such a way to be bid as a single project.  d. Project continues resurfacing, reconstruction, or preventative maintenance on a segment of roadway adjacent to a project completed during the 2017-2020 TIP cycle or through Rural Task Force funding.  e. Additional Local Match  Agency will proved 40% or more local match  Agency will provide 30% to 39.9% local match  Note: An 18.15% local match is the minimum required	1 1 2 4	3
b. Project is identified as a priority in another planning document such as a master plan or parks and recreation plan  c. Project crosses jurisdictional boundaries (i.e. city to township) and is arranged in such a way to be bid as a single project.  d. Project continues resurfacing, reconstruction, or preventative maintenance on a segment of roadway adjacent to a project completed during the 2017-2020 TIP cycle or through Rural Task Force funding.  e. Additional Local Match  Agency will proved 40% or more local match  Agency will provide 30% to 39.9% local match  Note: An 18.15% local match is the minimum required  Project Readiness (no points)	1 1 2 4 2 Yes	3

## Twin Cities Area Transportation Study 2020-2023 Transportation Improvement Program (TIP) Federal Surface Transportation Block Grant Funds **Project Application**

Click Enable Editing	to begin fillin	ig out this form. You	may save thi	s form at any time.
Section 1. Applic	cant Informat	tion		
Agency Name	City of Bento	n Harbor	720.00	
Contact Name	Darwin Wats	on	Title	City Manager
Phone Number	(269)927-840	00	Email	dwatson@cityofbentonharbormi.gov
		Carlos Anno Lorenza		
Section 2. Projec	t Informatio	n		
Project Name/Road	d Name	Empire Avenue		

Section 2. Project Informatio	n						
Project Name/Road Name	Empire Avenue						
Project Limits	Pipestone Road to East	t City Limits	estatores de la companya de la comp				
(e.g. Napier Ave. to Britain Ave.)	August 1						
Project Length (nearest	0.20 Mile Proposed Year of Funding 2021						
hundredth of a mile)							
Primary Work Type	☐ Reconstruct ☐ Restore & Rehabilitate ☐ Roadside Facility						
Filliary Work Type	☐ Resurface ☐ Traffic Operations/Safety ☐ Other						
Project Description	The proposed work inc	ludes reconstruction of road	way with storm				
(Please provide major work	replacement, and side	walk and ramp replacement					
items including sidewalks, utility							
work, ADA upgrades etc.)	,	i det i					
Was this project awarded	Yes No If yes, please explain:						
funding for the 2017-2020 TIP,							
but was either canceled or failed							
to be obligated							

Section 3. Project Funding	
Federal Funding Requested	\$ 393,400.00
Local Match (18.15% minimum)	\$ 168,600.00
Total	\$ 562,000.00
Local Match Percentage (local match/total cost)	30%
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 Amount you can AC? \$

Section 4. System Prese	ervation						
2018 PASER rating (availibe excel file)	e as an 2						
Current state of drainage		Adequate  ☐ Minor and tolerable drainage problems  ☐ Occasional drainage problems with some maintenance required ☐ Inadequate drainage, frequent flooding, excessive maintenance required ☐ O-3 years ☐ 4-6 ☐ 7-9 ☐ 10-14 ☑ 15-20					
Expected increase in Rema Service life (RSL)	ining 0						
What MDOT guidelines do project conform to?	es the 🔲 R	<ul> <li>□ Reconstruction (4R)</li> <li>□ Resurfacing, restoration, and Rehabilitation (3R)</li> <li>□ Preventative Maintenance (PM)</li> </ul>					
Section 5. Safety	:		ad music at liveits	a ayan tha last E yes			
Please list the number and (2013-2017) (see Michiga	severity of crashe an Crash Facts for		ea project iimits	over the last 5 yrs.			
Total Crashes	3		ın & Bicycle	1			
Fatalities	0	Serious II	njuries	0			
Using the attached Crash Rincluded in the project Describe any other safety improvements this project provide		sheet, please check	each safety cou	inter measure that will be			
Section 6. Complete St	reets						
Does this project meet the approved in 2014?		ete Streets Policy,	Xes N	lo			
If yes, Please explain what and/or bicycle improveme				vement markings including pdated for pedestrians and			
If No, please state the reas project should be exempt TwinCATS Complete Street	from the		v				

B	
Does this project connect to an existing pedestrian/bicycle facility or one that is	No
planned to be completed from 2020-2023? If yes, plea	ase provide a map of the connecting facilities
Section 7. Regional Connectivity	
What is the most current daily traffic count for the limits	
of this project?	5000-10,000 Above 10,000
	Year of count: 2014 Source: MDOT
National Functional Classification (NFC) for this roadway	Minor Arterial
(Berrien County NFC Map)	
Does one of <u>TCATA fixed route transit lines</u> use the road	r
(Only indicate yes if it carries a current route, not a planned route).	Maes Tino
planned route).	
Section 8. Strategic Planning & Investment	
Is the project identified in a Asset Management Plan,	⊠Yes
or Capital Improvement Plan	If yes, please cite the plan and page number:
	Streets Asset Management Plan
	and the second s
Is the project identified in another planning documents	☐Yes ☑No
such as a master plan or parks and recreation plan	If yes, please cite the plan and page number:
	and have been so their high an armon
Doos the project eross jurisdictional houndaries?	Yes No
Does the project cross jurisdictional boundaries?	
If yes, will it be bid as a single project?	Yes No NA
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	0
location in the past five years?	
Is there a completed a utilities assessment that	⊠ Yes No
included televising the sewers in the project area?	
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:
	as attempted with the south account of
Does this project perform Resurfacing, Reconstruction,	☐ Yes ⊠ No
or Preventative Maintenance on a segment adjacent to	What segment was the PREVIOUS project done
a segment where a federally-funded project was done	on?
during the 2017-2020 TwinCATS TIP cycle or RTF cycle?	e de la companya de l

Section 9. Existing and Proposed Roadway Design									
	nimenena erish	Existir	ng	Proposed					
Number of	Through	Center	On Street	Through	Center	On Street			
Vehicle Lanes	Traffic Lanes	Turn Land	e Parking	Traffic Lanes	Turn Lane	Parking			
001	e-coosyxy dea	Z ment 229	U CONTRACTOR						
080,03 TOGM ==	2	0	☐ Yes ⊠ No	2	0	☐ Yes ⊠ No			
Shoulder	Paved		Width (ft.)	Paved		Width (ft.)			
Surface	☐ Unpaved		2'-curb&gutter	Unpaved		2'-curb&gutter			
Sidewalk/ path	Placement		Width (ft.)	Placement		Width (ft.)			
information	One Side		4.5'	One Side		5'			
	Both Sides	1		Both Sides					
	Intermitte	nt		Intermitte None	ent				
On road bicycle	None Bike Lane		ther (specify)	Bike Lane	Othe	l er (specify)			
facilities	Sharrows		ther (specify)	Sharrows		i (specify)			
			_ None	Wide Show	ulders N	one			
Utilities, Sewer Utilities Upgrades N				Replaced	Utilities				
					Utilities				
Sew					ewer and Water Line Work				
Please describe an	ny improvemen	ts being	Replacement of pe	rmanent signage	e and updatin	g of pavement			
made as part of th			markings						
crosswalks, signag									
streetscape eleme		sed in							
project descriptio	n	EXTON F							
Does this project	enhance conne	ctivity	☐Yes ⊠No						
of pedestrian or b			If yes, how?						
or Dial-A-Ride tra	nsit?				9				
Continue 10 Fati	inacted Ducies	st Cabadu	lo .						
Section 10. Esti	mated Projec	t Scheau	ie	F	stimated Date	a -			
St. Del Colonia de	nort for□ Loca	l Match Su	bmitted to SWMPC		ugust 2020				
Project Application					ugust 2020				
Grade Inspection			OT	S	eptember 20	20			
Grade Inspection	Meeting Sched	uled		C	october 2020				
Final Plan and Estimate to MDOT			r F		November 2020				
Right of Way (ROW) certified*					lovember 202	20			
Rail Road Permits*					I/A				
Environmental M					I/A	-			
Project Obligated					ecember 202				
Project Letting					ebruary 2021				
Construction Star					pril 2021 uly 2021				
Project Completic	Project Completion								



Project Name: Project Number:

Benton Harbor TIP - Empire Ave

LIMAL

Prepared By: Date:

Friday, November 30, 2018

Description:

Preliminary Engineer's Estimate - Pipestone Rd to East City limits

Miscellaneous Quantities

Item	Quantity	Unit	Unit Cost	1	Item Cost
Mobilization	1	LS	\$ 45,000.00	\$	45,000.00
Subtotal:				\$	45,000.00

Removals

Item	Quantity	Unit	U	nit Cost	1	Item Cost
Sidewalk, Rem	175	Syd	\$	6.00	\$	1,050.00
Pavt, Rem	3750	Syd	\$	8.00	\$	30,000.00
Curb and Gutter, Rem	150	Ft	\$	9.00	\$	1,350.00
Dr Structure, Rem	13	Ea	\$	350.00	\$	4,550.00
Sewer, Rem, Less than 24 inch	1155	Ft	\$	15.00	\$	17,325.00
Subtotal:				7 14	\$	54,275.00

Roadway-Pipestone Road

ltem	Quantity	Unit	1	Jnit Cost	5	Item Cost
Machine Grading	10	Sta	\$	2,740.00	\$	27,400.00
Subbase, CIP	1250	Cyd	\$	15.00	\$	18,750.00
Aggregate Base, 8 inch	3810	Syd	\$	10.00	\$	38,100.00
Curb and Gutter, Conc, Det C4	105	Ft	\$	15.00	\$	1,575.00
HMA, 4E1	330	Tons	\$	85.00	\$	28,050.00
HMA, 5E1	330	Tons	\$	90.00	\$	29,700.00
Driveway, Conc, Nonreinf, 6 inch	180	Syd	\$	45.00	\$	8,100.00
Sidewalk, Conc, 4 inch	1575	Sft	\$	5.00	\$	7,875.00
Sidewalk Ramp	190	Sft	\$	8.00	\$	1,520.00
Detectable Warning Surface, Cast Iron	20	Ft	\$	85.00	\$	1,700.00
Dr Structure, Temp Lowering	14	Ea	\$	400.00	\$	5,600.00
Dr Structure Cover, Adj, Case 1	14	Ea	\$	550.00	\$	7,700.00
Dr Structure Cover, Type B	5	Ea	\$	725.00	\$	3,625.00
Dr Structure Cover, Type Q	1	Ea	\$	750.00	\$	750.00
Dr Structure Cover, Type K	8	Ea	\$	765.00	\$	6,120.00
Dr Structure, 48 inch	13	Ea	\$	2,500.00	\$	32,500.00
Sewer, Cl IV, 12 inch, Tr Det B	1200	Ft	\$	70.00	\$	84,000.00
Subtotal:			9		\$	303,065.00

**General** 

Item	Quantity	Unit	Unit Cost	Item Cost
Pavement Marking	1	LS	\$ 10,000.00	\$ 10,000.00
Permanent Signage	1	LS	\$ 3,000.00	\$ 3,000.00
Bridge Repairs	1	LS	\$ 50,000.00	\$ 50,000.00
Traffic Control	1	LS	\$ 11,000.00	\$ 11,000.00
Soil Erosion and Sedimentation Control	1	LS	\$ 6,000.00	\$ 6,000.00
Slope Restoration	1	LS	\$ 5,000.00	\$ 5,000.00
Subtotal:				\$ 85,000.00

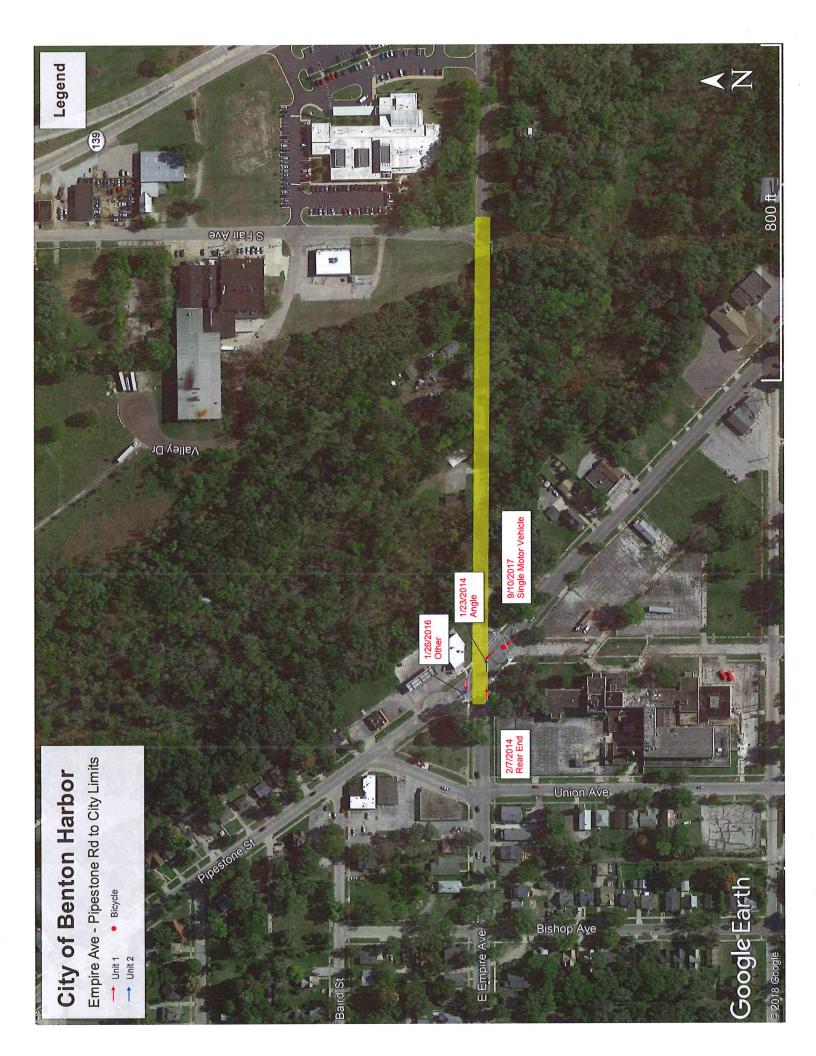
Construction	\$	488,000.00
Construction Contingency	15% \$	74,000.00
Construction Subtotal	\$	562,000.00
Engineering	15% \$	85,000.00
Project Total	\$	647,000.00

## Estimate Summary:

- 1. Length 1000'; Width 22'
- 2. Removing existing pavement 12" subbase, 8" aggregate base, 1.5" HMA Base Course, 1.5" HMA Top Course
- 3. Replacement of existing storm
- 4. Sidewalk and ramp replacement with ADA compliance
- 5. Sharrows included in Pavement Markings

95 West Main Street P.O. Box 1088 Benton Harbor, MI 49023 T 269.927.2295 F 269.927.1017

www.abonmarche.com





Project Name: Benton Harbor TIP
Prepared By: Uma Kota, EIT
Checked By: Timothy R Drews, PE, PTOE
Date: Thursday, November 29, 2018
Description: Crash Summary

				Road	Roadway Segment - Empire Avenue	opire Avenue					
Year	Primary Road	Intersecting Road Distan	Distance	Crash Type	Unit 1 Injury	Unit 1 Injury Unit 2 Injury Unit 3 Injury Weather	Unit 3 Injury	Weather	Light	Road Surface Condition Crash Description	Crash Description
1/23/2014	Empire Ave	Pipestone	АТ	Angle	0	0	1	Clear	Daylight	lcy	Unit 2 ran a red light and struck Unit 1
2/7/2014	Empire Ave	Pipestone	10' W	Rear End	0	0	,	Cloudy	Cloudy Daylight	lcy	Unit 1 slid on ice and rear-ended Unit 2
1/26/2016	Empire Ave	Pipestone	5° W	Other/Unknown	ω	υ	O	Clear	Clear Dark-Lighted	Snow	Unit 1 was fleeing the police, ran a red light and struck Unit 2 and Unit 3
9/10/2017	Empire Ave	Pipestone	Z Z	Single Motor Vehicle	0	Ą		Clear	Daylight	Dry	Unit 2 is a bicycle that ran a red light and was struck by Unit 1 a car

_	_	_	_	_
Percentage	25%	25%	25%	25%
Count	1	1	1	1
Crash Type	Single Motor Vehicle	Rear End	Angle	Other/Unknown

ntersecting Road	Count	Percentage
Pipestone	4	100%

The crash analysis indicates that none of the crashes meet the requirements for safety counter measures and Crash Reduction Factors per the HSIP

11/29/2018 Page 1 of 1

2.4

TwinCATS 2020-2023 Road Project Prioritization System

Project Name: Broadway Agency: Caty of Benton Horbor
Proposed Year: 2022 Total Points: Z9

Criteria	Points	у
System Preservation	18 points max	
a. Most recent PASER rating		-
3-4	10	10
5-6	8	
1-2	5	
b. Extension of Remaining Service Life (RSL) based on MDOT Geometric Guidelines		
Extends RSL by 15 years or more (4R project)	8	
Extends RSL by 10-14 years (3R Project)	6	6
Extends RSL by 5-9 years (Preventative Maintenance)	4	
Extends RSL by 2-4 years (Preventative Maintenance)	2	
Safety	7 points max	
a. Expected Crash Reduction - Based on MDOT approved Crash Reduction Factors		d
50% or greater	5	Edy Y
40%-49.9%	4	15 15 45
30% - 39.9%	3	dat to
20% - 29.9%	2	in the
10% - 19.9%	1	N 3111
Less than 10%	0	0
b. Addressing High Crash Locations.		
Number of crashes is 20% higher than MPO median (4 or more)	2	
Number of crashes are within 20% of MPO median (2-3)	1	1
Number of crashes is lower than 20% of the MPO median (0-1)	0	•
Non-motorized Transportation / Complete Streets	6 points max	
a. Follows the Complete Streets Policy	4	4
b. Pedestrian and bicycle elements of the project connect to existing bicycle and pedestrian facilities or those that can reasonably expect to be completed between 2019 and 2023.	2	Y

Criteria	Points	
Regional Connectivity	10 points max	
a. Average daily traffic (ADT) based on most recent traffic count		
ADT is 10,000 or more	5	
ADT is 5,000 – 9,999	4	
ADT is 2,000 – 4,999	3	
ADT is less than 2,000	0	
b. Functional Classification of the Road		
Principal Arterial	3	
Minor Arterial	2	
Major Collector	1	1
Minor Collector	0	
c. Fixed route transit (TCATA Red or Blue line) uses the road	2	2
Strategic Investment/ Project Planning	11 points max	
a. Project is identified in an Asset Management or Capital Improvement Plan	3	3
b. Project is identified as a priority in another planning document such as a master plan or parks and recreation plan	1	
c. Project crosses jurisdictional boundaries (i.e. city to township) and is arranged in such a way to be bid as a single project.	1	
d. Project continues resurfacing, reconstruction, or preventative maintenance on a segment of roadway adjacent to a project completed during the 2017-2020 TIP cycle or through Rural Task Force funding.	2	
e. Additional Local Match		
Agency will proved 40% or more local match	4	
Agency will provide 30% to 39.9% local match	2	2
Note: An 18.15% local match is the minimum required		
Project Readiness (no points)	Yes	,
Coordination with sewer or other infrastructure (no points)	Yes	
	70	

## Twin Cities Area Transportation Study 2020-2023 Transportation Improvement Program (TIP) Federal Surface Transportation Block Grant Funds Project Application

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

Section 1. Applic	cant Informa	tion					
Agency Name	City of Bento	n Harbor					
Contact Name	Darwin Wats	on	Title		City Manager		
Phone Number	(269)927-840	00	Ema	il		bentonharbormi.gov	
Section 2. Project		n					
Project Name/Road	d Name	Broadway					
Project Limits (e.g. Napier Ave. to	Britain Ave.)	City Limits to Ma	y Street	310			
Project Length (nea	arest	0.25 Mile	Pro	pose	d Year of Funding	2022	
Primary Work Type					nabilitate □ Roadsi ns/Safety □ Other	de Facility	
Project Description (Please provide maitems including side work, ADA upgrade) Was this project awas this project awas either cancato be obligated	jor work ewalks, utility es etc.) varded 7-2020 TIP,	The proposed wo sidewalk and ram	np replacen	nent		of the roadway with	
Section 3. Projec	t Funding						
Federal Funding Re			\$ 180,600.00				
Local Match (18.15	% minimum)		\$ 77,400.00				
Total	2000000000	06896018989000	\$ 258,000.00				
Local Match Percen	itage (local ma	tch/total cost)	30%				
Does your agency hadvance Construct necessary? If yes, wamount your agence Construct (AC)?	(AC) all or part hat is the max	of this project if imum dollar	☐ Yes ☒ No Maximum Dollar Amount you can AC? \$				

Section 4. System Pres	ervation					
2018 PASER rating (availibe excel file)	e as an 3	2		125		
Current state of drainage			problems with	olems n some maintenance required oding, excessive maintenance		
Expected increase in Rema Service life (RSL)		0-3 years 4-6 MDOT's <i>Guidelines</i>		14 15-20		
What MDOT guidelines do project conform to?	es the □ F	Reconstruction (4R) Resurfacing, restorate reventative Mainten	ion, and Rehal			
Section 5. Safety						
Please list the number and	severity of crashe an Crash Facts for		ed project limi	ts over the last 5 yrs.		
Total Crashes	4	Pedestrian & Bicycle Crashes				
Fatalities	ities 0 Serious Injuries 0					
Using the attached Crash Fincluded in the project	Reduction Factors	sheet, please check	each safety co	ounter measure that will be		
Describe any other safety improvements this project provide	will					
Section 6. Complete St	reets					
Does this project meet the approved in 2014?	TwinCATS Compl	ete Streets Policy,	⊠ Yes □	No		
If yes, Please explain what and/or bicycle improveme			vement marki acement cross			
If No, please state the reas project should be exempt TwinCATS Complete Stree	from the					

Does this project connect to an existing pedestrian/bicycle facility or one that is					
	ease provide a map of the connecting facilities				
Section 7. Regional Connectivity					
What is the most current daily traffic count for the lim of this project?	its				
National Functional Classification (NFC) for this roadw (Berrien County NFC Map)	Major Collector				
Does one of <u>TCATA fixed route transit lines</u> use the roa (Only indicate yes if it carries a current route, not a planned route).	rd? ☐Yes ⊠No				
Continue O Character in Discoving O Learning					
Section 8. Strategic Planning & Investment					
Is the project identified in a Asset Management Plan,	∑Yes  No				
or Capital Improvement Plan	If yes, please cite the plan and page number: Streets Asset Management Plan				
Is the project identified in another planning document	s Yes No				
such as a master plan or parks and recreation plan	If yes, please cite the plan and page number:				
Does the project cross jurisdictional boundaries?	Yes No				
If yes, will it be bid as a single project?	Yes No NA				
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	0				
location in the past five years?					
Is there a completed a utilities assessment that included televising the sewers in the project area?	Yes No				
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:				
Does this project perform Resurfacing, Reconstruction	Yes No				
or Preventative Maintenance on a segment adjacent to					
a segment where a federally-funded project was done	on?				
during the 2017-2020 TwinCATS TIP cycle or RTF cycle?					

Section 9. Exist	ing and Propo	osed Roa	adw	ay Design					
	Street (entirection	Exist	ing	one exceller one fi		Proposed	k		
Number of	Through	Center		On Street	Through	Center	On Street		
Vehicle Lanes	Traffic Lanes	Turn La	ne	Parking	Traffic Lanes	Turn Lane	Parking		
000,03 TORN ~	2	0		☐ Yes ⊠ No	2	0	☐ Yes ⊠ No		
Shoulder	Paved		Wi	dth (ft.)	Paved		Width (ft.)		
Surface	☐ Unpaved		2'-0	curb&gutter	Unpaved		2'-curb&gutter		
Sidewalk/ path	Placement			dth (ft.)	Placement		Width (ft.)		
information	One Side		4'		One Side		5'		
	Both Sides				Both Side				
	Intermitte	nt			Intermitt	ent			
On read histole	None Bike Lane		) )+ha	r (specify)	None Bike Lane	Oth	l er (specify)		
On road bicycle facilities	Sharrows	ш	Jule	i (specify)	Sharrows		er (specify)		
lacilities	Wide Shou	ılders D	₹ N	one	Wide Sho		one		
Utilities, Sewer	Utilities Up	<u>k_</u>			Replaced				
and Water	Sewer and	_			Relocating	g Utilities			
					Sewer an	d Water Line \	Work		
Please describe any improvements being Replacement of permanent signage					e and updatin	g of pavement			
made as part of this project to markings									
crosswalks, signag		Sa F							
streetscape eleme		ed in							
project descriptio	n								
Does this project	enhance conne	ctivity		Yes 🔀 No					
of pedestrian or b		d route	If y	es, how?					
or Dial-A-Ride trai	nsit?								
Section 10. Esti	mated Projec	t Sched	ule						
Activity	matearrojec					Estimated Dat	e		
Resolution of Sup	port for□ Loca	l Match S	ubm	itted to SWMPC		August 2021			
Project Applicatio	n Submitted to	MOT				August 2021			
Grade Inspection			DOT	•		September 20	21		
Grade Inspection						October 2021			
Final Plan and Est						November 202			
Right of Way (RO)						November 202	21		
Rail Road Permits						N/A			
Environmental Mi						N/A	11		
Project Obligated						December 202			
Project Letting	<b>.</b> □					February 2022	-		
Construction Star						April 2022			
Project Completic	on					lune 2022			



Project Name:

Benton Harbor TIP - Broadway

Project Number: Prepared By:

UMK

Date:

Friday, November 30, 2018

Description:

Preliminary Engineer's Estimate - Emery St to May St

Miscellaneous Quantities

Item	Quantity	Unit	Unit Cost	Item Cost
Mobilization	1	LS	\$ 20,000.00	\$ 20,000.00
Subtotal:	The second			\$ 20,000.00

Removals

Item	Quantity	Unit	Ur	nit Cost	35 -3	Item Cost
Sidewalk, Rem	590	Syd	\$	6.00	\$	3,540.00
Curb and Gutter, Rem	125	Ft	\$	10.00	\$	1,250.00
Cold Milling HMA Surface	4160	Syd	\$	3.00	\$	12,480.00
Subtotal:		1111	Elde		\$	17,270.00

Roadway-Broadway

ltem	Quantity	Unit	T	Jnit Cost	Item Cost
HMA, 4E1	350	Tons	\$	85.00	\$ 29,750.00
HMA, 5E1	350	Tons	\$	90.00	\$ 31,500.00
HMA Approach	125	Tons	\$	125.00	\$ 15,625.00
Curb and Gutter, Conc, Det C4	370	Ft	\$	20.00	\$ 7,400.00
Sidewalk, Conc, 4 inch	5250	Sft	\$	5.00	\$ 26,250.00
Sidewalk Ramp	1660	Sft	\$	10.00	\$ 16,600.00
Detectable Warning Surface, Cast Iron	120	Ft	\$	85.00	\$ 10,200.00
Dr Structure, Temp Lowering	10	Ea	\$	400.00	\$ 4,000.00
Dr Structure Cover, Adj, Case 1	10	Ea	\$	600.00	\$ 6,000.00
Dr Structure Cover, Type B	5	Ea	\$	750.00	\$ 3,750.00
Dr Structure Cover, Type Q	5	Ea	\$	750.00	\$ 3,750.00
Pavt, Cleaning	1	LSUM	\$	3,000.00	\$ 3,000.00
Subtotal:		MAL		E. Fally	\$ 157,825.00

General

Item	Quantity	Unit	Unit Cost	Item Cost
Pavement Marking	1	LS	\$ 6,000.00	\$ 6,000.00
Permanent Signage	1	LS	\$ 2,500.00	\$ 2,500.00
Traffic Control	1	LS	\$ 15,000.00	\$ 15,000.00
Soil Erosion and Sedimentation Control	1	LS	\$ 2,000.00	\$ 2,000.00
Slope Restoration	1	LS	\$ 2,500.00	\$ 2,500.00
Subtotal:				\$ 28,000.00

Construction		\$ 224,000.00
Construction Contingency	15%	\$ 34,000.00
Construction Subtotal		\$ 258,000.00
Engineering	15%	\$ 39,000.00
Project Total		\$ 297,000.00

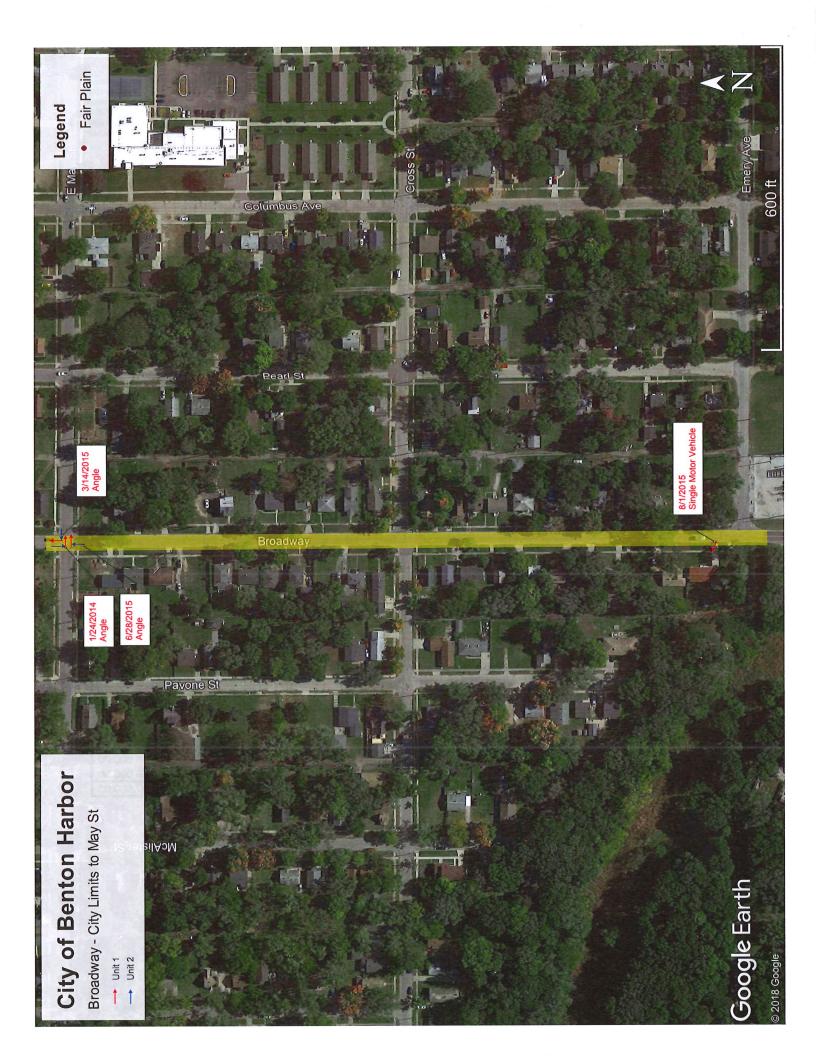
## **Estimate Summary:**

- 1. Length 1400'; Width 22' pavement
- 2. 3" cold milling 1.5" HMA Top course; 1.5" HMA Base Course
- 3. Sidewalk and ramp replacement
- 4. Sharrows included in Pavement Markings

95 West Main Street P.O. Box 1088 Benton Harbor, MI 49023 T 269.927.2295

www.abonmarche.com

F 269.927.1017





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Project Name: Benton Harbor TIP
Prepared By: Uma Kota, EIT
Checked By: Timothy R Drews, PE, PTOE
Date: Thursday, November 29, 2018
Description: Crash Summary

Voor					Roadway Segment - Broadway	roadway				
מש	Primary Road	Intersecting Road   Distance	Distance	Crash Type	I Init 1 Initus,	I lait o lain.	147			
100/10/1				L	Cint i might be constructed weather	OIIIL & INJURY	weather	Light	Road Surface Condition Crash Description	Crash Description
1/24/2014	Broadway	May	AT	Angle	0	0	Snow	Daylight	lcv	Unit failed to stop on the icy
									•	road and struck Unit 2
6/28/2015	Broadway	May	Z	Angle	0	0	Clear	Daylight	Dry	Unit 2 hit Unit 1 assuming Unit 1 was far enough
										throught the intersection
8/1/2015	Broadway	Emery	20' N	Single Motor Vehicle	O	ı	Clear	Dark-lighted	ì	Unit 1 drove recklessly and off the road hitting the living
								i	à	room window of 1294
7.00,77										Broadway
3/14/2015	Broadway	May	7. W	Angle	0	1	Clear	Daylight	20	Unit 2 drove through the
										stop sign and strikes Unit 1

Crash Type	Count	Percentage
Single Motor Vehicle	_	25%
Angle	က	75%

25%	1	Emery
75%	3	May
Percentage	Count	Intersecting Road

The crash analysis indicates that none of the crashes meet the requirements for safety counter measures and Crash Reduction Factors per the HSIP